CARDINAL
RESOURCES

July 2010 Sampling Report

Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

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1.0 Introduction

This report summarizes the methods and results of a field sampling program performed in July 2010 at the Carroll and Dubies Superfund Site (Site), Town of Deerpark, Orange County, New York. The field work followed the August 2005 Supplemental Sampling Work Plan (Cardinal Resources LLC [Cardinal Resources], 2005) approved by the United States Environmental Protection Agency (U.S. EPA), and incorporated the recommendations of the *November 2006 Sampling Report* (Cardinal Resources, 2007). The July 2010 sampling and analysis event included 14 wells comprising the revised monitoring well network: MW-1, MW-4, OW-2, OW-5, OW-6, OW-8, OW-10R, OW-13R, OW-18, OW-19, OW-21, OW-22, OW-25, and OW-24, which was re-instituted according to recommendations from the U.S. EPA's second five-year review. The purpose of this sampling program is to document volatile organic compound (VOC) concentrations in the outwash aquifer at the site, and in surface water and sediment in Gold Creek.

1.1 Site Setting

The three-acre Site is located in the Town of Deerpark in Orange County, New York, which is approximately 3,000 feet northeast of the City of Port Jervis, New York (Figure 1). The Site is situated on the northwestern flank of the Neversink Valley. Gold Creek lies approximately 1,500 feet to the east, and the Neversink River is located approximately 2,000 feet beyond Gold Creek.

The Site is underlain by sand and gravel deposits of glacial and glaciofluvial origin. Groundwater monitoring wells on the Site have been completed in the outwash unit, found above a low-permeability till zone that functions as an aquitard. The outwash unit consists of fine to coarse sand with fine to coarse gravel. The direction of groundwater flow is generally toward the southeast.

1.2 Land and Resource Use

The immediate surrounding area includes undeveloped woodlands to the north; undeveloped woodlands and a sand and gravel quarry pit to the northeast; the closed City of Port Jervis landfill, the Orange County Transfer Station, and a concrete products fabrication company to the south; and a sparsely vegetated, shale bedrock hillside to the west. In 2004, the City of Port Jervis began a small sand and gravel operation on land it owns, immediately to the southeast of the former lagoons, in the vicinity of OW-5 and OW-6.

1.3 History of Waste Disposal and Contamination

In 1971, the three-acre Carroll and Dubies Site began operating as a disposal facility consisting of a series of lagoons. The majority of wastes disposed in the lagoons were septic waste, municipal sewage sludge, and solid waste. The Site also received liquid industrial wastes from approximately 1971 to 1979.

Over time, waste constituents in the lagoons leached into groundwater and affected the outwash aquifer. VOCs were of particular concern because of their dispersion in the aquifer and relative risk. Benzene, vinyl chloride, and other VOCs were found through a series of investigations to exceed Applicable or Relevant and Appropriate Requirements (ARARs) in Site wells.

1.4 Overview of Remedies

The remedies selected for the Site were defined by two operable units (OU), the waste lagoons themselves, and the impacted groundwater. Remedies were selected and executed to remove wastes from the lagoons, restore the Site to a safe and stable condition, and promote and track improvements in groundwater quality.

1.4.1 OU-1 Remedy

The goals of the OU-1 remedy conducted in 1999 were to prevent further leaching of contaminants into groundwater, and to reduce the risks to potential future workers at the Site who could come in contact with lagoon wastes. The steps in this process were:

- Excavation of all wastes from Lagoons 1, 2, 3, 4, 6, 7, and 8, along with surrounding soils that exceeded specified levels for indicator chemicals.
- Appropriate management of all excavated wastes and soils.
- Placement of imported clean fill in the excavations, followed by grading for drainage control and vegetation.

1.4.2 OU-2 Remedy

The goals of the ongoing OU-2 remedy, which was initiated in 1999, have been to use natural attenuation to reduce or eliminate the risks associated with the ingestion of Site groundwater for future Site workers and to protect Gold Creek from Site-related impacts. The steps in the program are:

- Execution of a groundwater monitoring program in accordance with Work Plans and other documents prepared for the project and approved by the U.S. EPA.
- With each sampling round, a report is prepared for U.S. EPA that documents the progress made in achieving the remedial goals.

1.5 Overview of 2006 Groundwater Monitoring Program

A supplemental sampling program was initiated in February 2006 in response to the five-year review. Part of the program was to install two new monitoring wells, OW-24 and OW-25, east and south of OW-2, OW-5, and OW-6 (Figure 2), to determine the extent of the chlorinated VOC plume in the vicinity of OW-2, OW-5, and OW-6. Two existing monitoring wells that were not part of the ongoing groundwater monitoring network, OW-17 and OW-23, downgradient and to the west of OW-2, OW-5, and OW-6, were also redeveloped and sampled.

Groundwater was sampled three more times in 2006: in May, August, and November. The purpose of quarterly sampling of the wells in the vicinity of the chlorinated VOC plume was to evaluate trends through an entire hydrologic cycle. In all four sampling rounds, the results for the chlorinated VOC plume have been consistent. Tetrachloroethene (PCE) and trichloroethene (TCE) and their degradation products (chloroethane, 1,2-dichloroethene, and vinyl chloride) were nondetectable in OW-24 and OW-25. In OW-17 and OW-23, chlorinated VOCs were occasionally detected at low, estimated concentrations below the reporting limit, and below state and federal groundwater criteria. Chlorinated VOC impacts at OW-2, OW-5, and OW-6 remain localized. For additional information on the February, May, August, and November 2006 sampling events, refer to the respective quarterly reports (Cardinal Resources, April 2006, July 2006, November 2006, and January 2007).

1.6 Resumption of Annual Monitoring Program

In June 2007, the annual groundwater monitoring program resumed, and continued in 2008, 2009, and 2010.

2.0 Groundwater Sample Collection

This section describes methods used to collect groundwater samples for analysis. The results of the groundwater sampling and analysis program are provided in Section 4.0.

2.1 Groundwater Elevations

Before sampling began, groundwater elevations for all site wells were determined from measured depths to water from the reference point elevations. The depth to groundwater was measured using an electronic water-level meter and recorded in a monitoring well sampling form.

2.2 Wells and Equipment

Dedicated low-flow bladder pumps were used to purge and sample the entire 2010 monitoring well network, with the exception of wells OW-13R, OW-22, OW-24, and OW-25. The OW-22 has a dedicated low-flow bladder pump in it; however, it was not working. The bladder failure was suspected to be the reason. A new bladder will be installed during the next sampling round. These wells were sampled using a downhole bladder pump that was decontaminated initially and after sampling each well by:

- Washing with low phosphate detergent and tap water
- Rinsing with tap water
- Rinsing with deionized water
- Air drying

Clean disposable tubing and a clean disposable bladder were used for each well sampled with the reusable bladder pump.

The exterior protective casing locking cover for OW-19 was replaced during this round, and a new lock was placed on it. The original cover had been damaged.

2.3 Well Purging and Sampling

All wells were purged using low-flow (100 to 300 milliliters per minute [mL/min]) techniques. During purging of each monitoring well, temperature, dissolved oxygen (DO), reduction/oxidation (redox) potential, specific conductance (conductivity), pH, and turbidity were monitored and recorded on field forms in average intervals of 5 minutes.

Groundwater field parameters were measured with a YSI Model 556 MPS-10 multi-parameter unit equipped with a flow-through cell and a Hanna Turbidity Meter Model HI98703, which were calibrated prior to sampling activities. The goal was to obtain three consecutive readings of the field parameters within the following ranges:

- ±1.0 degree centigrade (°C) for temperature
- ±10 percent (%) or ±0.3 milligrams per liter (mg/L) for DO (whichever is greater)
- ±10 millivolts (mV) for redox potential
- ±3% for conductivity
- ±0.1 for pH
- ±10% or ±2 nephelometric turbidity units (NTUs) for turbidity (whichever is greater)

The final stabilized readings prior to sample collection for each of the monitoring wells are provided in Table 1. Groundwater purged from the monitoring wells was generally clear and contained little suspended sediment. When purging was complete, ground-water samples were collected directly from the pump tubing. Samples were placed immediately on ice for overnight shipment to TestAmerica Laboratories, North Canton, Ohio.

3.0 Collection of Surface Water and Sediment Samples

As part of the ongoing evaluation of conditions in Gold Creek, surface water and sediment samples were collected from two locations along Gold Creek, SED-1/SW-1 (downstream) and SED-2/SW-2 (upstream) (Figure 2). The results from the Gold Creek sampling program are provided in Section 5.0.

3.1 Surface Water Sampling

Two surface water samples were collected from Gold Creek at the established locations that have been sampled throughout the OU-2 monitoring period at SW-1, the down-stream sample, and SW-2, the upstream sample (Figure 2).

Samples were collected for VOCs at each location directly into the VOC sample vials. The sample bottles were labeled appropriately, placed in a cooler with ice, and sent to the laboratory for analysis.

Surface water elevations were determined at the two locations sampled, and also at the quarry pond, which was not sampled.

3.2 Sediment Sampling

Two sediment samples were collected from the established locations coinciding with SW-1 and SW-2 (Figure 2), and were designated SED-1 and SED-2.

The samples were collected using a stainless-steel trowel from approximately the upper six inches of sediment at the edge of the creek. The stainless-steel trowel was decon-taminated between sediment sampling locations.

4.0 Groundwater Results

This section describes the results of the July 2010 sampling event and presents a discussion of site-wide groundwater conditions.

4.1 Groundwater Elevations

The groundwater elevations for this sampling round are presented in Table 2. Associated groundwater elevation contours are shown in Figure 2.

The groundwater elevations in the wells were on the average about 0.47 foot lower than observed in July 2009; the direction of groundwater flow and gradient were about the same. Groundwater on site flows toward the southeast and Gold Creek. The groundwater gradient across the former lagoon site is approximately 0.100. This gradient transitions to a lower gradient, at about the location of the towpath. From the towpath to Gold Creek, the gradient is very shallow, approximately 0.001. The steeper gradient on the western side of the site is due to the depth to bedrock along the valley wall. As the depth to bedrock increases towards the valley floor, the thickness of the alluvial fill increases and the groundwater gradient flattens.

4.2 Summary of Groundwater Quality Results

VOCs detected in groundwater analysis in the July 2010 sampling event are presented in Table 3. Laboratory analytical reports, including marked Form Is from the data validation process, are included in Appendix A in hard copy. An electronic copy of the entire data package is also provided. Historical data of detected organic compounds have been combined with the most recent data and are presented in Table B-1 in Appendix B. In tables and discussion, the qualifier "J" with a reported concentration means an estimated result, with the analyses positively identified but the numerical value an approximate concentration. The qualifier “U” means that the analysis was not detected above the reported quantitation limit.

A variety of MNA field and laboratory parameters were analyzed in groundwater (Table 4). These parameters are general indicators of geochemical conditions conducive to degradation of chlorinated and other VOCs. Patterns of MNA indicators by area were discussed in detail in the Supporting Documentation for Five-Year Review (Cardinal Resources, March 2005), along with an evaluation of how those patterns may relate to contaminant distribution within the groundwater plume. Ten VOCs were

detected in various wells during this sampling event, five of which exceeded regulatory limits. Regulatory exceedances of VOCs in groundwater are reported in Table 5 and plotted in Figure 3.

VOC concentrations in monitoring wells in the July 2010 sampling are within the ranges seen in 2009. In the remainder of this section, specific groundwater trends and conditions are discussed in greater detail, including:

- Concentration trends for chlorinated VOCs
- Concentration trends for benzene
- Achievement of regulatory limits in monitoring wells
- MNA trends

4.3 Trends for Chlorinated VOCs

Chlorinated VOCs, mainly 1,2-dichloroethene, trichloroethene, and tetrachloroethene, are the predominant constituents on the eastern side of the site, particularly in OW-2, OW-6 (Figure 3), and OW-5, but are detectable in other locations mostly in estimated concentrations less than reporting limits.

Compared to OW-2 and OW-6, groundwater at OW-13/OW-13R and other wells on the western side is generally higher in methane or total organic carbon (TOC), has lower redox (is more reduced), and is more amenable to reductive dechlorination. In these wells, chlorinated VOCs in general showed a downward trend over time once OU-1 actions were complete. While the initial concentration of chlorinated VOCs was higher in OW-13/OW-13R compared to OW-5 (Figure 4), favorable geochemical conditions resulted in a rapid and smooth decline. Chlorinated VOCs have not exceeded criteria at this location since 2004. In OW-5, conditions for degradation have been somewhat less favorable and the decline has been slower and more variable (Figure 4). However, in 2007 and 2008, only 1,2-dichloroethene exceeded criteria, and in both 2009 and 2010, no chlorinated VOCs exceeded criteria in this well.

In OW-2, OW-5, and OW-6, the decline in chlorinated VOC concentrations has been retarded by unfavorable geochemical conditions and other factors. Concentrations appeared to peak in the years following OU-1 actions, but since then began to decline gradually (Figure 5). There are variations in concentrations from year to year, but the overall trends are downward.

4.4 Benzene Concentration Trends

As was described in detail in the *Supporting Documentation for Five-Year Review* (Cardinal Resources, 2005), different VOCs have predominated in different areas downgradient of the former lagoons. Benzene has predominated in several monitoring wells in the southwestern areas of the Site, with the highest concentrations observed in MW-4, OW-10R, and OW-13R. Benzene was below the federal Maximum Contaminant Level (MCL) of 5 ug/L in July 2010 in MW-4, OW-10R, OW-18, OW-19, OW-21, and OW-22, although not below the New York State Standard or Guidance Value (SGV) of 1 ug/L. Benzene exceeded the MCL of 5 ug/L in only one monitoring well in July 2010, OW-13R (17 ug/L).

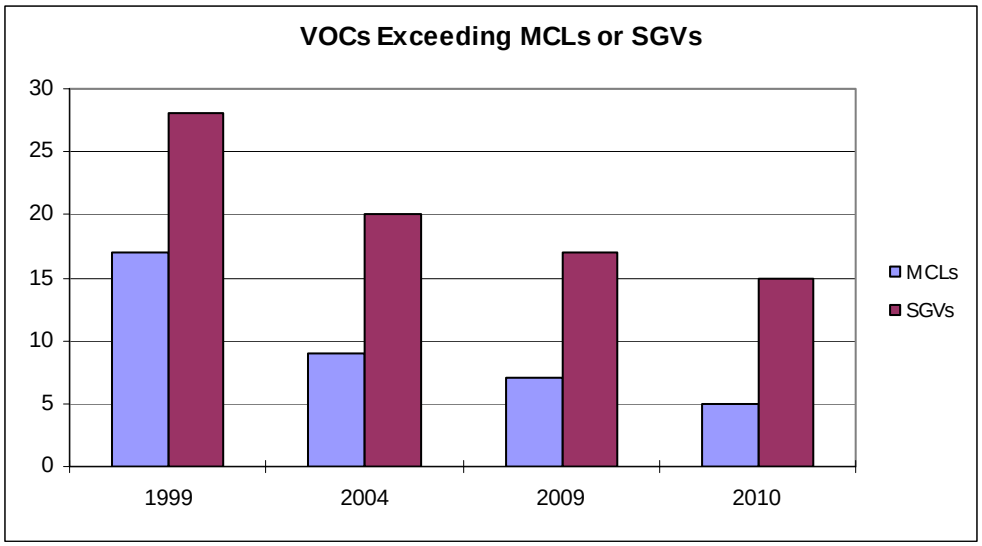
Benzene has exhibited an overall downward trend in individual wells with historically high concentrations, OW-10R, OW-13R, and OW-22, illustrated in Figure 6. There has also been a flattening and mass decline of the benzene plume along the groundwater flow path, illustrated in Figure 7. This depiction shows how the benzene concentration has declined 2 to 3 orders of magnitude since 2000 in OW-10R and OW-13/OW-13R, closest to the source area.

Not only do historic trends show declining benzene concentrations, but in the period from 2006 to 2010, even with variable concentrations, overall benzene concentration trends continue to be downward (Figure 8)

4.5 Achievement of MCLs and SGVs

Since completion of OU-1 remediation in 1999, some, but not all, of the MCLs and state groundwater SGVs had been met in groundwater wells downgradient of the former lagoons. Table 5 summarizes these findings through the current sampling round. Only wells consistently monitored from 1999 through 2010 are shown in this table for comparison purposes so that the same wells are compared each time. This sampling round shows the fewest exceedances of MCLs (5) and SGVs (15) for the indicator wells, compared to all previous sampling rounds.

The overall trend since 1999 indicates that there has been substantial improvement in groundwater quality relative to MCLs and SGVs:



The decline in the number of wells exceeding MCLs was 22% in 2010 compared to 2004; the decline in the number of wells exceeding SGVs was 25%.

4.6 Monitored Natural Attenuation Trends

A variety of MNA field and laboratory parameters have been analyzed over time in groundwater (Table 4). These parameters are general indicators of geochemical conditions conducive to degradation of chlorinated and other VOCs. Patterns of MNA indicators by area were discussed in the *Supporting Documentation for Five-Year Review* (Cardinal Resources, 2005), along with an evaluation of how those patterns may relate to contaminant distribution within the groundwater plume. The patterns seen in July 2010 are consistent with the observations presented previously, with the areas predicted to be most amenable to degradation in monitoring wells to the south and west (MW-4, OW-10R, OW-13R, OW-18, OW-19, OW-21, OW-22). In these wells,

- Methane concentrations of 50 ug/L or greater were observed;
- Relatively high TOC, 2 mg/L or greater, was found; and
- Low DO and redox potential indicating reduced conditions were found.

Table 6 illustrates the variability of conditions conducive to, or indicative of, natural attenuation of chlorinated VOCs across the site. This weighting and scoring table is adapted from the U.S. EPA's technical protocol for natural attenuation of chlorinated aliphatic hydrocarbons (U.S. EPA, 1997). It shows high scores for OW-10R and OW-13R, located close to the former lagoons on the western side of the Site, and low scores for OW-2 and OW-25, on the eastern side of the site.

5.0 Gold Creek Sampling Results

Refer to Section 3.0 for a description of the methods for surface water and sediment sample collection along the creek. Table 7 provides the results for VOCs detected in surface water and sediment samples collected from two locations along Gold Creek (Figure 2).

The results are arranged in the table from the sampling location furthest downstream (SED-1/SW-1) to the furthest upstream (SED-2/SW-2). These are the established sampling locations that have been used throughout the OU-2 monitoring program.

5.1 Surface Water Results

VOCs were not detected in surface water samples (Table 7). Historic SW-1 and SW-2 sample results are provided in Appendix B, Table B-2.

5.2 Sediment Results

Acetone and methylene chloride were reported in both upgradient and downgradient sediment samples during this sampling round (Table 7). Both constituents are common laboratory artifacts. The results are below reported guidance values for freshwater sediments (National Oceanic and Atmospheric Administration, 2008; NYSDEC Division of Water, 2004).

5.3 Discussion

The results for the two sampling locations along Gold Creek are consistent with past observations for SED-1/SW-1 and SED-2/SW-2. Based on the nondetectable to low detections of VOCs in upstream and downstream samples that do not exceed conservative ecological criteria, there is no evidence that ecological conditions in Gold Creek are being adversely affected by the Site.

6.0 Data Quality Review

Data quality review was performed on the analytical data packages to assure that quality and usability requirements were met.

6.1 Introduction

A Tier II data quality review of the sample data package was completed using U.S. EPA guidelines. The Tier II data evaluation consisted of a review of data package completeness and a quality control (QC) review, as summarized in the QC forms provided by the laboratory, covering:

- Signed transmittal page
- Data package narrative
- Sample transmittal documentation
- Standard VOC QC forms for:
  - System monitoring compound (surrogate recovery)
  - Matrix spike/matrix spike duplicate (MS/MSD) recovery
  - Laboratory check samples
  - Method blank summary
  - Instrument performance check
  - Internal standard summary and retention time (RT) summary
  - Initial calibration data
  - Continuing calibration data
- Form Is and raw data for field samples, blanks, laboratory control samples, MS/MSDs
- Copies of logbook pages documenting sample preparation, extract transfer, instruments, and sample tracking
- Holding times
- Form Is and raw data for field and QC samples
- Field duplicates and field, trip, and decontamination blanks.

Checklists documenting the review of three laboratory sample delivery groups (SDGs) are provided in Appendix C.

6.2 Results of Data Review

The hand-marked, qualified Form Is are provided in Appendix A with the laboratory reports. Results in Tables 3, 7, B-1, B-2, and B-3 reflect the qualified data. The data qualifiers used as a result of the data review are:

- U - The analyses were analyzed for, but were not detected above the reported sample quantitation limit.
- J - The analyses were positively identified; the associated numerical value is the approximate concentration of the analyses in the sample.
- UJ - The analyses were not detected above the reported quantitation limit, but the reported quantitation limit is approximate.

The data packages were complete and appropriately organized, and all relevant supporting information was provided.

6.2.1 Field QC Samples

The field QC samples for VOC analyses were one surface water duplicate (SW-1); one sediment duplicate (SED-1); one groundwater duplicate (OW-13R); three MS/MSD pairs (SW-2 MS/MSD, SED-2 MS/MSD, OW-13R MS/MSD); one decontamination blank for the pump (pump rinsate); three field blanks; and three trip blanks. A field blank was collected for each of the three sampling days, and a trip blank was included with each sample cooler.

6.2.2 Data Quality and Usability

Although there were some qualifications as estimated or nondetectable values that resulted from the data quality review process, the analytical results are usable and of acceptable quality; no results have been rejected.

7.0 Summary and Conclusions

The results of the 2010 sampling program for the Carroll and Dubies Site show continued progress from 2006 through 2010:

- The number of wells exceeding MCLs declined by 22% in 2010 compared to 2006, and the number of wells exceeding SGVs declined by 25%. This sampling round showed the fewest exceedances for the indicator wells, compared to all previous sampling rounds.
- VOCs continued to be nondetectable at the eastern boundary of the site at OW-8 and OW-25.
- Benzene concentration trends in OW-10R, OW-13R, and OW-22 are downward.
- Chlorinated VOC concentration trends in OW-2, OW-5, and OW-6 are downward.
- VOC concentrations in Gold Creek surface water and sediment samples continued to be low to nondetectable, and well below ecological guidance criteria, when detected.

These results continue to confirm the validity of the U.S. EPA's conclusions in the Protectiveness Statement contained in its 2010 Five-Year Review Report:

> *"The implemented remedial actions at all OUs at the Carroll and Dubies Sewage Disposal Site are protective of human health and the environment. There are no exposure pathways that could result in unacceptable risks and none are expected as long as the institutional controls, which are in place, and the natural attenuation remedy selected in the decision documents for the Site continue to be properly monitored and maintained."*

These positive environmental trends since the 2005 five-year review continue to demonstrate that:

- The OU-1 and OU-2 remedies are functioning as intended
- The basic assumptions made about the Site during remedy selection are unchanged
- No new information has been found that affects the protectiveness of the remedies

The successes of the OU-1 and OU-2 remedies over the ten-year period suggest that consideration should be given to a reduced scope in future sampling programs.

8.0 References

Cardinal Resources LLC, July 2007, *June 2007 Sampling Report, Carroll and Dubies Superfund Site, Town of Deerpark, Orange County, New York,* Prepared for Kolmar Laboratories, Inc. and Wickhen Products, Inc.

Cardinal Resources LLC, January 2007, *November 2006 Sampling Report, Carroll and Dubies Superfund Site, Town of Deerpark, Orange County, New York.*

Cardinal Resources LLC, November 2006, *August 2006 Sampling Report, Carroll and Dubies Superfund Site, Town of Deerpark, Orange County, New York.*

Cardinal Resources LLC, July 2006, *May 2006 Sampling Report, Carroll and Dubies Superfund Site, Town of Deerpark, Orange County, New York.*

Cardinal Resources LLC, April 2006, *February 2006 Sampling Report, Carroll and Dubies Superfund Site, Town of Deerpark, Orange County, New York.*

Cardinal Resources, Inc., August 2005, *Supplemental Sampling Work Plan, Carroll and Dubies Superfund Site,* Prepared for Kolmar Laboratories, Inc. and Wickhen Products, Inc.

Cardinal Resources, Inc., March 2005, *Supporting Documentation for Five-Year Review, Carroll and Dubies Superfund Site,* Prepared for Kolmar Laboratories, Inc. and Wickhen Products, Inc.

New York State Department of Environmental Conservation (NYSDEC), Division of Water, November 2004, *Technical & Operational Guidance Series (TOGS) 5.1.9, In-Water and Riparian Management of Sediment and Dredge Material,* Bureau of Water Assessment and Management, Albany, New York.

National Oceanic and Atmospheric Administration (NOAA), November 2008, *Screening Quick Reference Tables (SQuiRTs),* Assessment and Restoration Division (ARD), Office of Response and Restoration.

United States Environmental Protection Agency, 2005, *Five-Year Review Report, Carroll and Dubies Superfund Site, Town of Deerpark, Orange County, New York,* Prepared by U.S. EPA Region 2, New York, New York.

United States Environmental Protection Agency, 1997, Proceedings of the Symposium on Natural Attenuation of Chlorinated Organics in Groundwater, EPA/540/R-97/504, Office of Research and Development, Washington, DC.

Tables

Table 1
Groundwater Field Stabilization Parameters
July 2010
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Well ID	Date	Temperature (°C)	Dissolved Oxygen (mg/L)	Redox (mV)	Specific Conductance (uS/cm)	pH (standard units)	Turbidity (NTUs)
MW-1	07/21/10	11.54	0.37	139.2	165	6.27	1.18
MW-4	07/20/10	14.61	0.45	-25.4	478	6.45	1.84
OW-2	07/21/10	12.00	1.40	129.4	106	5.76	2.18
OW-5	07/21/10	14.45	0.31	127.8	264	6.19	2.88
OW-6	07/21/10	12.93	4.70	120.9	98	5.93	9.15
OW-8	07/20/10	11.00	0.45	-8.2	111	6.53	25.3[(1)]
OW-10R	07/20/10	12.02	0.66	15.5	397	6.32	3.94
OW-13R	07/21/10	13.73	0.23	-26.0	500	6.61	48.1[(1)]
OW-18	07/22/10	12.72	0.19	-44.0	536	6.33	2.80
OW-19	07/22/10	14.01	0.23	-25.9	368	6.33	1.16
OW-21	07/20/10	12.90	0.32	0.0	414	6.37	1.90
OW-22	07/20/10	13.65	0.29	-42.4	424	6.32	3.39
OW-24	07/22/10	12.36	3.67	61.8	176	7.22	179[(1)]
OW-25	07/22/10	12.67	7.90	108.7	93	6.30	165[(1)]

Notes:
[(1)]Purge water remained slightly gray and cloudy resulting in elevated turbidity reading.
mg/L = milligrams per liter
mV = milliVolts
uS/cm = microSiemens per centimeter
NTU = nephelometric turbidity units

Table 2
Groundwater and Surface Water Elevation Data[1]
July 2010
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Well No.	Top of Casing Elevation or Staff Gauge[2]	Screened Interval	Depth to Groundwater or Surface Water	Groundwater or Surface Water Elevation
MW-1	469.39	28.5 - 43.5	35.45	433.94
MW-4	470.13	35.3 - 50.3	39.13	431.00
OW-2	472.33	30.0 - 47.0	41.50	430.83
OW-3	472.70	30.0 - 46.5	42.15	430.55
OW-4	473.33	26.5 - 27.5	36.19	437.14
OW-5	459.85	25.5 - 45.5	29.03	430.82
OW-6	464.40	31.4 - 51.4	33.58	430.82
OW-8	464.63	34.6 - 54.6	33.75	430.88
OW-9	472.91	25.3 - 35.3	31.33	441.58
OW-10R	469.27	29.0 - 39.0	32.55	436.72
OW-13R	457.69	25.0 - 35.0	26.97	430.72
OW-15	472.05	22.0 - 32.0	13.62	458.43
OW-16	453.90	18.0 - 28.0	23.33	430.57
OW-17	447.18	11.0 - 21.0	16.53	430.65
OW-18	444.57	11.0 - 21.0	13.90	430.67
OW-19	438.69	5.0 - 15.0	8.30	430.39
OW-21	467.46	37.1 - 47.1	36.92	430.54
OW-22	467.10	38.0 - 48.0	36.57	430.53
OW-23	444.73	29.0 - 39.0	14.12	430.61
OW-24	446.77	14.4 - 24.4	16.25	430.52
OW-25	452.47	20.0 - 30.0	21.79	430.68
SW-1[3]	432.01	-	3.06	428.95
SW-2[3]	432.01	-	1.03	430.98
SW-3[3]	437.44	-	5.80	431.64

Notes:
[1]Data reported in feet; elevations relative - mean sea level; 1988 National Geodetic Vertical Datum.
[2]Top of casing and gauge staff elevations surveyed by Maser Consulting P.A.
[3]Water elevation measured from top of surveyed staff gauge.

Table 3
Summary of Detected TCL Volatile Organic Compounds in Groundwater (ug/L)
July 2010
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Compound	NYSDEC	U.S. EPA	MW-1	MW-4	OW-2	OW-5	OW-6	OW-8	OW-10R	OW-13R	OW-13R DUP
	SGV	MCL	07/21/10	07/20/10	07/21/10	07/21/10	07/21/10	07/20/10	07/20/10	07/21/10	07/21/10
Acetone	50 (S)	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Benzene	1 (S)	5	1.0 U	2.0	1.0 U	0.37 J	1.0 U	1.0 U	4.6	17	17
Chlorobenzene	5 (S)*	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.88 J	1.0 U	1.0 U
Chloroethane	5 (S)*	NE	2.0 UJ	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ	2.0 U	0.87 J	2.0 UJ	2.0 UJ
Chloromethane (methyl chloride)	5 (S)	NE	2.0 U	2.0 U	2.0 U	2.0 U	0.31 J	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethene (total)	5 (S)*	70	1.0 U	1.0 U	39	4.8	20	1.0 U	0.39 J	0.70 J	0.78 J
1,2-Dichloropropane	1 (S)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5 (S)*	5	1.0 U	1.0 U	77	4.2	42	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5 (S)*	5	1.0 U	1.0 U	12	1.6	8.6	1.0 U	1.0 U	0.35 J	0.35 J
Vinyl Chloride	2 (S)	2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.66 J	1.2 J	1.2 J
Xylenes	50 (S)	10,000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Compound	NYSDEC	U.S. EPA	OW-18	OW-19	OW-21	OW-22	OW-24	OW-25
	SGV	MCL	07/22/10	07/22/10	07/20/10	07/20/10	07/22/10	07/22/10
Acetone	50 (S)	NE	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1 (S)	5	2.8	1.2	1.9	2.5	1.0 U	1.0 U
Chlorobenzene	5 (S)*	100	11	11	1.0 U	4.5	1.0 U	1.0 U
Chloroethane	5 (S)*	NE	0.41 J	0.85 J	2.0 U	2.0 U	2.0 U	2.0 U
Chloromethane (methyl chloride)	5 (S)	NE	2.0 U	2.0 U	2.0 U	2.0 U	0.47 J	2.0 U
1,2-Dichloroethene (total)	5 (S)*	70	1.0 U	0.65 J	1.0 U	0.38 J	1.0 U	1.0 U
1,2-Dichloropropane	1 (S)	5	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5 (S)*	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5 (S)*	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2 (S)	2	2.0 U	0.63 J	0.71 J	0.26 J	2.0 U	2.0 U
Xylenes	50 (S)	10,000	0.63 J	1.0 U	1.0 U	0.64 J	1.0 U	1.0 U

Notes:
TCL = Target Compound List
NYSDEC SGV = New York State Department of Environmental Conservation Standards (S) and Guidance (G) Values for groundwater.
U.S. EPA MCL = United States Environmental Protection Agency Maximum Contaminant Level for drinking/groundwater.
U = The analyte was analyzed for, but was not detected above the reported quantitation limit.
J = Estimated result; result is less than reporting limit.
UJ = The analyte was not detected above the reporting limit; however, the reporting limit is approximate.
NE = Not established; no criteria specified
* = The principal organic contaminant (POC) standard for groundwater of 5 ug/L applies to this substance.
Blue = **Analyte detected at less than regulatory limit, or analyte detected but no regulatory criteria specified** **Red** = **Concentrations detected at or above regulatory limit**
Acetone was reported in OW-2, MW-4, OW-8, OW-10R, OW-18, OW-19, and OW-25; however, the results were qualified during the data validation process as not detected (U) at the reporting level due to the presenece of acetone in an associated blank.

Table 4
Natural Attenuation Parameters
July 2010
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Well ID	Date	Alkalinity (mg/L)	Chloride (mg/L)	Dissolved Oxygen (mg/L)	Ethane (ug/L)	Ethene (ug/L)	Ferrous Iron (mg/L)*	Methane (ug/L)	Nitrate as N (mg/L)	Redox (mV)	Sulfate (mg/L)	Sulfide (mg/L)	TOC (mg/L)
MW-1	07/21/10	110	3.2	0.37	ND	ND	0.0	0.18 J	0.69	139.2	10.8	ND	1
MW-4	07/20/10	110	67.2	0.45	ND	ND	4.5	280	ND	-25.4	67.0	ND	2
OW-2	07/21/10	34	2.0	1.40	ND	ND	0.0	0.14 J	4.7	129.4	15.6	ND	ND
OW-5	07/21/10	100	7.6	0.31	ND	ND	0.0	0.82	0.92	127.8	54.6	ND	1
OW-6	07/21/10	35	1.2	4.70	ND	ND	0.2	ND	0.21	120.9	24.6	ND	ND
OW-8	07/20/10	53	2.3	0.45	ND	ND	4.3	2.5	ND	-8.2	12.3	ND	ND
OW-10R	07/20/10	250	ND	0.66	ND	ND	4.4	2,300	ND	15.5	36.2	ND	3
OW-13R	07/21/10	340	2.8	0.23	0.46 J	ND	4.6	670	ND	-26.0	25.1	ND	3
OW-13R Dup	07/21/10	330	2.8	NA	0.5	ND	NA	720	ND	NA	25.2	ND	3
OW-18	07/22/10	320	7.9	0.19	ND	ND	7.6	910	ND	-44.0	3.5	ND	10
OW-19	07/22/10	180	5.8	0.23	0.56 J	ND	3.2	1,500	ND	-25.9	15.9	ND	6
OW-21	07/20/10	260	ND	0.32	ND	ND	4.1	290	ND	0.0	23.6	ND	3
OW-22	07/20/10	220	7.4	0.29	ND	ND	4.2	2,700	ND	-42.4	11.7	ND	4
OW-24	07/22/10	110	1.8	3.67	ND	ND	0.0	ND	0.21	61.8	12.6	ND	ND
OW-25	07/22/10	46	1.5	7.90	ND	ND	0.0	ND	1.8	108.7	9.2	ND	ND

Notes:
mg/L = milligrams per liter
ug/L = micrograms per liter
*Ferrous iron was measured in the field (Hach kit).
mV = milliVolts
TOC = Total organic carbon
ND = Not detected
NA = Not applicable
J = Estimated result; result is less than the reporting limit.

Table 5
MCL and SGV Exceedances - 1999, 2004, and 2006 through 2010
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Well	Compound	MCL ug/L	SGV ug/L	1999 Exceedance		2004 Exceedance		Feb 2006 Exceedance		Aug 2006 Exceedance		Jun 2007 Exceedance		Jul 2008 Exceedance		Jul 2009 Exceedance		Jul 2010 Exceedance	
				MCL	SGV	MCL	SGV	MCL	SGV	MCL	SGV	MCL	SGV	MCL	SGV	MCL	SGV	MCL	SGV
MW-4	Benzene	5	1	X	X		X		X	X	X	X	X		X		X		X
	1,2-Dichloroethene (1,2-DCE)	70	5		X														
OW-2	Benzene	5	1				X												
	Tetrachloroethene (PCE)	5	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Trichloroethene (TCE)	5	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1,2-Dichloroethene (1,2-DCE)	70	5	X	X	X	X	X	X	X	X		X		X		X		X
OW-5	Tetrachloroethene (PCE)	5	5	X	X	X	X			X	X								
	Trichloroethene (TCE)	5	5	X	X														
	1,2-Dichloroethene (1,2-DCE)	70	5		X		X		X		X		X		X				
OW-6	Tetrachloroethene (PCE)	5	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Trichloroethene (TCE)	5	5			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1,2-Dichloroethene (1,2-DCE)	70	5		X		X		X		X		X		X		X		X
OW-10(R)*	Benzene	5	1	X	X	X	X		X	X	X		X	X	X		X		X
	Chlorobenzene	100	5		X														
	Methylene chloride	5	5	X	X														
	Toluene	1,000	5		X														
OW-13 - OW-13R**	Benzene	5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1,2-Dichloroethene (1,2-DCE)	70	5		X														
	Methylene chloride	5	5	X	X														
	Toluene	1,000	5		X														
	Vinyl chloride	2	2	X	X	X	X												
OW-18	Benzene	5	1		X		X	X	X		X		X		X		X		X
	Chlorobenzene	100	5				X		X		X		X		X		X		X
	Xylenes (total)	10,000	5						X										
OW-19	Benzene	5	1	X	X		X		X		X		X		X		X		X
	Chlorobenzene	100	5		X		X		X		X		X		X		X		X
	Chloroethane	NA	5		X														
	Vinyl chloride	2	2	X	X			X	X	X	X					X	X		
OW-21	Benzene	5	1	X	X		X		X		X		X		X		X		X
OW-22	Benzene	5	1	X	X		X	X	X		X		X		X	X	X		X
	Chlorobenzene	100	5		X		X		X		X						X		
	Vinyl chloride	2	2	X	X														
Total				17	28	9	20	9	19	10	19	6	16	6	16	7	17	5	15

Notes:
*OW-10 was replaced with OW-10R in 2000. OW-10 was abandoned because it was within the OU1 construction area.
**OW-13R was installed in February 2006 to replace OW-13.

Table 6
Weighting and Scoring of Natural Attenuation Parameters
July 2010
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte	Concentration Indicating Conditions for Reductive Dechlorination	Ranking Value	OW-2	OW-10R	OW-13R	OW-25
Dissolved Oxygen	<0.5 mg/L	3	-	-	3	-
Dissolved Oxygen	>1 mg/L	-3	-3	-	-	-3
Nitrate	<1 mg/L	2	-	2	2	-
Iron (II)	>1 mg/L	3	-	3	3	-
Sulfate	<20 mg/L	2	2	-	-	2
Oxidation Reduction Potential (ORP)	<50 mV	1	-	1	1	-
	<-100 mV	2	-	-	-	-
Temperature	>20°C	1	-	-	-	-
Total Organic Carbon	>20 mg/L	1	-	-	-	-
Alkalinity	>2x background (MW-1)	1	-	1	1	-
Chloride	>2x background (MW-1)	2	-	-	-	-
BTEX	>0.1 mg/L	2	-	-	-	-
1,2-Dichloroethene	Detected	2	2	2	2	-
Vinyl Chloride	Detected	2	-	2	2	-
Chloroethane	Detected	2	-	2	-	-
1,1-Dichloroethene	Detected	2	-	-	-	-
1,1-Dichloroethane	Detected	2	-	-	-	-
Methane	Detected	2	2	2	2	-
Ethane	Detected	2	-	-	2	-
Ethene	Detected	2	-	-	-	-
Total Score			**3**	**15**	**18**	**2**

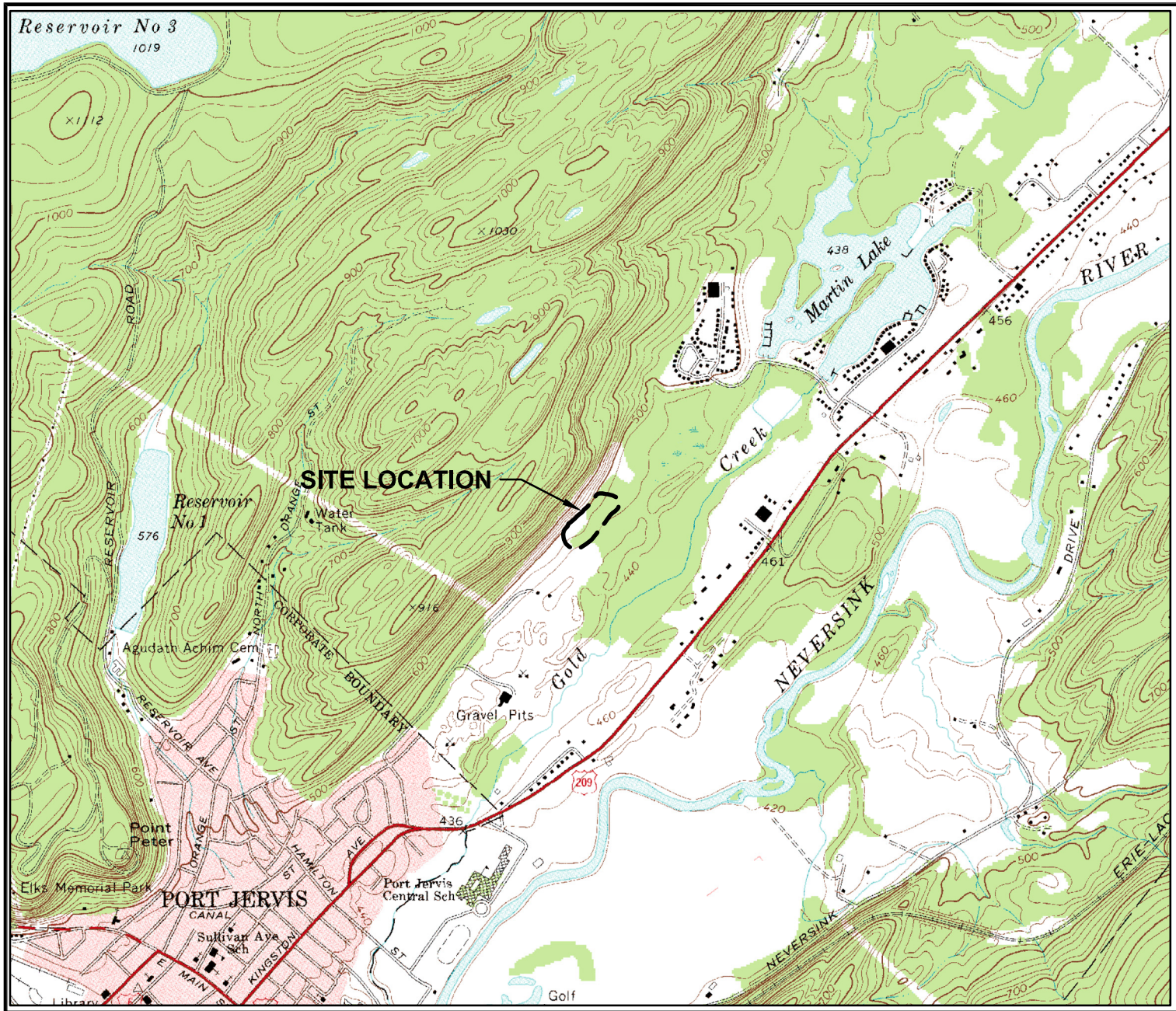
Source: U.S. EPA, 1997.

Table 7
Detected Volatile Organic Compounds
July 2010
Surface Water and Sediment Sampling Locations in Gold Creek
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Location	Sediment Guidance Values	SED-1 / SW-1 (Downstream)				SED-2 / SW-2 (Upstream)	
Sample		SED-1	SED-1 DUP	SW-1	SW-1 DUP	SED-2	SW-2
Constituent	ug/kg	ug/kg	ug/kg	ug/L	ug/L	ug/kg	ug/L
Acetone	-	**45 J**	**85 J**	10 U	10 U	**89 J**	10 U
Methylene Chloride	3,900[(1)]	**7.9**	21 U	1.0 U	1.0 U	**18**	1.0 U

Notes:
[(1)]National Oceanic and Atmospheric Administration, 2008, Screening Quick Reference Tables, Dutch Intervention Guidance Values.
J = Estimated result; less than the reporting limit.
U = The analyte was analyzed for but not detected above the quantitation limit.
Acetone was reported in SW-1 and SW-1 Dup; however, the results were qualified during the data validation process as not detected (U) at or above the reported levels due to the presence of acetone in an associated blank.
Blue = **Detected constituents**

Figures



2,000' 0 2,000'

SCALE IN FEET

LEGEND:

APPROXIMATE SITE BOUNDARY

SOURCE:

USGS TOPOGRAPHIC QUADRANGLE MAP
PORT JERVIS NORTH, NEW YORK, DATED 1991.

CARDINAL RESOURCES

CARROLL AND DUBIES SUPERFUND SITE
TOWN OF DEERPARK, ORANGE COUNTY, NEW YORK

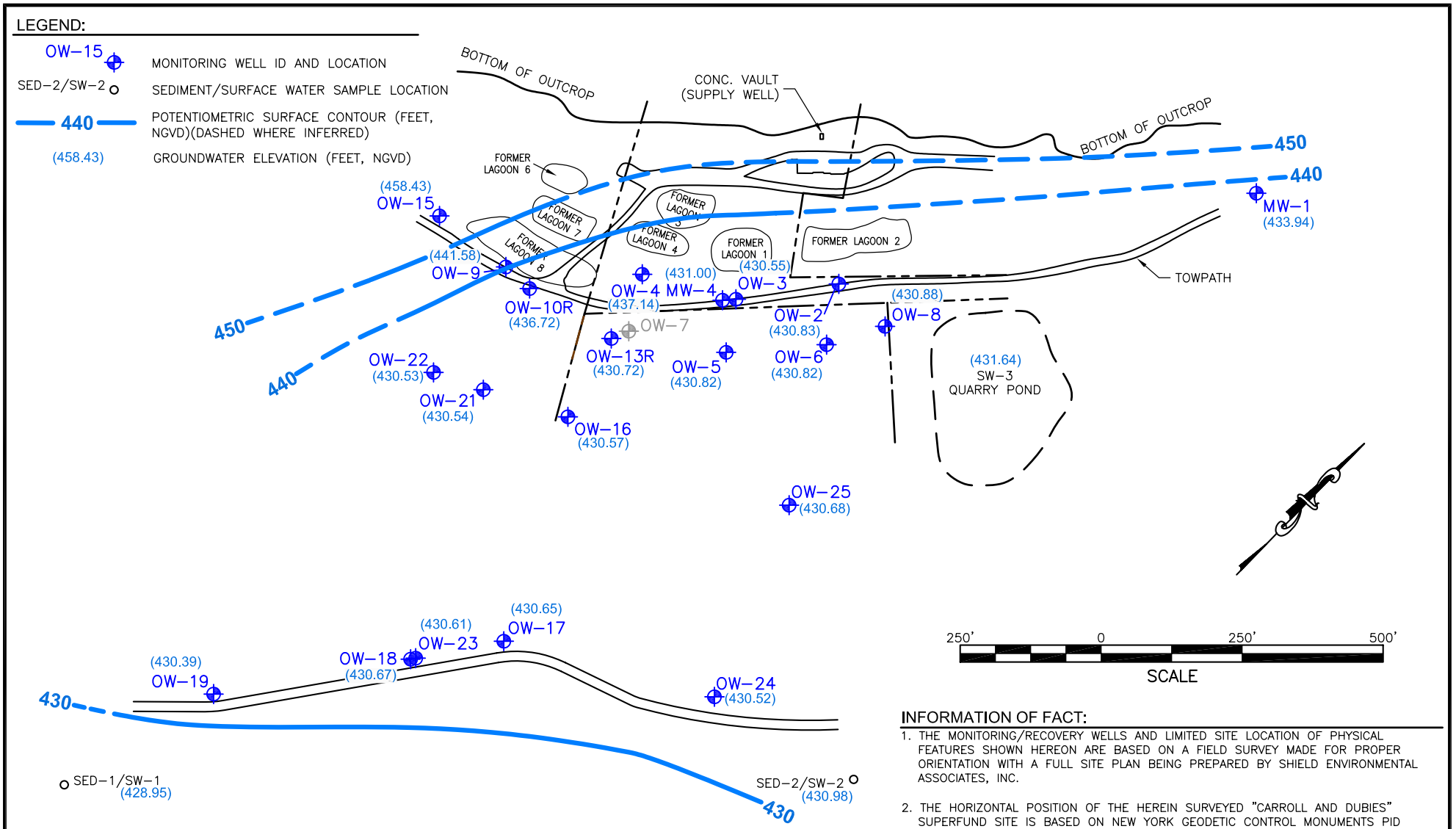
105-0035

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
1							
0	ECM						

FIGURE 1

SITE LOCATION MAP

CADD FILE	9005	SCALE	AS NOTED	CURRENT DATE:	03-07-2005
DRAWING NO.	105-0035-0300-01			REVISION	0



INFORMATION OF FACT:

1. THE MONITORING/RECOVERY WELLS AND LIMITED SITE LOCATION OF PHYSICAL FEATURES SHOWN HEREON ARE BASED ON A FIELD SURVEY MADE FOR PROPER ORIENTATION WITH A FULL SITE PLAN BEING PREPARED BY SHIELD ENVIRONMENTAL ASSOCIATES, INC.

2. THE HORIZONTAL POSITION OF THE HEREIN SURVEYED "CARROLL AND DUBIES" SUPERFUND SITE IS BASED ON NEW YORK GEODETIC CONTROL MONUMENTS PID # LY2611 (LAUREL) AND PID # AB3870 (DIANNE).

   ADJUSTED TO NAD 1983 WITHIN THE NEW YORK STATE PLANE COORDINATE SYSTEM.

NOTE: THE OUTLINES OF THE FORMER LAGOONS ARE BASED ON THE ACTUAL EXCAVATION.

SOURCE: MASER CONSULTING P.A. MONITORING WELL LOCATION PLAN. INDEXN). SUOOQ9, MARCH 3, 1999.

CARDINAL RESOURCES

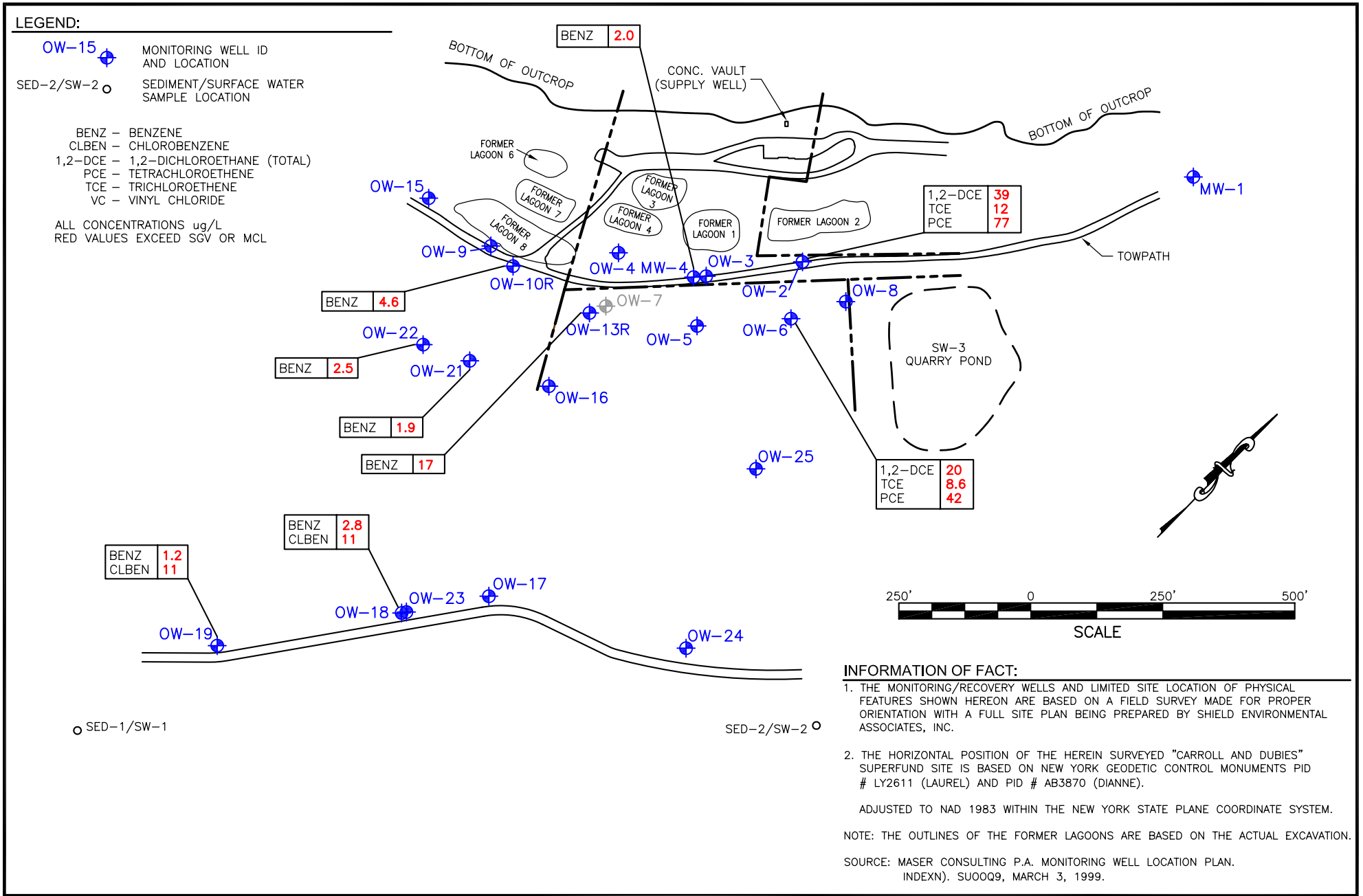
CARROLL AND DUBIES SUPERFUND SITE
TOWN OF DEERPARK, ORANGE COUNTY, NEW YORK
104-0012

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
1							
0	ECM						

FIGURE 2

GROUNDWATER CONTOUR MAP JULY 2010

CADD FILE	9527	SCALE	AS NOTED	CURRENT DATE:	09–17–2010
DRAWING NO.	104-0012-0300-02 July10			REVISION	0



INFORMATION OF FACT:

1. THE MONITORING/RECOVERY WELLS AND LIMITED SITE LOCATION OF PHYSICAL FEATURES SHOWN HEREON ARE BASED ON A FIELD SURVEY MADE FOR PROPER ORIENTATION WITH A FULL SITE PLAN BEING PREPARED BY SHIELD ENVIRONMENTAL ASSOCIATES, INC.

2. THE HORIZONTAL POSITION OF THE HEREIN SURVEYED "CARROLL AND DUBIES" SUPERFUND SITE IS BASED ON NEW YORK GEODETIC CONTROL MONUMENTS PID # LY2611 (LAUREL) AND PID # AB3870 (DIANNE).

   ADJUSTED TO NAD 1983 WITHIN THE NEW YORK STATE PLANE COORDINATE SYSTEM.

NOTE: THE OUTLINES OF THE FORMER LAGOONS ARE BASED ON THE ACTUAL EXCAVATION.

SOURCE: MASER CONSULTING P.A. MONITORING WELL LOCATION PLAN. INDEXN). SUOOQ9, MARCH 3, 1999.

CARDINAL RESOURCES

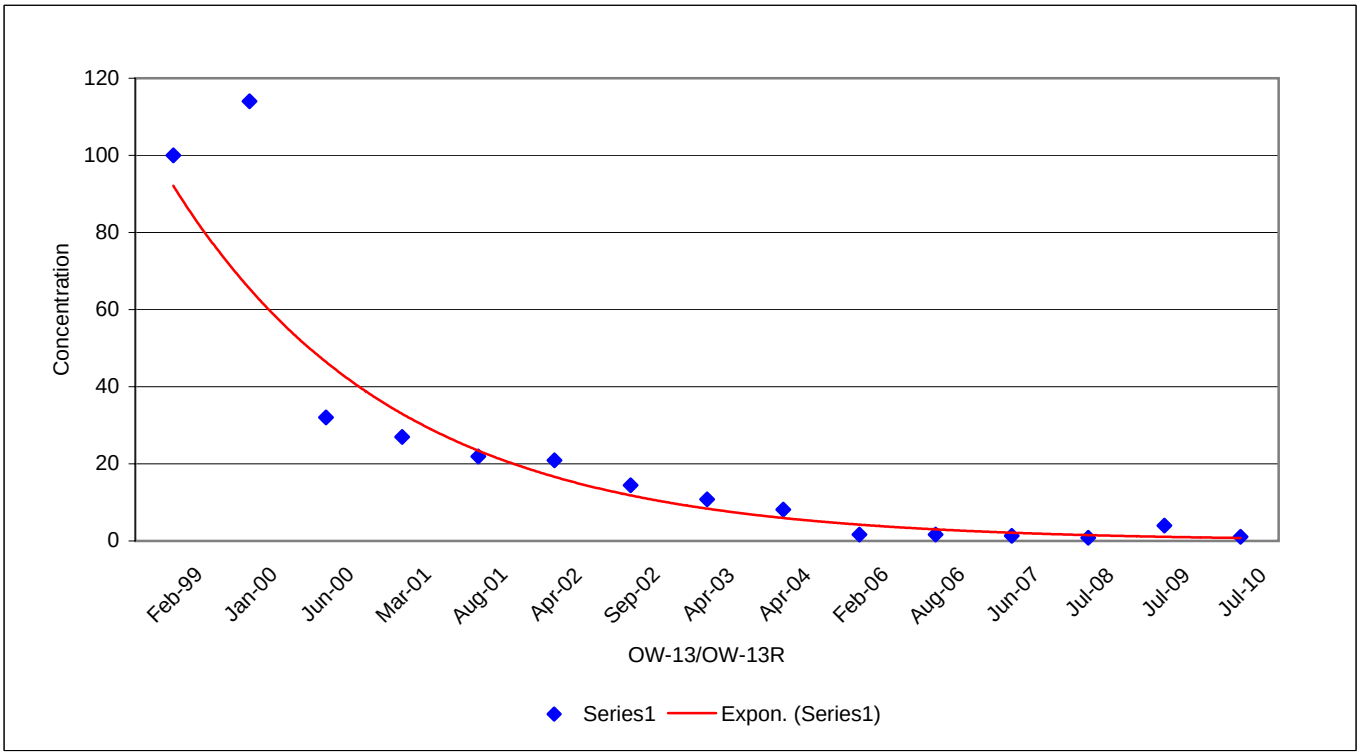
CARROLL AND DUBIES SUPERFUND SITE
TOWN OF DEERPARK, ORANGE COUNTY, NEW YORK
104-0012

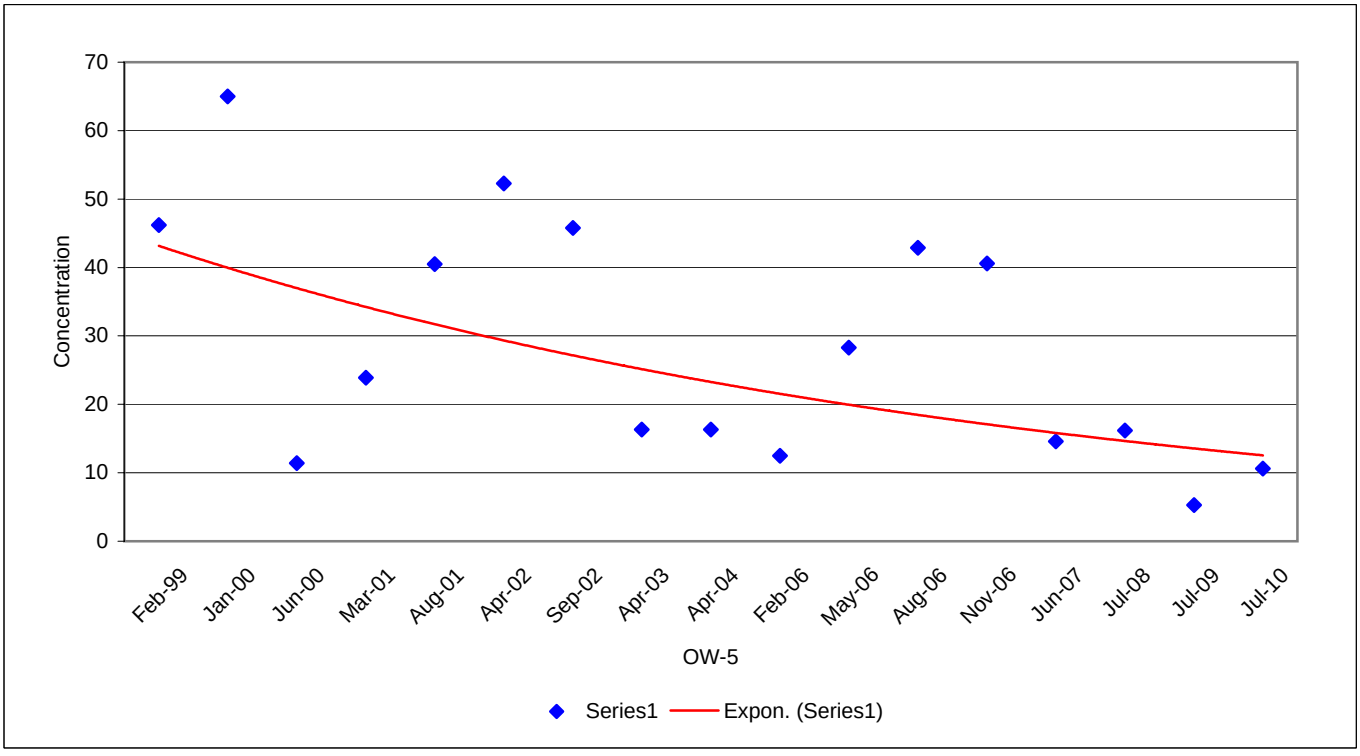
NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
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0	ECM						

FIGURE 3
VOLATILE ORGANIC COMPOUND EXCEEDANCES IN GROUNDWATER
JULY 2010

CADD FILE	9519	SCALE	AS NOTED	CURRENT DATE:	08–13–2010
DRAWING NO.	104-0012-0300-03 July10			REVISION	0

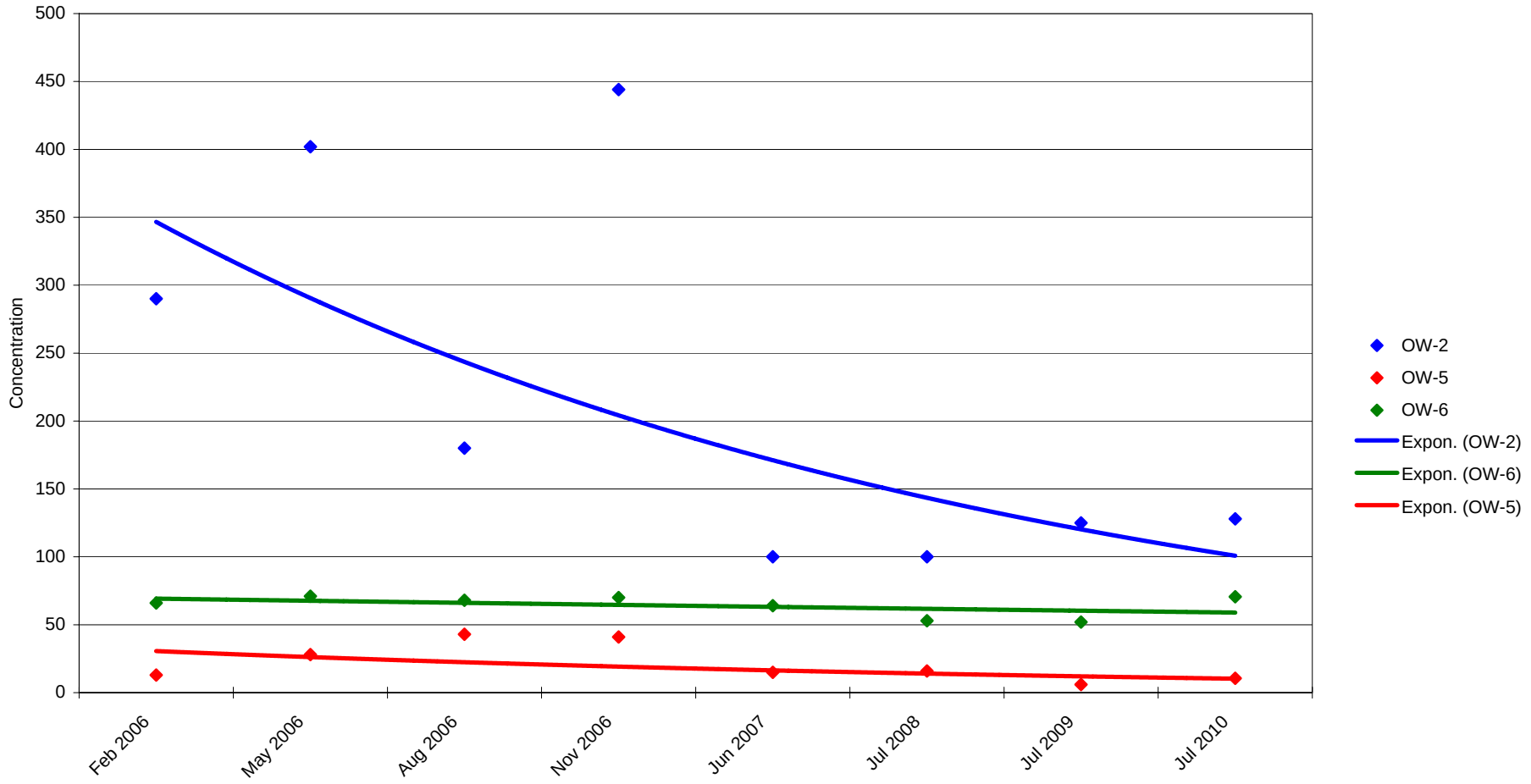
Figure 4
Chlorinated VOC[(1)] Trends in OW-5 and OW-13/13R
Pre-Excavation to July 2010





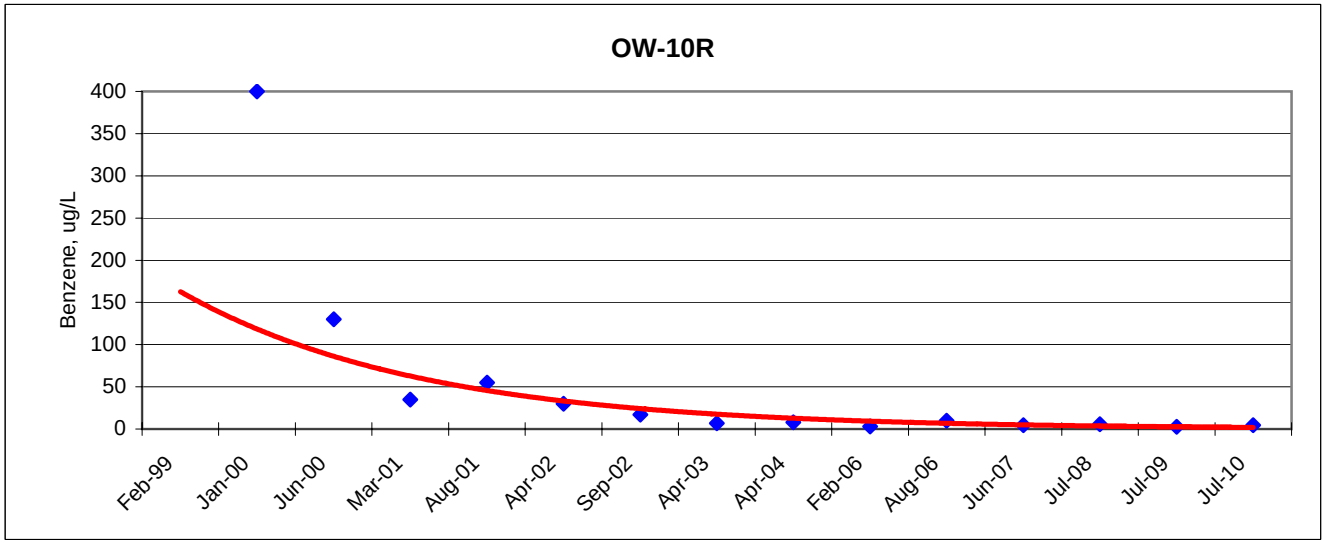
[(1)]Sum of 1,2-dichloroethene, trichloroethene, and tetrachloroethene.

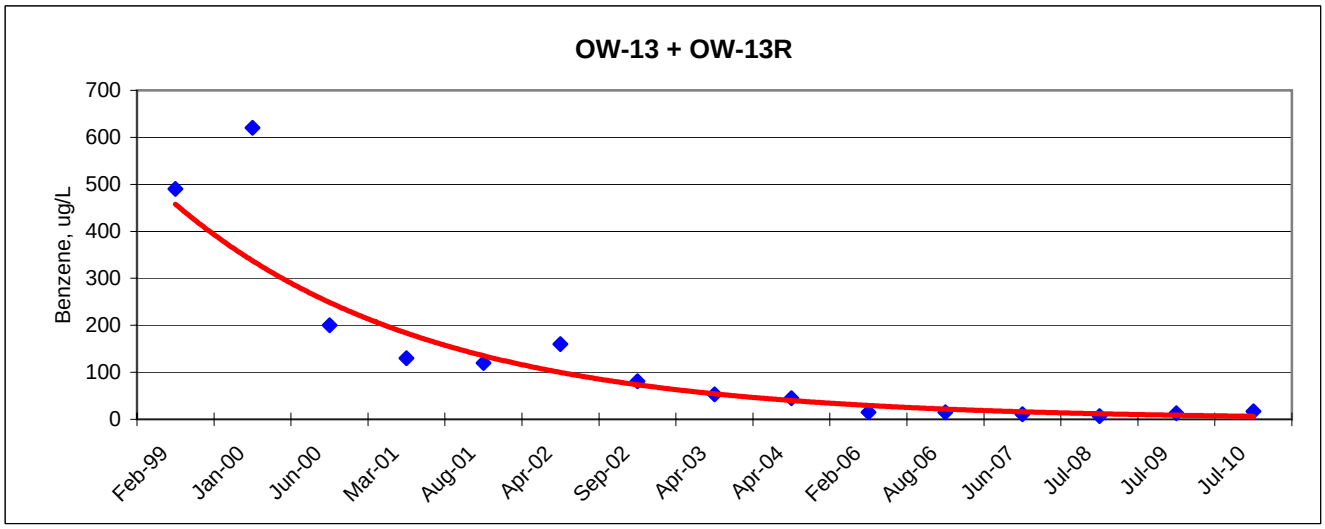
Figure 5
Chlorinated VOC[(1)] Trends in OW-2, OW-5, and OW-6
2006 - 2010

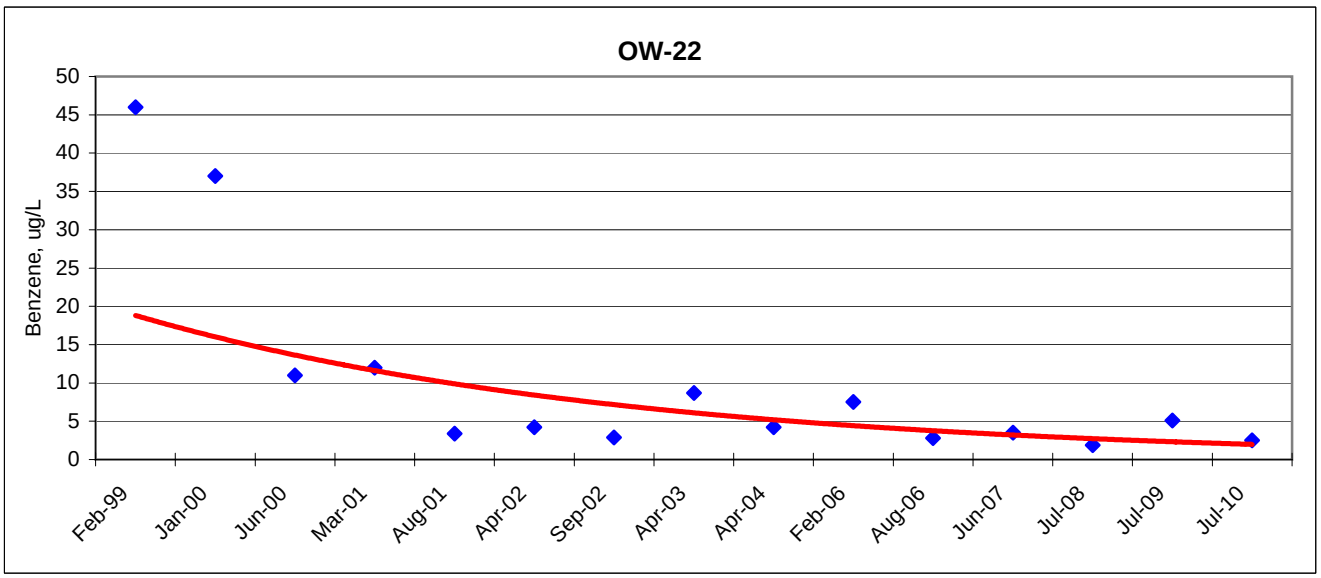


[(1)]Sum of 1,2-dichloroethene, trichloroethene, and tetrachloroethene.

Figure 6
Benzene Concentration Trends in Selected Monitoring Wells
Pre-Excavation to July 2010

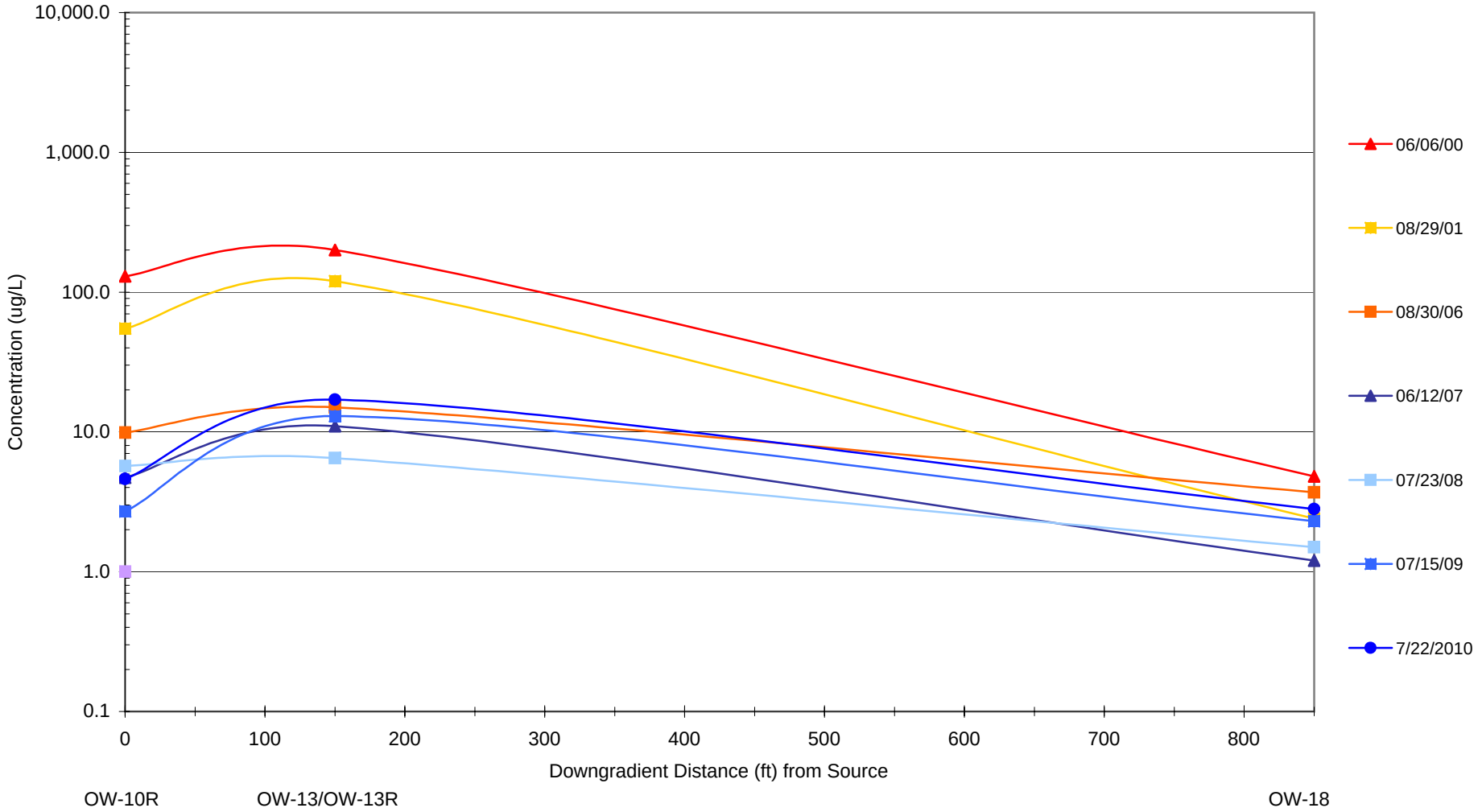






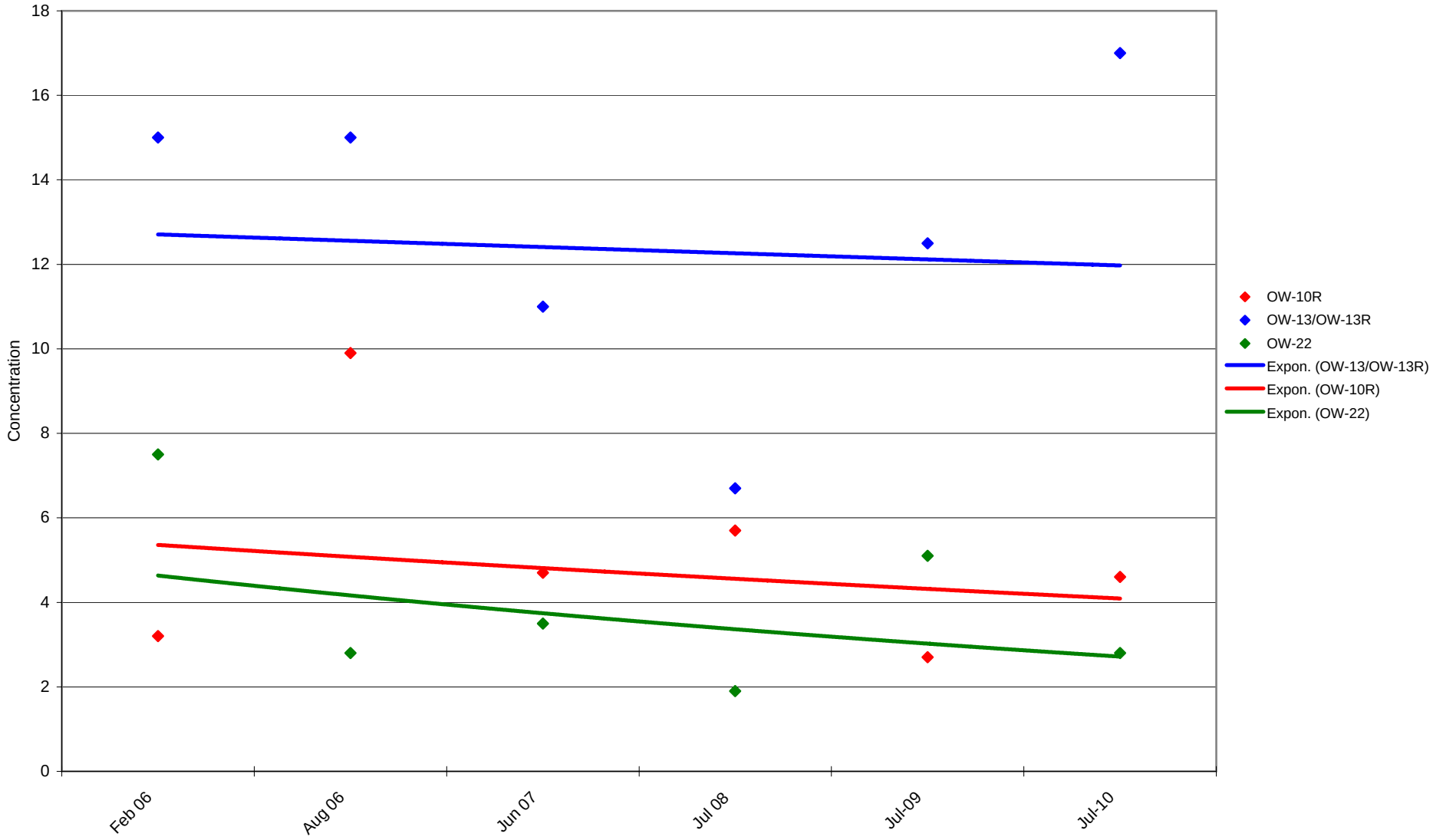
Note: OW-10R, OW-13R, and OW-22 were not sampled during the May and November 2006 sampling rounds.

Figure 7
Benzene Concentration Trends Based on Distance from Source



Note: OW-10R, OW-13R, and OW-18 were not sampled in the May and November 2006 sampling rounds.

Figure 8
Benzene Trends in OW-10R, OW-13R, and OW-22
2006 - 2010



LEGEND:

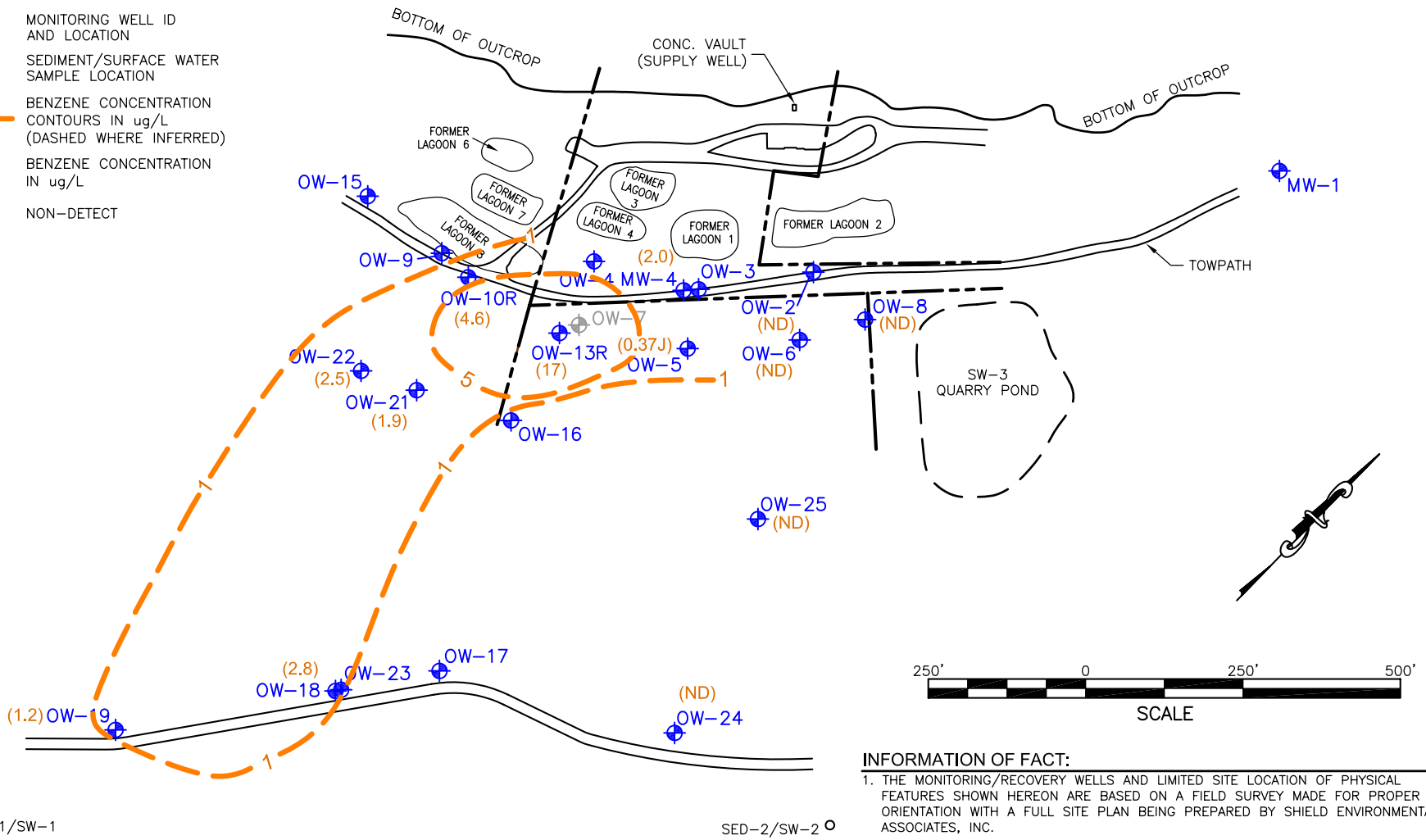
OW–21 — MONITORING WELL ID AND LOCATION

SED–2/SW–2 — SEDIMENT/SURFACE WATER SAMPLE LOCATION

5 — BENZENE CONCENTRATION CONTOURS IN ug/L (DASHED WHERE INFERRED)

(1.9) — BENZENE CONCENTRATION IN ug/L

(ND) — NON–DETECT



INFORMATION OF FACT:

1. THE MONITORING/RECOVERY WELLS AND LIMITED SITE LOCATION OF PHYSICAL FEATURES SHOWN HEREON ARE BASED ON A FIELD SURVEY MADE FOR PROPER ORIENTATION WITH A FULL SITE PLAN BEING PREPARED BY SHIELD ENVIRONMENTAL ASSOCIATES, INC.

2. THE HORIZONTAL POSITION OF THE HEREIN SURVEYED "CARROLL AND DUBIES" SUPERFUND SITE IS BASED ON NEW YORK GEODETIC CONTROL MONUMENTS PID # LY2611 (LAUREL) AND PID # AB3870 (DIANNE).

   ADJUSTED TO NAD 1983 WITHIN THE NEW YORK STATE PLANE COORDINATE SYSTEM.

NOTE: THE OUTLINES OF THE FORMER LAGOONS ARE BASED ON THE ACTUAL EXCAVATION.

SOURCE: MASER CONSULTING P.A. MONITORING WELL LOCATION PLAN. INDEXN). SUOOQ9, MARCH 3, 1999.

CARDINAL RESOURCES

CARROLL AND DUBIES SUPERFUND SITE
TOWN OF DEERPARK, ORANGE COUNTY, NEW YORK
104-0012

NO	DRWN	DATE	REVISION	CHKD	DATE	APPVD	DATE
1							
0	ECM						

FIGURE 9
BENZENE CONCENTRATIONS IN GROUNDWATER
JULY 2010

CADD FILE	9527	SCALE	AS NOTED	CURRENT DATE:	09–17–2010
DRAWING NO.	104-0012-0300-09 July10			REVISION	0

Appendix A
Laboratory Reports with Marked Form Is from Data Review

Appendix B
Historic Groundwater, Surface Water, and Sediment Results

Table B-1
Historical Summary of Detected TCL Volatile Organic Compounds in Groundwater (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	Ethylbenzene	2-Hexanone	Methylene Chloride	1,1,2,2-PCA	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Xylenes (total)
NYSDEC SGV		50 (G)	1 (S)	NA	5 (S)	5 (S)*	5 (S)*	7 (S)	1	5 (S)*	0.6 (S)	5 (S)*	5 (S)*	5 (S)*	50 (G)	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	2 (S)	5 (S)*
U.S. EPA MCL		NA	5	NA	5	100	NA	NA	5	NA	5	7	70	700	NA	5	NA	5	100	1,000	5	2	10,000
Well ID	Date																						
MW-1	03/22/93	NR	**0.9 J**	NR	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NR	<0.1 B	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	09/26/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/20/95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/18/99	<10	**0.66 J**	<1.0	<1.0	**0.40 J**	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	01/05/00	<10	**0.65 J,B**	<1.0	<1.0	**0.37 J**	<2.0	**0.083 J**	<2.0	<1.0	<1.0	**0.22 J**	<1.0	**0.14 J**	<10	**0.35 J,B**	<1.0	<1.0	-	**0.097 J**	<1.0	<2.0	<1.0
	06/06/00	<10	**0.57 J**	<1.0	<1.0	**0.30 J**	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	03/15/01	10 UJ	**0.40 J**	<1.0	<1.0	**0.38 J**	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	08/29/01	<10	<1.0	<1.0	<1.0	**0.32 J**	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/25/02	10 U	<1.0	<1.0	<1.0	**0.17 J**	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	1.0 U	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	09/18/02	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/09/03	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/25/04	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	**0.24 J**	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	**1.0**
	02/15/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	2.0 U	1.0 U
	08/30/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	06/13/07	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/24/08	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/14/09	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/21/10	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
MW-4	03/24/93	NR	**18 J**	NR	<0.5	**0.4 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.3 J**	<0.5	NR	<4.1 B,J	<0.5	<0.5	-	**0.1 J**	<0.5	<0.5	<0.5
	09/26/94	<10	**11**	<10	<1.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/24/95	<10	**15**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/18/99	<10	**5.7**	<1.0	<1.0	**0.20 J**	<2.0	<1.0	<2.0	<1.0	<0.1	<1.0	**9.8**	<1.0	<10	<1.0	<1.0	**0.16 J**	-	**0.16 J**	**0.20 J**	<2.0	<1.0
	01/05/00	<10	**6.9 B**	<1.0	<1.0	**0.26 J**	<2.0	<1.0	<2.0	**0.13 J**	<1.0	**0.45 J**	**3.3**	<1.0	<10	**0.11 J,B**	<1.0	<1.0	-	**0.090 J**	**0.15 J**	**0.30 J**	<1.0
	06/06/00	<10	**4.8**	<1.0	<1.0	**0.20 J**	<2.0	<1.0	<2.0	**0.11 J**	<1.0	<1.0	**3.8**	<1.0	<10	<1.0	<1.0	**0.30 J**	-	<1.0	<1.0	**0.18 J**	<1.0
	03/14/01	<10	**3.6**	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	**3.2**	<1.0	<10	<1.0	<1.0	**0.66 J**	-	<1.0	**0.42 J**	<2.0	<1.0
	08/29/01	<10	**12**	<1.0	<1.0	**0.21 J**	<2.0	<1.0	**0.26 J**	<1.0	<1.0	<1.0	**1.5**	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/25/02	<10	**10**	<1.0	<1.0	**0.21 J**	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<10	1.0 U	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	09/18/02	<10	**7.8**	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	**1.0**	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/09/03	<10	**2.2**	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	**0.84 J**	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/26/04	10 U	**2.5**	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	**0.50 J**	<1.0	<10	<1.0	<1.0	**0.72 J**	-	<1.0	<1.0	<2.0	<1.0
	02/15/06	10 U	**3.8**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**0.53 J**	1.0 U	10 U	1.0 U	1.0 U	**0.33 J**	-	1.0 U	1.0 U	2.0 U	1.0 U
	08/29/06	10 U	**9.1**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	06/13/07	10 U	**7.1**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 UJ	1.0 U	**0.26 J**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/24/08	10 U	**4.4**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.48 J**	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.28 J**	2.0 U	1.0 U
	07/16/09	10 U	**1.2**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	**0.34 J**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/20/10	10 U	**2.0**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U

Table B-1
Historical Summary of Detected TCL Volatile Organic Compounds in Groundwater (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	Ethylbenzene	2-Hexanone	Methylene Chloride	1,1,2,2-PCA	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Xylenes (total)
NYSDEC SGV		50 (G)	1 (S)	NA	5 (S)	5 (S)*	5 (S)*	7 (S)	1	5 (S)*	0.6 (S)	5 (S)*	5 (S)*	5 (S)*	50 (G)	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	2 (S)	5 (S)*
U.S. EPA MCL		NA	5	NA	5	100	NA	NA	5	NA	5	7	70	700	NA	5	NA	5	100	1,000	5	2	10,000
Well ID	Date																						
OW-2	03/23/93	NR	<0.5	NR	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	55	<0.5	NR	<1.3 B	<0.5	50	-	<0.5	22	<0.5	<0.5
	09/23/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	130	<10	NR	<10	<10	100	-	<10	24	<10	<10
	04/23/95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	85	<10	<10	<10	<10	76	-	<10	22	<10	<10
	02/17/99	<50	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	130	<5.0	<50	3.6 J,B	<5.0	86	-	<5.0	22	<10	<5.0
	01/05/00	<10	0.46 J	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	150	<5.0	<50	<5.0	<5.0	80	-	<5.0	21	0.72 J	<5.0
	06/06/00	<33	<3.3	<3.3	<3.3	<3.3	<6.7	<3.3	<6.7	<3.3	<3.3	<3.3	99	<3.3	<33	<3.3	<3.3	80	-	<3.3	19	<6.7	<3.3
	03/15/01	<100	<10	<10	<10	<10	<20	<10	<20	<10	<10	<10	310	<10	<100	4.6 J	<10	160	-	<10	32	<20	<10
	08/29/01	<25	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<5.0	<2.5	<2.5	<2.5	69	<2.5	<25	<2.5	<2.5	61	-	<2.5	15	<5.0	<2.5
	04/25/02	<25	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<5.0	<2.5	<2.5	<2.5	81	<2.5	<25	1.2 U	<2.5	60	-	<2.5	18	0.95 J	<2.5
	09/18/02	<29	<2.9	<2.9	<2.9	<2.9	<5.7	<2.9	<5.7	<2.9	<2.9	<2.9	85	<2.9	<29	<2.9	<2.9	68	-	<2.9	18	<5.7	<2.9
	04/09/03	<120	<12	<12	<12	<12	<25	<12	<25	<12	<12	<12	290	<12	<120	<12	<12	160	-	<12	29	<25	<12
	04/26/04	10 U	1.5 J	<6.7	<6.7	<6.7	<13	<6.7	<13	<6.7	<6.7	<6.7	170	<6.7	<67	<6.7	<6.7	110	-	1.3 J	22	<13	<6.7
	02/15/06	40 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U	4.0 U	8.0 U	4.0 U	4.0 U	4.0 U	150	4.0 U	40 U	4.0 U	4.0 U	120	-	4.0 U	20	8.0 U	4.0 U
	05/23/06	80 U	8.0 U	8.0 U	8.0 U	8.0 U	16 U	8.0 U	16 U	8.0 U	8.0 U	8.0 U	250	8.0 U	80 U	8.0 U	8.0 U	130	8.0 U	8.0 U	22	16 U	8.0 U
	08/30/06	25 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	74	2.5 U	25 U	2.5 U	2.5 U	90	2.5 U	2.5 U	16	5.0 U	2.5 U
	11/29/06	120 U	12 U	12 U	12 U	12 U	25 U	12 U	25 U	12 U	12 U	12 U	280	12 U	120 U	12 U	12 U	140	12 U	12 U	24	25 U	12 U
	06/13/07	20 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	36	2.0 U	20 U	2.0 UJ	2.0 U	52	2.0 U	2.0 U	12	4.0 U	2.0 U
	07/24/08	20 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	30	0.96 J	20 U	2.0 U	2.0 U	59	2.0 U	2.0 U	11	4.0 U	1.1 J
	07/16/09	25 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	53	2.5 U	25 U	2.5 U	2.5 U	62	2.5 U	2.5 U	9.7	5.0 U	2.5 U
	07/21/10	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	39	1.0 U	10 U	1.0 U	1.0 U	77	1.0 U	1.0 U	12	2.0 U	1.0 U
OW-5	03/23/93	NR	<3.0 J	NR	<0.5	0.1 J	<0.5	<0.5	<1.3	<0.5	<0.6	<0.5	8.0 R	<0.5	NR	<3.8	<0.6	1.0	-	<0.5	<1.3	1.8	<0.6
	09/29/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/25/95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	7 J	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/18/99	<17	0.67 J	<1.7	<1.7	0.20 J	<3.3	<1.7	<3.3	<1.7	<1.0	<1.7	33	<1.7	<17	1.3 J,B	<1.0	7.8	-	<1.7	5.4	<3.3	<1.7
	01/06/00	1.3 J	0.66 J	<1.0	<1.0	0.29 J	<2.0	<1.0	<2.0	<1.0	<1.0	0.20 J	38	<1.0	<10	0.25 J,B	<1.0	18	-	0.041 J	9.0	0.26 J	<1.0
	06/07/00	<10	0.91 J	<1.0	<1.0	0.19 J	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	7.3	<1.0	<10	<1.0	<1.0	2.4	-	<1.0	1.7	<2.0	<1.0
	03/14/01	<10	0.46 J	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	14	<1.0	<10	<1.0	<1.0	6.2	-	<1.0	3.7	<2.0	<1.0
	08/29/01	<12	<1.2	<1.2	<1.2	0.21 J	<2.5	<1.2	<2.5	<1.2	<1.2	<1.2	29	<1.2	<12	<1.2	<1.2	7.0	-	<1.2	4.5	<2.5	<1.2
	04/24/02	14 U	0.35 J	<1.4	<1.4	0.20 J	<2.9	<1.4	<2.9	<1.4	<1.4	<1.4	37	<1.4	<14	1.4 U	<1.4	10	-	<1.4	5.3	<2.9	<1.4
	09/19/02	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	31	<1.0	<10	<1.0	<1.0	9.5	-	<1.0	5.3	<2.0	<1.0
	04/10/03	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	7.8	<1.0	<10	<1.0	<1.0	5.5	-	<1.0	3	<2.0	<1.0
	04/25/04	<10	0.38 J	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	8.6	<1.0	<10	<1.0	<1.0	5.2	-	<1.0	2.5	<2.0	<1.0
	02/16/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	6.2	1.0 U	10 U	1.0 U	1.0 U	4.3	-	1.0 U	2.0	2.0 U	1.0 U
	05/23/06	10 U	0.69 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	20	1.0 U	10 U	1.0 U	1.0 U	5.7	1.0 U	1.0 U	2.6	0.27 J	1.0 U
	08/29/06	14 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	34	1.4 U	14 U	1.4 U	1.4 U	6.1	1.4 U	1.4 U	2.8 J	0.82 J	1.4 U
	11/29/06	10 U	0.26 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	30	1.0 U	10 U	1.0 U	1.0 U	7.1	1.0 U	1.0 U	3.5	2.0 U	1.0 U
	06/12/07	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	8.7	1.0 U	10 U	1.0 UJ	1.0 U	4.0	1.0 U	1.0 U	1.9	2.0 U	1.0 U
	07/23/08	1.0 U	0.53 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	10	1.0 U	1.0 U	1.0 U	1.0 U	4.4	1.0 U	1.0 U	1.8	0.28 J	1.0 U
	07/14/09	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	3.7	1.0 U	1.0 U	1.5	2.0 U	1.0 U
	07/21/10	10 U	0.37 J	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	4.8	1.0 U	10 U	1.0 U	1.0 U	4.2	1.0 U	1.0 U	1.6	2.0 U	1.0 U

Table B-1
Historical Summary of Detected TCL Volatile Organic Compounds in Groundwater (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	Ethylbenzene	2-Hexanone	Methylene Chloride	1,1,2,2-PCA	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Xylenes (total)
NYSDEC SGV		50 (G)	1 (S)	NA	5 (S)	5 (S)*	5 (S)*	7 (S)	1	5 (S)*	0.6 (S)	5 (S)*	5 (S)*	5 (S)*	50 (G)	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	2 (S)	5 (S)*
U.S. EPA MCL		NA	5	NA	5	100	NA	NA	5	NA	5	7	70	700	NA	5	NA	5	100	1,000	5	2	10,000
Well ID	Date																						
OW-6	03/23/93	NR	<1.3 J	NR	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.1 J	<1.3 J	<0.5	NR	<0.7 J,B	<0.5	13	-	<0.5	<2.9	1.1	<0.5
	09/27/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	4 J	<10	NR	<10	<10	17	-	<10	6.0 J	<10	<10
	04/23/95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	-	<10	5.0 J	<10	<10
	02/18/99	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	7.8	<1.0	<10	3.7 B	<1.0	20	-	<1.0	4.6	<2.0	<1.0
	01/06/00	1.4 J	0.19 J,B	0.58 J	<1.0	<1.0	<2.0	<1.0	0.17 J	<1.0	<1.0	0.28 J	5.1	<1.0	<10	0.26 J,B	<1.0	21	-	<1.0	4.6	<2.0	<1.0
	06/07/00	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.2	<1.0	<10	<1.0	<1.0	14	-	<1.0	2.6	<2.0	<1.0
	03/15/01	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.9	<1.0	<10	<1.0	<1.0	19	-	<1.0	3.9	<2.0	<1.0
	08/29/01	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.7	<1.0	<10	<1.0	<1.0	12	-	<1.0	2.3	<2.0	<1.0
	04/24/02	10 U	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	4.7	<1.0	<10	1.1 U	<1.0	12	-	<1.0	2.9	<2.0	<1.0
	09/19/02	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	7.8	<1.0	<10	<1.0	<1.0	15	-	<1.0	3.9	<2.0	<1.0
	04/09/03	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	21	<1.0	<10	0.34 J	<1.0	28	-	<1.0	6.8	<2.0	<1.0
	04/25/04	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	21	<1.0	<10	<1.0	<1.0	32	-	<1.0	6.3	<2.0	<1.0
	02/16/06	17 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	19	1.7 U	17 U	1.7 U	1.7 U	39	-	1.7 U	7.9	3.3 U	1.7 U
	05/23/06	17 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	24	1.7 U	17 U	1.7 U	1.7 U	39	1.7 U	1.7 U	7.8	3.3 U	1.7 U
	08/31/06	14 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	20	1.4 U	14 U	1.4 U	1.4 U	40	1.4 U	1.4 U	7.7	2.9 U	1.4 U
	11/29/06	17 U	1.7 U	1.7 U	1.7 U	1.7 U	3.3 U	1.7 U	3.3 U	1.7 U	1.7 U	1.7 U	20	1.7 U	17 U	0.75 J	1.7 U	41	1.7 U	1.7 U	8.6	3.3 U	1.7 U
	06/12/07	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	19	1.0 U	10 U	1.0 UJ	1.0 U	36	1.0 U	1.0 U	9.0	2.0 U	1.0 U
	07/23/08	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	16	1.0 U	10 U	1.0 U	1.0 U	31	1.0 U	1.0 U	6.3	2.0 U	1.0 U
	07/14/09	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	16	1.0 U	10 U	1.0 U	1.0 U	30	1.0 U	1.0 U	5.5	2.0 U	1.0 U
	07/21/10	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	20	1.0 U	10 U	1.0 U	1.0 U	42	1.0 U	1.0 U	8.6	2.0 U	1.0 U
OW-8	03/23/93	NR	<0.5	NR	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NR	<0.8 B	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	09/26/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/20/95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/18/99	<10	0.32 J	0.17 J	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<10	0.32 J	<1.0	0.17 J	-	<1.0	<1.0	<2.0	<1.0
	01/06/00	<10	0.49 J	<1.0	<1.0	0.37 J	<2.0	0.083 J	<2.0	<1.0	<1.0	0.22 J	<1.0	0.14 J	<10	0.35 J,B	<1.0	<1.0	-	0.097 J	<1.0	<2.0	<1.0
	06/07/00	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	03/15/01	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	08/29/01	<10	0.20 J	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/24/02	10 U	0.20 J	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	1.0 U	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	09/19/02	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/09/03	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/25/04	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	02/16/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	2.0 U	1.0 U
	08/31/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	06/12/07	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/23/08	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/14/09	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/20/10	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
OW-10	10/29/93	NR	37	NR	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	2.9 B	<1.0	<1.0	-	0.5 J	<1.0	<1.0	<1.0
	09/25/94	68	1,100	<10	<10	4 J	<10	<10	<10	<10	<10	<10	<10	9 J	NR	<10	<10	<10	-	8 J	<10	<10	53
	04/27/95	<50	2,600	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50	30 J
	02/16/99	<2,000	1,900	<200	<200	23 J	<400	<200	<400	<200	<200	<200	<200	<200	<2,000	100 J,B	<200	<200	-	25 J	<200	<400	<200

Table B-1
Historical Summary of Detected TCL Volatile Organic Compounds in Groundwater (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	Ethylbenzene	2-Hexanone	Methylene Chloride	1,1,2,2-PCA	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Xylenes (total)
NYSDEC SGV		50 (G)	1 (S)	NA	5 (S)	5 (S)*	5 (S)*	7 (S)	1	5 (S)*	0.6 (S)	5 (S)*	5 (S)*	5 (S)*	50 (G)	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	2 (S)	5 (S)*
U.S. EPA MCL		NA	5	NA	5	100	NA	NA	5	NA	5	7	70	700	NA	5	NA	5	100	1,000	5	2	10,000
Well ID	Date																						
OW-10R	01/07/00	610	400	<17	<17	3.6 J,B	<33	<17	<33	<17	<17	<17	<17	4.3 J	<170	<17	<17	<17	-	8.5 J	<17	10 J	6.2 J
	06/06/00	<50	130 J	<5.0	<5.0	3.0 J	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	2.2 J	<50	<5.0	<5.0	<5.0	-	0.52 J	<5.0	2.2 J	<5.0
	03/14/01	<10	35	<1.0	<1.0	3.6	0.80 J	<1.0	<2.0	<1.0	<1.0	<1.0	1.0	0.89 J	<10	<1.0	<1.0	<1.0	-	0.44 J	<1.0	2.4	<1.0
	08/29/01	<20	55	<2.0	<2.0	1.4 J	1.1 J	<2.0	<4.0	<2.0	<2.0	<1.0	3.5	<1.0	<20	<1.0	<2.0	<2.0	-	<1.0	<2.0	9.5	<2.0
	04/25/02	<10	30	<1.0	<1.0	4.0	2.8	<1.0	<2.0	<1.0	<1.0	<1.0	2.7	2.0 U	<10	1.2 U	<1.0	<1.0	-	1.0 U	<1.0	4.5	1.0 U
	09/19/02	<10	17	<1.0	<1.0	2.9	1.3 J	<1.0	<2.0	<1.0	<1.0	<1.0	1.5	0.91 J	<10	<1.0	<1.0	<1.0	-	0.39 J	<1.0	6.3	<1.0
	04/09/03	<10	6.8	<1.0	<1.0	3.1	0.54 J	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	0.43 J	<1.0	<1.0	-	<1.0	<1.0	0.72 J	<1.0
	04/26/04	<10	8.1	<1.0	<1.0	2.2	0.80 J	<1.0	<2.0	<1.0	<1.0	<1.0	0.57 J	0.22 J	<10	1.0 U	<1.0	<1.0	-	0.27 J	<1.0	0.99 J	<1.0
	02/15/06	10 U	3.2	1.0 U	1.0 U	1.4	0.52 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.47 J	1.3 U
	08/29/06	10 U	9.9	1.0 U	1.0 U	1.4	0.92 J	1.0 U	0.20 J	1.0 U	1.0 U	1.0 U	0.59 J	0.25 J	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 J	1.0 U
	06/13/07	10 U	4.7	1.0 U	1.0 U	1.4	0.94 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.47 J	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.89 J	1.0 U
	07/22/08	10 U	5.7	1.0 U	1.0 U	0.71 J	0.48 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.80 J	1.0 U
	07/15/09	10 U	2.7	1.0 U	1.0 U	2.3	0.62 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 J	1.0 U
	07/20/10	10 U	4.6	1.0 U	1.0 U	0.88 J	0.87 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.39 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.66 J	1.0 U
OW-13	10/28/93	NR	230	NR	<1.0	<1.0	<1.0	<1.0	<1.0	0.4 J	<1.0	<1.0	12	0.2 J	NR	1.2 J,B	<1.0	<1.0	-	4.8	0.9 J	<1.0	0.8 J
	09/29/94	<10	40	<10	<10	<10	<10	<10	<10	<10	<10	<10	6 J	<10	NR	<10	<10	<10	-	<10	<10	9 J	<10
	04/25/95	<10	350	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10	<10	<10	<10	<10	-	<10	<10	34	<10
	02/16/99	<330	490	<33	<33	<33	<67	<33	<67	<33	<33	<33	52	<33	<330	18 J,B	<33	<33	-	7.6 J	<33	48 J	<33
	01/06/00	<200	620	<20	<20	<20	<40	3.5 J,B	<40	<20	<20	<20	56	2.3 J	<200	<20	<20	<20	-	2.7 J,B	1.3 J	58	<20
	06/07/00	<83	200	<8.3	<8.3	0.84 J	<17	<8.3	<17	<8.3	<8.3	<8.3	15	5.5 J	<83	<8.3	<8.3	<8.3	-	<8.3	<8.3	17	<8.3
	03/14/01	<50	130	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	15	4.0 J	<50	3.0 J	<5.0	<5.0	-	<5.0	<5.0	12	<5.0
	08/29/01	<62	120	<6.2	<6.2	<6.2	<12	<6.2	<12	<6.2	<6.2	<6.2	12	<6.2	<62	<6.2	<6.2	<6.2	-	<6.2	1.1 J	9.9 J	<6.2
	04/24/02	<56	160	<5.6	<5.6	<5.6	<11	<5.6	<11	<5.6	<5.6	<5.6	11	<5.6	<56	<5.6	<5.6	<5.6	-	5.6 U	1.2 J	9.9 J	<5.6
	09/19/02	<33	81	<3.3	<3.3	<3.3	<6.7	<3.3	<6.7	<3.3	<3.3	<3.3	8.5	1.8 J	24 J	<3.3	<3.3	<3.3	-	<3.3	<3.3	5.9 J	<3.3
	04/10/03	<25	53	<2.5	<2.5	<2.5	<5.0	<2.5	<5.0	<2.5	<2.5	<2.5	5.9	1.6 J	<25	<2.5	<2.5	<2.5	-	<2.5	<2.5	4.9 J	<2.5
	04/25/04	<17	45	<1.7	<1.7	0.38 J	<3.3	<1.7	<3.3	<1.7	<1.7	<1.7	4.9	1.0 J	<17	<1.7	<1.7	<1.7	-	0.31 J	0.67 J	3.2 J	<1.7
OW-13R	02/20/06	10 U	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.60 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	0.29 J	1.0 U	1.1 J	1.0 U
	08/29/06	10 U	15	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.40 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 J	1.0 U
	06/12/07	10 U	11	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.42 J	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.86 J	1.0 U
	07/22/08	10 U/10 U	6.5 J/6.8 J	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	2.0 U/2.0 U	1.0 U/1.0 U	2.0 U/2.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	10 U/10 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	0.70 J/0.70 J	1.0 U/1.0 U
	07/14/09	10 U/10 U	13/12	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	2.0 U/2.0 U	1.0 U/1.0 U	2.0 U/2.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	2.4/2.3	1.0 U/1.0 U	10 U/10 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	0.64 J/0.63 J	1.6 J/1.6 J	1.0 U/1.0 U
	07/21/10	10 UJ/10 UJ	17/17	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	2.0 U/2.0 U	1.0 U/1.0 U	2.0 UJ/2.0 UJ	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	0.70 J/0.78 J	1.0 U/1.0 U	10 U/10 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	1.0 U/1.0 U	0.35 J/0.35 J	1.2 J/1.2 J	1.0 U/1.0 U
OW-15	09/24/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/26/95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/16/99	<10	1.1	<1.0	<1.0	0.52 J	<2.0	<1.0	<2.0	0.25 J	<1.0	<1.0	0.38 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	1.5 J	<1.0
	01/07/00	1.3 J	1.0 B	0.92 J	<1.0	0.64 J	<2.0	<1.0	<2.0	0.31 J	<1.0	0.57 J	<1.0	<1.0	<10	0.35 J,B	0.15 J,B	<1.0	-	0.074 J	<1.0	1.4 J	<1.0
	06/06/00	<10	0.91 J	<1.0	<1.0	0.60 J	<2.0	<1.0	<2.0	0.28 J	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	1.0 J	<1.0
	03/14/01	<10	1.2	<1.0	<1.0	0.67 J	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	0.37 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	1.1 J	<1.0
	08/28/01	2.2 J,B	0.61 J	<1.0	<1.0	0.35 J	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.52 J	<1.0
	04/25/02	<10	0.99 J	<1.0	<1.0	0.47 J	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	1.0 U	<1.0	<1.0	-	<1.0	<1.0	0.91 J	<1.0
	09/18/02	<10	0.69 J	<1.0	<1.0	0.43 J	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/08/03	<10	1.2	<1.0	<1.0	0.67 J	<2.0	<1.0	<2.0	0.33 J	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0 J	<1.0
	04/23/04	<10	1.2	<1.0	<1.0	0.67 J	<2.0	<1.0	<2.0	0.29 J	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.90 J	<1.0
	02/15/06	10 U	0.88 J	1.0 U	1.0 U	0.53 J	2.0 U	1.0 U	2.0 U	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.73 J	1.3 U
	08/29/06	10 U	0.78 J	1.0 U	1.0 U	0.51 J	2.0 U	1.0 U	0.37 J	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 J	1.0 U

Table B-1
Historical Summary of Detected TCL Volatile Organic Compounds in Groundwater (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	Ethylbenzene	2-Hexanone	Methylene Chloride	1,1,2,2-PCA	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Xylenes (total)
NYSDEC SGV		50 (G)	1 (S)	NA	5 (S)	5 (S)*	5 (S)*	7 (S)	1	5 (S)*	0.6 (S)	5 (S)*	5 (S)*	5 (S)*	50 (G)	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	2 (S)	5 (S)*
U.S. EPA MCL		NA	5	NA	5	100	NA	NA	5	NA	5	7	70	700	NA	5	NA	5	100	1,000	5	2	10,000
Well ID	Date																						
OW-16	09/24/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/26/95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/17/99	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	01/06/00	1.4 J	0.082 J,B	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	0.61 J	<1.0	<1.0	<10	0.30 J,B	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	06/07/00	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	03/14/01	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	08/28/01	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	0.36 J	<1.0	<1.0	<10	0.80 J	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/24/02	10 U	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	1.9 U	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	09/19/02	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/10/03	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/25/04	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	02/17/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.37 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	2.0 U	1.0 U
	08/31/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.35 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
OW-17	02/20/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	2.0 U	1.0 U
	05/24/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	08/30/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	0.20 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	11/30/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
OW-18	09/23/94	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/29/95	<10	12	<10	<10	10 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	1 J	<10	<10	29
	02/17/99	<17	4.7	<1.7	<1.7	3.4	1.0 J	<1.7	<3.3	<1.7	<1.7	<1.7	0.54 J	<1.7	<17	1.0 J,B	<1.7	<1.7	-	<1.7	<1.7	<3.3	1.1 J
	01/07/00	2.7 J	5.6 B	1.0	<1.0	4.5	3.0	<1.0	<2.0	0.66 J	<1.0	0.29 J	<1.0	<1.0	<10	0.40 J,B	<1.0	<1.0	-	0.22 J	0.14 J	0.29 J	1.8
	06/08/00	<10	4.8	<1.0	<1.0	4.6	1.3 J	<1.0	<2.0	0.24 J	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	03/16/01	10 UJ	3.1	<1.0	<1.0	3.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	0.38 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	1.4
	08/28/01	2.3 J,B	2.4 J	<1.0	<1.0	3.6 J	<2.0	<1.0	<2.0	0.18 J	<1.0	<1.0	0.38 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	1.3 J
	04/24/02	10 U	1.5	<1.0	<1.0	4.3	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	0.28 J	<1.0	<10	1.6 U	<1.0	<1.0	-	1.0 U	<1.0	<2.0	1.7
	09/17/02	<10	2.9	<1.0	<1.0	5.5	1.3 J	<1.0	<2.0	0.36 J	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	2.0
	04/08/03	2.6 J	2.9	<1.0	<1.0	5.6	1.2 J	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	1.2
	04/23/04	10 U	3.3	<1.0	<1.0	7.3	0.74 J	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	1.2
	02/17/06	10 U	5.1	1.0 U	1.0 U	10	3.2	1.0 U	2.0 U	1.6	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	0.49 J	1.0 U	2.0 U	10
	08/30/06	10 U	3.7	1.0 U	1.0 U	7.8	0.91 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	06/14/07	10 U	1.2	1.0 U	1.0 U	6.5	0.46 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/22/08	10 U	1.5	1.0 U	1.0 U	6.9	0.40 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/16/09	10 U	2.3	1.0 U	1.0 U	9.6	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.34 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/22/10	1.6 J	2.8	1.0 U	1.0 U	11	0.41 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	0.63 J

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Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	Ethylbenzene	2-Hexanone	Methylene Chloride	1,1,2,2-PCA	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Xylenes (total)
NYSDEC SGV		50 (G)	1 (S)	NA	5 (S)	5 (S)*	5 (S)*	7 (S)	1	5 (S)*	0.6 (S)	5 (S)*	5 (S)*	5 (S)*	50 (G)	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	2 (S)	5 (S)*
U.S. EPA MCL		NA	5	NA	5	100	NA	NA	5	NA	5	7	70	700	NA	5	NA	5	100	1,000	5	2	10,000
Well ID	Date																						
OW-19	09/27/94	<10	10 J	<10	<10	5 J	15	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/28/95	<10	8 J	<10	<10	6 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/17/99	<10	5.8	<1.0	<1.0	7.1	6.1	<1.0	<2.0	0.27 J	<1.0	<1.0	3.3	<1.0	<10	0.16 J,B	<1.0	<1.0	-	0.16 J	0.14 J	10	<1.0
	01/05/00	0.94 J	3.7 B	<1.0	<1.0	10	2.7	<1.0	<2.0	0.16 J	0.27 J	<1.0	1.5	<1.0	<10	0.25 J,B	<1.0	<1.0	-	0.15 J	0.15 J	2.1	<1.0
	06/08/00	<10	2.3	<1.0	<1.0	5.2	1.9 J	<1.0	<2.0	<1.0	<1.0	<1.0	1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	03/16/01	10 UJ	1.7	<1.0	<1.0	3.8	1.4 J	<1.0	<2.0	<1.0	<1.0	<1.0	0.96 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	1.3 J	<1.0
	08/28/01	2.7 J,B	1.9 J	<1.0	<1.0	7.2 J	0.92 J	<1.0	<2.0	<1.0	<1.0	0.35 J	0.46 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/23/02	10 U	1.3	<1.0	<1.0	6.5	0.71 J	<1.0	<2.0	<1.0	<1.0	<1.0	0.43 J	<1.0	<10	1.0 U	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	09/17/02	<10	0.64 J	<1.0	<1.0	4.9	0.73 J	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	<1.0
	04/08/03	2.5 J	3	<1.0	<1.0	4.9	1.7 J	<1.0	<2.0	<1.0	<1.0	<1.0	0.81 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.68 J	<1.0
	04/24/04	10 U	2.1	<1.0	<1.0	6	1.3 J	<1.0	<2.0	<1.0	<1.0	<1.0	0.58 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.56 J	<1.0
	02/17/06	10 U	3.4	1.0 U	1.0 U	5.6	1.9 J	1.0 U	<2.0	1.0 U	1.0 U	1.0 U	1.3	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	2.9	1.0 U
	08/31/06	3.1 J	3.3	1.0 U	1.0 U	13	1.8 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.85 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.1	1.0 U
	06/14/07	10 U	2.1	1.0 U	1.0 U	8.8 J	1.3 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.73 J	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.87 J	1.0 U
	07/22/08	10 U	1.4	1.0 U	1.0 U	11	0.91 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	1.0 U
	07/15/09	10 U	1.9	1.0 U	1.0 U	7.9	1.0 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.94 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	1.0 U
	07/22/10	1.3 J	1.2	1.0 U	1.0 U	11	0.85 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.65 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.63 J	1.0 U
OW-21	09/22/94	6 J	5 J	<10	<10	<10	<10	10 J	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	<10
	04/29/95	<10	8 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	02/16/99	<10	5.8	<1.0	<1.0	0.11 J	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	0.26 J	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.89 J	<1.0
	01/04/00	<10	3.8 B	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	0.11 J	<1.0	<1.0	<1.0	<1.0	<10	0.10 J,B	<1.0	<1.0	-	0.055 J	<1.0	0.46 J	<1.0
	06/07/00	<10	5.4	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.54 J	<1.0
	03/13/01	10 UJ	4.5	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.70 J	<1.0
	08/30/01	10 U	3.2	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	0.38 J	<1.0	<1.0	-	<1.0	<1.0	0.25 J	<1.0
	04/25/02	<10	2.4	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	1.0 U	<1.0	<1.0	-	<1.0	<1.0	0.33 J	<1.0
	09/18/02	<10	2.5	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.39 J	<1.0
	04/09/03	<10	3.7	<1.0	<1.0	<1.0	<2.0	<1.0	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<10	0.51 J	<1.0	<1.0	-	<1.0	<1.0	0.88 J	<1.0
	04/24/04	<10	2.9	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	0.56 J	<1.0
	02/16/06	10 U	3.0	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.52 J	1.0 U
	08/29/06	10 U	2.4	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.83 J	1.0 U
	06/13/07	10 U	2.1	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.67 J	1.0 U
	07/23/08	10 U	1.8	1.0 U	1.0 U	1.0 U	<2.0	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	1.0 U
	07/15/09	10 U	2.1	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.80 J	1.0 U
	07/20/10	10 U	1.9	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.71 J	1.0 U

Table B-1
Historical Summary of Detected TCL Volatile Organic Compounds in Groundwater (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloroethane	Chloroform	Chloromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE (total)	Ethylbenzene	2-Hexanone	Methylene Chloride	1,1,2,2-PCA	PCE	Styrene	Toluene	TCE	Vinyl Chloride	Xylenes (total)
NYSDEC SGV		50 (G)	1 (S)	NA	5 (S)	5 (S)*	5 (S)*	7 (S)	1	5 (S)*	0.6 (S)	5 (S)*	5 (S)*	5 (S)*	50 (G)	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	5 (S)*	2 (S)	5 (S)*
U.S. EPA MCL		NA	5	NA	5	100	NA	NA	5	NA	5	7	70	700	NA	5	NA	5	100	1,000	5	2	10,000
Well ID	Date																						
OW-22	09/24/94	<10	100	<10	<10	9 J	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	-	<10	<10	<10	5 J
	04/28/95	<10	48	<10	<10	10 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	1 J	<10	<10	<10
	02/17/99	<25	46	<2.5	<2.5	8.0	<5.0	<2.5	<5.0	<2.5	<2.5	<2.5	2.4 J	<2.5	<25	1.1 J,B	<2.5	<2.5	-	0.87 J	<2.5	4.2 J	3.5
	01/04/00	1.5 J	37 B	0.41 J	<1.2	5.8	<2.5	<1.2	<2.5	0.21 J	<1.2	<1.2	<1.2	0.098 J	<12	0.23 J,B	<1.2	<1.2	-	0.58 J	0.073 J	1.5 J	1.7
	06/07/00	<10	11	<1.0	<1.0	5.8	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	1.4
	03/13/01	10 UJ	12	<1.0	<1.0	8.2	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	0.70 J	<1.0	<10	<1.0	<1.0	<1.0	-	0.56 J	<1.0	0.76 J	1.9
	08/30/01	10 U	3.4	<1.0	<1.0	4.6	<2.0	0.34 J	<2.0	<1.0	<1.0	<1.0	0.36 J	<1.0	<10	0.36 J	<1.0	<1.0	-	0.45 J	<1.0	<2.0	1.7
	04/25/02	<10	4.2	<1.0	<1.0	3.7	<2.0	<1.0	<2.0	<1.0	0.29 J	<1.0	<1.0	<1.0	<10	1.2 U	<1.0	<1.0	-	1.0 U	<1.0	0.39 J	2.7 U
	09/18/02	<10	2.9	<1.0	<1.0	4.2	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	<1.0	<1.0	<2.0	1.8
	04/09/03	<10	8.7	<1.0	<1.0	8.5	0.66 J	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	0.40 J,B	<1.0	<1.0	-	<1.0	<1.0	0.56 J	1.6
	04/24/04	10 U	4.2	<1.0	<1.0	5.9	0.24 J	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	-	0.23 J	<1.0	0.32 J	1.1
	02/16/06	10 U	7.5	1.0 U	1.0 U	11	0.31 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U	<10	0.59 J	1.0 U	1.0 U	-	0.26 J	1.0 U	0.29 J	1.0
	08/31/06	10 U	2.8	1.0 U	1.0 U	5.3	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.37 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	1.0 U	0.41 J	1.1
	06/14/07	10 U	3.5	1.0 U	1.0 U	4.8	0.26 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.50 J	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U	0.37 J	0.76 J
	07/23/08	10 U	1.9	1.0 U	1.0 U	4.6	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	0.32 J	0.66 J
	07/15/09	10 U	5.1	1.0 U	1.0 U	7.8	0.34 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.53 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 J	1.0 U	0.35 J	1.0 U
	07/20/10	10 U	2.5	1.0 U	1.0 U	4.5	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.38 J	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	0.64 J
OW-23	02/17/06	10 U	0.38 J	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.66 J	1.0 U
	05/23/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	0.39 J	1.0 U
	08/30/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42 J	1.0 U
	11/30/06	10 U	0.23 J	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	1.0 U	0.51 J	1.0 U
OW-24	02/20/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	0.22 J	1.0 U	2.0 U	<1.0
	05/24/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U	1.0 U	2.0 U	1.0 U
	08/30/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	11/29/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	3.6 U	1.0 U	1.0 U	1.0 U	0.18 J	1.0 U	2.0 U	1.0 U
	07/22/10	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	0.47 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	3.6 U	1.0 U	1.0 U	1.0 U	0.18 J	1.0 U	2.0 U	1.0 U
OW-25	02/20/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	-	0.17 J	1.0 U	1.0 U	1.0 U
	05/23/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	08/31/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	11/29/06	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	06/12/07	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/23/08	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/16/09	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U
	07/22/10	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U

Notes:

TCL = Target Compound List
NYSDEC SGV = New York State Department of Environmental Conservation Standards (S) and Guidance (G) Values for groundwater
U.S. EPA MCL= United States Environmental Protection Agency Maximum Contaminant Level for drinking/groundwater
* = The principal organic contaminant (POC) standard for groundwater of 5 ug/L applies to this substance.
U (DATA VALIDATION QUALIFIER) = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
< = Analyte not detected at reporting limit
B = Method blank contamination. The associated method blank contains the target analyte at a reportable level.
Red = **Concentrations detected at or above regulatory limit**
Blue = **Analyte detected at less than regulatory limit, or analyte detected but no regulatory criteria specified**
UJ = (DATA VALIDATION QUALIFIER) = Analyte not detected above the reporting limit; however, the reporting limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Pre-1999 data from RETEC 1995
Pre-1999 analysis performed by Method 8240
1999 and later analyses performed by Method 8260B
NA = Not applicable; no criteria specified
NR = Analyte not reported
R = Data rejected during validation
J = Estimated result; result is less than reporting limit.

Table B-2
Historical Summary of Detected TCL Volatile and Semivolatile Organic Compounds in Surface Water (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	2-Butanone	Chloroethane	1,2-Dichloro-ethane	1,2-Dichloro-ethene (total)	Methylene Chloride	Toluene	Vinyl Chloride	Di-n-butyl phthalate
NYSDEC SGV		**50 (G)**	**1 (S)**	**NE**	**5 (S)***	**0.6 (S)**	**5 (S)***	**5 (S)***	**5 (S)***	**2 (S)**	**50 (S)**
U.S. EPA MCL		**NE**	**5**	**NE**	**NE**	**5**	**70**	**5**	**1,000**	**2**	**NE**
Sample ID	**Date**	***VOCs***									***SVOCs***
SW-1 (Down-stream)	02/18/99	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
	01/04/00	10 U	**0.19 J,B**	10 U	**0.85 J**	1.0 U	1.0 U	**0.15 J,B**	1.0 U	**0.99 J**	10 U
	06/08/00	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
	03/15/01	10 U	1.0 U	10 U	**0.97 J**	**0.61 J**	**0.39 J**	1.0 U	1.0 U	**0.52 J**	10 U
	08/28/01	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
	04/23/02	10 U	1.0 U	**0.60 J**	2.0 U	1.0 U	1.0 U	1.5 U	1.0 U	2.0 U	NA
	09/17/02	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	NA
	04/08/03	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	NA
	04/23/04	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	NA
SW-1 / Duplicate	02/18/06	10 U / 21 U	1.0 U / 1.0 U	10 U / 10 U	**0.37 J** / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	**0.34 J** / **0.29 J**	NA / NA
	06/14/07	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	NA / NA
	07/24/08	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	NA / NA
	07/15/09	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	NA / NA
	07/22/10	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	NA / NA
SW-2 (Upstream)	02/18/99	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
	01/04/00	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
	06/08/00	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
	03/15/01	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	10 U
	02/18/06	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.53 J**	NA
	06/14/07	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	**0.21 J**	1.0 U	2.0 U	NA
	07/24/08	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	NA
	07/15/09	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	NA
	07/22/10	10 U	1.0 U	10 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	NA

Table B-2
Historical Summary of Detected TCL Volatile and Semivolatile Organic Compounds in Surface Water (ug/L)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	2-Butanone	Chloroethane	1,2-Dichloro-ethane	1,2-Dichloro-ethene (total)	Methylene Chloride	Toluene	Vinyl Chloride	Di-n-butyl phthalate
NYSDEC SGV		**50 (G)**	**1 (S)**	**NE**	**5 (S)***	**0.6 (S)**	**5 (S)***	**5 (S)***	**5 (S)***	**2 (S)**	**50 (S)**
U.S. EPA MCL		**NE**	**5**	**NE**	**NE**	**5**	**70**	**5**	**1,000**	**2**	**NE**
Sample ID	**Date**	***VOCs***									***SVOCs***
SW-2 / Duplicate	08/28/01	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	10 U
	04/23/02	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.2 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	**0.77 J** / 10 U
	04/23/03	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	NA
	04/23/04	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	NA
	04/23/05	10 U / 10 U	1.0 U / 1.0 U	10 U / 10 U	2.0 U / 2.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	1.0 U / 1.0 U	2.0 U / 2.0 U	NA

Notes:
TCL = Target Compound List
NE = Not established; no criteria specified.
NA = Not analyzed
NYSDEC SGV = New York State Department of Environmental Conservation Standards (S) and Guidance (G) values for groundwater.
* = The principal organic contaminant (POC) standard for groundwater of 5 ug/L applies to this substance.
U.S. EPA MCL = United States Environmental Protection Agency Maximum Contaminant Level for drinking/groundwater.
J = Estimated result; result is less than reporting limit.
B = Method blank contamination. The associated method blank contains the target analyte at a reportable level.
U (DATA VALIDATION QUALIFIER) = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
Blue = **Analyte detected at less than regulatory limit, or analyte detected but no regulatory criteria specified.**
Red = **Analyte detected at or above SGV or MCL.**

Table B-3
Historical Summary of Detected TCL Volatile and Semivolatile Organic Compounds in Sediment (ug/kg)
Carroll and Dubies Superfund Site
Town of Deerpark, Orange County, New York

Analyte		Acetone	Benzene	2-Butanone	Carbon Disulfide	Chlorobenzene	Chloroform	1,2-Dichloroethane	1,2-Dichloroethene (total)	Methylene Chloride	Toluene	Trichloroethene	Vinyl Chloride	bis(2-Ethylhexyl)phthalate	Di-n-butylphthalate	4-Methylphenol
Sample ID	**Date**	***VOCs***												***SVOCs***		
SED 1 (Downstream)	09/27/94	58	ND	20 U	NA	ND	ND	ND	ND	ND	ND	ND	20 U	ND	190 J,B	ND
	02/18/99	28 U	6.9 U	28 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	14 U	450 U	77 J	450 U
	01/04/00	370	31 U	82 J	31 U	31 U	31 U	31 U	31 U	31 U	31 U	31 U	6.9 J	2,000 UJ / 1,400 UJ	2,000 UJ / 1,400 UJ	2,000 UJ / 1,400 UJ
	06/08/00	60 JB	13 U	17 J	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	27 U	590 J	880 U	880 U
	03/15/01	55 J	16 U	62 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	31 U	1,000 U	1,000 U	1,000 U
	08/28/01	27 J	2.1 J	9.4 J	12 U	12 U	12 U	12 U	4.6 J	12 U	1.3 J	12 U	24 U	790 U	790 U	790 U
	04/23/02	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	09/17/02	180 BJ	2.7 J	58 J	3.5 J	17 U	17 U	17 U	2.1 J	17 U	54 J	17 U	34 UJ	NA	NA	NA
	04/08/03	110 J	3.4 J	34 J	21 UJ	21 U	21 U	21 U	5.7 J	21 U	21 U	21 U	3.0 J	NA	NA	NA
	04/23/04	28 J,FB,TB	10 U	7.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	NA	NA	NA
SED-1 / Duplicate	02/18/06	460 U / 180 U	11 U / 9.1 U	130 U / 54 U	11 U / 9.1 U	11 U / 9.1 U	11 U / 9.1 U	11 U / 9.1 U	11 U / 9.1 U	11 U / 9.1 U	1.2 J / 0.95 J	1.9 J / 9.1 U	23 U / 18 U	NA	NA	NA
	06/14/07	60 J / 18 J	12 U / 12 U	18 J / 6.9 J	0.62 J / 0.76 J	12 U / 12 U	12 U / 12 U	12 U / 12 U	12 U / 12 U	12 U / 12 U	12 U / 12 U	12 U / 12 U	24 U / 24 U	NA / NA	NA / NA	NA / NA
	07/24/08	24 U / 26 U	6.1 U / 6.5 U	2.9 J / 5.9 J	6.1 U / 6.5 U	6.1 U / 6.5 U	6.1 U / 6.5 U	6.1 U / 6.5 U	6.1 U / 6.5 U	6.1 U / 6.5 U	6.1 U / 6.5 U	6.1 U / 6.5 U	12 U / 13 U	NA / NA	NA / NA	NA / NA
	07/15/09	940 J / 300 J	13 J / 5.6 J	230 J / 96 J	17 J / 8.2 J	5.9 J / 3.2 J	25 U / 21 U	1.7 J / 21 U	12 J / 5.9 J	9.7 J / 21 U	3.1 J1.3 J	25 U / 21 U	8.7 J / 4.5 J	NA / NA	NA / NA	NA / NA
	07/22/10	45 J / 85 J	7.3 U / 15 U	29 U / 62 U	7.3 U / 15 U	7.3 U / 15 U	7.3 U / 15 U	7.3 U / 15 U	7.3 U / 15 U	7.9 J / 7.3 U	7.3 U / 15 U	7.3 U / 15 U	7.3 U / 15 U	NA / NA	NA / NA	NA / NA
SED-2 (Upstream)	09/27/97	76	ND	23 U	NA	ND	ND	ND	ND	ND	ND	ND	23 U	ND	220 J,B	ND
	02/18/99	140 JB	44 U	50 J	44 U	44 U	44 U	44 U	44 U	44 U	44 U	44 U	88 U	2,900 U	370 J	2,900 U
	02/18/06	110 U	16 U	65 U	1.8 J	16 U	16 U	16 U	16 U	16 U	2.1 J	16 U	32 U	NA	NA	NA
	06/14/07	76 J	15 U	18 J	1.2 J	15 U	15 U	15 U	15 U	15 U	5.5 J	15 U	30 U	NA	NA	NA
	07/24/08	78 UJ	10 U	19 J	10 U	10 U	10 U	10 U	10 U	10 U	0.90 J	10 U	20 U	NA	NA	NA
	07/15/09	110 UJ	28 UJ	110 UJ	28 UJ	28 UJ	1.6 J	28 UJ	28 UJ	8.6 J	34 J	28 UJ	56 UJ	NA	NA	NA
	07/22/10	89 J	16 U	65 U	16 UJ	16 U	16 U	16 U	16 U	18 J	16 UJ	16 U	16 U	NA	NA	NA
SED-2 / Duplicate	01/04/00	180 J / 190 U	55 U / 47 U	220 U / 190 U	55 U / 47 U	55 U / 47 U	55 U / 47 U	55 U / 47 U	55 U / 47 U	55 U / 47 U	55 U / 47 U	55 U / 47 U	110 U / 94 U	3,600 U / 3,100 U	3,600 U / 3,100 U	3,600 U / 3,100 U
	06/08/00	150 J / 160 U	46 U / 41 U	49 J / 160 U	46 U / 41 U	46 U / 41 U	46 U / 41 U	46 U / 41 U	46 U / 41 U	46 U / 41 U	13 J / 41 U	46 U / 41 U	91 U / 81 U	2,900 J / 1,500 J	3,000 U / 2,700 U	480 J,# / 2,700 U
	03/15/01	36 UJ / 69 UJ	17 UJ / 17 UJ	70 UJ / 69 UJ	17 U / 17 U	17 U / 17 U	17 U / 17 U	17 U / 17 U	17 UJ / 17 UJ	17 UJ / 17 UJ	17 UJ / 17 UJ	17 U / 17 U	35 UJ / 35 UJ	1,200 U / 1,100 U	1,200 U / 1,100 U	1,200 U / 1,100 U
	08/28/01	44 J / 22 J	16 U / 13 U	14 J / 7.6 J	16 U / 13 U	16 U / 13 U	16 U / 13 U	16 U / 13 U	16 U / 13 U	16 U / 13 U	16 U / 13 U	16 U / 13 U	32 U / 25 U	1,100 U / 830 U	1,100 U / 830 U	1,100 U / 830 U
	04/23/02	63 J / 85 UJ	30 UJ / 21 UJ	21 J / 85 UJ	30 UJ / 21 UJ	30 UJ / 21 UJ	30 UJ / 21 UJ	30 UJ / 21 UJ	30 UJ / 21 UJ	30 UJ / 21 UJ	30 UJ / 21 UJ	30 UJ / 21 UJ	59 UJ / 42 UJ	2,000 UJ / 1,400 UJ	2,000 UJ / 1,400 UJ	2,000 UJ / 1,400 UJ
	09/17/02	40 B / 29 JB	9.6 U / 9.3 U	17 J / 9.3 J	9.6 U / 9.3 U	9.6 U / 9.3 U	9.6 U / 9.3 U	9.6 U / 9.3 U	9.6 U / 9.3 U	9.6 U / 9.3 U	1.0 J / 0.91 J	9.6 U / 9.3 U	19 U / 19 U	NA	NA	NA
	04/08/03	79 J / 27 J	41 U / 44 U	21 J / 180 U	41 U / 44 U	41 U / 44 U	41 U / 44 U	41 U / 44 U	41 U / 44 U	41 U / 44 U	41 U / 44 U	41 U / 44 U	83 U / 88 U	NA	NA	NA
	04/23/04	38 J,FB / 53 U	14 U / 13 U	12 J / 53 U	14 U / 13 U	14 U / 13 U	14 U / 13 U	14 U / 13 U	14 U / 13 U	14 U / 13 U	14 U / 13 U	14 U / 13 U	28 U / 27 U	NA	NA	NA

Notes:
TCL = Target Compound List
ND = Not detected at reporting limit prior to 06/08/00.
< = Not detected at the method detection limit.
B = Method blank contamination. The associated method blank contains the analyte at a reportable level.
NA = Not analyzed
J = Estimated result; result is less than method reporting limit
TB = Detected in trip blank
FB = Detected in field blank
R (DATA VALIDATION QUALIFIER) = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. The presence or absence of the analyte cannot be verified.
= This value represents a probable combination of 3-methylphenol (m-cresol) and 6-methylphenol (p-cresol).
UJ (DATA VALIDATION QUALIFIER) = Analyte not detected above the reporting limit; however, the reporting limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
Methylene chloride (2.6 ug/kg J, FB, TB) was detected in SED-1 during 4/04 sampling round.

Appendix C
Data Quality Review - Checklists

Tier II
VOA Organic Data Review Summary

SDG No./Matrix:	Groundwater, Surface Water, Sediment - A0G230443	**Completion Date:**	08/27/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Barbara Jones
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	Electronic version of complete package provided (sample data, QC data, standards, raw data).
2. Preservation/holding time/sample condition	Yes	All samples collected on 07/22/10 analyzed between 07/29 and 08/03/10; 14-day holding times met. SED2 and SED Dup (for SED1) positive results qualified as J because moisture >50%.
3. GC/MS tuning (Form V)	No	GC/MS tuning documented and within QC limits.
4. Calibration:		
4A - Initial	Yes	RSD >30% for methylene chloride for SED1 and SED2 - qualified as J. Some RRFs <0.05, but not for reported compounds.
4B - Continuing	No	For some compounds, RRFs were <0.05; however, not for reported compounds, therefore no qualifications.
5. Blanks:		
5A - Laboratory blanks (Form IV)	No	3 Method blanks, 1 for SED, 2 for water. No detects in method blanks, no qualifications.
5B - Trip blanks	No	No detects, no qualifications.
5C - Field blanks	Yes	FB3: Acetone 1.2 J ug/L. Qualified water samples but not sediment samples due to FB detect (10 U).
6. System monitoring compound (surrogate) recovery (Form II))	No	Form IIs provided for water and sediment samples. No outliers; all results within limits.
7. Laboratory control sample (Form III)	No	LCS/LCS Dup: 1 pair for SED, 2 pairs for water - all within limits.
8. Matrix spike/matrix spike duplicates (Form III)	No	SED2: spike recoveries and RPD okay. SW2: spike recoveries and RPD okay. Lab MS/MSD (water: spike recoveries and RPD okay.
9. Field duplicates	Yes	SED Dup (Sed 1). SW Dup. Both SW samples ND. SED results: RPDs out of limits, SED-1 results qualified as J.
10. Internal standards performance (Form VIII)	Yes	SED2 results qualified as UJ because IS3 (DCB) recovery slightly below lower limit. Qualification only applied to those compounds represented by IS3 (DCB).
11. Compound quantitation and reporting	No	Checked OW-19. Quantification and transcription okay.
12. Tentatively identified compounds	NA	TICs not required for this program.

Tier II
Dissolved Gases Data Review Summary

SDG No./Matrix:	Groundwater - A0G230443	**Completion Date:**	09/02/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Barbara Jones
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	OW-25, OW-19, OW-18, OW-24. Package contains sample and QC Form Is, standards data, raw data, and other miscellaneous information.
2. Preservation/holding time	No	All samples collected on 07/22/10, analyzed on 07/29/10; holding times okay.
3. GC/MS tuning	NA	GC method.
4. Calibration:		
4A - Initial	No	9-Level initial calibration, 06/10/10-06/11/10. %RSD all <10%. Recovery reports within in QC limits. Minimum RRFs met.
4B - Continuing	No	%D all <10%. Minimum RRFs met.
5. Blanks:		
5A - Laboratory blanks	No	One method blank - 07/29/10. ND, no qualifications.
5B - Trip blanks	NA	No trip blank was analyzed for dissolved gases.
5C - Equipment rinsates	NA	No equipment rinsate blank was collected for dissolved gases.
5D - Field blank	NA	Field blank not analyzed for dissolved gases.
6. Surrogate recovery	NA	Not applicable for this method.
7. Lab check sample	No	Form III - One check sample. Spike recoveries within QC limits.
8. Matrix spike/matrix spike duplicates	NA	Form III - Lab MS/MSD. Spike recoveries and RPDs within limits.
9. Field duplicates	NA	No field duplicates were collected for this SDG.
10. Internal standards performance	NA	Not applicable for this method.
11. Compound quantitation and reporting	No	Checked OW-19, OW-18 - calculation and transcription correct. Other samples were ND.
12. Tentatively identified compounds	NA	Not required.

Tier II
Inorganic Data Review Summary

SDG No./Matrix:	Groundwater; Sediment (% solids only) - A0G230443	**Completion Date:**	09/02/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Barbara Jones
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	Package provides Form Is, QC, standards, and all supporting information.
2. Preservation/holding time	No	Holding times met for all parameters, including nitrate and sulfide.
3. Calibration	No	TOC: 5-level cal. Chloride, nitrate, and sulfate ion chromatography, initial and continuing. Data review checklist for alkalinity and sulfide document standards.
4. Blanks:		
4A - Laboratory	No	Method blank results ND for all parameters.
4B - Equipment rinsates/field blank	NA	Not analyzed for these selected parameters.
5. Interference check sample	NA	Not applicable for these parameters.
6. Laboratory control sample	No	Recoveries in limits for all parameters.
7. Laboratory control duplicate sample	No	RPDs within limits for all LCS duplicates.
8. Field duplicate sample	Yes	SED1 and SED Dup % solids RPDs exceed QC limit; SED Dup positive results previously qualified for moisture >50%; SED1 positive results J qualified.
9. Matrix spike sample analysis	No	Lab MS/MSD for total alkalinity, TOC, total sulfide. Recoveries and RPDs within limits.
10. ICP serial dilution	NA	Not applicable for these parameters.
11. Sample quantitation and reporting		Checked TOC for OW-19. Alkalinity checked for OW-24.

Inorganic Parameter:	Holding Time:
- Chloride	28 days
- Nitrate	48 hours
- Sulfate	28 days
- Total Alkalinity	14 days
- Total Organic Carbon	28 days
- Total Sulfide	7 days

Tier II
VOA Organic Data Review Summary

SDG No./Matrix:	Groundwater - A0G220446	**Completion Date:**	08/26/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Barbara Jones
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	Field Blank 2, OW6, OW13R, OW2, Dup1, MW-1, Pump Rinse, Trip Blank, OW5 Complete package provided electronically and printed.
2. Preservation/holding time	No	All samples collected on 07/21/10; all samples analyzed on 08/01 or 08/02/10 (<than 14 days).
3. GC/MS tuning (Form V)	No	Instrument tuning correctly performed and documented.
4. Calibration:		
4A - Initial	No	Performed Nov. 2009 a3ux12.i. RSD <30% (okay). Some RRFs <0.05, but not for reported compounds; no qualifications.
4B - Continuing	Yes	Continuing calibration on 08/01 and 08/02/10. 08/01/10: For OW6, OW2, MW-1: OW6, OW2, MW-1, Trip blank: Bromomethane, Chloroethane, 2-Butanone, 2-Hexanone, 1,1,2,2-TCA — Qualified as UJ because % D >25% (<50%, which is lab's QC standard). RRFs are >0.05 for reported compounds. 08/02/10: Field blank, OW13R, Dup 1, Pump rinse, OW5: Acetone, Bromomethane, Chloroethane, 2-Butanone, 2-Hexanone, 1,1,2,2-TCA — Qualified as UJ because % D >25% (<50%). RRFs are >0.05 for reported compounds.
5. Blanks:		
5A - Laboratory blanks (Form IV)	No	Method blank 08/01/10: methylene chloride detected, but not in associated samples. Method blank 08/02/10: results ND; no qualifications.
5B - Trip blanks: Field blanks	No	Trip blank and field blank ND.
5C - Equipment rinsates	Yes	Pump rinse equipment blank had acetone at 1.5 J concentration; OW-2 qualified as 10 U.

Tier II
VOA Organic Data Review Summary

SDG No./Matrix:	Groundwater - A0G220446	**Completion Date:**	08/26/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Barbara Jones
Laboratory:	TestAmerica, North Canton, OH		

	Review Criteria	Data Qualified	Comments / Samples Qualified
6.	Surrogate recovery (Form II) (System monitoring compound recovery)	No	No outliers; all surrogate recoveries within specified limits.
7.	Laboratory control sample (Form III)	No	Check sample recoveries within limits.
8.	Matrix spike/matrix spike duplicates (Form III)	No	OW5 MS/MSD: spike recoveries and RPDs within limits. 1 lab MS/MSD: within limits.
9.	Field duplicates	No	OW13R - Dup 1 RPD 11% or less.
10.	Internal standards performance (Form VIII)	No	Area counts within specified limits; no qualifications.
11.	Compound quantitation and reporting	No	Checked for OW13R. Quantitation and transcription okay.
12.	Tentatively identified compounds	NA	Not required for this analytical program.

Tier II
RSK Method Dissolved Gases

SDG No./Matrix:	Groundwater - A0G220446	**Completion Date:**	08/26/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Barbara Jones
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	QC summary; Form Is for field and QC samples. Standards, raw, and miscellaneous data.
2. Preservation/holding time	No	All samples acid preserved, chilled, and sampled in less than 14 days.
3. GC/MS tuning	NA	GC method.
4. Calibration:		
4A - Initial	No	June 10, 2010: 7-level initial calibration. RSD <30%; RRF >0.05.
4B - Continuing	No	%D <25%; RRF >0.05.
5. Blanks:		
5A - Laboratory blanks	No	1 Lab blank; ND for target compounds.
5B - Trip blanks	NA	Trip blanks not analyzed for dissolved gases.
5C - Equipment rinsates	NA	Rinse blank not analyzed for dissolved gases.
6. Surrogate recovery	NA	Not applicable for this method.
7. Laboratory control sample	No	Lab check sample results within limits.
8. Matrix spike/matrix spike duplicates	No	OW5 spike recoveries and RPDs all within limits.
9. Field duplicates	No	OW13R and Dup-1 results okay: 14% and 16% RPD.
10. Internal standards performance	NA	Not applicable for this method.
11. Compound quantitation and reporting	No	Quantitation sheets checked for 3 samples; all okay.
12. Tentatively identified compounds	NA	Not required for this program.

Tier II
Inorganic Data Review Summary

SDG No./Matrix:	Groundwater - A0G220446	**Completion Date:**	08/27/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Barbara Jones
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	Form Is for samples, LCS, method blank, MS/MSD; calibration and other raw/supporting data.
2. Preservation/holding time	No	All samples analyzed within the required holding times shown below.
3. Calibration	No	9-Level cal (ion chromatography) for chloride, nitrate, sulfate; TOC/total alkalinity auto-analyzer calibration data; ion-specific electrode calibration for sulfide.
4. Blanks:		
4A - Laboratory	No	Method blank ND for all parameters.
4B - Equipment rinsates/field blank	NA	Pump rinsate and field blank were not analyzed for these inorganics.
5. Interference check sample	NA	Not applicable for these parameters.
6. Laboratory control sample	No	Lab control sample analyses run for all parameters and all within limits.
7. Laboratory duplicate sample	No	Lab control sample duplicates for nitrate, sulfate, and chloride; within limits.
8. Field duplicate sample	No	OW13R/Dup 1: RPDs within QC limits.
9. Matrix spike sample analysis	No	OW5 used for MS/MSD. Recoveries and RPDs all within limits. For lab MS/MSD, spike recovery and RPD was not calculated because sample concentrations were >4x the spike amount.
10. ICP serial dilution	NA	Not applicable for these parameters.
11. Sample quantitation and reporting	No	Sample result quantitation checked in raw data for all parameters, for 3 or more samples. Quantitation and transcription okay.

Inorganic Parameter:	Holding Time:
- Chloride	28 days
- Nitrate	48 hours
- Sulfate	28 days
- Total Alkalinity	14 days
- Total Organic Carbon	28 days
- Total Sulfide	7 days

Tier II
RSK Method Dissolved Gases

SDG No./Matrix:	A0G210469 - Groundwater OW-8, MW-4, OW-22, OW-21, OW-10R	**Completion Date:**	08/30/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Xihua Chen
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	Electronic package included QC summary data, sample data, standard data, raw QC data, and miscellaneous (sequence table, etc.). Summary data package printed.
2. Preservation/holding time	No	All samples properly preserved and analyzed in less than 14 days.
3. GC/MS tuning	NA	GC method.
4. Calibration:		
4A - Initial	No	9-Level initial calibration from 06/10/10-06/11/10. RSD <30%.
4B - Continuing	No	Continuing calibration - July 10. RRF and %D within QC limits.
5. Blanks:		
5A - Laboratory blanks	No	Method blank (Form III) applicable for all samples.
5B - Trip blanks	NA	Trip blank not analyzed for dissolved gases.
5C - Equipment rinsates	NA	Pump rinsate not included for this SDG.
5D – Field blank	NA	Field blank not analyzed for dissolved gases.
6. Surrogate recovery	NA	Not applicable for this method.
7. Lab-fortified blank	No	Form III - Check sample and duplicate, with recoveries within QC limits.
8. Matrix spike/matrix spike duplicates	NA	No field MS/MSD for this SDG.
9. Field duplicates	NA	No field duplicates for this SDG.
10. Internal standards performance	NA	Not applicable for this method.
11. Compound quantitation and reporting	No	All five samples okay for quantitation and transcription.
12. Tentatively identified compounds	NA	Not required for this program.

Tier II
Inorganic Data Review Summary

SDG No./Matrix:	A0G210469 - Groundwater OW-8, MW-4, OW-22, OW-21, OW-10R,	**Completion Date:**	08/30/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Xihua Chen
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	Electronic data package included sample data and supportive raw data. Summary package printed.
2. Preservation/holding time	No	All samples analyzed within the required holding times shown below.
3. Calibration	No	Initial and continuing calibration documentation provided for all different methods.
4. Blanks:		
4A - Laboratory	No	Method blanks ND for all parameters.
4B - Equipment rinsates	NA	No equipment rinsate blanks analyzed for these parameters.
5. Interference check sample	NA	Not applicable for these parameters.
6. Laboratory control sample	No	Duplicate lab control samples for all parameters met QC limits.
7. Laboratory duplicate sample	No	LCS/LCS duplicates met QC limits.
8. Field duplicate sample	NA	No field duplicate was included with this SDG; not performed for these parameters.
9. Matrix spike sample analysis	No	MS/MSDs met QC limits for all parameters.
10. ICP serial dilution	NA	Not applicable for these parameters.
11. Sample quantitation and reporting	No	Spot check confirmation – Total Alk for all the samples okay.

Inorganics Analyzed:	Holding Times:
- Chloride	28 days
- Nitrate	48 hours
- Sulfate	28 days
- Total Alkalinity	14 days
- Total Organic Carbon	28 days
- Total Sulfide	7 days

Tier II
VOA Organic Data Review Summary

SDG No./Matrix:	A0G210469 - Water (Low) OW-22, OW-21, OW-10R MW4, OW8, FIELD BLANK 1, TRIP BLANK	**Completion Date:**	08/30/10
Project No.:	Carroll & Dubies - 104-0012	**Reviewer:**	Xihua Chen
Laboratory:	TestAmerica, North Canton, OH		

Review Criteria	Data Qualified Yes / No	Comments / Samples Qualified
1. Data completeness	No	Complete data package provided electronically in searchable format. Package was reviewed both on screen and printed copy.
2. Preservation/holding time	No	All samples were analyzed within the required holding times and were correctly preserved.
3. GC/MS tuning	No	Form V shows that instrument tuning was correctly performed and documented.
4. Calibration:		
4A - Initial	No	Six-point initial calibration for period 05/17/10 to 07/30/10 (low water). RSDs <30%, but some RRF <0.05. The associated compounds were not reported, therefore no qualifications.
4B - Continuing	No	Continuing calibration performed on 07/30/10. Three compounds exceeded %D limit of 25%: dichlorofluoromethane, isobutanol, and 2-methylnaphthalene, but these are not reported VOAs and therefore no qualifications.
5. Blanks:		
5A - Laboratory blanks	No	Method blank (Form IV): No detections.
5B - Trip blanks	Yes	Trip blank: Acetone detected at 1.8 ug/L J. OW-10R, MW4 and OW8 are qualified as 10U.
5C - Equipment rinsates	NA	No rinsate blank for this SDG.
5D - Field blank	Yes	Field blank: Acetone detected at 2.0 ug/L J. OW-10R, MW4 and OW8 are qualified as 10U.
6. Surrogate recovery	No	Form II - All surrogate recoveries within QC limits.
7. Lab-fortified blank	No	Form III - Check sample and duplicate; all recoveries and RPDs within limits.
8. Matrix spike/matrix spike duplicates	No	Form III - Lab MS and MSD; recoveries and RPDs within limits.
9. Field duplicates	NA	No field duplicates for this SDG.
10. Internal standards performance	No	Form VIII - Internal standards met QC limits.
11. Compound quantitation and reporting	No	OW-22 and OW-21 were spot-checked and okay.
12. Tentatively identified compounds	NA	Not required for this program.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 104-0012-0200

CAROLL & DUBIES (C&D)

Lot #: A0G210469

Barbara Jones

Cardinal Resources
1505 E Carson Street
Suite #200
Pittsburgh, PA 15203

TESTAMERICA LABORATORIES, INC.

Approved for release.
Denise D. Heckler
Project Manager
8/11/2010 3:10 PM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

August 11, 2010

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0G210469

The following report contains the analytical results for six water samples and one quality control sample submitted to TestAmerica North Canton by Cardinal Resources from the CAROLL & DUBIES (C&D) Site, project number 104-0012-0200. The samples were received July 21, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Barbara Jones and Steve Bodnar on August 02, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit with the exception of Dissolved Gases in Water and Volatile Organics by GC/MS which were evaluated to the method detection limit and include appropriate qualifiers.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.3°C.

See TestAmerica's Cooler Receipt Form for additional information.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

DISSOLVED GASES/RSK

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0G210469

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
OW-22 07/20/10 09:45 001				
Methane	2700	2.5	ug/L	RSK SOP-175
Vinyl chloride	0.26 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.38 J	1.0	ug/L	SW846 8260B
Benzene	2.5	1.0	ug/L	SW846 8260B
Chlorobenzene	4.5	1.0	ug/L	SW846 8260B
Xylenes (total)	0.64 J	1.0	ug/L	SW846 8260B
Chloride	7.4	1.0	mg/L	MCAWW 300.0A
Sulfate	11.7	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	4	1	mg/L	MCAWW 415.1
Total Alkalinity	220	5.0	mg/L	MCAWW 310.1
OW-21 07/20/10 11:05 002				
Methane	290	0.50	ug/L	RSK SOP-175
Vinyl chloride	0.71 J	2.0	ug/L	SW846 8260B
Benzene	1.9	1.0	ug/L	SW846 8260B
Sulfate	23.6	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	260	5.0	mg/L	MCAWW 310.1
OW-10R 07/20/10 12:20 003				
Methane	2300	2.5	ug/L	RSK SOP-175
Vinyl chloride	0.66 J	2.0	ug/L	SW846 8260B
Chloroethane	0.87 J	2.0	ug/L	SW846 8260B
Acetone	1.9 J	10	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.39 J	1.0	ug/L	SW846 8260B
Benzene	4.6	1.0	ug/L	SW846 8260B
Chlorobenzene	0.88 J	1.0	ug/L	SW846 8260B
Sulfate	36.2	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	250	5.0	mg/L	MCAWW 310.1
MW4 07/20/10 13:45 004				
Methane	280	0.50	ug/L	RSK SOP-175
Acetone	3.4 J	10	ug/L	SW846 8260B
Benzene	2.0	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0G210469

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW4 07/20/10 13:45 004				
Chloride	67.2	1.0	mg/L	MCAWW 300.0A
Sulfate	67.0	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	2	1	mg/L	MCAWW 415.1
Total Alkalinity	110	5.0	mg/L	MCAWW 310.1
OW8 07/20/10 15:00 005				
Methane	2.5	0.50	ug/L	RSK SOP-175
Acetone	1.9 J	10	ug/L	SW846 8260B
Chloride	2.3	1.0	mg/L	MCAWW 300.0A
Sulfate	12.3	1.0	mg/L	MCAWW 300.0A
Total Alkalinity	53	5.0	mg/L	MCAWW 310.1
FIELD BLANK 1 07/20/10 14:45 006				
Acetone	2.0 J	10	ug/L	SW846 8260B
TRIP BLANK 07/20/10 007				
Acetone	1.8 J	10	ug/L	SW846 8260B

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METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0G210469

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0A
Dissolved Gases in Water	RSK SOP-175
Nitrate as N	MCAWW 300.0A
Sulfate	MCAWW 300.0A
Sulfide	MCAWW 376.1
Total Organic Carbon	MCAWW 415.1
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

SAMPLE SUMMARY

A0G210469

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4GJG	001	OW-22	07/20/10	09:45
L4GJT	002	OW-21	07/20/10	11:05
L4GJV	003	OW-10R	07/20/10	12:20
L4GJ0	004	MW4	07/20/10	13:45
L4GJ1	005	OW8	07/20/10	15:00
L4GJ2	006	FIELD BLANK 1	07/20/10	14:45
L4GJ4	007	TRIP BLANK	07/20/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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SHIPPING AND RECEIVING DOCUMENTS

Chain of Custody Record

TestAmerica 15
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TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact

Company Name: Cardinal Resources, LLC	Client Project Manager: Barb Jones	Site Contact: John Vogeding	Lab Contact: Nathan Pietras
Address: 1505 E. Carson St.	Telephone:	Telephone: 412 374 0989	Telephone:
City/State/Zip: Pittsburgh, PA 15203	Email: BJones@Cardinalres.com		
Phone: 412-374-0989			
Project Name: Carroll + Dubies (CTO)	Method of Shipment/Carrier: Fed Ex		
Project Number: 104-0012-0200	Shipping/Tracking No:		
PO#			

Analysis Turnaround Time (calendar days)

TAT if different from below _____

☐ 3 weeks
☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Analyses

COC No: 1 of 1 COCs

For lab use only

Walk-in client ☐
Lab pickup ☐
Lab sampling ☐

Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) / Grab (G)	TCL VOCs	Methane/Ethene/Ethane	BTEX	SIM PAHs	Alkalinity	Chloride	Nitrate (N)	TOC	Sample Specific Notes / Special Instructions:
OW-22	7-20	0945		X				X		X		X	X				X	X	X	X	X	X	X	X	
OW 21	↓	1105		X				↓		↓		↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	
OW 10R		1220		X																					
MW4		1345		X																					
OW 8	↓	1500		X				↓		↓		↓	↓				↓	↓	↓	↓	↓	↓	↓	↓	
Field Blank 1	↓	1445		X						X							X								
Trip Blank	Lab	Prepared		X						X							X								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: John Vogeding	Company: Cardinal Resources	Date/Time: 7-20-10 / 1600	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAWC	Date/Time: 7/21/10 9:20

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TAL-0018 (1008)

North Canton

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A09210469

Client Cardinal Resource Project _____ By: _____
Cooler Received on 7/21/10 Opened on 7/21/10 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # C122 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity_____ Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other _____
6. Cooler temperature upon receipt 1.3 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐ NA ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☒ No ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☐ No ☒ NA ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Received 6x40ml. vials Sulfuric Preserved for VOC + MEE on Samples aw-22 + aw-21. No Hydrochloric volume received.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample
Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 051010-HNO_3; *Sulfuric Acid Lot#* 121709-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
aw-22	≥12	7/21/10	
aw-21	≥12		
aw-10R	≥12		
MW-4	≥12		
aw-8	≥12		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

GCMS VOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G210469

Extraction: XXI25QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	89	91	84	80	00
02	OW-22	86	92	87	87	00
03	OW-21	84	90	85	81	00
04	OW-10R	84	94	82	85	00
05	MW4	82	93	85	85	00
06	OW8	81	93	85	82	00
07	FIELD BLANK 1	85	92	84	83	00
08	TRIP BLANK	82	96	82	82	00
09	METHOD BLK. L40QN1AA	83	89	85	86	00
10	LCS L40QN1AC	85	87	93	96	00
11	LAB MS/MSD D	88	90	90	97	00
12	LCSD L40QN1AD	88	87	93	99	00
13	LAB MS/MSD S	83	87	88	93	00

SURROGATES		QC LIMITS
SRG01	= Dibromofluoromethane	(73-122)
SRG02	= 1,2-Dichloroethane-d4	(61-128)
SRG03	= Toluene-d8	(76-110)
SRG04	= 4-Bromofluorobenzene	(74-116)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H020000 WO #: L40QN1AC
BATCH: 0214130

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	9.8	98	63 - 130	
Trichloroethene	10	10	101	75 - 122	
Benzene	10	9.6	96	80 - 116	
Toluene	10	10	102	74 - 119	
Chlorobenzene	10	9.8	98	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H020000 WO #: L40QN1AD
BATCH: 0214130

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	10	100	63 - 130	
Trichloroethene	10	9.9	99	75 - 122	
Benzene	10	9.5	95	80 - 116	
Toluene	10	10	102	74 - 119	
Chlorobenzene	10	9.9	99	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G170422 WO #: L4CFE1AN
BATCH: 0214130

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	170	ND	150	92	62 - 130	
Trichloroethene	170	550	680	77	62 - 130	
Benzene	170	ND	150	93	78 - 118	
Toluene	170	ND	160	97	70 - 119	
Chlorobenzene	170	ND	160	96	76 - 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G170422 WO #: L4CFE1AP
BATCH: 0214130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	170	170	101	8.7		20	62 - 130	
Trichloroethene	170	700	91	3.3		20	62 - 130	
Benzene	170	160	96	3.2		20	78 - 118	
Toluene	170	170	100	3.2		20	70 - 119	
Chlorobenzene	170	170	100	3.8		20	76 - 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L40QN1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: UXC0256.D

Lot Number: A0G210469

Date Analyzed: 07/30/10

Time Analyzed: 13:52

Matrix: WATER

Date Extracted: 07/30/10

GC Column: DB624 ID: .18

Extraction Method: 5030B

Instrument ID: UX15

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	L4CFE1AA	UXC0257.D	07/30/10	14:15
02	LAB MS/MSD	L4CFE1AN S	UXC0259.D	07/30/10	15:01
03	LAB MS/MSD	L4CFE1AP D	UXC0260.D	07/30/10	15:23
04	OW-22	L4GJG1AJ	UXC0261.D	07/30/10	15:45
05	OW-21	L4GJT1AJ	UXC0262.D	07/30/10	16:08
06	OW-10R	L4GJV1AJ	UXC0263.D	07/30/10	16:30
07	MW4	L4GJ01AJ	UXC0264.D	07/30/10	16:52
08	OW8	L4GJ11AJ	UXC0265.D	07/30/10	17:15
09	FIELD BLANK 1	L4GJ21AA	UXC0266.D	07/30/10	17:38
10	TRIP BLANK	L4GJ41AA	UXC0267.D	07/30/10	18:00
11	CHECK SAMPLE	L40QN1AC C	UXC0254.D	07/30/10	13:07
12	DUPLICATE CHECK	L40QN1AD L	UXC0255.D	07/30/10	13:30
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: TEST AMERICA - NORTH CANT Contract:

Lab Code: TACANTON Case No.: SAS No.: SDG No.: A0G210469V

Lab File ID: BFB466 BFB Injection Date: 07/30/10

Instrument ID: A3UX15 BFB Injection Time: 0922

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	50.0 - 100.0% of mass 95	93.8
175	5.0 - 9.0% of mass 174	6.7 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	89.9 (95.8)1
177	5.0 - 9.0% of mass 176	5.7 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-IC	UXC0246	07/30/10	1007
02	VSTD020	100NG-IC	UXC0247	07/30/10	1030
03	VSTD010	50NG-IC	UXC0248	07/30/10	1053
04	VSTD005	25NG-IC	UXC0249	07/30/10	1115
05	VSTD002	10NG-IC	UXC0250	07/30/10	1137
06	VSTD001	5NG-IC	UXC0251	07/30/10	1200
07	L40QNCHK	L40QN1AC	UXC0254	07/30/10	1307
08	L40QNCKDUP	L40QN1AD	UXC0255	07/30/10	1330
09	L40QNBLK	L40QN1AA	UXC0256	07/30/10	1352
10	OW-22	L4GJG1AJ	UXC0261	07/30/10	1545
11	OW-21	L4GJT1AJ	UXC0262	07/30/10	1608
12	OW-10R	L4GJV1AJ	UXC0263	07/30/10	1630
13	MW4	L4GJ01AJ	UXC0264	07/30/10	1652
14	OW8	L4GJ11AJ	UXC0265	07/30/10	1715
15	FIELD BLANK	L4GJ21AA	UXC0266	07/30/10	1738
16	TRIP BLANK	L4GJ41AA	UXC0267	07/30/10	1800
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: TEST AMERICA - NORTH CANT Contract:

Lab Code: TACANTON Case No.: SAS No.: SDG No.: A0G210469V

Lab File ID (Standard): UXC0248 Date Analyzed: 07/30/10

Instrument ID: A3UX15 Time Analyzed: 1053

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1021210	6.72	769451	9.43	534878	11.40
	UPPER LIMIT	2042420	7.22	1538902	9.93	1069756	11.90
	LOWER LIMIT	510605	6.22	384726	8.93	267439	10.90
	EPA SAMPLE NO.						
01	L40QNCHK	992045	6.72	725414	9.43	479236	11.40
02	L40QNCKDUP	992509	6.72	716591	9.43	480382	11.40
03	L40QNBLK	1034646	6.72	766846	9.43	495408	11.40
04	OW-22	985438	6.72	730084	9.43	460115	11.40
05	OW-21	1032668	6.72	783229	9.43	457616	11.40
06	OW-10R	1045225	6.72	834407	9.43	496599	11.40
07	MW4	992193	6.72	761313	9.43	463533	11.40
08	OW8	1020350	6.72	778497	9.43	447828	11.40
09	FIELD BLANK	1021182	6.72	772140	9.43	473523	11.40
10	TRIP BLANK	977495	6.73	777438	9.43	460853	11.40
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

TestAmerica
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SAMPLE DATA

Cardinal Resources

Client Sample ID: OW-22

GC/MS Volatiles

Lot-Sample #...: A0G210469-001 **Work Order #...:** L4GJG1AJ **Matrix.....:** WG
Date Sampled...: 07/20/10 09:45 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.26 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.38 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**2.5**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**4.5**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.64 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW-22

GC/MS Volatiles

Lot-Sample #...: A0G210469-001 **Work Order #...:** L4GJG1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D
Report Date: 02-Aug-2010 10:27

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D
Lab Smp Id: L4GJG1AJ Client Smp ID: OW-22
Inj Date : 30-JUL-2010 15:45
Operator : 43582 Inst ID: a3ux15.i
Smp Info : L4GJG1AJ,5ML/5ML
Misc Info : C00730A-IC,8260LLUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.718	6.718	(1.000)	985438	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	730084	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	460115	50.0000	
$ 4 Dibromofluoromethane	113	6.042	6.042	(0.899)	289613	42.8140	8.563
$ 5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	386058	46.2395	9.248
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	962212	43.4403	8.688
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	342751	43.4420	8.688
8 Dichlorodifluoromethane	85	1.512	1.393	(0.225)	13520	2.43837	0.4877
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	1.666	1.666	(0.248)	8138	1.30060	0.2601
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					
23 Acrylonitrile	53	Compound Not Detected.					

24	Methyl tert-butyl ether	73	Compound Not Detected.
25	trans-1,2-Dichloroethene	96	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D
Report Date: 02-Aug-2010 10:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96				13574	1.87932	0.3759
	32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	13574	1.87932	0.3759
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	5.805	5.804	(0.864)	15330	2.62258	0.5245
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	6.433	6.433	(0.958)	297120	12.3261	2.465
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	9.457	9.457	(1.002)	381790	22.4788	4.496
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	9.647	9.647	(1.023)	24703	2.27594	0.4552
M	63 Xylenes (total)	106				34607	3.21519	0.6430
	64 Xylene-o	106	9.991	9.990	(1.059)	9904	0.93925	0.1878
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	11.070	11.070	(0.971)	7052	2.42392	0.4848
	77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	78 sec-Butylbenzene	105	Compound Not Detected.					
	79 4-Isopropyltoluene	119	Compound Not Detected.					

80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	11.425	11.425 (1.002)		49301	3.12419	0.6248
82	n-Butylbenzene	91	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D
Report Date: 02-Aug-2010 10:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	29400	1.94379	0.3888
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	13.275	13.275	(1.164)	15076	0.79225	0.1584
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	2.342	2.342	(0.349)	6338	0.75046	0.1501
89	Ethyl Ether	59	2.733	2.733	(0.407)	57122	8.67019	1.734
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	6.089	6.089	(0.906)	9960	0.73846	0.1477
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D
Report Date: 02-Aug-2010 10:27

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

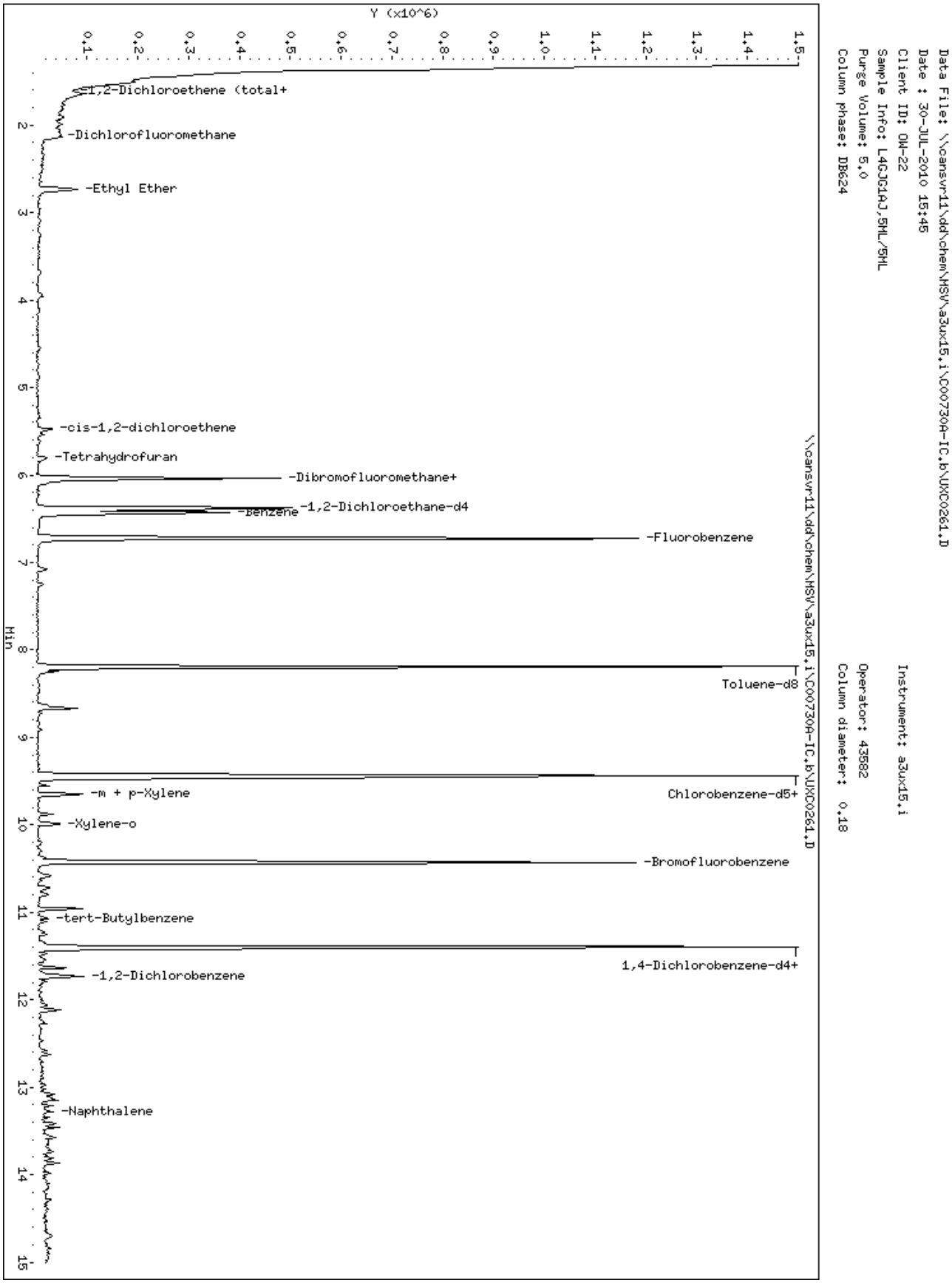
Instrument ID: a3ux15.i
Lab File ID: UXC0261.D
Lab Smp Id: L4GJG1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582

Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Client Smp ID: OW-22
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	985438	-3.50
2 Chlorobenzene-d5	769451	384726	1538902	730084	-5.12
3 1,4-Dichlorobenze	534878	267439	1069756	460115	-13.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux15,i\C007J0A-IC,b\UXC0264.D
Date : 30-JUL-2010 15:45
Client ID: DW-22
Sample Info: L4GJG1AJ,5ML/5ML
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15,i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
1,2-Dichloroethene (total+
-Dichlorofluoromethane
-Ethyl Ether
-cis-1,2-dichloroethene
-Tetrahydrofuran
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Benzene
-Fluorobenzene
Toluene-d8
Chlorobenzene-d5+
-m + p-Xylene
-Xylene-o
-Bromofluorobenzene
-tert-Butylbenzene
1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene
-Naphthalene
\\cansvr11\dd\chem\MSV\a3ux15,i\C007J0A-IC,b\UXC0264.D

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

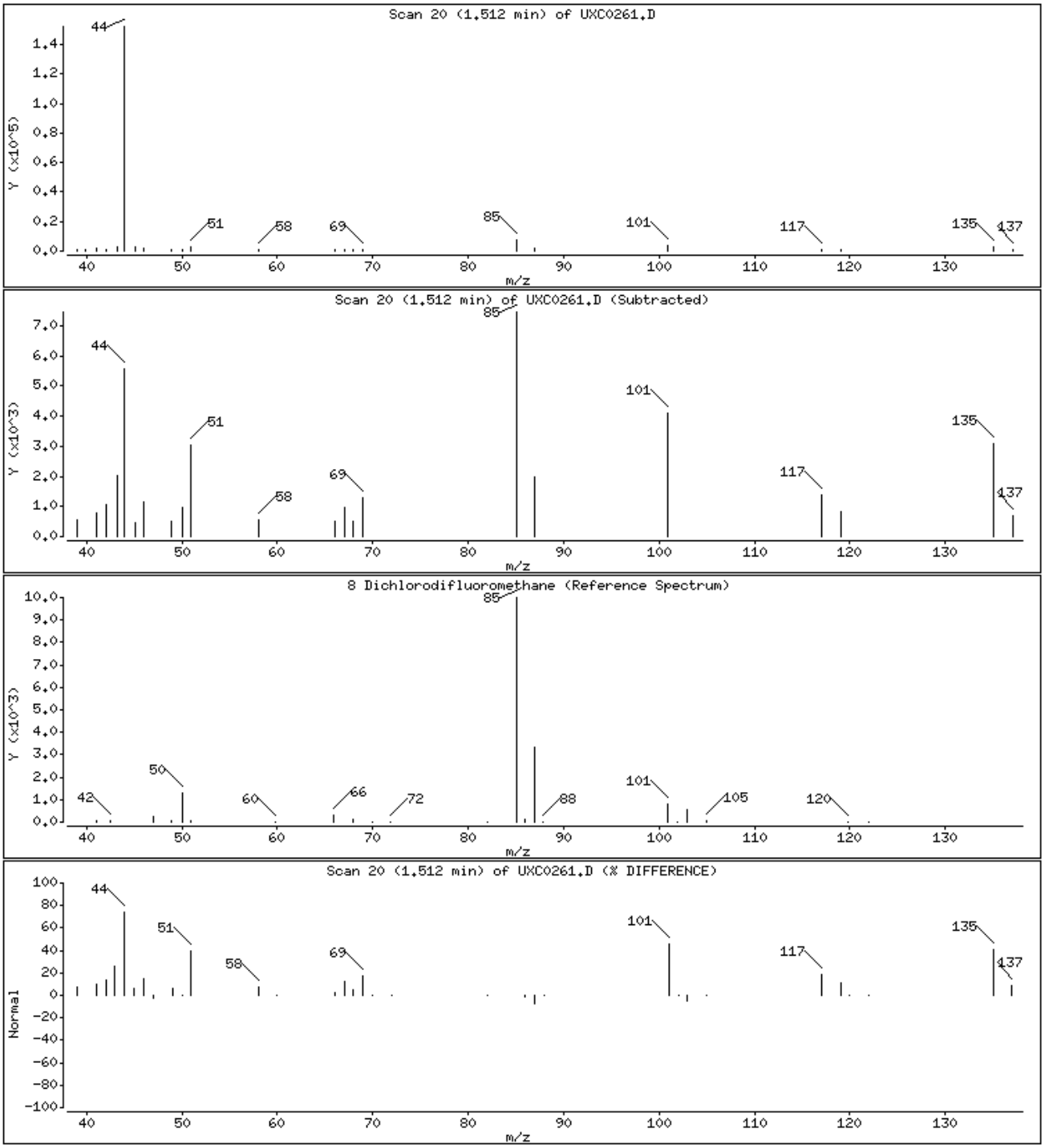
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

8 Dichlorodifluoromethane Concentration: 0.4877 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

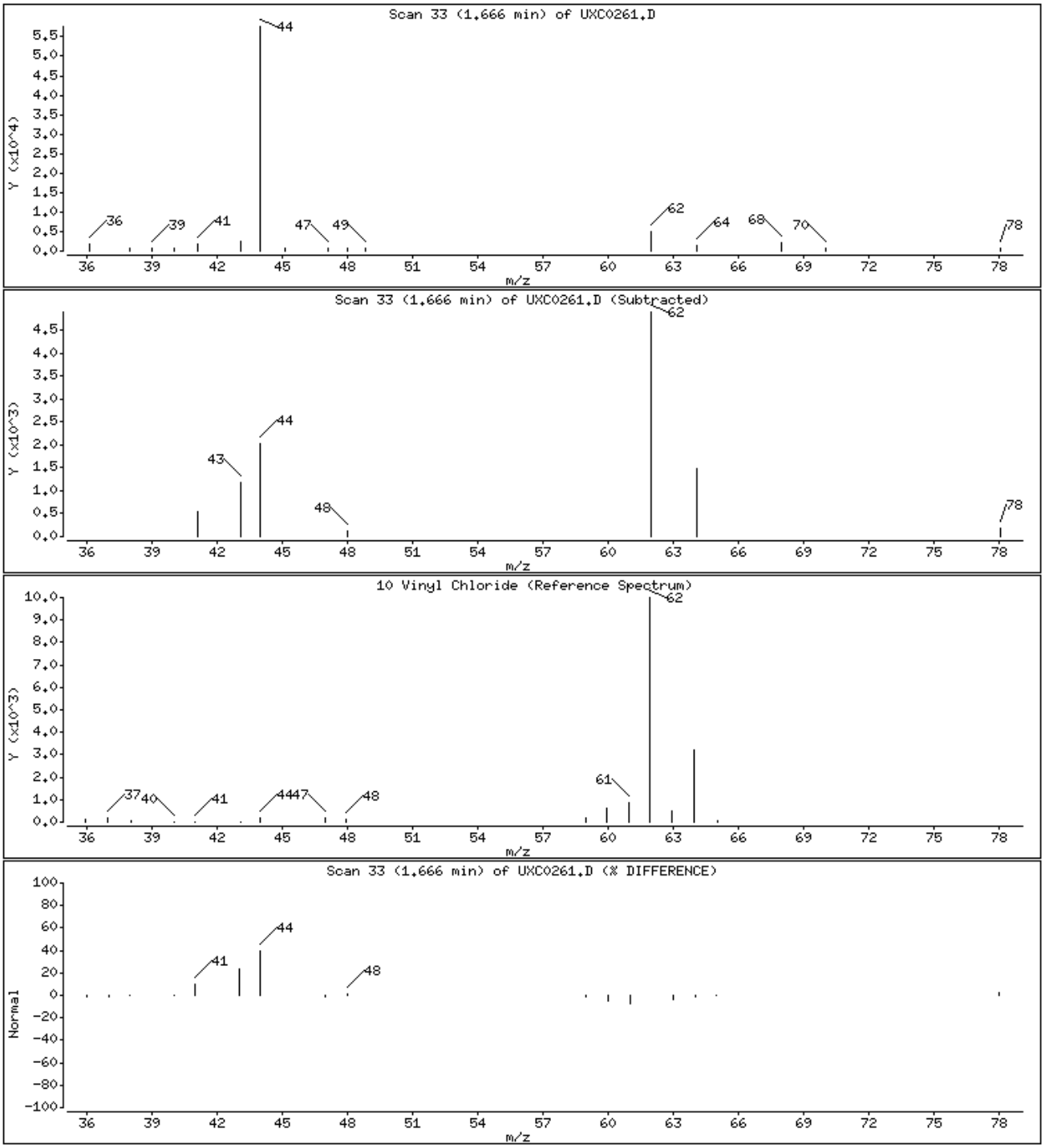
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

10 Vinyl Chloride Concentration: 0.2601 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

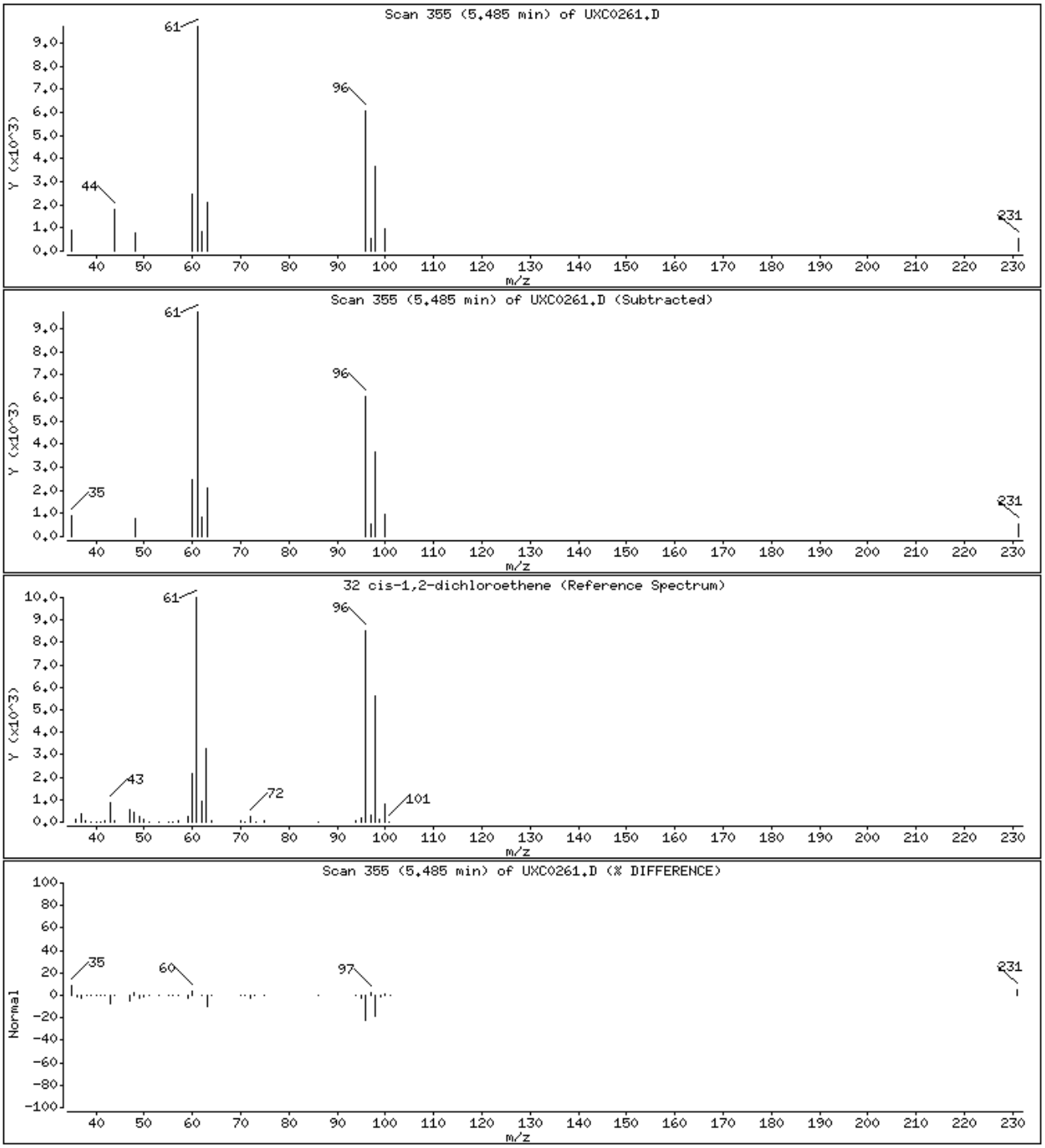
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 0.3759 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

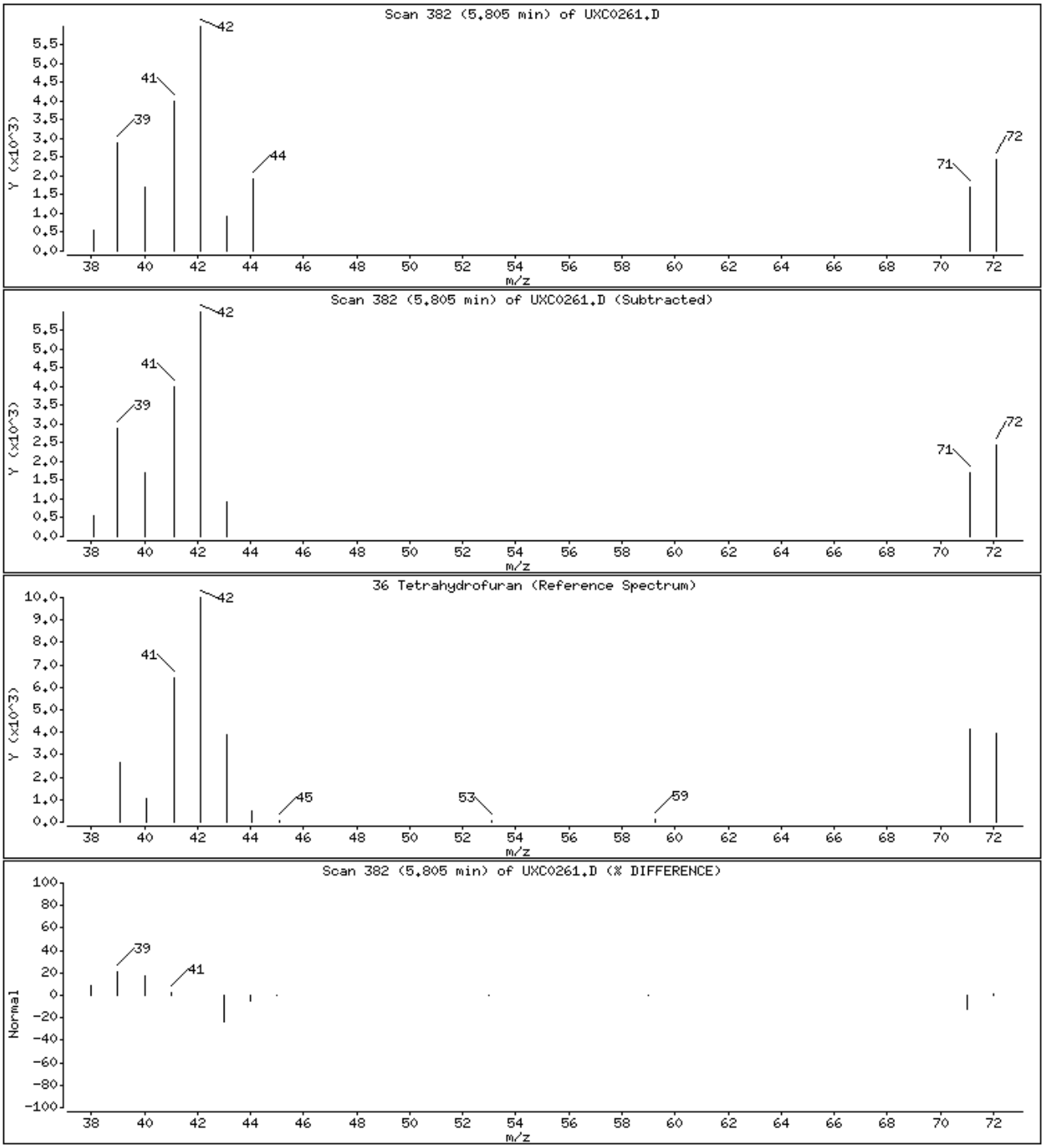
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

36 Tetrahydrofuran Concentration: 0.5245 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

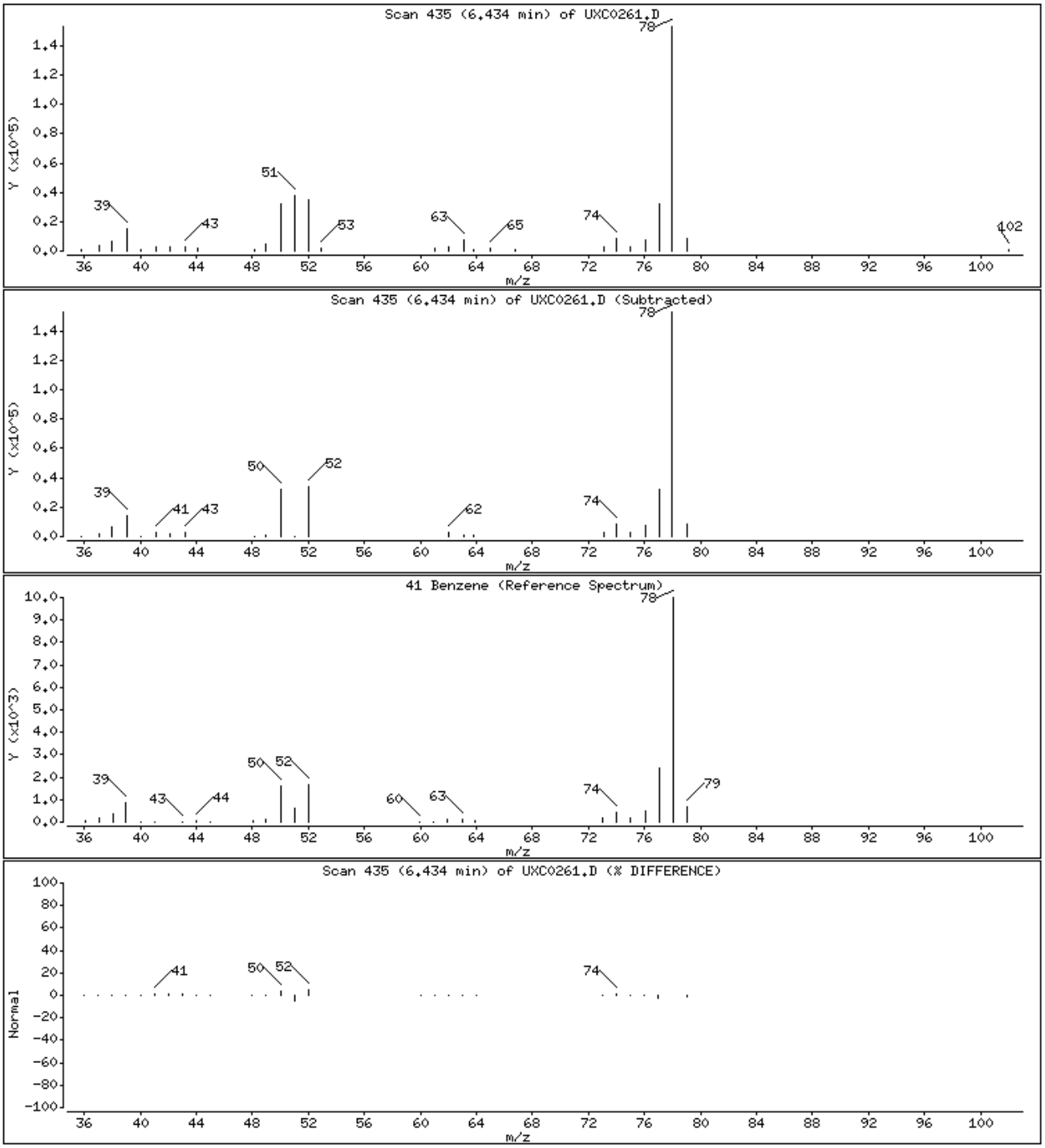
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 2.465 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

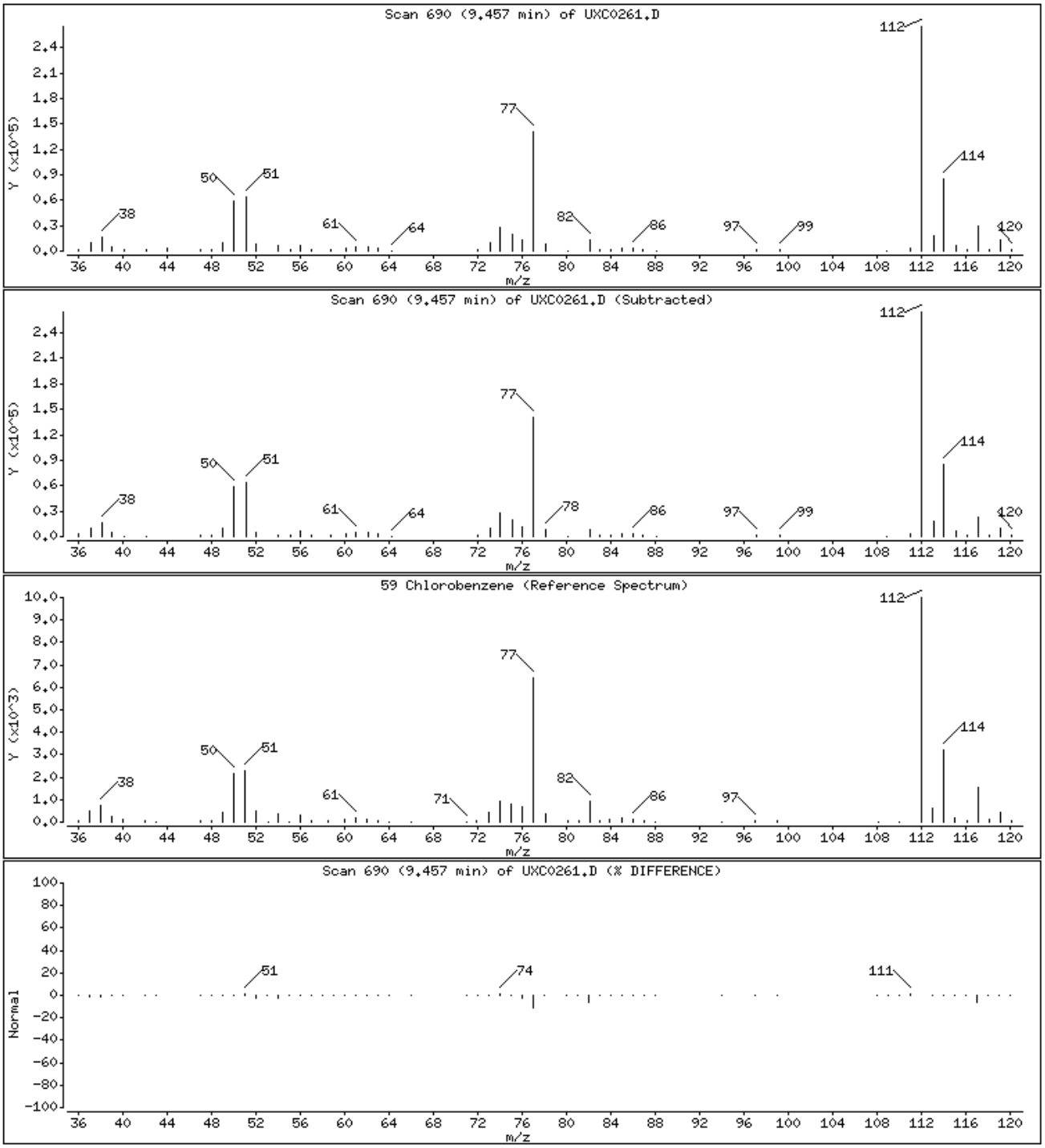
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

59 Chlorobenzene Concentration: 4.496 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

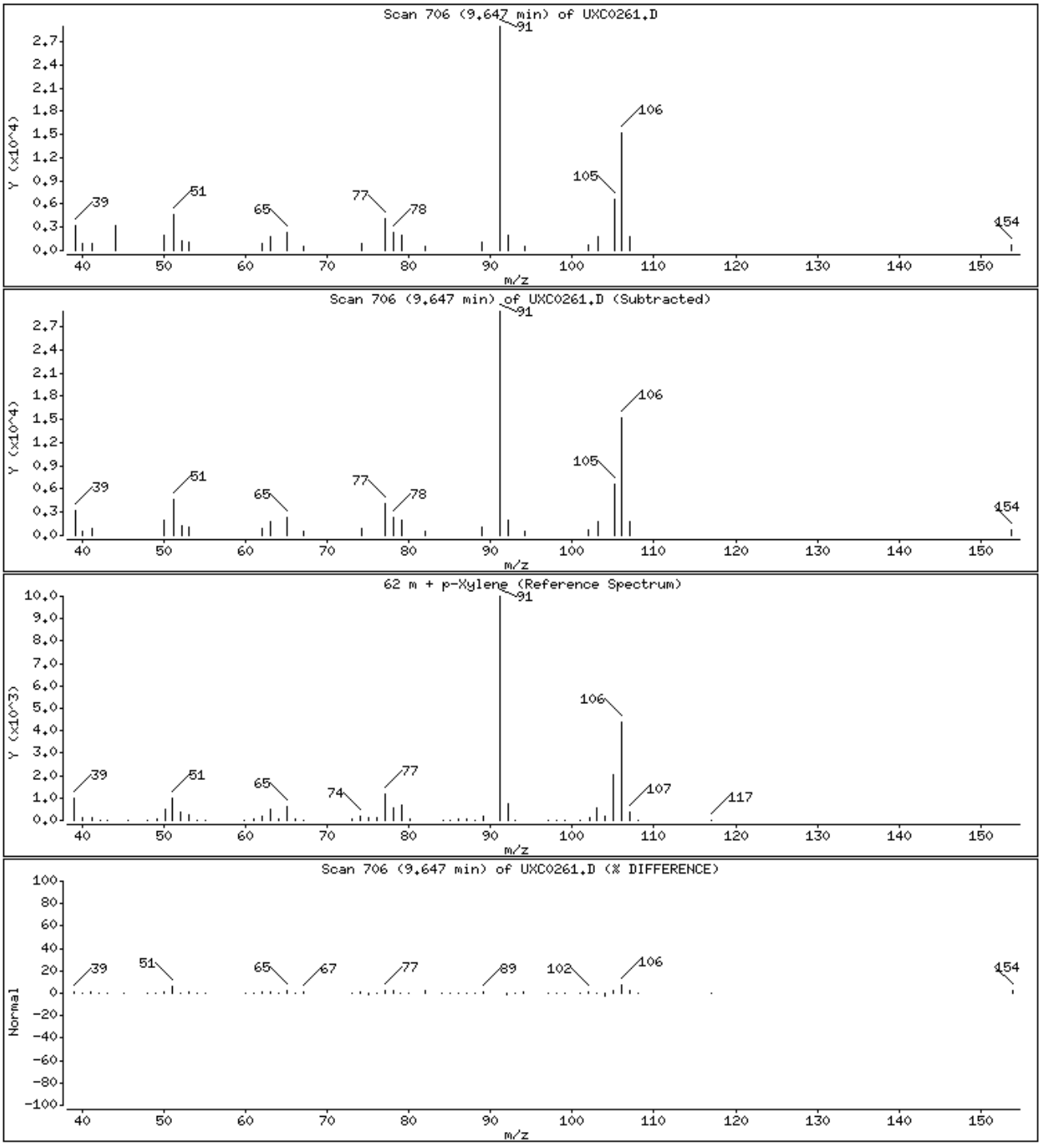
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

62 m + p-Xylene Concentration: 0.4552 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

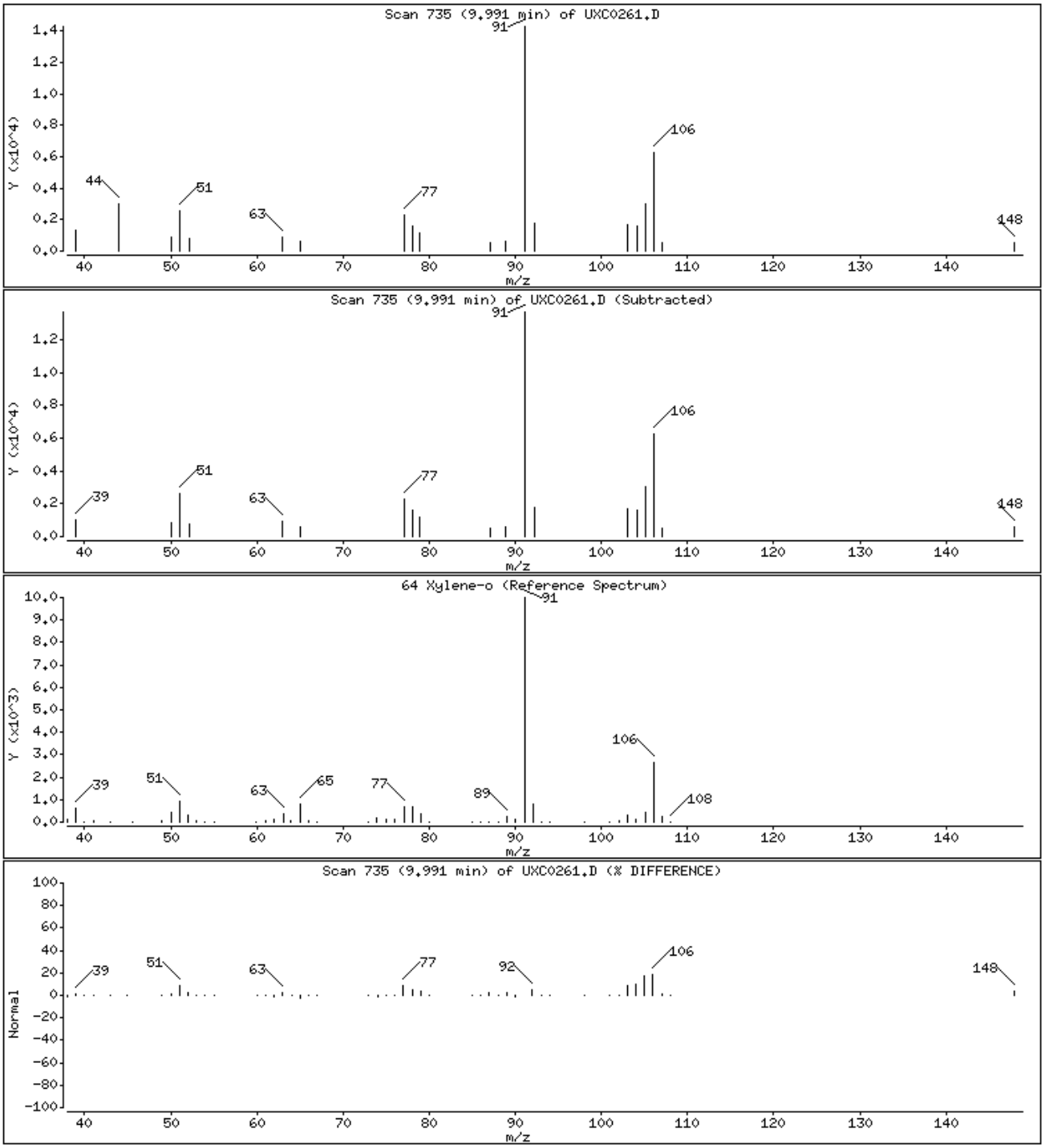
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

64 Xylene-o Concentration: 0.1878 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

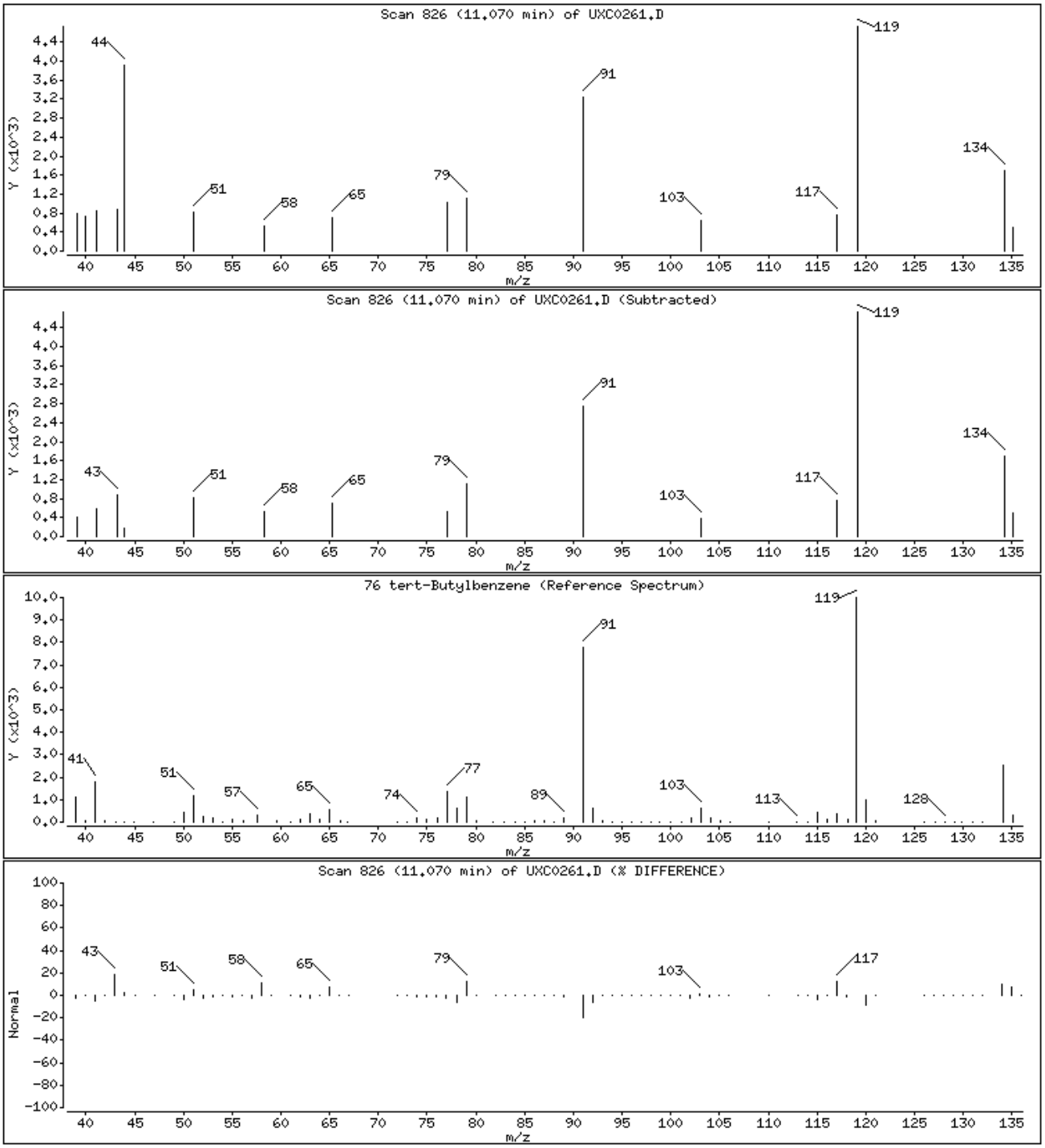
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

76 tert-Butylbenzene Concentration: 0.4848 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

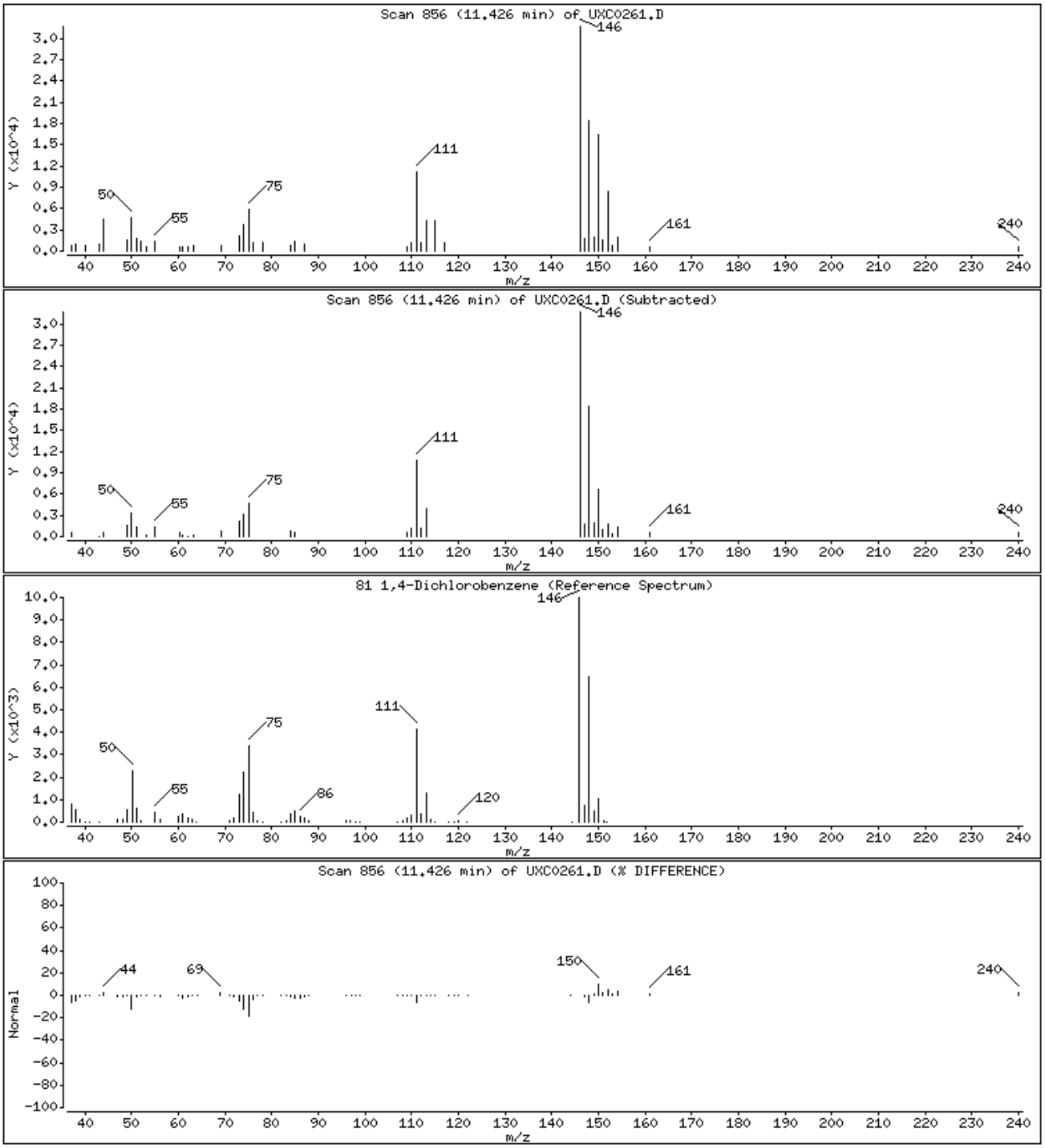
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.6248 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

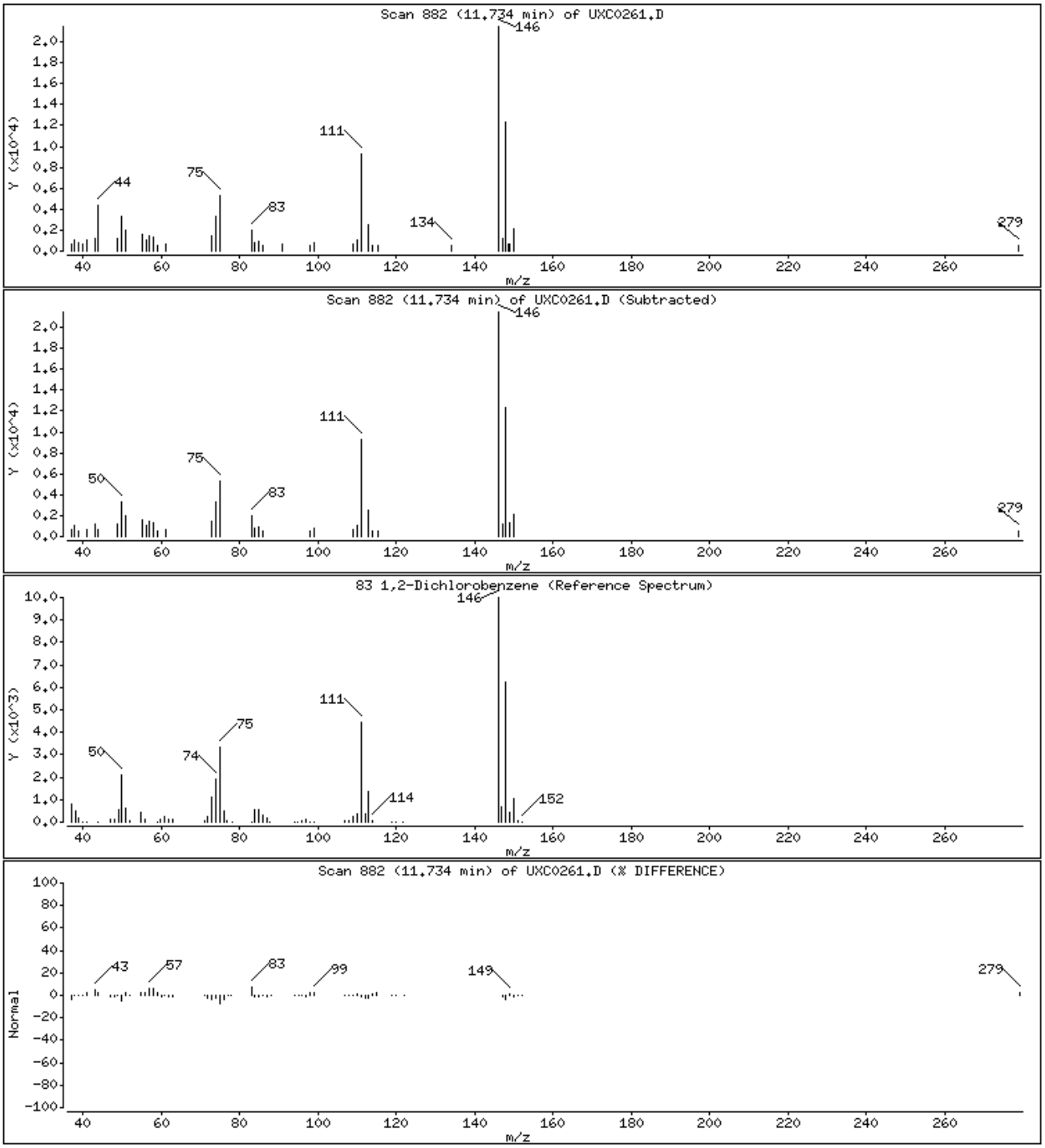
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

83 1,2-Dichlorobenzene Concentration: 0.3888 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

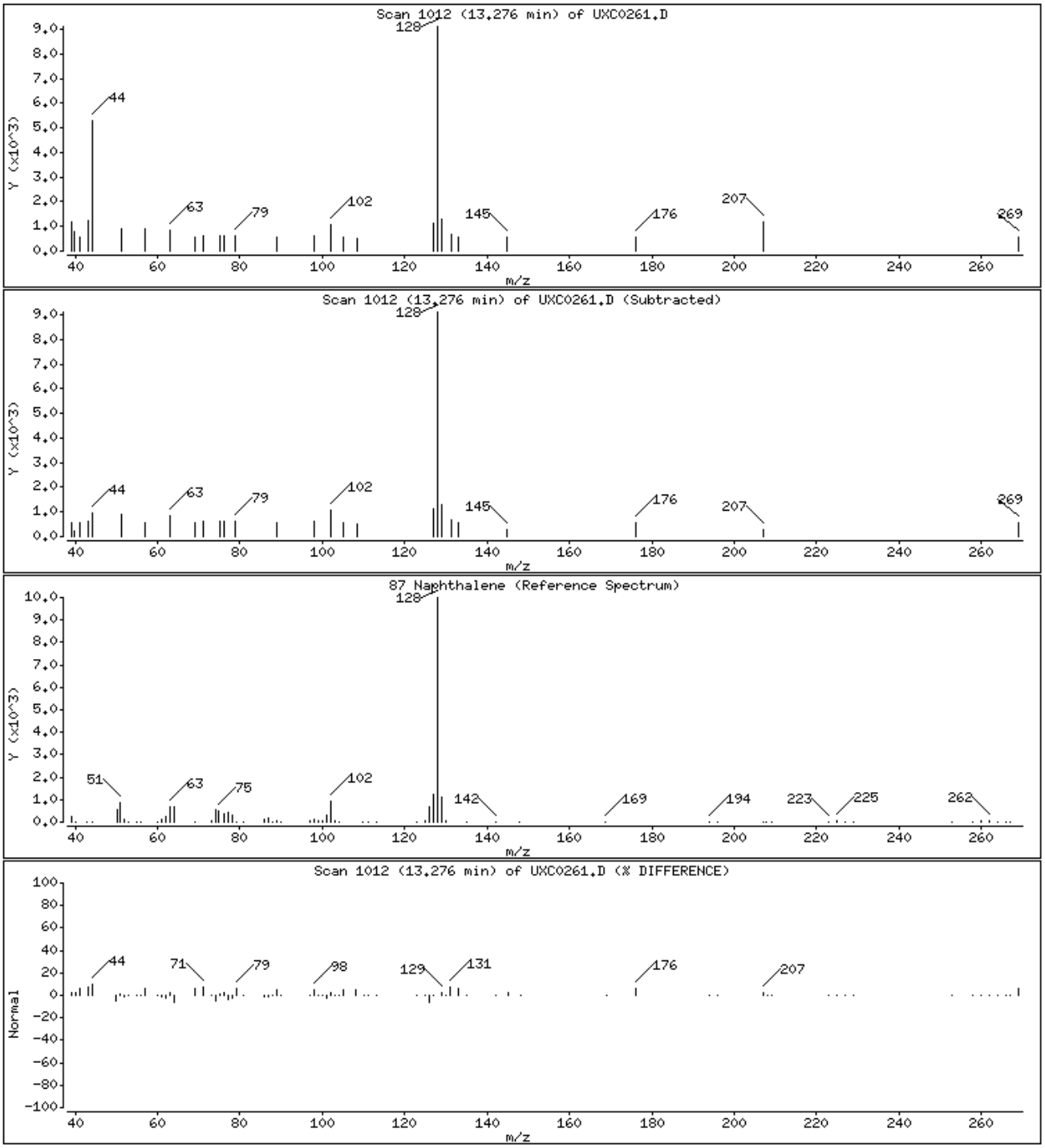
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.1584 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

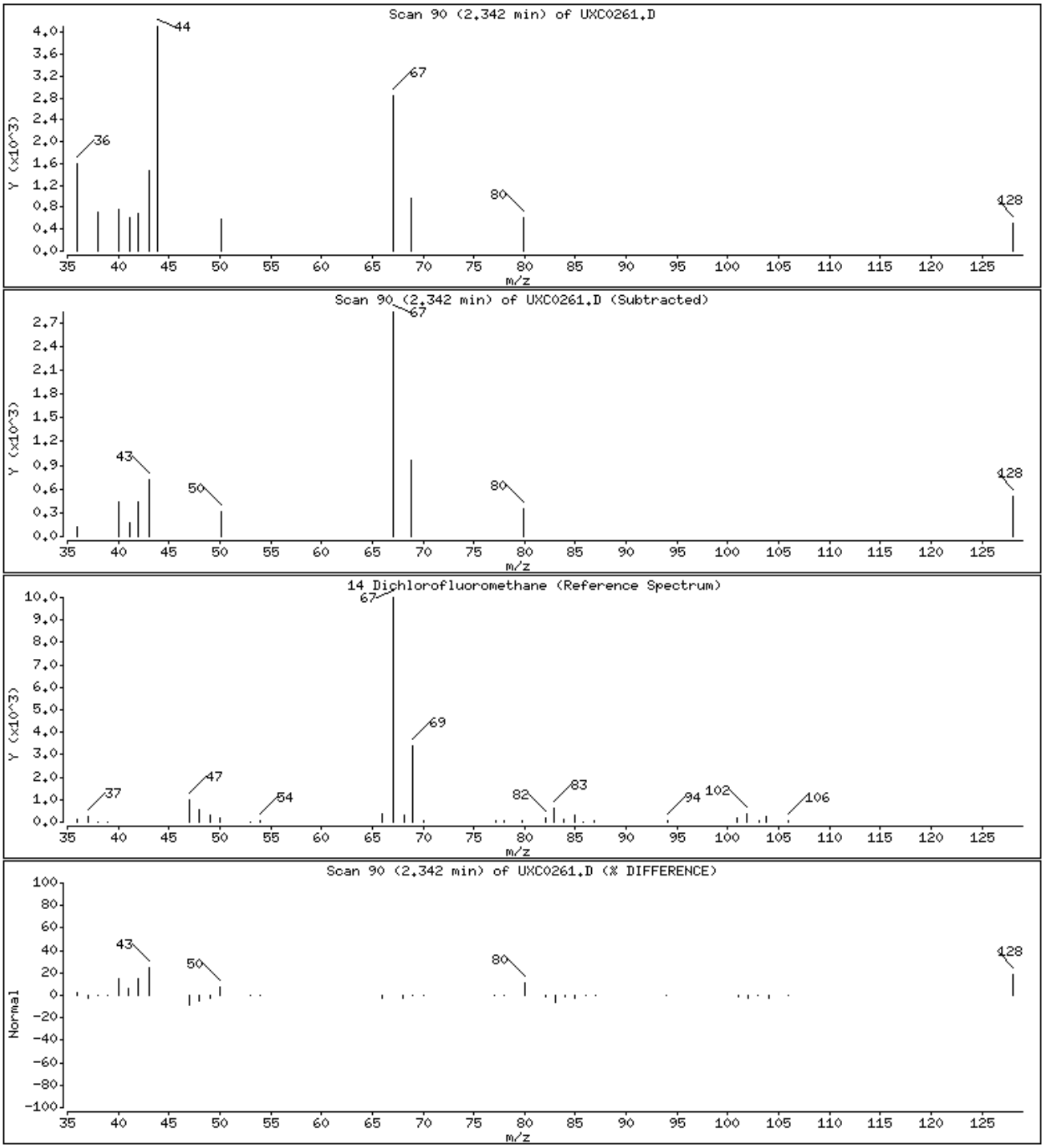
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

14 Dichlorofluoromethane Concentration: 0.1501 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

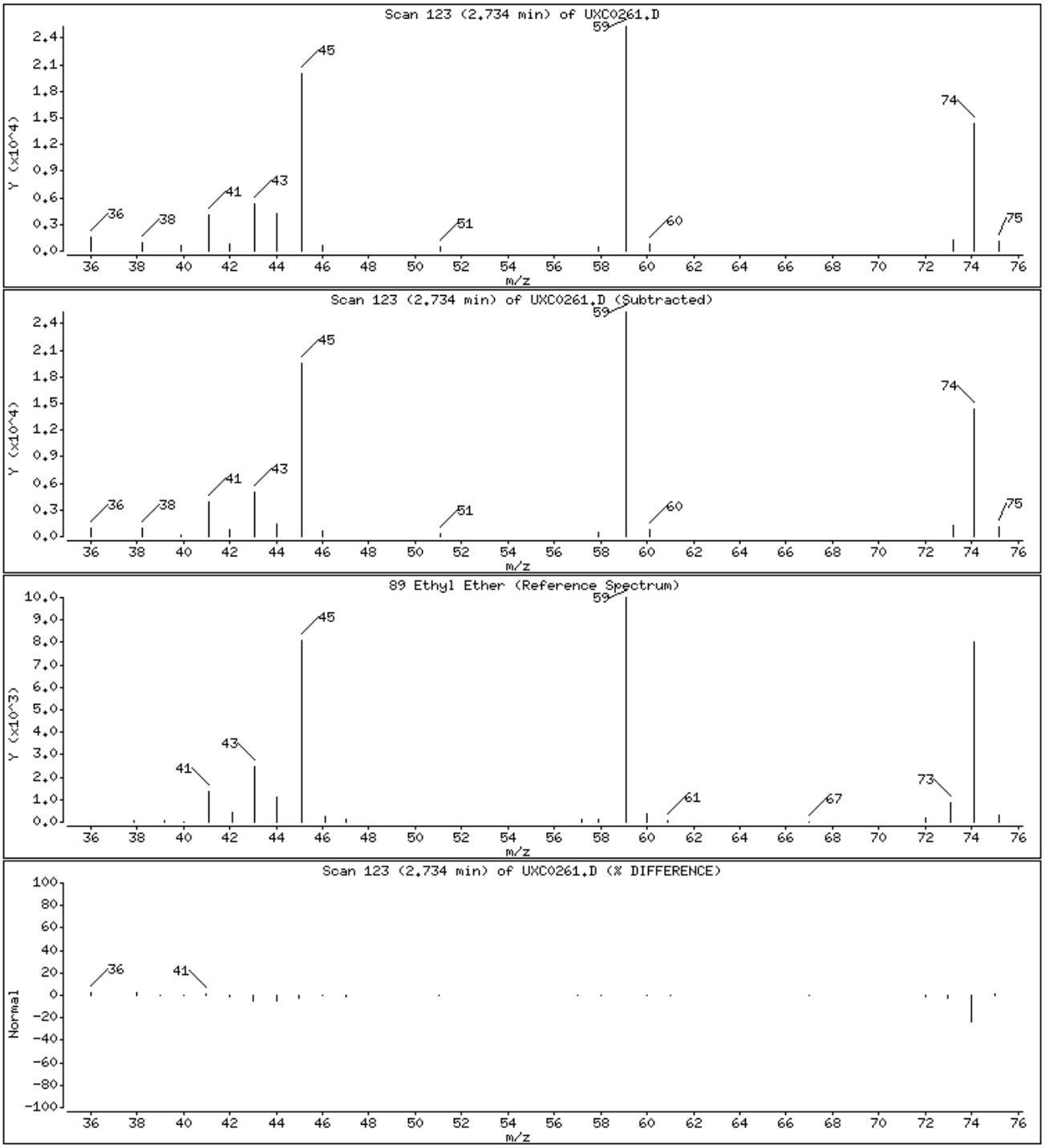
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

89 Ethyl Ether Concentration: 1.734 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0261.D

Date : 30-JUL-2010 15:45

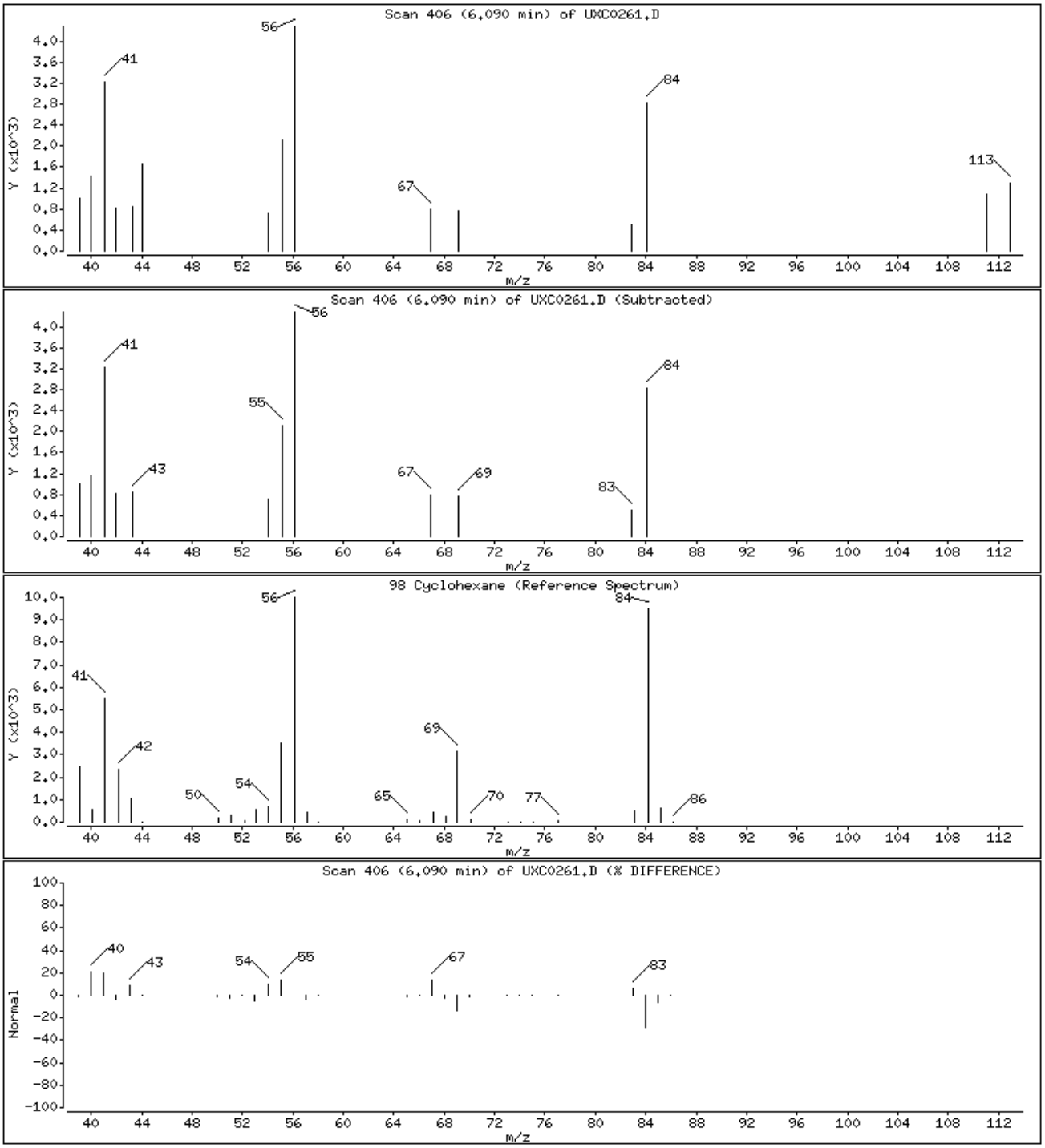
Client ID: OW-22 Instrument: a3ux15.i

Sample Info: L4GJG1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

98 Cyclohexane Concentration: 0.1477 ug/L



Cardinal Resources

Client Sample ID: OW-21

GC/MS Volatiles

Lot-Sample #...: A0G210469-002 **Work Order #...:** L4GJT1AJ **Matrix.....:** WG
Date Sampled...: 07/20/10 11:05 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.71 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**1.9**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW-21

GC/MS Volatiles

Lot-Sample #...: A0G210469-002 **Work Order #...:** L4GJT1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D
Report Date: 02-Aug-2010 10:28

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D
Lab Smp Id: L4GJT1AJ Client Smp ID: OW-21
Inj Date : 30-JUL-2010 16:08
Operator : 43582 Inst ID: a3ux15.i
Smp Info : L4GJT1AJ,5ML/5ML
Misc Info : C00730A-IC,8260LLUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	6.718	6.718	(1.000)	1032668	50.0000	
* 2	Chlorobenzene-d5	117	9.433	9.433	(1.000)	783229	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	457616	50.0000	
$ 4	Dibromofluoromethane	113	6.042	6.042	(0.899)	298339	42.0869	8.417
$ 5	1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	394136	45.0480	9.010
$ 6	Toluene-d8	98	8.188	8.188	(0.868)	1013486	42.6504	8.530
$ 7	Bromofluorobenzene	95	10.429	10.429	(1.106)	343673	40.6032	8.121
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	1.666	1.666	(0.248)	23294	3.55255	0.7105
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					
23	Acrylonitrile	53	Compound Not Detected.					

24	Methyl tert-butyl ether	73	Compound Not Detected.
25	trans-1,2-Dichloroethene	96	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D
Report Date: 02-Aug-2010 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96				8551	1.12974	0.2259
	32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	8551	1.12974	0.2259
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	6.433	6.433	(0.958)	242884	9.61524	1.923
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	11.058	11.070	(0.970)	3964	2.29440	0.4589
	77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	78 sec-Butylbenzene	105	Compound Not Detected.					
	79 4-Isopropyltoluene	119	Compound Not Detected.					

80	1,3-Dichlorobenzene	146	Compound Not Detected.
81	1,4-Dichlorobenzene	146	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D
Report Date: 02-Aug-2010 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D
Report Date: 02-Aug-2010 10:28

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

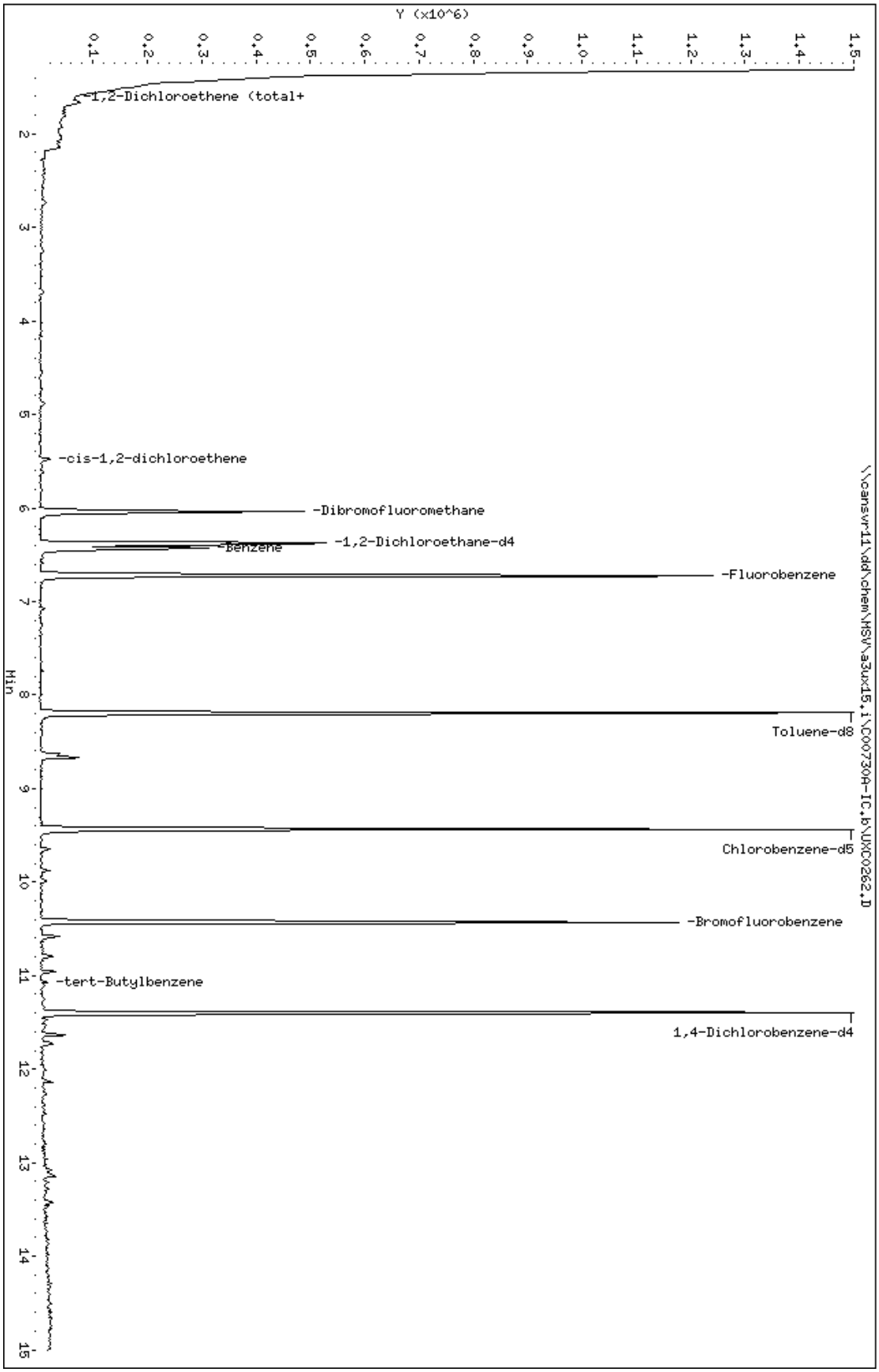
Instrument ID: a3ux15.i
Lab File ID: UXC0262.D
Lab Smp Id: L4GJT1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582

Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Client Smp ID: OW-21
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1032668	1.12
2 Chlorobenzene-d5	769451	384726	1538902	783229	1.79
3 1,4-Dichlorobenze	534878	267439	1069756	457616	-14.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux15,i\C007306-IC,b\UXC0262.D
Date : 30-JUL-2010 16:08
Client ID: OW-21
Sample Info: L4GJT1AJ,5ML/5ML
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15,i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
-1,2-Dichloroethene (total+
-cis-1,2-dichloroethene
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Benzene
-Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-Bromofluorobenzene
-tert-Butylbenzene
1,4-Dichlorobenzene-d4
\\cansvr11\dd\chem\MSV\a3ux15,i\C007306-IC,b\UXC0262.D

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D

Date : 30-JUL-2010 16:08

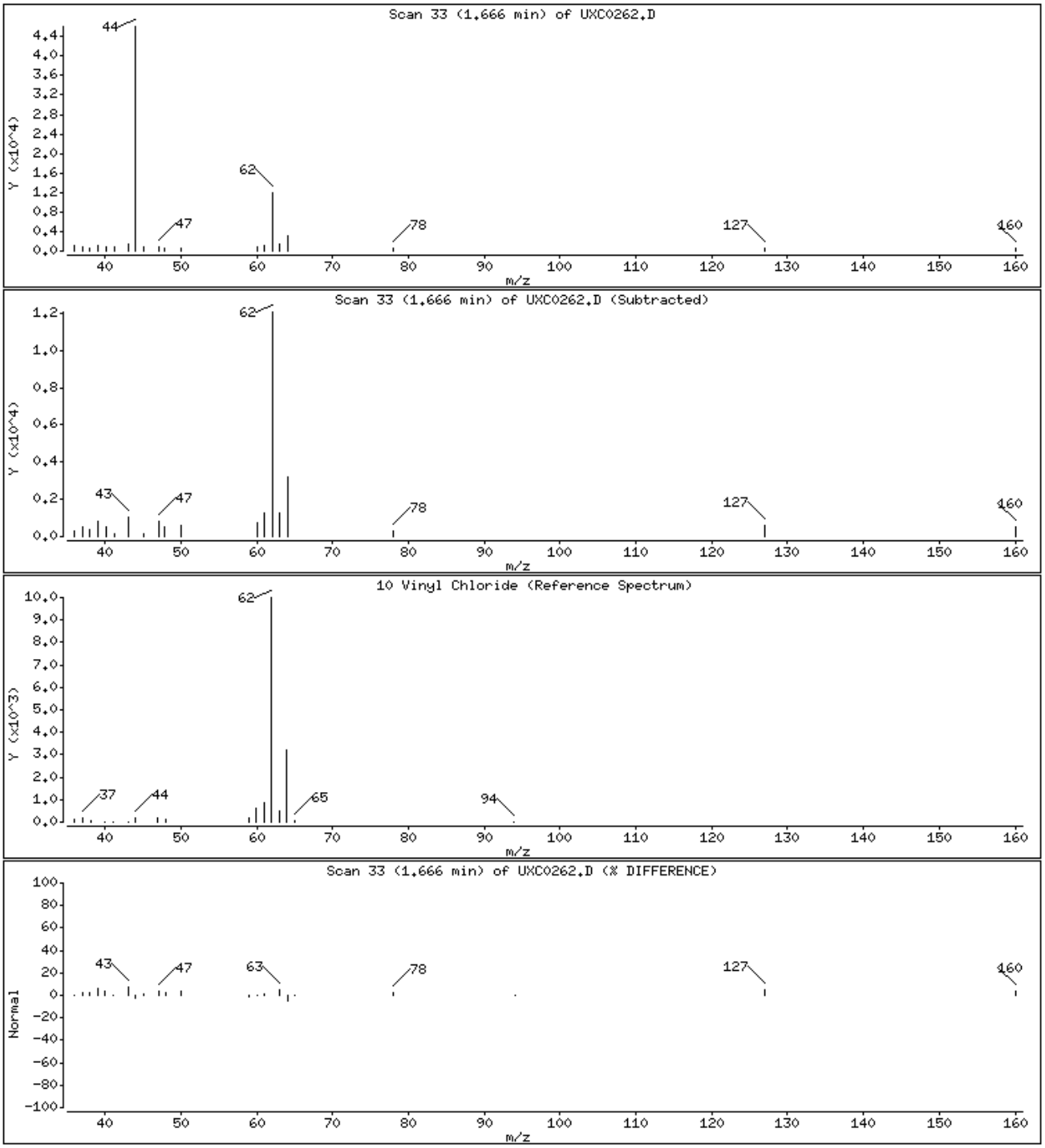
Client ID: OW-21 Instrument: a3ux15.i

Sample Info: L4GJT1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

10 Vinyl Chloride Concentration: 0.7105 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D

Date : 30-JUL-2010 16:08

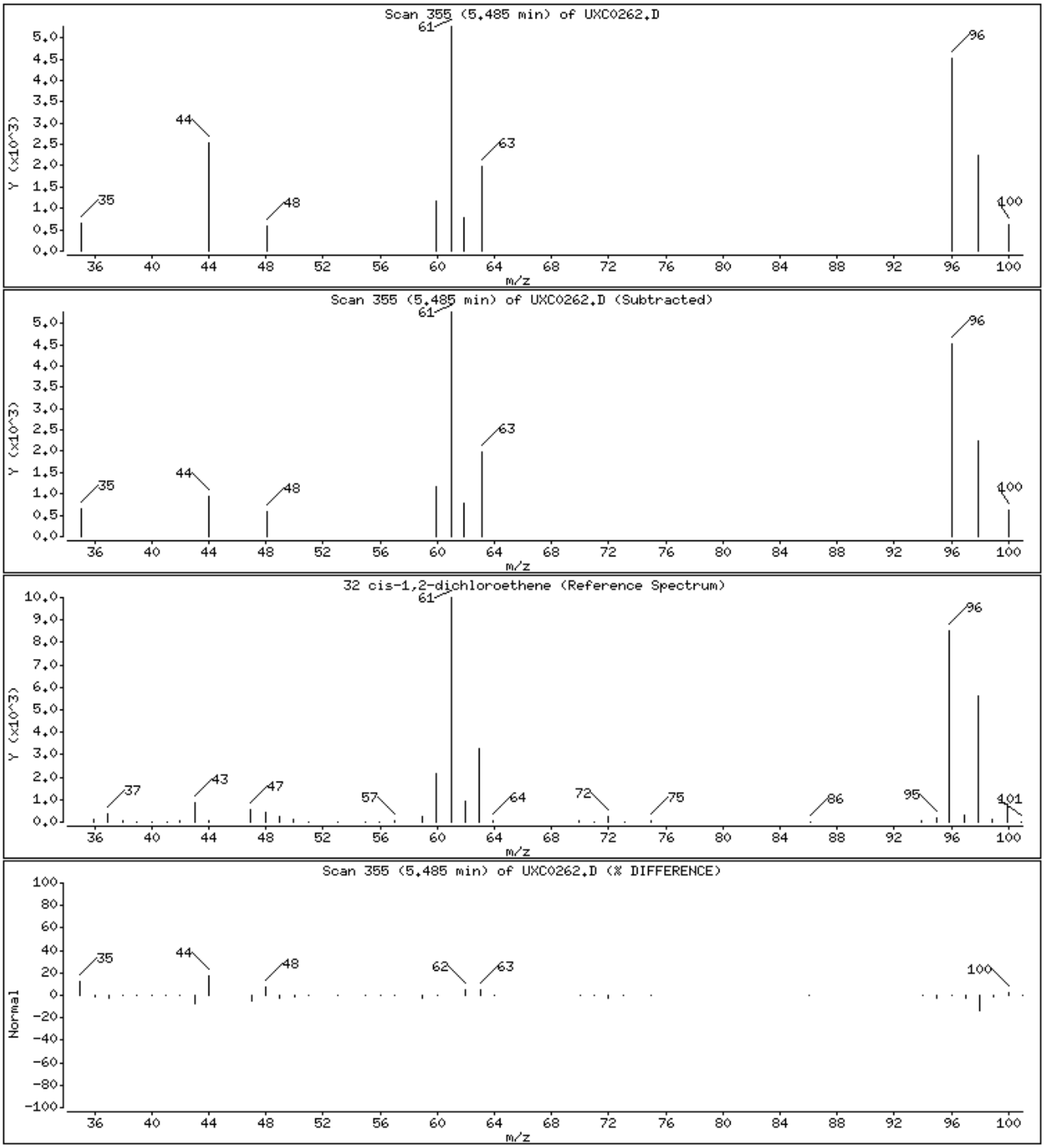
Client ID: OW-21 Instrument: a3ux15.i

Sample Info: L4GJT1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 0.2259 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D

Date : 30-JUL-2010 16:08

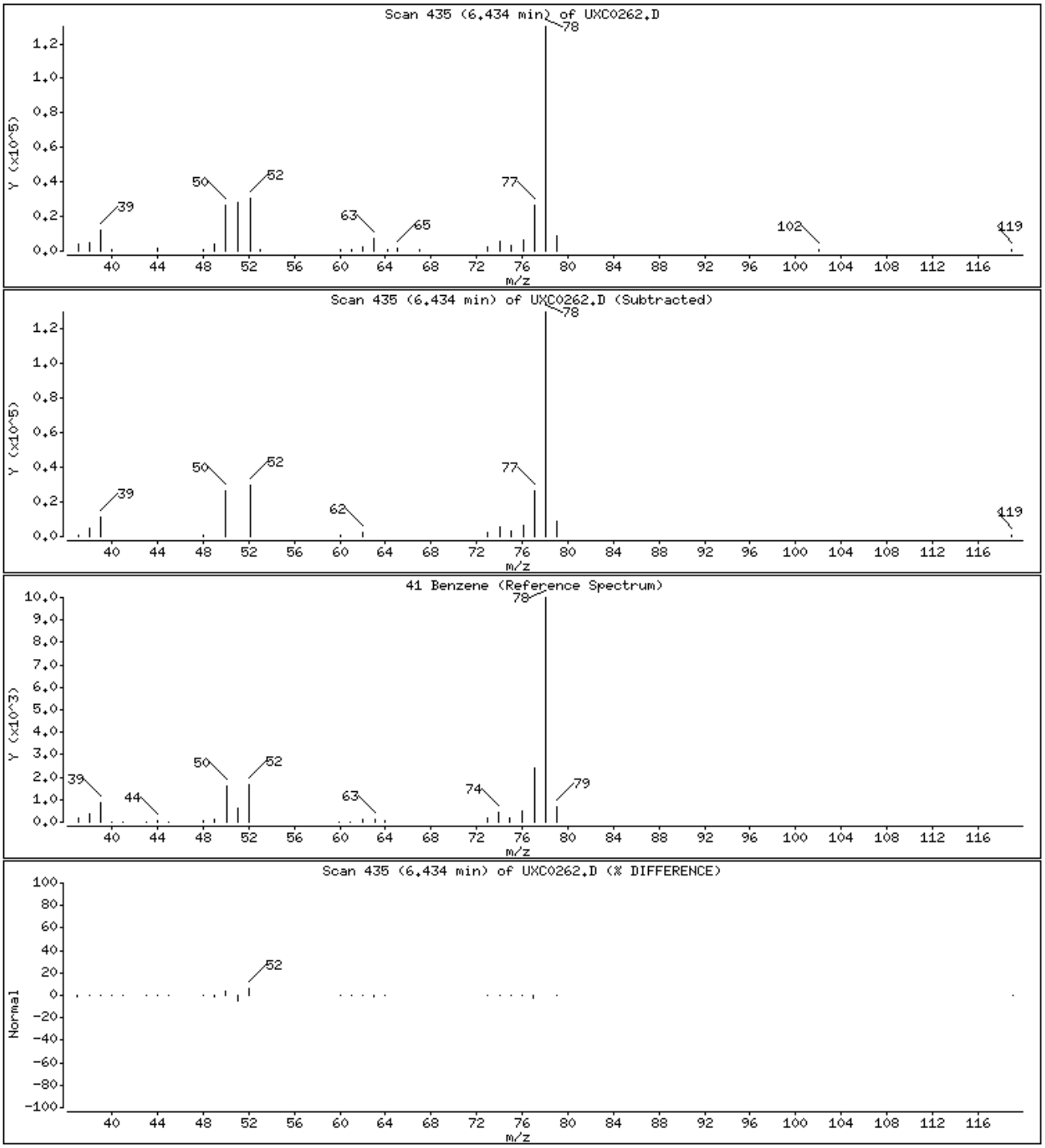
Client ID: OW-21 Instrument: a3ux15.i

Sample Info: L4GJT1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 1.923 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0262.D

Date : 30-JUL-2010 16:08

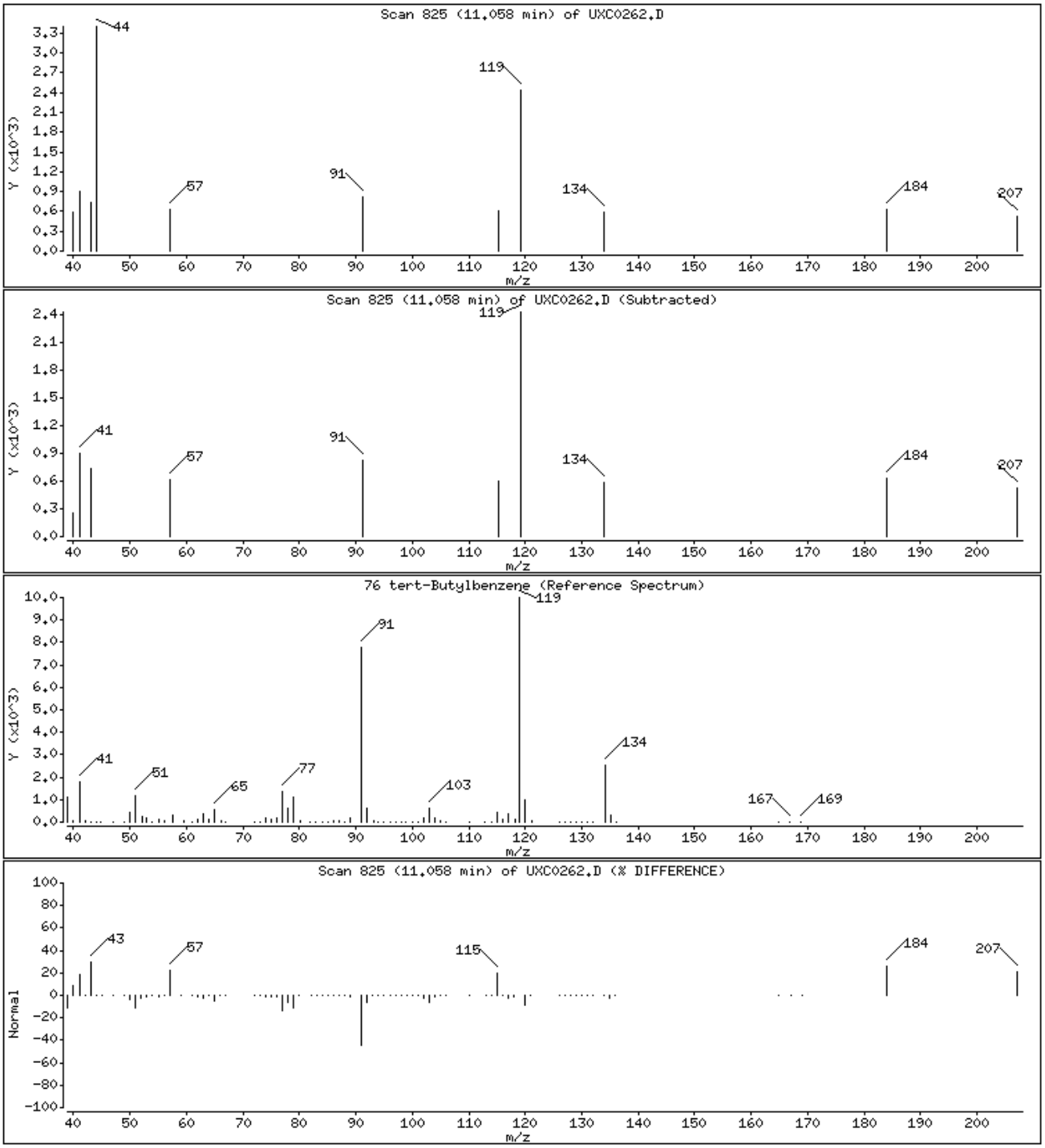
Client ID: OW-21 Instrument: a3ux15.i

Sample Info: L4GJT1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

76 tert-Butylbenzene Concentration: 0.4589 ug/L



Cardinal Resources

Client Sample ID: OW-10R

GC/MS Volatiles

Lot-Sample #...: A0G210469-003 **Work Order #...:** L4GJV1AJ **Matrix.....:** WG
Date Sampled...: 07/20/10 12:20 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.66 J**	**2.0**	**ug/L**
Chloroethane	**0.87 J**	**2.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Acetone	**1.9 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.39 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**4.6**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**0.88 J**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW-10R

GC/MS Volatiles

Lot-Sample #...: A0G210469-003 **Work Order #...:** L4GJV1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D
Report Date: 02-Aug-2010 10:29

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D
Lab Smp Id: L4GJV1AJ Client Smp ID: OW-10R
Inj Date : 30-JUL-2010 16:30
Operator : 43582 Inst ID: a3ux15.i
Smp Info : L4GJV1AJ,5ML/5ML
Misc Info : C00730A-IC,8260LLUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.717	6.718	(1.000)	1045225	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	834407	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	496599	50.0000	
$ 4 Dibromofluoromethane	113	6.042	6.042	(0.899)	300353	41.8620	8.372
$ 5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	416039	46.9802	9.396
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	1038175	41.0098	8.202
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	383854	42.5689	8.514
8 Dichlorodifluoromethane	85	1.500	1.393	(0.223)	9479	1.61177	0.3224
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	1.666	1.666	(0.248)	21862	3.29410	0.6588
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	2.105	2.116	(0.313)	12348	4.34870	0.8697
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.089	3.089	(0.460)	27158	9.37295	1.874
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					
23 Acrylonitrile	53	Compound Not Detected.					

24	Methyl tert-butyl ether	73	Compound Not Detected.
25	trans-1,2-Dichloroethene	96	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D
Report Date: 02-Aug-2010 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96				14872	1.94125	0.3882
	32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	14872	1.94125	0.3882
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	6.433	6.433	(0.958)	586263	22.9300	4.586
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	9.457	9.457	(1.002)	85234	4.39094	0.8782
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	11.070	11.070	(0.971)	4066	2.28518	0.4570
	77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	78 sec-Butylbenzene	105	11.247	11.247	(0.986)	22315	0.78613	0.1572
	79 4-Isopropyltoluene	119	Compound Not Detected.					

80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	11.425	11.425 (1.002)		21792	1.27950	0.2559
82	n-Butylbenzene	91	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D
Report Date: 02-Aug-2010 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	26235	1.60710	0.3214
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D
Report Date: 02-Aug-2010 10:29

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0263.D
Lab Smp Id: L4GJV1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582

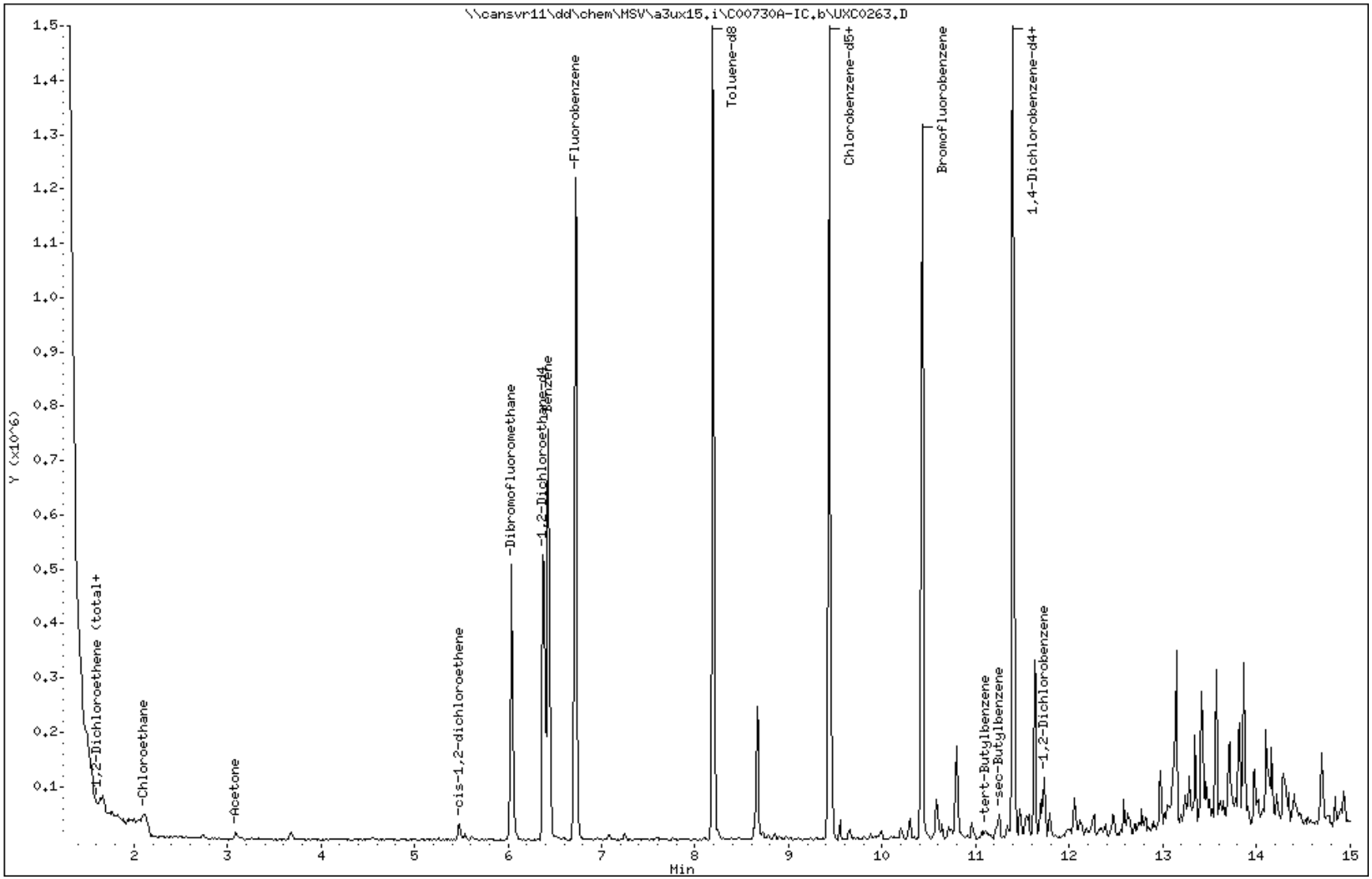
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Client Smp ID: OW-10R
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1045225	2.35
2 Chlorobenzene-d5	769451	384726	1538902	834407	8.44
3 1,4-Dichlorobenze	534878	267439	1069756	496599	-7.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D
Date : 30-JUL-2010 16:30
Client ID: OW-10R
Instrument: a3ux15.i
Sample Info: L4GJW1AJ,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

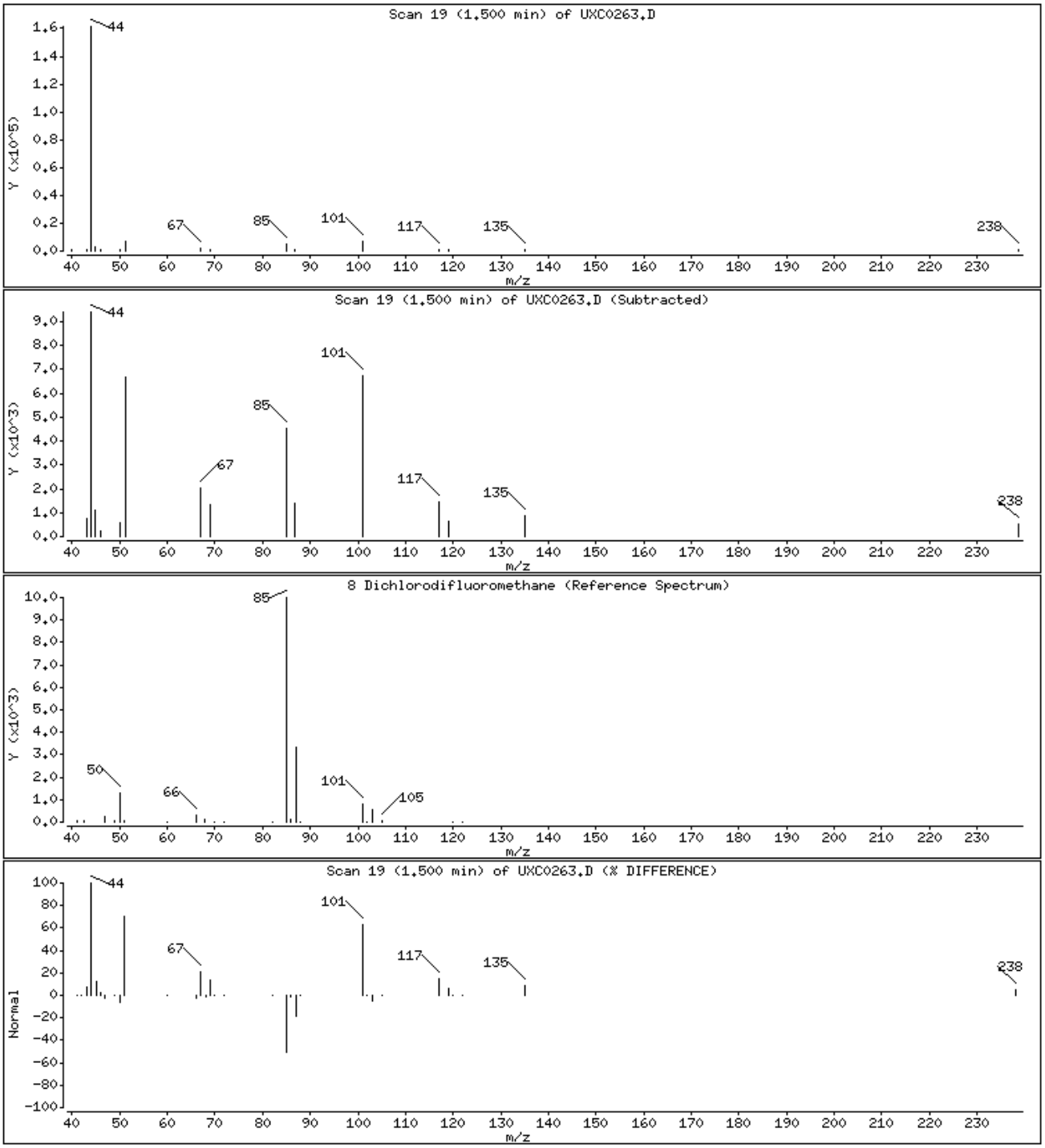
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

8 Dichlorodifluoromethane | Concentration: 0.3224 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

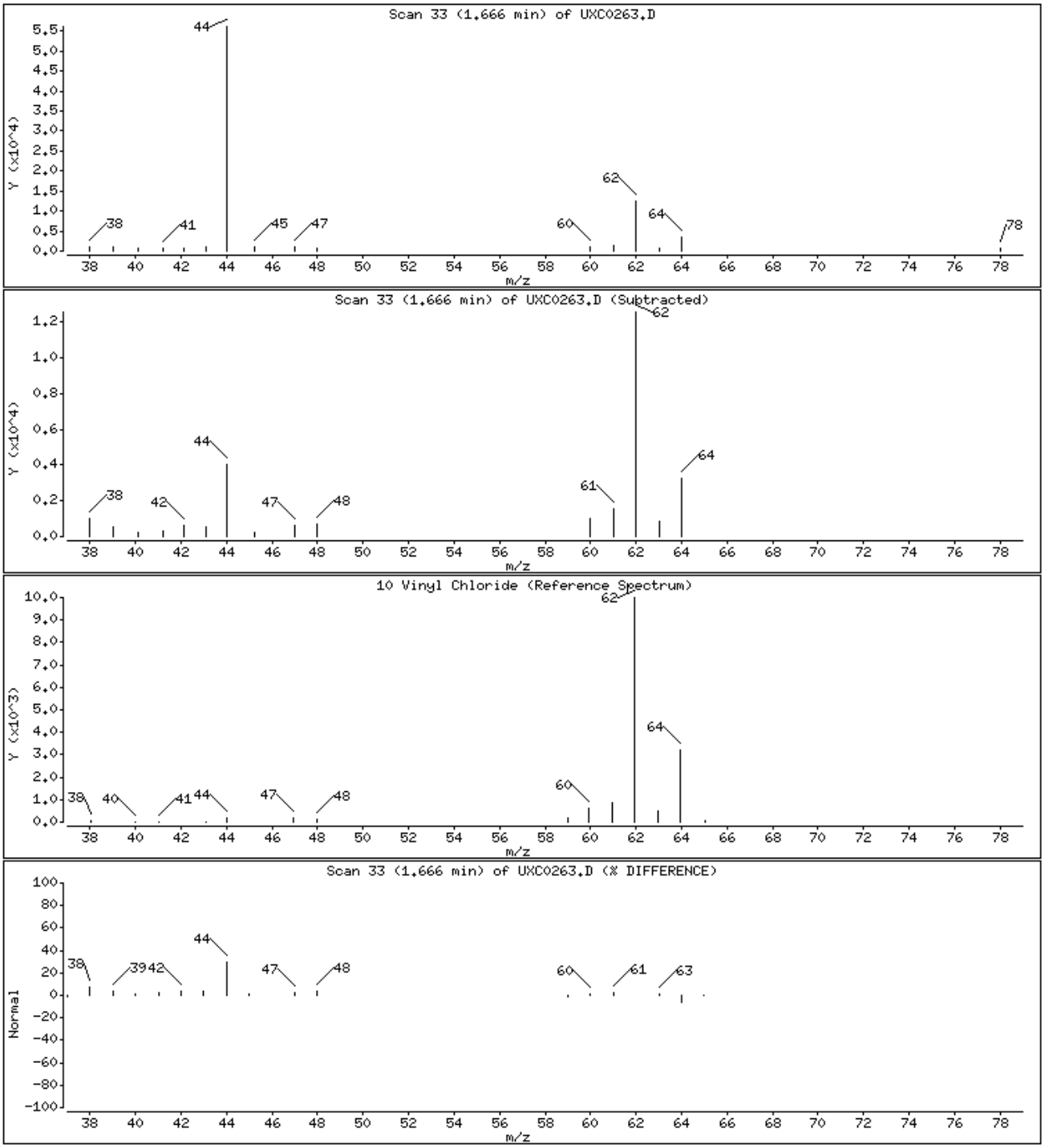
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

10 Vinyl Chloride | Concentration: 0.6588 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

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Client ID: OW-10R

Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0

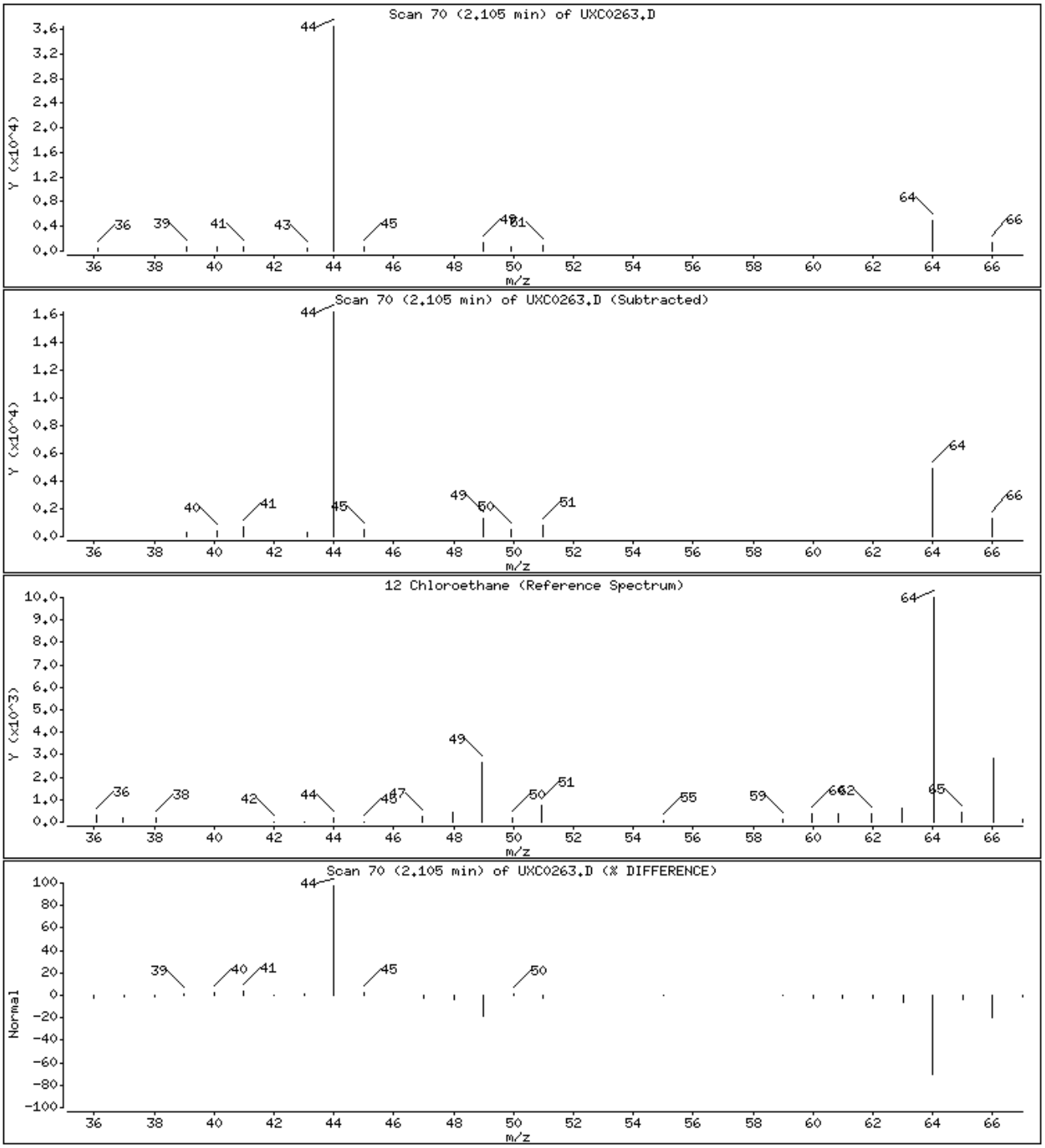
Operator: 43582

Column phase: DB624

Column diameter: 0.18

12 Chloroethane

Concentration: 0.8697 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

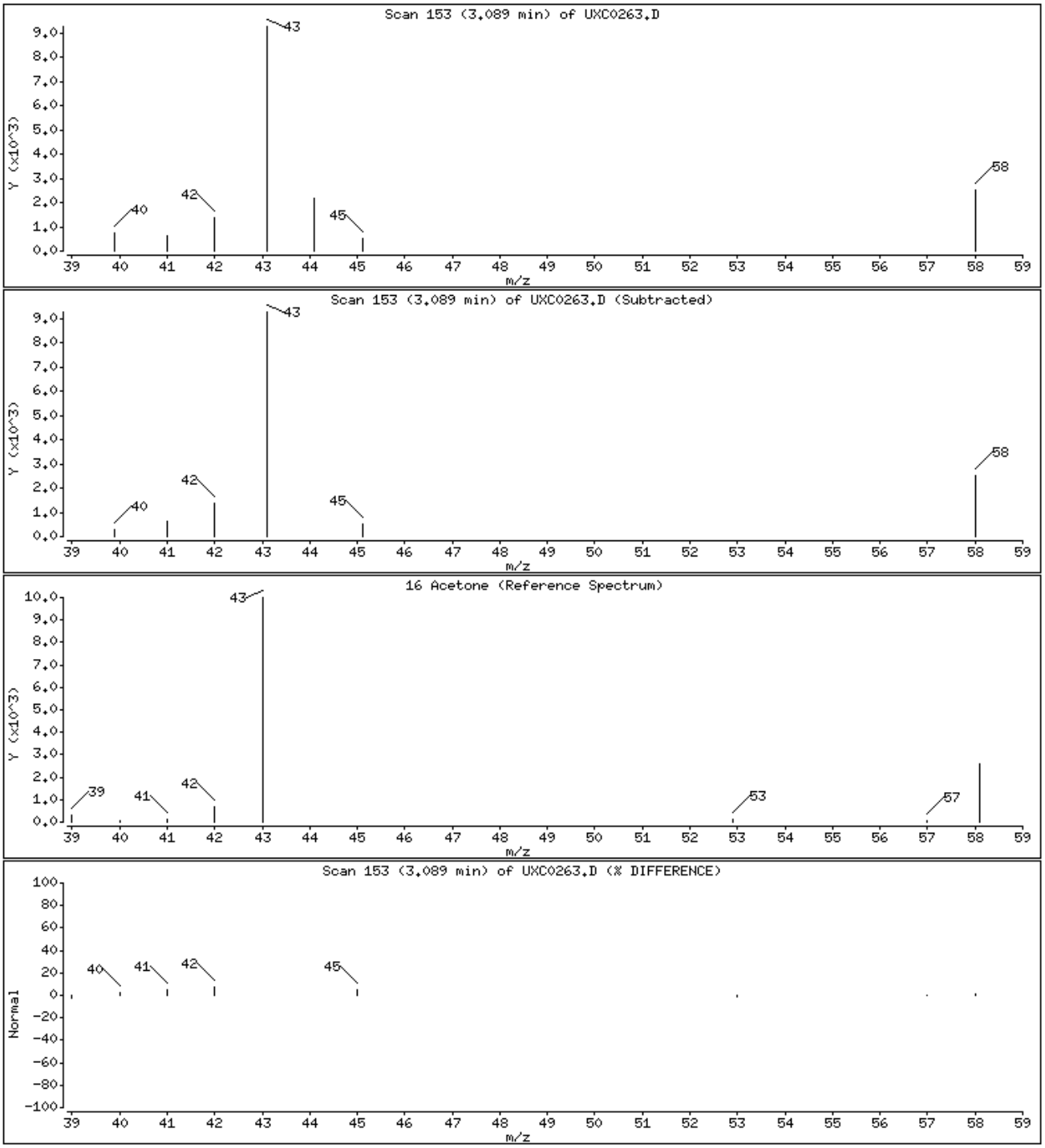
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 1.874 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

Client ID: OW-10R

Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0

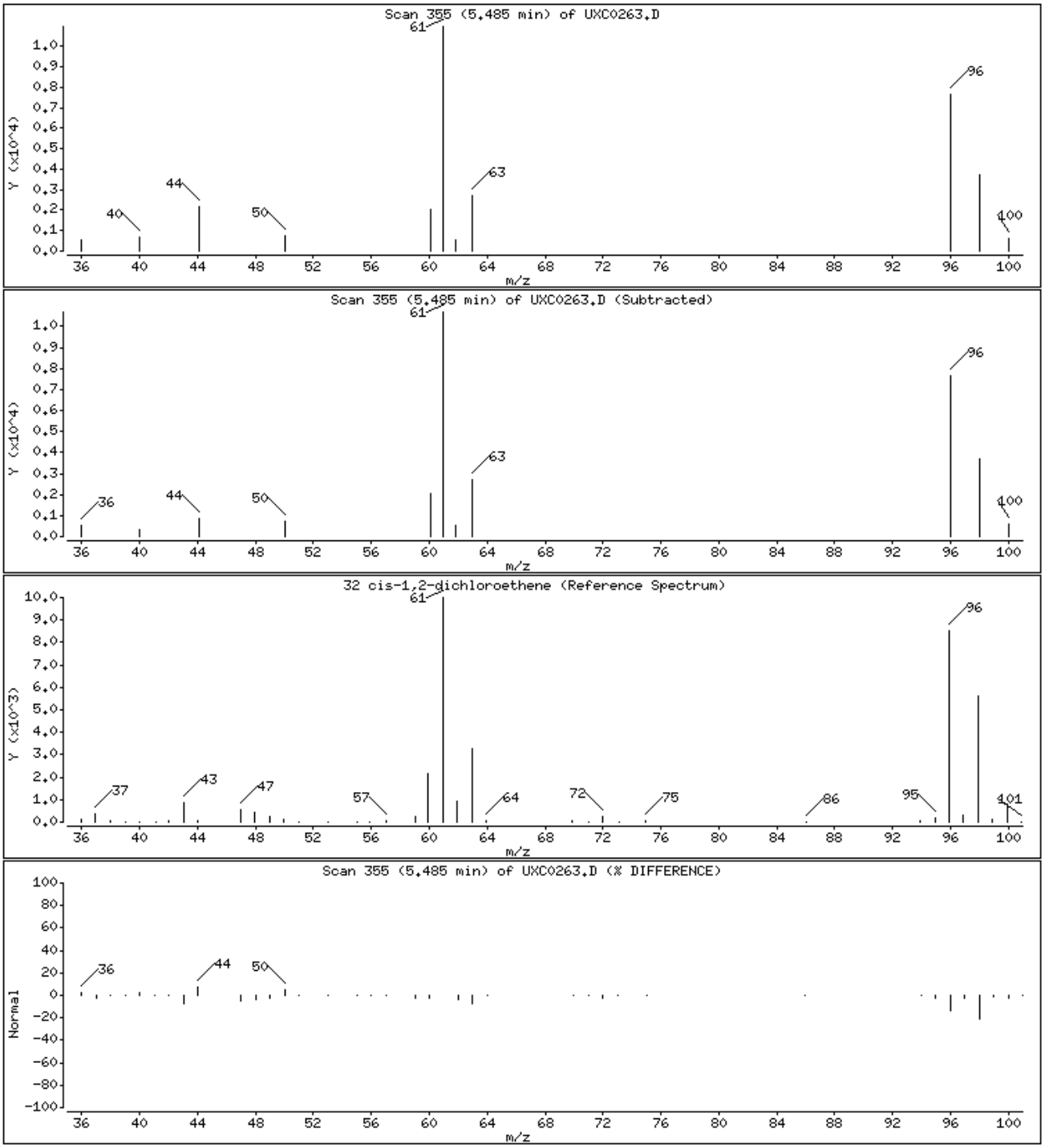
Operator: 43582

Column phase: DB624

Column diameter: 0.18

32 cis-1,2-dichloroethene

Concentration: 0.3882 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

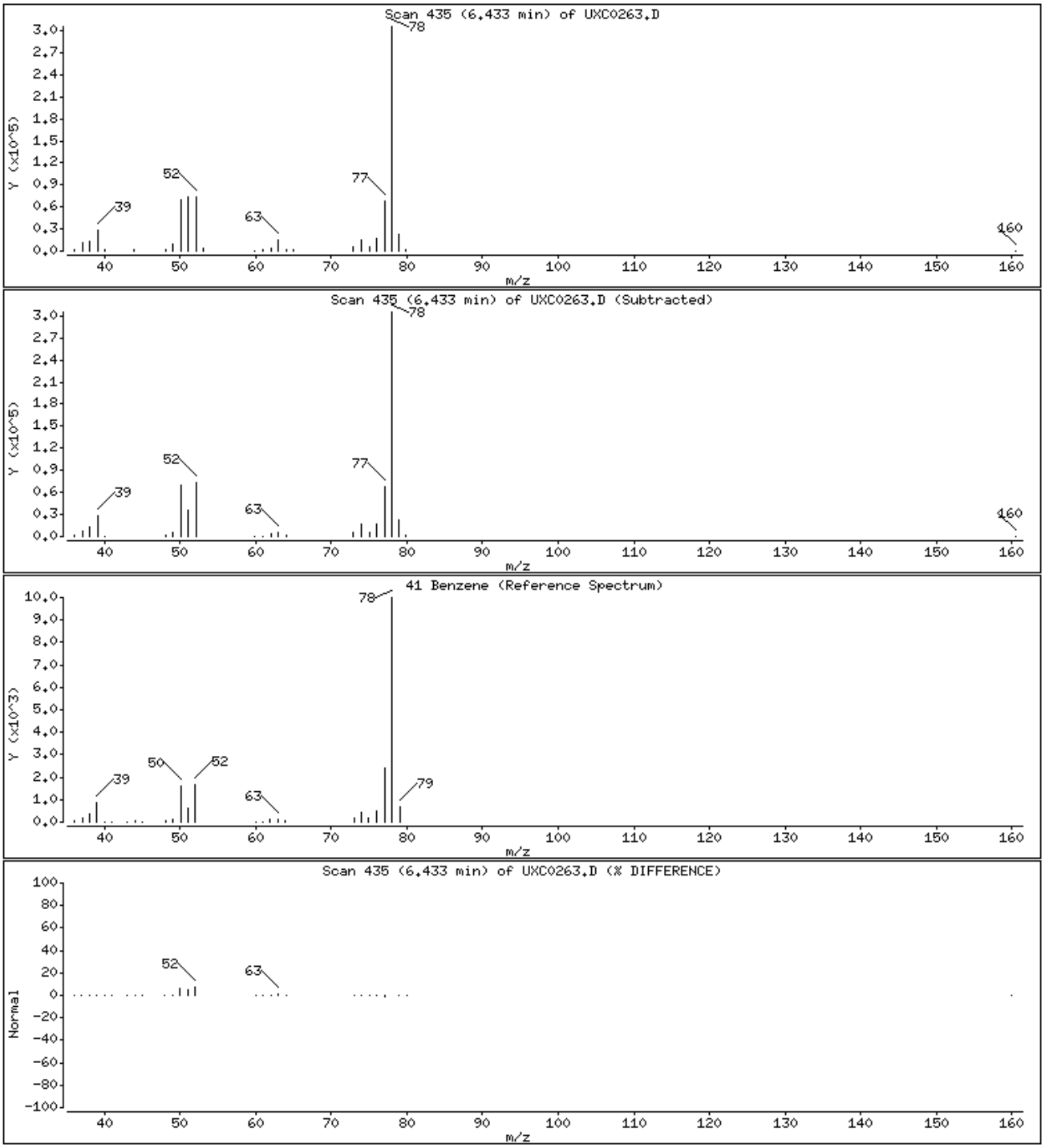
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

41 Benzene | Concentration: 4.586 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

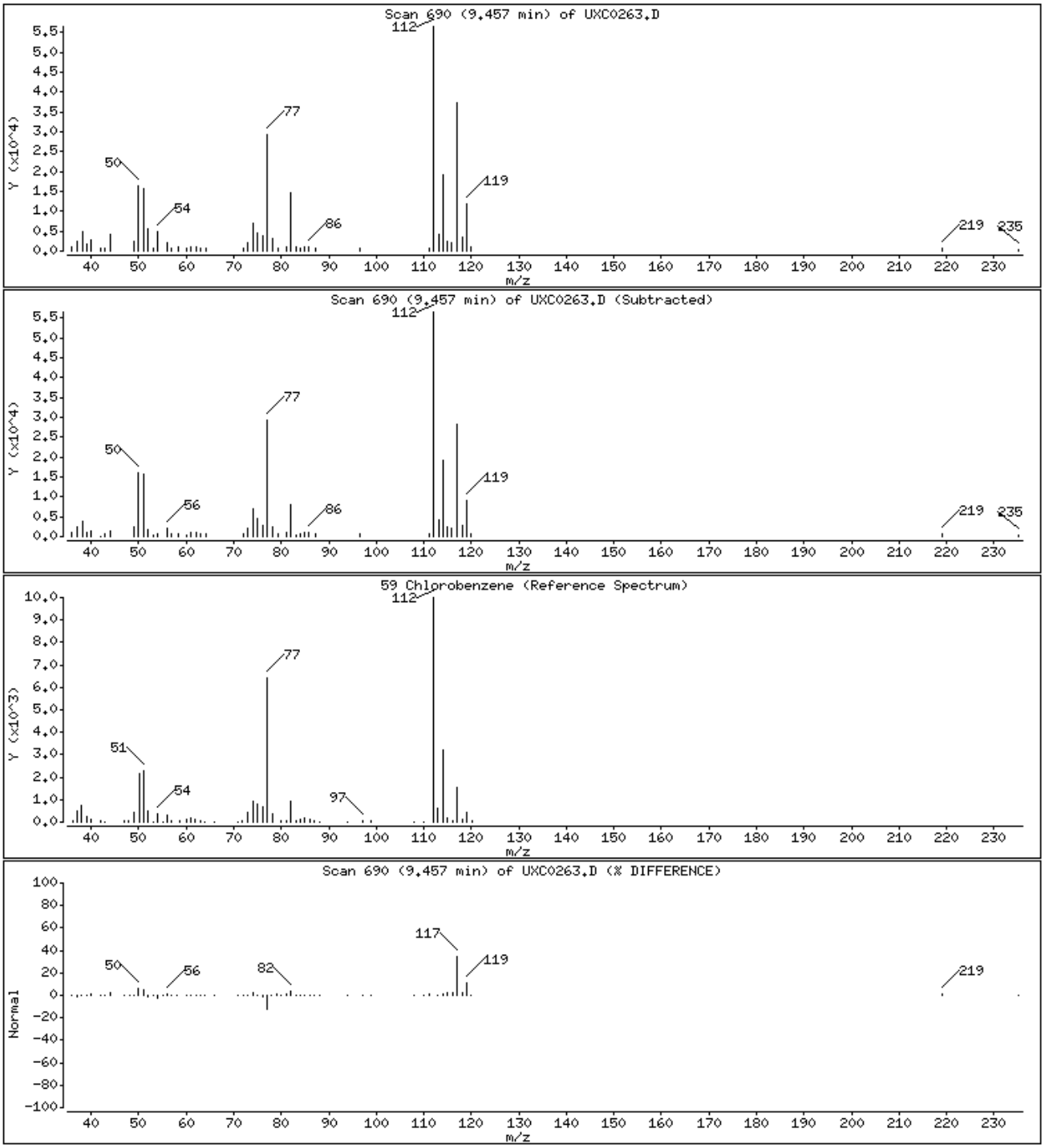
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

59 Chlorobenzene | Concentration: 0.8782 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

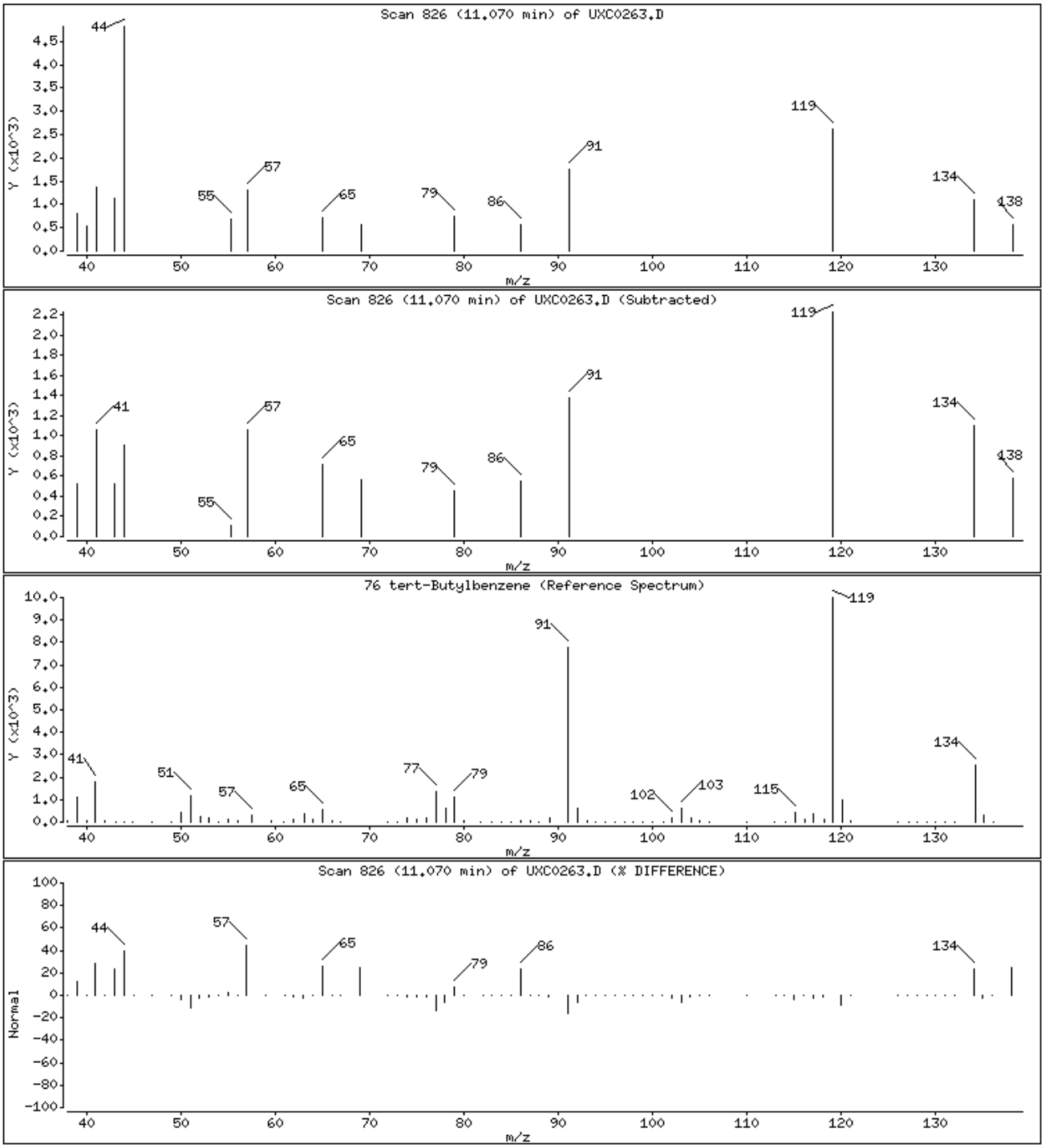
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

76 tert-Butylbenzene | Concentration: 0.4570 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

Client ID: OW-10R

Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0

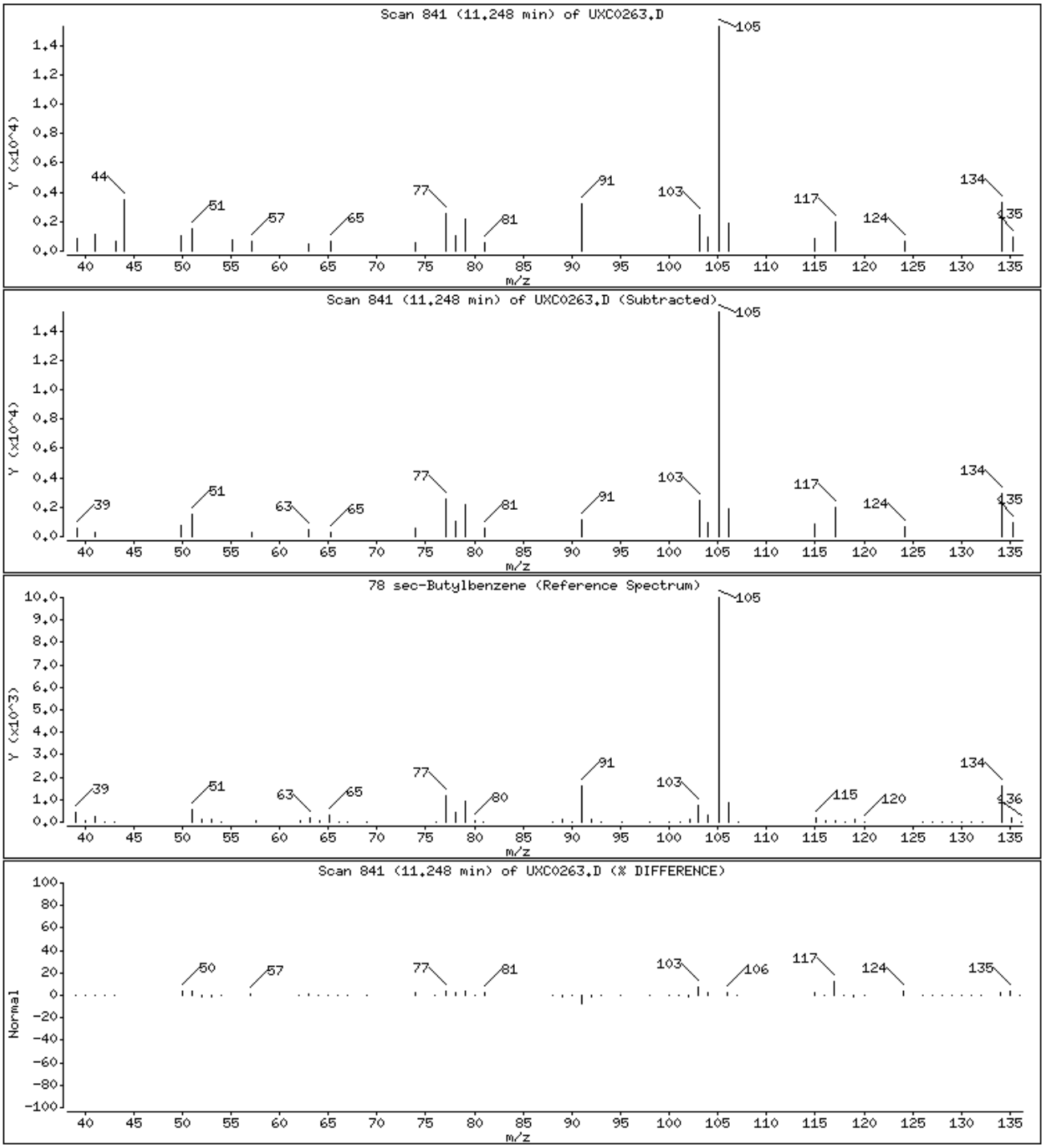
Operator: 43582

Column phase: DB624

Column diameter: 0.18

78 sec-Butylbenzene

Concentration: 0.1572 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

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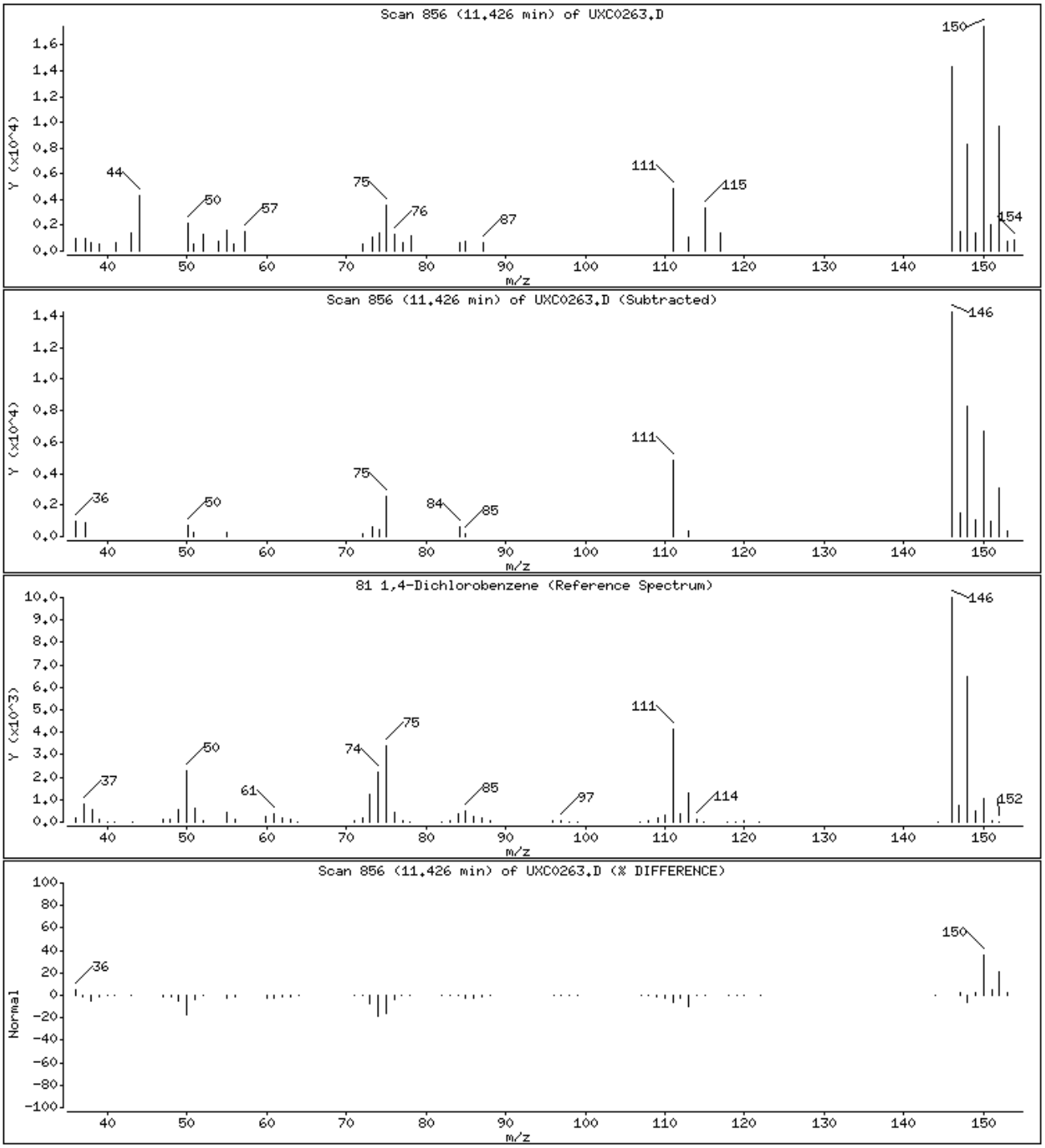
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

81 1,4-Dichlorobenzene | Concentration: 0.2559 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0263.D

Date : 30-JUL-2010 16:30

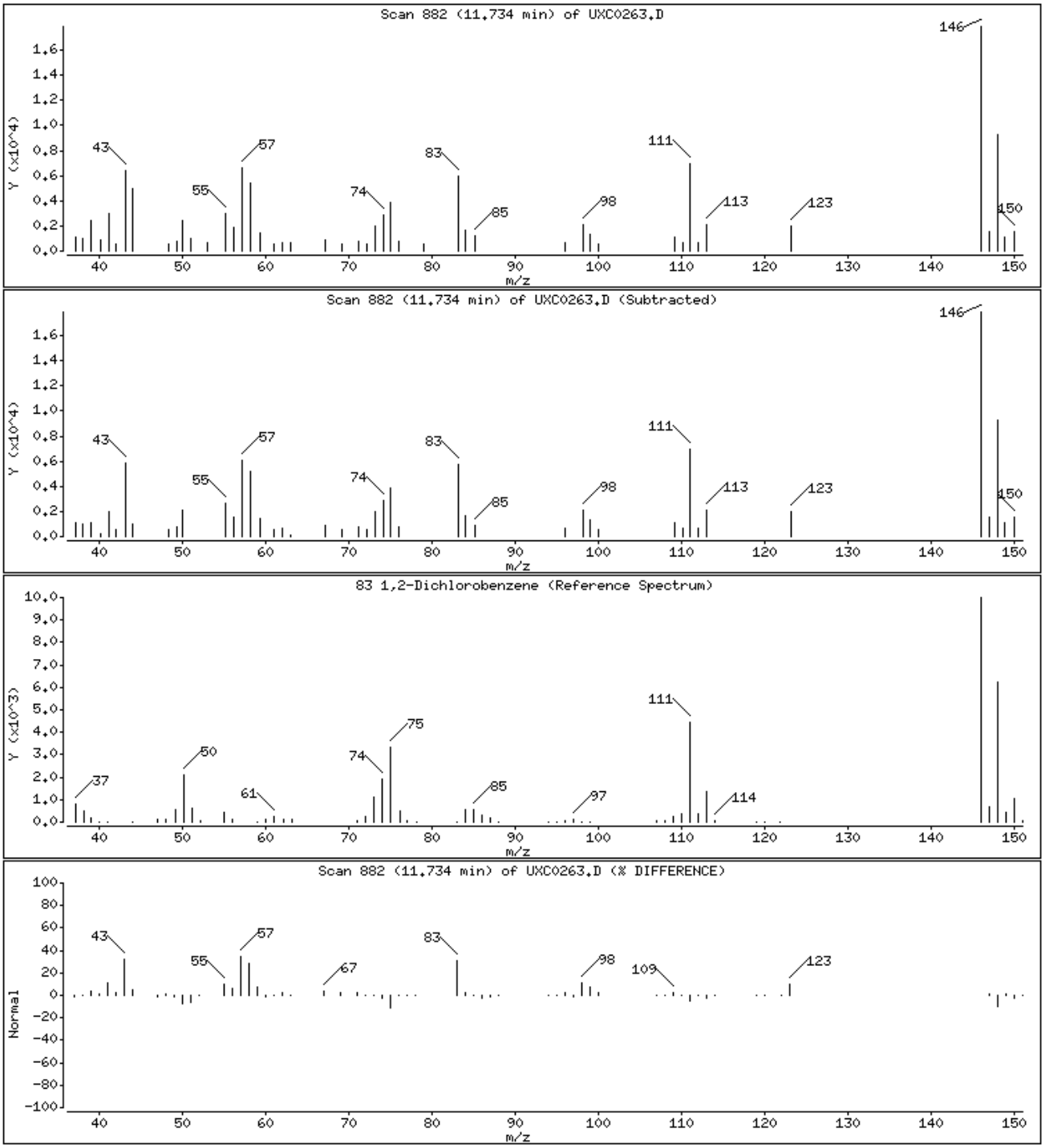
Client ID: OW-10R | Instrument: a3ux15.i

Sample Info: L4GJV1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

83 1,2-Dichlorobenzene | Concentration: 0.3214 ug/L



Cardinal Resources

Client Sample ID: MW4

GC/MS Volatiles

Lot-Sample #...: A0G210469-004 **Work Order #...:** L4GJ01AJ **Matrix.....:** WG
Date Sampled...: 07/20/10 13:45 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**3.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**2.0**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: MW4

GC/MS Volatiles

Lot-Sample #...: A0G210469-004 **Work Order #...:** L4GJ01AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D
Report Date: 02-Aug-2010 10:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D
Lab Smp Id: L4GJ01AJ Client Smp ID: MW4
Inj Date : 30-JUL-2010 16:52
Operator : 43582 Inst ID: a3ux15.i
Smp Info : L4GJ01AJ,5ML/5ML
Misc Info : C00730A-IC,8260LLUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.717	6.718	(1.000)	992193	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	761313	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	463533	50.0000	
$ 4 Dibromofluoromethane	113	6.042	6.042	(0.899)	278540	40.8968	8.179
$ 5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	392380	46.6768	9.335
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	979575	42.4101	8.482
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	348701	42.3832	8.477
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.089	3.089	(0.460)	37871	17.0441	3.409
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					
23 Acrylonitrile	53	Compound Not Detected.					

24	Methyl tert-butyl ether	73	Compound Not Detected.
25	trans-1,2-Dichloroethene	96	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D
Report Date: 02-Aug-2010 10:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
26	Hexane	86	Compound Not Detected.					
27	Vinyl acetate	43	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
30	2-Butanone	43	Compound Not Detected.					
M 31	1,2-Dichloroethene (total)	96	Compound Not Detected.					
32	cis-1,2-dichloroethene	96	Compound Not Detected.					
33	2,2-Dichloropropane	77	Compound Not Detected.					
34	Bromochloromethane	128	Compound Not Detected.					
35	Chloroform	83	Compound Not Detected.					
36	Tetrahydrofuran	42	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	1,1-Dichloropropene	75	Compound Not Detected.					
39	Carbon Tetrachloride	117	Compound Not Detected.					
40	1,2-Dichloroethane	62	Compound Not Detected.					
41	Benzene	78	6.433	6.433	(0.958)	243773	10.0441	2.009
42	Trichloroethene	130	Compound Not Detected.					
43	1,2-Dichloropropane	63	Compound Not Detected.					
45	Dibromomethane	93	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48	cis-1,3-Dichloropropene	75	Compound Not Detected.					
49	4-Methyl-2-pentanone	43	Compound Not Detected.					
50	Toluene	91	Compound Not Detected.					
51	trans-1,3-Dichloropropene	75	Compound Not Detected.					
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	Compound Not Detected.					
54	1,3-Dichloropropane	76	Compound Not Detected.					
55	Tetrachloroethene	164	Compound Not Detected.					
56	2-Hexanone	43	Compound Not Detected.					
57	Dibromochloromethane	129	Compound Not Detected.					
58	1,2-Dibromoethane	107	Compound Not Detected.					
59	Chlorobenzene	112	Compound Not Detected.					
60	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
61	Ethylbenzene	106	Compound Not Detected.					
62	m + p-Xylene	106	Compound Not Detected.					
M 63	Xylenes (total)	106	Compound Not Detected.					
64	Xylene-o	106	Compound Not Detected.					
65	Styrene	104	Compound Not Detected.					
66	Bromoform	173	Compound Not Detected.					
67	Isopropylbenzene	105	Compound Not Detected.					
68	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
69	1,4-Dichloro-2-butene	53	Compound Not Detected.					
70	1,2,3-Trichloropropane	110	Compound Not Detected.					
71	Bromobenzene	156	Compound Not Detected.					
72	n-Propylbenzene	120	Compound Not Detected.					
73	2-Chlorotoluene	126	Compound Not Detected.					
74	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
75	4-Chlorotoluene	126	Compound Not Detected.					
76	tert-Butylbenzene	119	Compound Not Detected.					
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					

80	1,3-Dichlorobenzene	146	Compound Not Detected.
81	1,4-Dichlorobenzene	146	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D
Report Date: 02-Aug-2010 10:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D
Report Date: 02-Aug-2010 10:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0264.D
Lab Smp Id: L4GJ01AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582

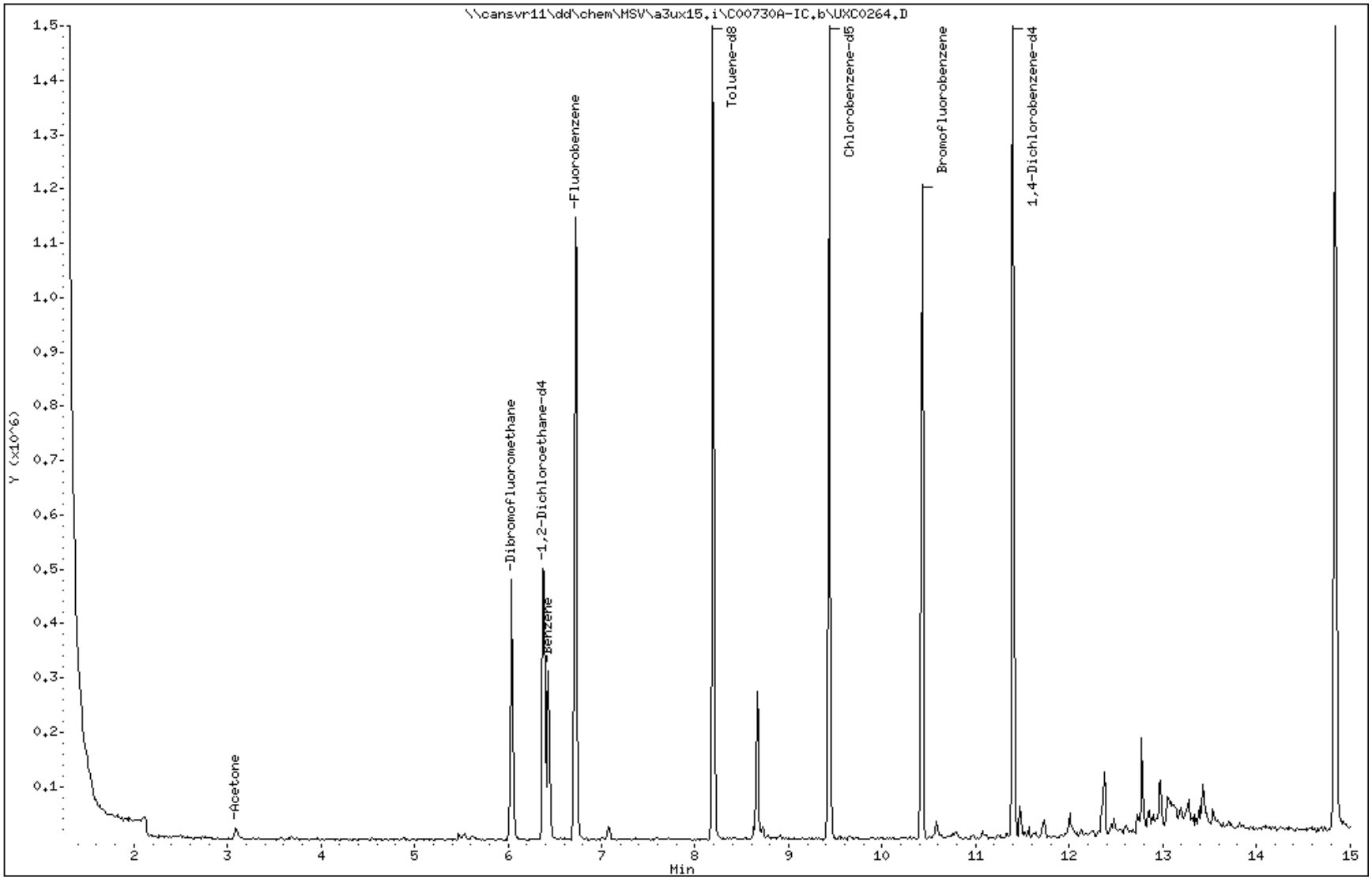
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Client Smp ID: MW4
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	992193	-2.84
2 Chlorobenzene-d5	769451	384726	1538902	761313	-1.06
3 1,4-Dichlorobenze	534878	267439	1069756	463533	-13.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D
Date : 30-JUL-2010 16:52
Client ID: MW4
Instrument: a3ux15.i
Sample Info: L4GJ01AJ,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D

Date : 30-JUL-2010 16:52

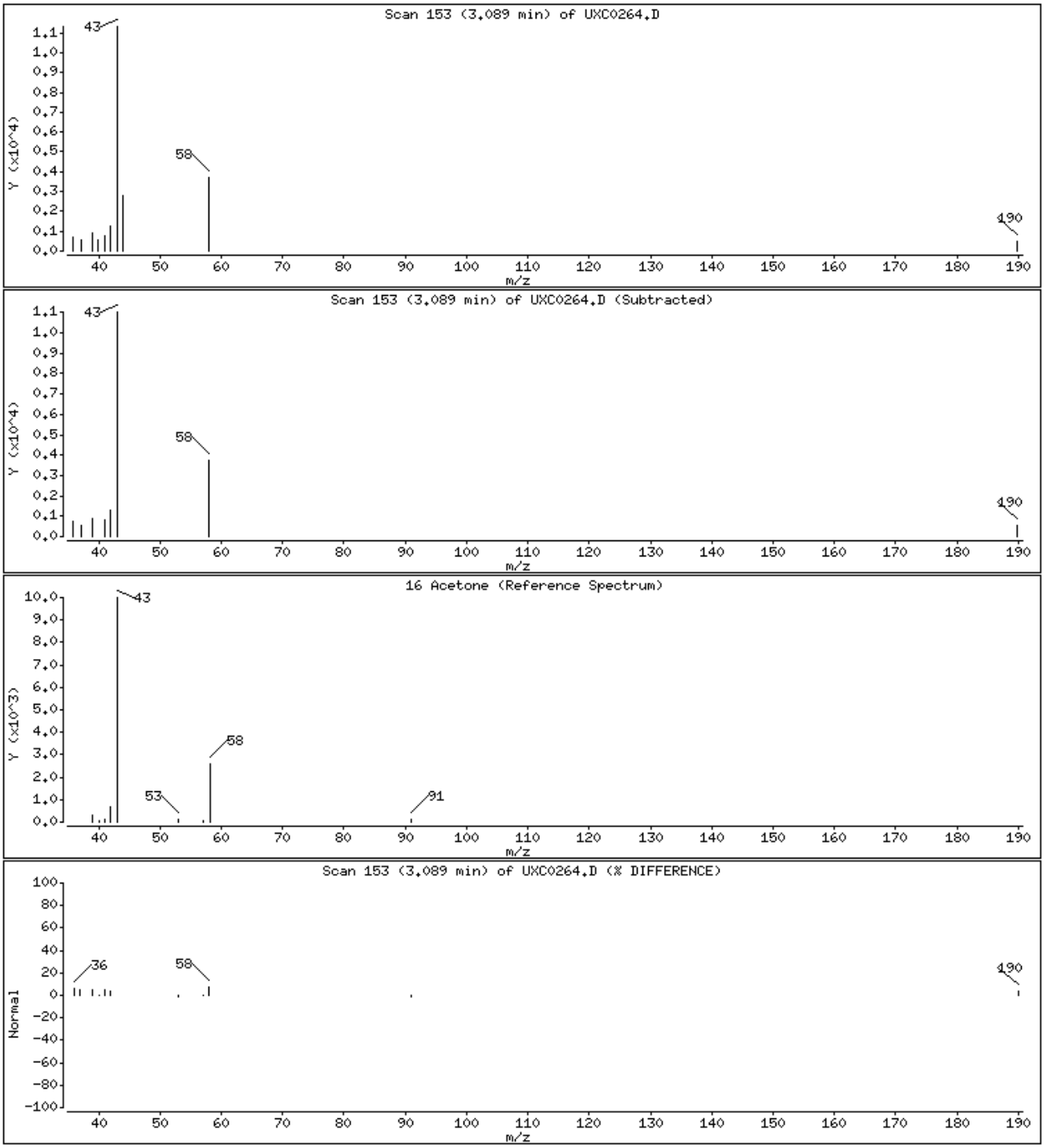
Client ID: MW4 Instrument: a3ux15.i

Sample Info: L4GJ01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 3.409 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0264.D

Date : 30-JUL-2010 16:52

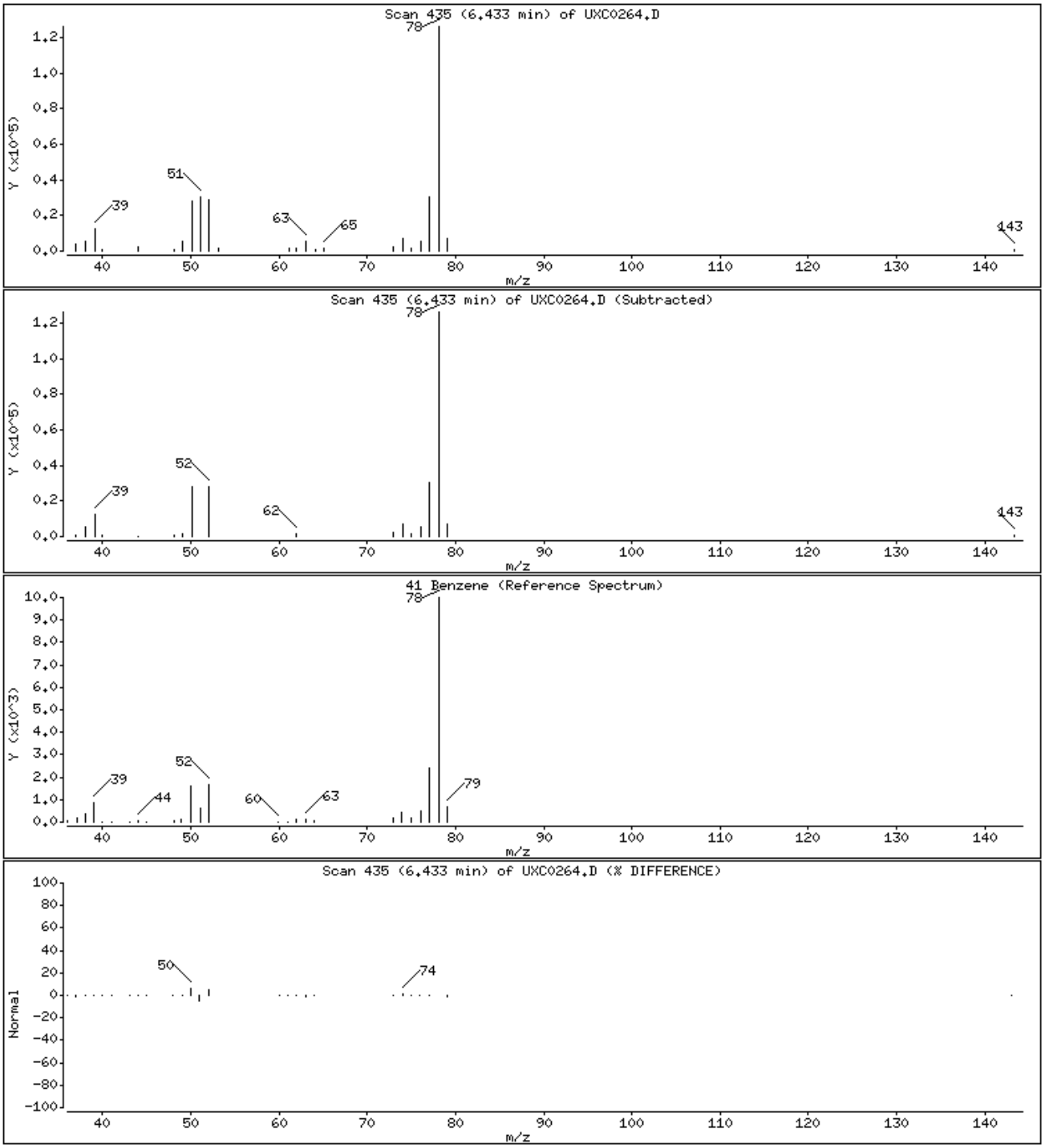
Client ID: MW4 Instrument: a3ux15.i

Sample Info: L4GJ01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 2.009 ug/L



Cardinal Resources

Client Sample ID: OW8

GC/MS Volatiles

Lot-Sample #...: A0G210469-005 **Work Order #...:** L4GJ11AJ **Matrix.....:** WG
Date Sampled...: 07/20/10 15:00 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.9 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW8

GC/MS Volatiles

Lot-Sample #...: A0G210469-005 **Work Order #...:** L4GJ11AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0265.D
Report Date: 02-Aug-2010 10:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0265.D
Lab Smp Id: L4GJ11AJ Client Smp ID: OW8
Inj Date : 30-JUL-2010 17:15
Operator : 43582 Inst ID: a3ux15.i
Smp Info : L4GJ11AJ,5ML/5ML
Misc Info : C00730A-IC,8260LLUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.717	6.718	(1.000)	1020350	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	778497	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	447828	50.0000	
$ 4 Dibromofluoromethane	113	6.042	6.042	(0.899)	283411	40.4637	8.093
$ 5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	402640	46.5755	9.315
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	999288	42.3086	8.462
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	343265	40.8015	8.160
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.089	3.089	(0.460)	26393	9.29974	1.860
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					
23 Acrylonitrile	53	Compound Not Detected.					

24	Methyl tert-butyl ether	73	Compound Not Detected.
25	trans-1,2-Dichloroethene	96	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0265.D
Report Date: 02-Aug-2010 10:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	Compound Not Detected.					
	77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	78 sec-Butylbenzene	105	Compound Not Detected.					
	79 4-Isopropyltoluene	119	Compound Not Detected.					

80	1,3-Dichlorobenzene	146	Compound Not Detected.
81	1,4-Dichlorobenzene	146	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0265.D
Report Date: 02-Aug-2010 10:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0265.D
Report Date: 02-Aug-2010 10:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0265.D
Lab Smp Id: L4GJ11AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582

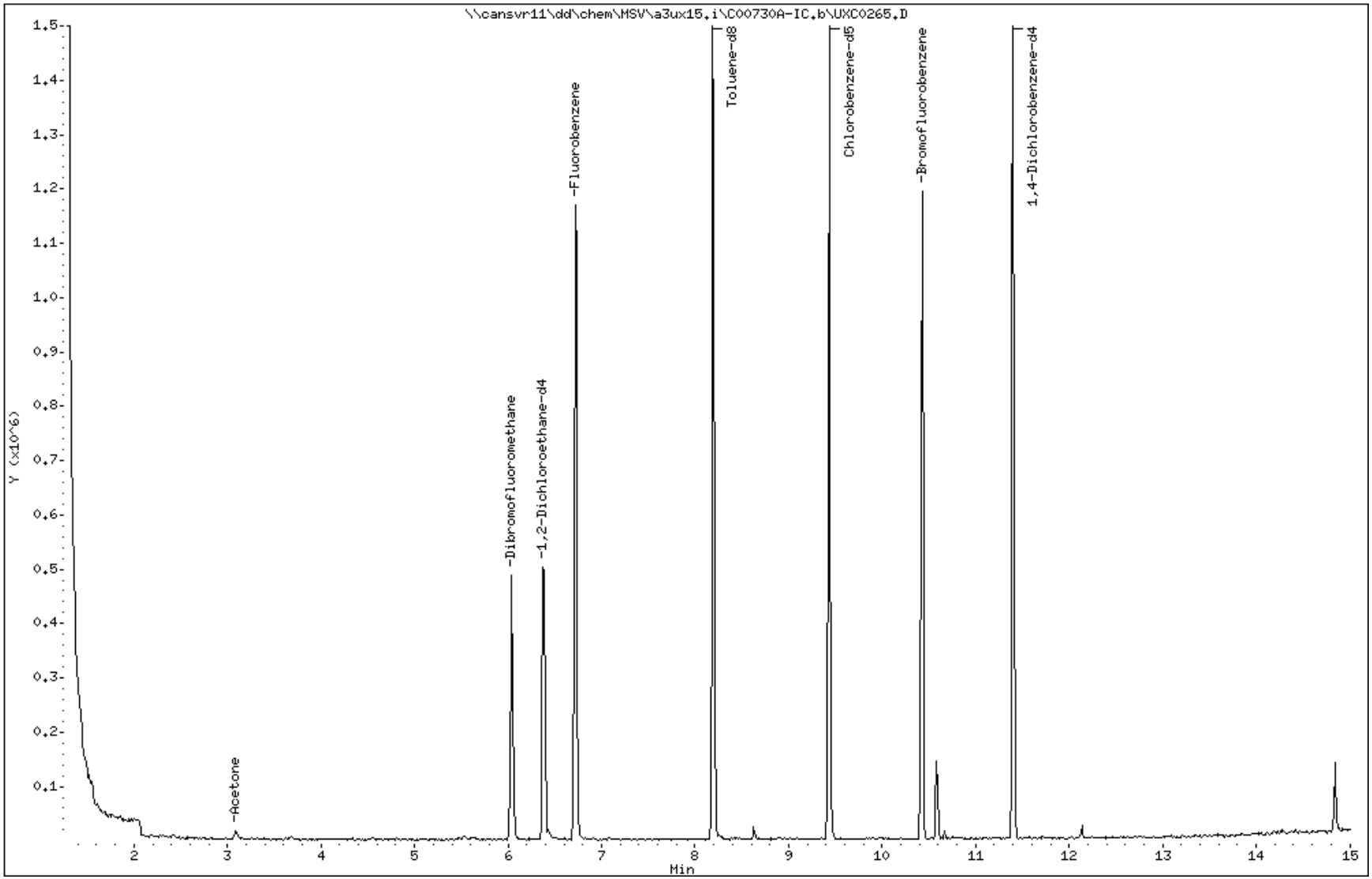
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Client Smp ID: OW8
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1020350	-0.08
2 Chlorobenzene-d5	769451	384726	1538902	778497	1.18
3 1,4-Dichlorobenze	534878	267439	1069756	447828	-16.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0265.D
Date : 30-JUL-2010 17:15
Client ID: OW8
Instrument: a3ux15.i
Sample Info: L4GJ11AJ,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0265.D

Date : 30-JUL-2010 17:15

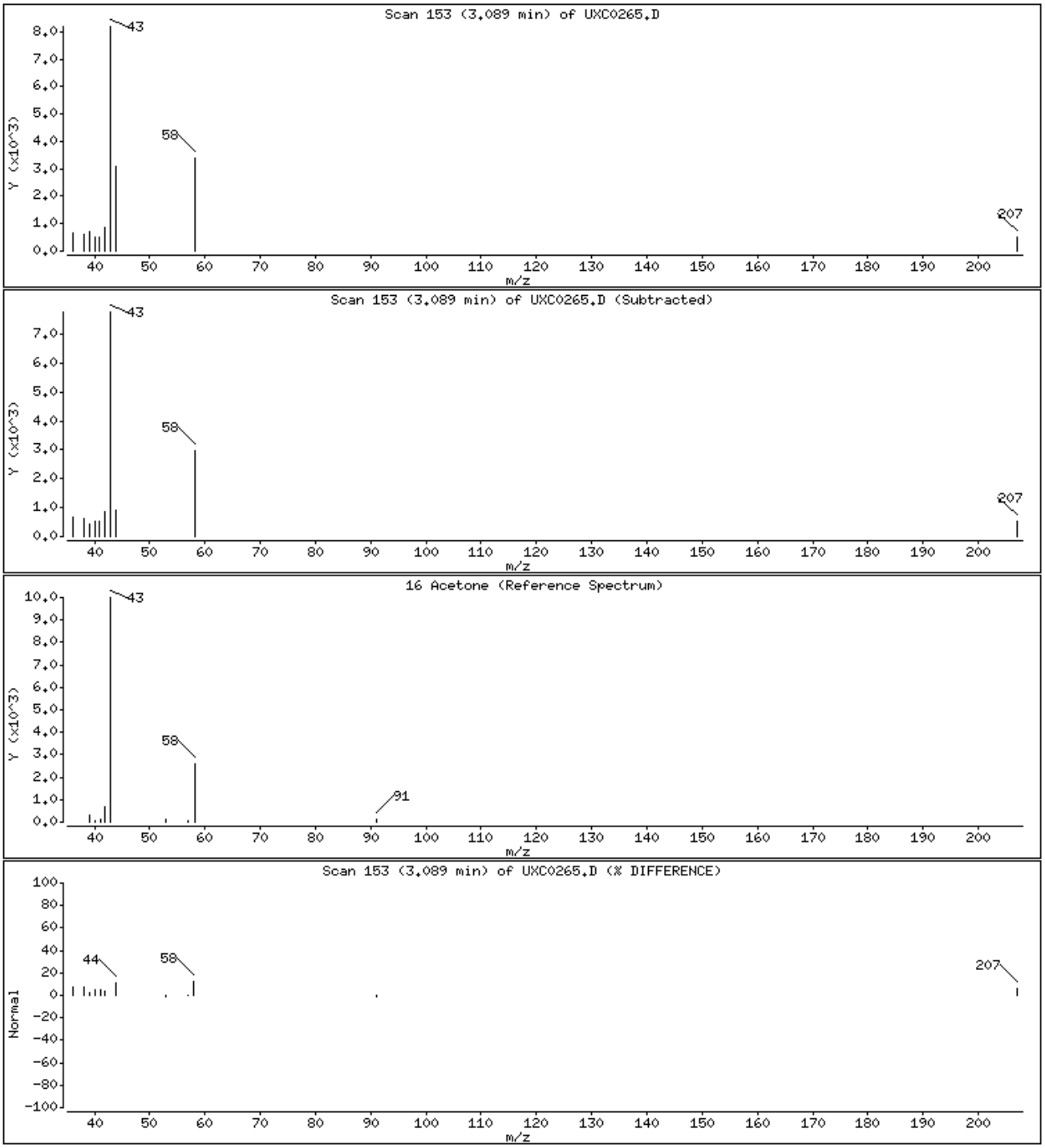
Client ID: OW8 Instrument: a3ux15.i

Sample Info: L4GJ11AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 1.860 ug/L



Cardinal Resources

Client Sample ID: FIELD BLANK 1

GC/MS Volatiles

Lot-Sample #...: A0G210469-006 **Work Order #...:** L4GJ21AA **Matrix.....:** WQ
Date Sampled...: 07/20/10 14:45 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.0 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: FIELD BLANK 1

GC/MS Volatiles

Lot-Sample #...: A0G210469-006 **Work Order #...:** L4GJ21AA **Matrix.....:** WQ

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D
Report Date: 02-Aug-2010 10:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D
Lab Smp Id: L4GJ21AA Client Smp ID: FIELD BLANK
Inj Date : 30-JUL-2010 17:38
Operator : 43582 Inst ID: a3ux15.i
Smp Info : L4GJ21AA,5ML/5ML
Misc Info : C00730A-IC,8260LLUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.717	6.718	(1.000)	1021182	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	772140	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	473523	50.0000	
$ 4 Dibromofluoromethane	113	6.041	6.042	(0.899)	296956	42.3630	8.472
$ 5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	399276	46.1488	9.230
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	981422	41.8942	8.379
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	347049	41.5909	8.318
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.089	3.089	(0.460)	27520	9.98121	1.996
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					
23 Acrylonitrile	53	Compound Not Detected.					

24	Methyl tert-butyl ether	73	Compound Not Detected.
25	trans-1,2-Dichloroethene	96	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D
Report Date: 02-Aug-2010 10:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	Compound Not Detected.					
	77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	78 sec-Butylbenzene	105	Compound Not Detected.					
	79 4-Isopropyltoluene	119	Compound Not Detected.					

80	1,3-Dichlorobenzene	146	Compound Not Detected.
81	1,4-Dichlorobenzene	146	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D
Report Date: 02-Aug-2010 10:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.626	5.615	(0.838)	8435	1.99706	0.3994
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D
Report Date: 02-Aug-2010 10:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0266.D
Lab Smp Id: L4GJ21AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582

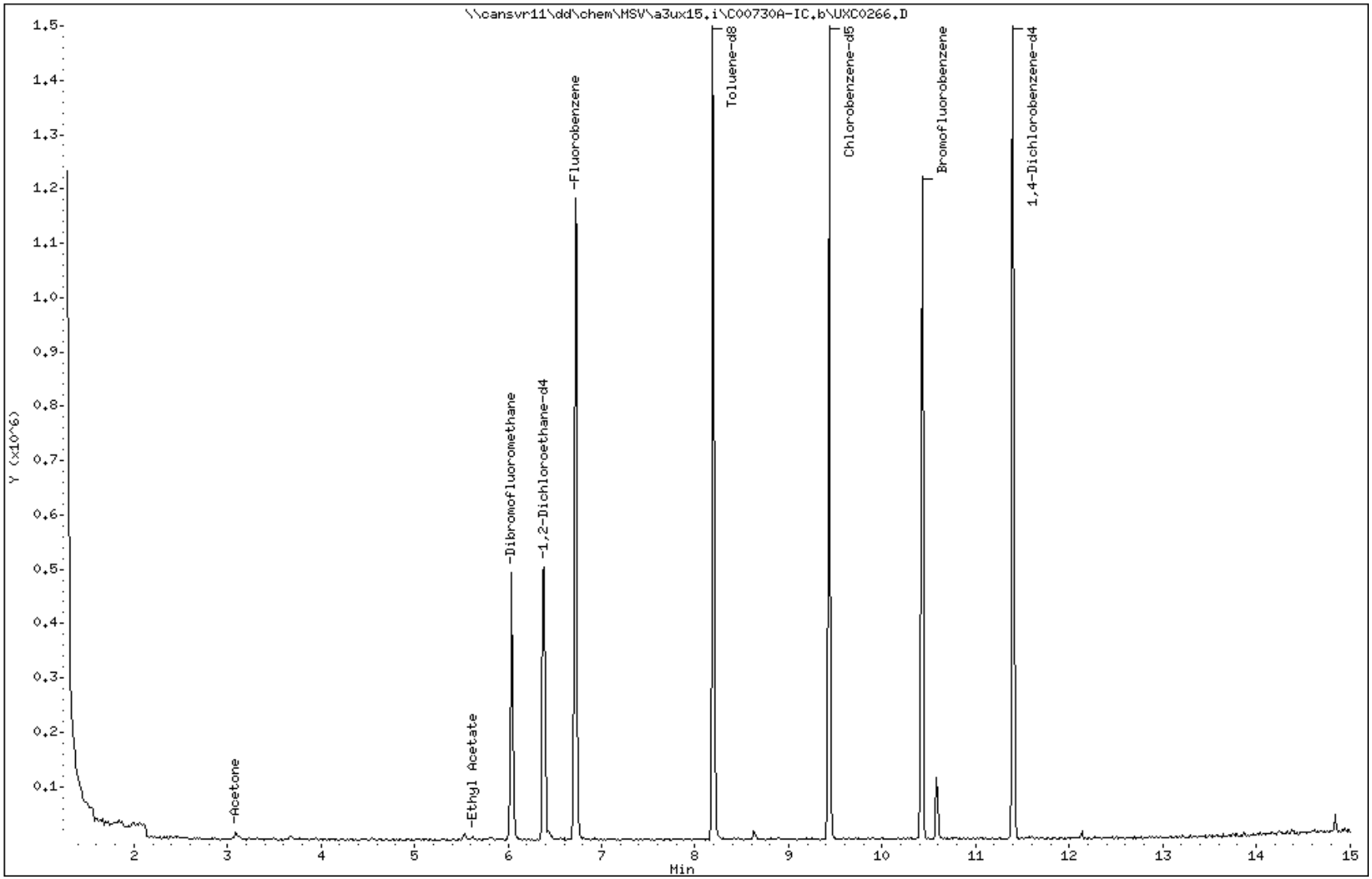
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Client Smp ID: FIELD BLANK
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1021182	-0.00
2 Chlorobenzene-d5	769451	384726	1538902	772140	0.35
3 1,4-Dichlorobenze	534878	267439	1069756	473523	-11.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	-0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	-0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D
Date : 30-JUL-2010 17:38
Client ID: FIELD BLANK
Instrument: a3ux15.i
Sample Info: L4GJ21AA,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D

Date : 30-JUL-2010 17:38

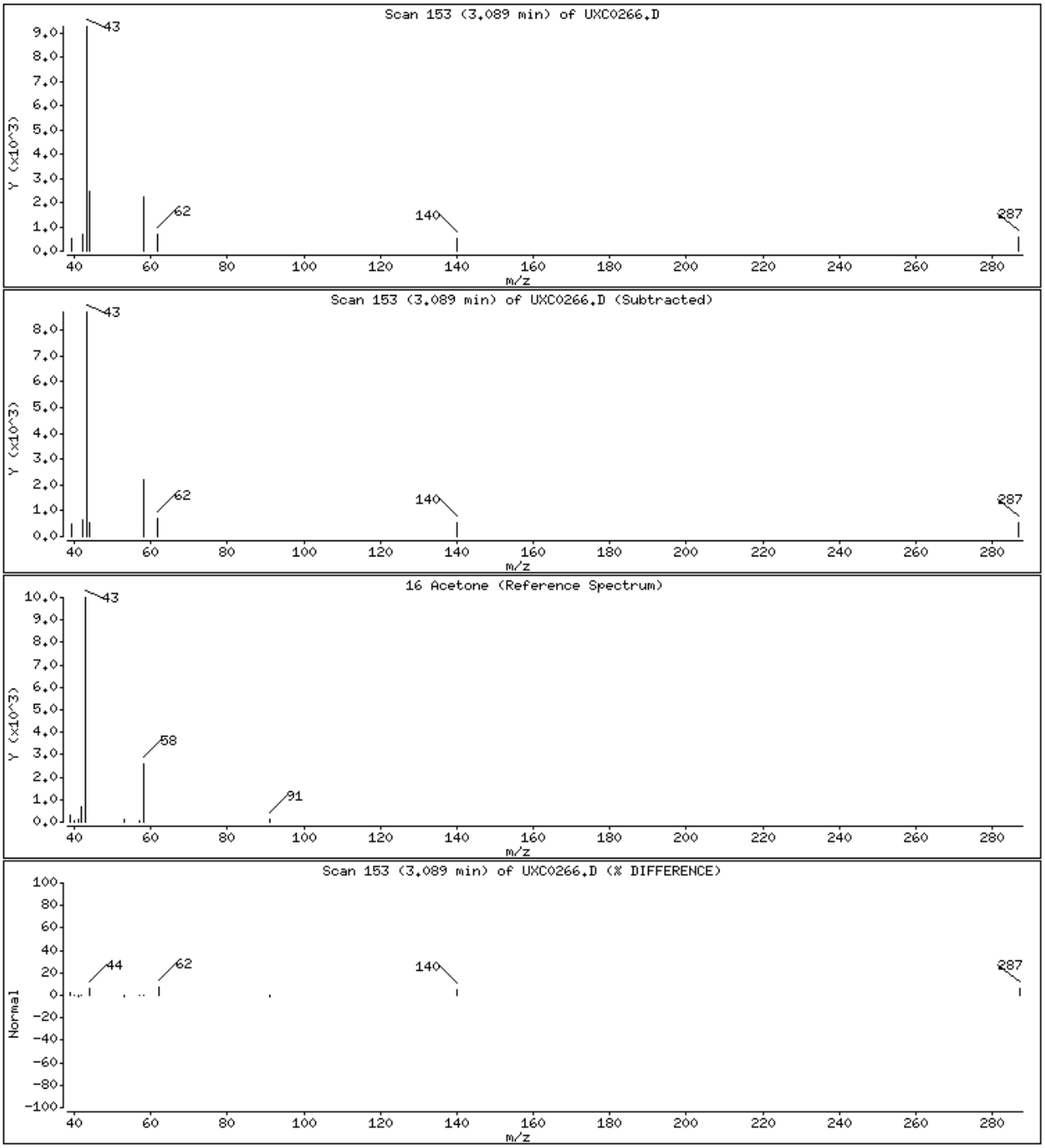
Client ID: FIELD BLANK | Instrument: a3ux15.i

Sample Info: L4GJ21AA,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 1.996 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0266.D

Date : 30-JUL-2010 17:38

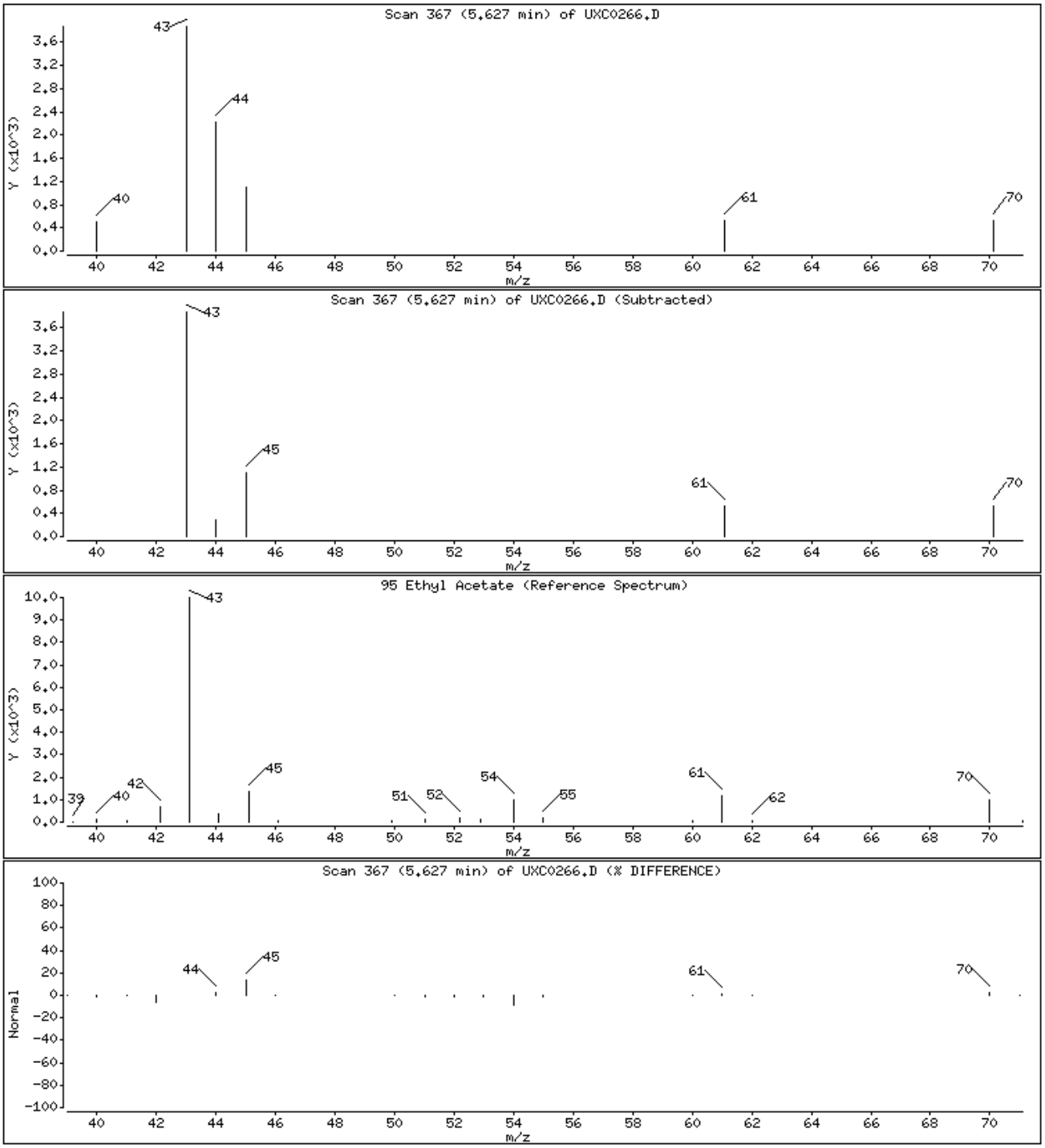
Client ID: FIELD BLANK | Instrument: a3ux15.i

Sample Info: L4GJ21AA,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

95 Ethyl Acetate | Concentration: 0.3994 ug/L



Cardinal Resources

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A0G210469-007 **Work Order #...:** L4GJ41AA **Matrix.....:** WQ
Date Sampled...: 07/20/10 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.8 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A0G210469-007 **Work Order #...:** L4GJ41AA **Matrix.....:** WQ

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0267.D
Report Date: 02-Aug-2010 10:31

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0267.D
Lab Smp Id: L4GJ41AA Client Smp ID: TRIP BLANK
Inj Date : 30-JUL-2010 18:00
Operator : 43582 Inst ID: a3ux15.i
Smp Info : L4GJ41AA,5ML/5ML
Misc Info : C00730A-IC,8260LLUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.729	6.718	(1.000)	977495	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	777438	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	460853	50.0000	
$ 4 Dibromofluoromethane	113	6.042	6.042	(0.898)	274001	40.8352	8.167
$ 5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.947)	396580	47.8858	9.577
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	970688	41.1537	8.231
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	344740	41.0327	8.206
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.101	3.089	(0.461)	24960	9.09077	1.818
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					
23 Acrylonitrile	53	Compound Not Detected.					

24	Methyl tert-butyl ether	73	Compound Not Detected.
25	trans-1,2-Dichloroethene	96	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0267.D
Report Date: 02-Aug-2010 10:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	Compound Not Detected.					
	77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	78 sec-Butylbenzene	105	Compound Not Detected.					
	79 4-Isopropyltoluene	119	Compound Not Detected.					

80	1,3-Dichlorobenzene	146	Compound Not Detected.
81	1,4-Dichlorobenzene	146	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0267.D
Report Date: 02-Aug-2010 10:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0267.D
Report Date: 02-Aug-2010 10:31

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0267.D
Lab Smp Id: L4GJ41AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582

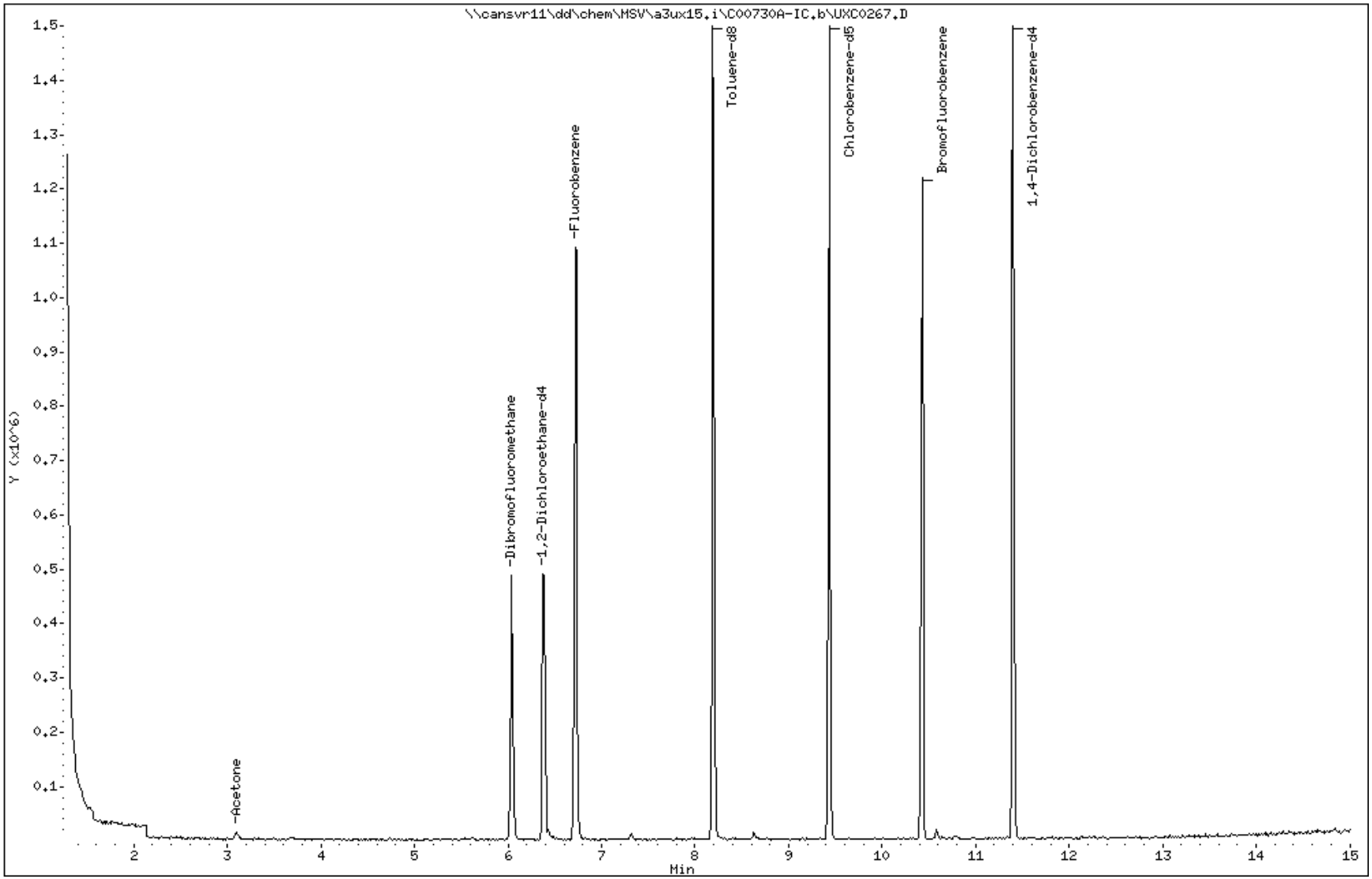
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Client Smp ID: TRIP BLANK
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	977495	-4.28
2 Chlorobenzene-d5	769451	384726	1538902	777438	1.04
3 1,4-Dichlorobenze	534878	267439	1069756	460853	-13.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.73	0.18
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0267.D
Date : 30-JUL-2010 18:00
Client ID: TRIP BLANK
Instrument: a3ux15.i
Sample Info: L4GJ41AA,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0267.D

Date : 30-JUL-2010 18:00

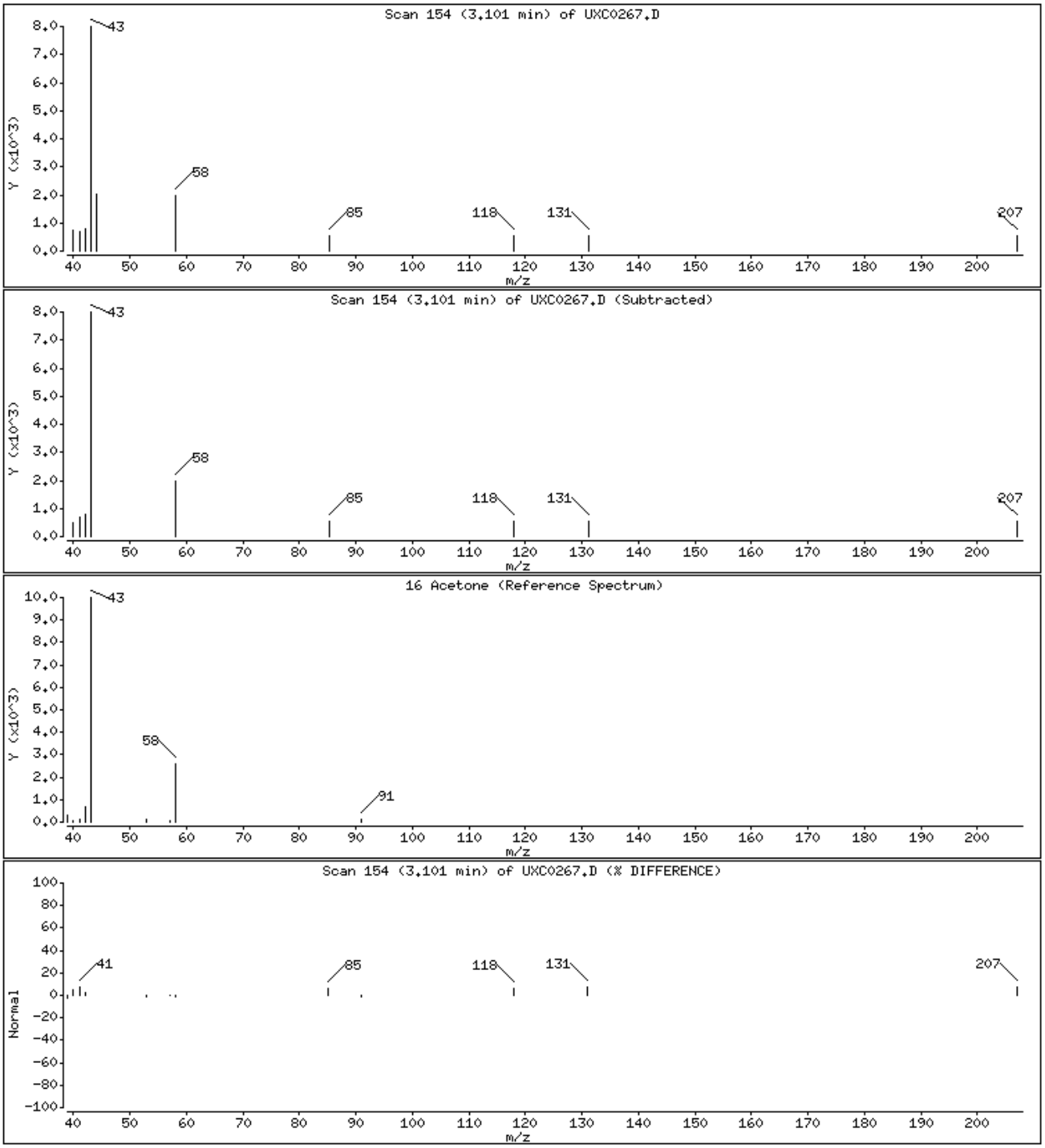
Client ID: TRIP BLANK | Instrument: a3ux15.i

Sample Info: L4GJ41AA,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 1.818 ug/L



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 02-Aug-2010 08:51

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Start Cal Date: 17-MAY-2010 08:17
End Cal Date : 30-JUL-2010 12:00
Last Cal Level: 1
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
19-JUL-2010 16:15	3-IX	\\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9971.D
30-JUL-2010 12:00	2-8260	\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0251.D
Cal Level: 2 , Cal Amount: 10.00000		
19-JUL-2010 15:50	3-IX	\\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9970.D
30-JUL-2010 11:37	2-8260	\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D
Cal Level: 3 , Cal Amount: 25.00000		
19-JUL-2010 15:26	3-IX	\\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9969.D
30-JUL-2010 11:15	2-8260	\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
Cal Level: 4 , Cal Amount: 50.00000		
19-JUL-2010 15:01	3-IX	\\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9968.D
30-JUL-2010 10:53	2-8260	\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0248.D
Cal Level: 5 , Cal Amount: 100.00000		
19-JUL-2010 14:36	3-IX	\\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9967.D
30-JUL-2010 10:30	2-8260	\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0247.D
Cal Level: 6 , Cal Amount: 200.00000		
19-JUL-2010 14:12	3-IX	\\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9966.D
30-JUL-2010 10:07	2-8260	

\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0246.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

30-JUL-2010 10:53	2-8260	
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30-JUL-2010 10:53	2-8260	
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30-JUL-2010 12:45	3-IX	
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Report Date : 30-Jul-2010 12:35

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAY-2010 08:17
End Cal Date : 30-JUL-2010 12:00
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Last Edit : 30-Jul-2010 12:21 a3ux15.i
Curve Type : Average

Calibration File Names:
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Level 2: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9970.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9969.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9968.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9967.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9966.D

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
8	Dichlorodifluoromethane	0.25799	0.27220	0.27074	0.25959	0.30415	0.32332	0.28133	9.400
9	Chloromethane	0.55441	0.50896	0.53088	0.46327	0.44260	0.41612	0.48604	11.081
10	Vinyl Chloride	0.32703	0.32246	0.34263	0.31242	0.32548	0.27484	0.31748	7.259
11	Bromomethane	0.09086	0.09712	0.07413	0.05788	0.05842	0.04677	0.07086	28.251
12	Chloroethane	0.16520	0.14855	0.14244	0.12490	0.12359	0.11030	0.13583	14.685
13	Trichlorofluoromethane	0.26609	0.27314	0.27867	0.29047	0.32439	0.34200	0.29579	10.332
14	Dichlorofluoromethane	0.43660	0.42741	0.47949	0.40724	0.45516	0.36518	0.42851	9.240
15	Acrolein	0.04346	0.03932	0.04769	0.04680	0.04427	0.04663	0.04469	6.917
16	Acetone	0.13868	0.10133	0.09717	0.08802	0.07158	0.08378	0.09676	23.824
17	1,1-Dichloroethene	0.31964	0.32299	0.33670	0.32766	0.31413	0.30177	0.32048	3.723
18	Freon-113	0.25967	0.25539	0.26363	0.24141	0.25317	0.25587	0.25486	2.963
19	Iodomethane	0.61591	0.60537	0.63458	0.60967	0.59080	0.56977	0.60435	3.667
20	Carbon Disulfide	0.75000	0.78120	0.89218	0.81580	0.83283	0.82164	0.81561	5.927
21	Methylene Chloride	1.07710	0.70864	0.51910	0.42410	0.35749	0.33027	0.56945	49.847
22	Acetonitrile	0.03309	0.03023	0.03451	0.03071	0.02082	0.03031	0.02994	16.007
23	Acrylonitrile	0.12127	0.11926	0.11975	0.11884	0.11041	0.11646	0.11766	3.299
24	Methyl tert-butyl ether	0.69140	0.71601	0.74413	0.75579	0.71806	0.73097	0.72606	3.141
25	trans-1,2-Dichloroethene	0.35825	0.33852	0.38474	0.36870	0.35912	0.34295	0.35871	4.721
26	Hexane	0.05539	0.06061	0.07171	0.06903	0.06851	0.07067	0.06599	9.860
27	Vinyl acetate	0.31794	0.31269	0.33993	0.39006	0.40346	0.44076	0.36747	14.083
28	1,1-Dichloroethane	0.70313	0.67184	0.70839	0.69063	0.67553	0.64904	0.68309	3.235
29	tert-Butyl Alcohol	0.01764	0.01828	0.01988	0.01832	0.01223	0.01662	0.01716	15.373
30	2-Butanone	0.09654	0.09605	0.09785	0.10176	0.08954	0.10371	0.09757	5.086
M 31	1,2-Dichloroethene (total)	0.35807	0.35064	0.38614	0.36912	0.36350	0.34810	0.36260	3.844
32	cis-1,2-dichloroethene	0.35790	0.36277	0.38753	0.36955	0.36788	0.35325	0.36648	3.268
33	2,2-Dichloropropane	0.31827	0.30323	0.35305	0.33637	0.33679	0.33531	0.33050	5.239
34	Bromochloromethane	0.19502	0.17439	0.19811	0.19428	0.19441	0.18509	0.19022	4.679
35	Chloroform	0.59763	0.60940	0.61067	0.61187	0.59768	0.59974	0.60450	1.128

Report Date : 30-Jul-2010 12:35

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAY-2010 08:17
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Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Last Edit : 30-Jul-2010 12:21 a3ux15.i
Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
	36 Tetrahydrofuran	0.18920	0.12677	0.08982	0.07885	0.06754	0.07099	0.10386	45.222	
	37 1,1,1-Trichloroethane	0.45352	0.45833	0.53851	0.50660	0.51706	0.52180	0.49930	7.045	
	38 1,1-Dichloropropene	0.38424	0.39144	0.45029	0.44077	0.43913	0.44296	0.42481	6.821	
	39 Carbon Tetrachloride	0.44218	0.42089	0.48597	0.46606	0.48172	0.48843	0.46421	5.885	
	40 1,2-Dichloroethane	0.57263	0.52567	0.55668	0.54997	0.53890	0.57175	0.55260	3.341	
	41 Benzene	1.33293	1.19629	1.22365	1.21287	1.18166	1.19096	1.22306	4.572	
	42 Trichloroethene	0.36982	0.34951	0.38876	0.39295	0.37460	0.39193	0.37793	4.464	
	43 1,2-Dichloropropane	0.29833	0.30968	0.32713	0.32519	0.32509	0.33092	0.31939	3.952	
	44 1,4-Dioxane	0.00174	0.00161	0.00214	0.00217	0.00127	0.00167	0.00177	19.361	<-
	45 Dibromomethane	0.16523	0.14733	0.16121	0.15807	0.16403	0.16541	0.16021	4.308	
	46 Bromodichloromethane	0.32153	0.33902	0.35520	0.36220	0.38463	0.40522	0.36130	8.386	
	47 2-Chloroethyl vinyl ether	0.09475	0.08629	0.11262	0.12345	0.13384	0.15911	0.11834	22.501	
	48 cis-1,3-Dichloropropene	0.27936	0.28423	0.32260	0.36580	0.40495	0.44468	0.35027	19.066	
	49 4-Methyl-2-pentanone	0.16253	0.15797	0.18513	0.19998	0.20363	0.21745	0.18778	12.632	
	50 Toluene	1.46445	1.57139	1.68786	1.68799	1.67662	1.65207	1.62340	5.506	
	51 trans-1,3-Dichloropropene	0.31145	0.31968	0.35949	0.39974	0.43781	0.46753	0.38261	16.575	
	52 Ethyl Methacrylate	0.21600	0.20976	0.24192	0.26846	0.29231	0.30638	0.25581	15.586	
	53 1,1,2-Trichloroethane	0.26852	0.28047	0.29311	0.29392	0.28278	0.28766	0.28441	3.326	
	54 1,3-Dichloropropane	0.41466	0.41709	0.46531	0.47267	0.47535	0.48154	0.45444	6.674	
	55 Tetrachloroethene	0.39643	0.39731	0.42944	0.41335	0.41532	0.40760	0.40991	3.025	
	56 2-Hexanone	0.14087	0.12718	0.15115	0.15702	0.15984	0.16582	0.15031	9.414	
	57 Dibromochloromethane	0.28751	0.27283	0.33516	0.34508	0.36596	0.38655	0.33218	13.322	
	58 1,2-Dibromoethane	0.25210	0.24908	0.27765	0.28483	0.28779	0.30192	0.27556	7.588	
	59 Chlorobenzene	1.12392	1.10229	1.21480	1.18533	1.17135	1.18141	1.16318	3.607	
	60 1,1,1,2-Tetrachloroethane	0.43085	0.40573	0.47666	0.45391	0.45015	0.45609	0.44557	5.472	
	61 Ethylbenzene	0.46842	0.53978	0.63286	0.62504	0.61597	0.60494	0.58117	11.098	
	62 m + p-Xylene	0.65350	0.69121	0.79523	0.79977	0.77851	0.74182	0.74334	8.050	
M	63 Xylenes (total)	0.64912	0.68849	0.79350	0.78623	0.76844	0.73187	0.73628	7.850	
	64 Xylene-o	0.64036	0.68305	0.79004	0.75915	0.74831	0.71198	0.72215	7.581	
	65 Styrene	0.86367	0.91496	1.11000	1.15291	1.15225	1.13716	1.05516	12.360	
	66 Bromoform	0.16362	0.16407	0.18530	0.18378	0.19719	0.21473	0.18478	10.629	
	67 Isopropylbenzene	1.63911	1.73466	1.99813	2.00721	1.96413	1.99844	1.89028	8.522	
	68 1,1,2,2-Tetrachloroethane	0.46795	0.46791	0.47559	0.46277	0.48772	0.46566	0.47127	1.934	
	69 1,4-Dichloro-2-butene	0.13573	0.11146	0.13230	0.16000	0.17842	0.19608	0.15233	20.760	
	70 1,2,3-Trichloropropane	0.17855	0.16945	0.19634	0.17730	0.19552	0.18687	0.18400	5.852	
	71 Bromobenzene	0.67738	0.71796	0.76105	0.77219	0.84006	0.79459	0.76054	7.518	

Report Date : 30-Jul-2010 12:35

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAY-2010 08:17
End Cal Date : 30-JUL-2010 12:00
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Last Edit : 30-Jul-2010 12:21 a3ux15.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
72 n-Propylbenzene	0.67104	0.69954	0.83201	0.82649	0.87771	0.85955	0.79439	10.952	
73 2-Chlorotoluene	0.68400	0.69367	0.76375	0.74545	0.79465	0.74215	0.73728	5.698	
74 1,3,5-Trimethylbenzene	1.93039	1.99704	2.46004	2.51260	2.64584	2.64487	2.36513	13.534	
75 4-Chlorotoluene	0.63713	0.69632	0.77736	0.74565	0.79191	0.74636	0.73246	7.798	
76 tert-Butylbenzene	1.70459	1.97490	2.24399	2.37223	2.50869	2.58113	2.23092	15.035	
77 1,2,4-Trimethylbenzene	1.98806	2.21708	2.58366	2.61070	2.70044	2.74617	2.47435	12.235	
78 sec-Butylbenzene	2.44161	2.56395	2.94577	2.97234	3.07372	3.15078	2.85803	10.055	
79 4-Isopropyltoluene	2.13911	2.47403	2.93057	2.94276	3.01076	3.14407	2.77355	13.862	
80 1,3-Dichlorobenzene	1.68947	1.66898	1.70632	1.65160	1.67074	1.64740	1.67242	1.341	
81 1,4-Dichlorobenzene	1.75490	1.71305	1.76048	1.65980	1.69624	1.70455	1.71484	2.209	
82 n-Butylbenzene	1.73163	1.89878	2.13845	2.15650	2.15430	2.31344	2.06552	10.207	
83 1,2-Dichlorobenzene	1.58266	1.67859	1.76116	1.64826	1.59927	1.59179	1.64362	4.165	
84 1,2-Dibromo-3-chloropropane	0.10703	0.10712	0.11018	0.10969	0.11087	0.12278	0.11128	5.263	
85 1,2,4-Trichlorobenzene	1.15920	1.15742	1.22213	1.20166	1.02118	1.18740	1.15817	6.179	
86 Hexachlorobutadiene	0.59170	0.58611	0.60004	0.56339	0.45187	0.50281	0.54932	10.794	
87 Naphthalene	1.65176	1.84448	2.20559	2.31584	1.97075	2.41899	2.06790	14.284	
88 1,2,3-Trichlorobenzene	1.01364	1.11407	1.16754	1.11693	0.85934	1.00564	1.04619	10.640	
89 Ethyl Ether	0.35042	0.34359	0.32089	0.31310	0.34389	0.33381	0.33428	4.371	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 3-Chloropropene	0.15953	0.16557	0.15911	0.15533	0.18209	0.18329	0.16748	7.302	
92 Isopropyl Ether	0.24904	0.26412	0.27838	0.27407	0.31023	0.31126	0.28118	8.900	
93 2-Chloro-1,3-butadiene	0.55869	0.55964	0.60106	0.58536	0.70101	0.69050	0.61604	10.369	
94 Propionitrile	0.03755	0.04054	0.03697	0.03543	0.03922	0.04065	0.03839	5.449	
95 Ethyl Acetate	0.24505	0.20860	0.19695	0.19191	0.19429	0.20403	0.20680	9.547	
96 Methacrylonitrile	0.15838	0.18828	0.17319	0.15227	0.16901	0.17147	0.16877	7.436	
97 Isobutanol	0.01274	0.01386	0.01266	0.01031	0.00990	0.01071	0.01170	13.685	<-
98 Cyclohexane	0.65481	0.60709	0.71095	0.72641	0.70846	0.69831	0.68434	6.566	
99 n-Butanol	0.00660	0.00690	0.00769	0.00719	0.00722	0.00679	0.00706	5.470	<-
100 Methyl Methacrylate	0.13418	0.14077	0.14947	0.14004	0.16067	0.17275	0.14965	9.754	
101 2-Nitropropane	0.04384	0.03900	0.03887	0.03601	0.04164	0.04726	0.04110	9.791	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
103 Cyclohexanone	0.01717	0.01906	0.01866	0.01720	0.01680	0.01957	0.01808	6.429	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Report Date : 30-Jul-2010 12:35

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAY-2010 08:17
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Last Edit : 30-Jul-2010 12:21 a3ux15.i
Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M	137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	141 1,3,5-Trichlorobenzene	1.22500	1.38225	1.39601	1.34055	1.16929	1.32981	1.30715	6.921	
	143 Methyl Acetate	0.22068	0.21659	0.21870	0.21671	0.20289	0.21091	0.21441	3.041	
	144 Methylcyclohexane	0.45075	0.44072	0.49737	0.50731	0.50954	0.51395	0.48661	6.633	
	145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	146 2-Methylnaphthalene	0.77159	0.83384	0.99094	1.15318	1.71080	1.80180	1.21036	36.688	
	147 Tetrahydrothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	148 1,4-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	151 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	152 Vinyl Acetate-86	0.01550	0.02327	0.03059	0.03205	0.03362	0.03673	0.02863	27.387	
	153 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	154 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	155 tert-Butyl Ethyl Ether	0.94257	0.99116	1.02291	1.01842	1.16140	1.20757	1.05734	9.797	
	156 tert-Amyl Methyl Ether	0.56056	0.54616	0.58126	0.59168	0.69653	0.71621	0.61540	11.780	
	157 1,2,3-Trimethylbezene	2.15439	2.38360	2.66124	2.88549	3.69766	3.85892	2.94022	23.690	
$	4 Dibromofluoromethane	0.34994	0.33127	0.34952	0.34625	0.34015	0.34218	0.34322	2.049	
$	5 1,2-Dichloroethane-d4	0.40980	0.41487	0.42944	0.42614	0.42081	0.44068	0.42362	2.600	
$	6 Toluene-d8	1.39720	1.46437	1.54634	1.55360	1.57654	1.56374	1.51696	4.666	
$	7 Bromofluorobenzene	0.50728	0.52322	0.55214	0.55763	0.54786	0.55390	0.54034	3.761	

Report Date : 30-Jul-2010 12:45

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-MAY-2010 08:17
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Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Last Edit : 30-Jul-2010 12:21 a3ux15.i

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9971.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9970.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9969.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9968.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9967.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux15.i\C00719A-IC.b\UXC9966.D

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
8 Dichlorodifluoromethane	0.25799	0.27220	0.27074	0.25959	0.30415	0.32332	AVRG		0.28133		9.39997
9 Chloromethane	0.55441	0.50896	0.53088	0.46327	0.44260	0.41612	AVRG		0.48604		11.08106
10 Vinyl Chloride	0.32703	0.32246	0.34263	0.31242	0.32548	0.27484	AVRG		0.31748		7.25949
11 Bromomethane	9288	19642	35826	59104	117328	196611	QUAD	-0.01408	12.51542	47.10377	0.99743
12 Chloroethane	0.16520	0.14855	0.14244	0.12490	0.12359	0.11030	AVRG		0.13583		14.68481
13 Trichlorofluoromethane	0.26609	0.27314	0.27867	0.29047	0.32439	0.34200	AVRG		0.29579		10.33230
14 Dichlorofluoromethane	0.43660	0.42741	0.47949	0.40724	0.45516	0.36518	AVRG		0.42851		9.23978
15 Acrolein	0.04346	0.03932	0.04769	0.04680	0.04427	0.04663	AVRG		0.04469		6.91704
16 Acetone	28353	40988	93920	179781	287534	704390	WLINR	-0.13967	0.07943		0.99190
17 1,1-Dichloroethene	0.31964	0.32299	0.33670	0.32766	0.31413	0.30177	AVRG		0.32048		3.72341
18 Freon-113	0.25967	0.25539	0.26363	0.24141	0.25317	0.25587	AVRG		0.25486		2.96297
19 Iodomethane	0.61591	0.60537	0.63458	0.60967	0.59080	0.56977	AVRG		0.60435		3.66729
20 Carbon Disulfide	0.75000	0.78120	0.89218	0.81580	0.83283	0.82164	AVRG		0.81561		5.92701
21 Methylene Chloride	110106	143318	250878	433100	718000	1388368	WLINR	-0.24936	0.32005		0.99677

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INITIAL CALIBRATION DATA

Start Cal Date : 17-MAY-2010 08:17
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Last Edit : 30-Jul-2010 12:21 a3ux15.i

	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	22 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	-1.62552	50.52759	-13.26342	~~0.98250~~
	23 Acrylonitrile	0.12127	0.11926	0.11975	0.11884	0.11041	0.11646	AVRG		0.11766		3.29929
	24 Methyl tert-butyl ether	0.69140	0.71601	0.74413	0.75579	0.71806	0.73097	AVRG		0.72606		3.14141
	25 trans-1,2-Dichloroethene	0.35825	0.33852	0.38474	0.36870	0.35912	0.34295	AVRG		0.35871		4.72092
	26 Hexane	0.05539	0.06061	0.07171	0.06903	0.06851	0.07067	AVRG		0.06599		9.86012
	27 Vinyl acetate	0.31794	0.31269	0.33993	0.39006	0.40346	0.44076	AVRG		0.36747		14.08294
	28 1,1-Dichloroethane	0.70313	0.67184	0.70839	0.69063	0.67553	0.64904	AVRG		0.68309		3.23496
	29 tert-Butyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.01727		~~16.99004~~
	30 2-Butanone	0.09654	0.09605	0.09785	0.10176	0.08954	0.10371	AVRG		0.09757		5.08642
M	31 1,2-Dichloroethene (total)	0.35807	0.35064	0.38614	0.36912	0.36350	0.34810	AVRG		0.36260		3.84352
	32 cis-1,2-dichloroethene	0.35790	0.36277	0.38753	0.36955	0.36788	0.35325	AVRG		0.36648		3.26769
	33 2,2-Dichloropropane	0.31827	0.30323	0.35305	0.33637	0.33679	0.33531	AVRG		0.33050		5.23858
	34 Bromochloromethane	0.19502	0.17439	0.19811	0.19428	0.19441	0.18509	AVRG		0.19022		4.67911
	35 Chloroform	0.59763	0.60940	0.61067	0.61187	0.59768	0.59974	AVRG		0.60450		1.12839
	36 Tetrahydrofuran	19341	25638	43407	80524	135642	298434	WLINR	-0.18298	0.06608		0.99776
	37 1,1,1-Trichloroethane	0.45352	0.45833	0.53851	0.50660	0.51706	0.52180	AVRG		0.49930		7.04456
	38 1,1-Dichloropropene	0.38424	0.39144	0.45029	0.44077	0.43913	0.44296	AVRG		0.42481		6.82065
	39 Carbon Tetrachloride	0.44218	0.42089	0.48597	0.46606	0.48172	0.48843	AVRG		0.46421		5.88532
	40 1,2-Dichloroethane	0.57263	0.52567	0.55668	0.54997	0.53890	0.57175	AVRG		0.55260		3.34120
	41 Benzene	1.33293	1.19629	1.22365	1.21287	1.18166	1.19096	AVRG		1.22306		4.57239
	42 Trichloroethene	0.36982	0.34951	0.38876	0.39295	0.37460	0.39193	AVRG		0.37793		4.46398
	43 1,2-Dichloropropane	0.29833	0.30968	0.32713	0.32519	0.32509	0.33092	AVRG		0.31939		3.95234

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Last Edit : 30-Jul-2010 12:21 a3ux15.i

	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	44 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	-4.03768	691	-235	~~0.97097~~
	45 Dibromomethane	0.16523	0.14733	0.16121	0.15807	0.16403	0.16541	AVRG		0.16021		4.30841
	46 Bromodichloromethane	0.32153	0.33902	0.35520	0.36220	0.38463	0.40522	AVRG		0.36130		8.38559
	47 2-Chloroethyl vinyl ether	19371	34904	108856	252131	537623	1337737	QUAD	0.08926	8.11361	-1.49233	0.99993
	48 cis-1,3-Dichloropropene	28558	57484	155909	373561	813323	1869319	WLINR	0.06080	0.43243		0.99422
	49 4-Methyl-2-pentanone	0.16253	0.15797	0.18513	0.19998	0.20363	0.21745	AVRG		0.18778		12.63210
	50 Toluene	1.46445	1.57139	1.68786	1.68799	1.67662	1.65207	AVRG		1.62340		5.50618
	51 trans-1,3-Dichloropropene	23539	46118	126844	307578	660901	1583876	WLINR	0.05291	0.45841		0.99636
	52 Ethyl Methacrylate	16325	30261	85360	206564	441265	1037956	WLINR	0.04915	0.30222		0.99713
	53 1,1,2-Trichloroethane	0.26852	0.28047	0.29311	0.29392	0.28278	0.28766	AVRG		0.28441		3.32599
	54 1,3-Dichloropropane	0.41466	0.41709	0.46531	0.47267	0.47535	0.48154	AVRG		0.45444		6.67433
	55 Tetrachloroethene	0.39643	0.39731	0.42944	0.41335	0.41532	0.40760	AVRG		0.40991		3.02454
	56 2-Hexanone	0.14087	0.12718	0.15115	0.15702	0.15984	0.16582	AVRG		0.15031		9.41440
	57 Dibromochloromethane	0.28751	0.27283	0.33516	0.34508	0.36596	0.38655	AVRG		0.33218		13.32208
	58 1,2-Dibromoethane	0.25210	0.24908	0.27765	0.28483	0.28779	0.30192	AVRG		0.27556		7.58833
	59 Chlorobenzene	1.12392	1.10229	1.21480	1.18533	1.17135	1.18141	AVRG		1.16318		3.60745
	60 1,1,1,2-Tetrachloroethane	0.43085	0.40573	0.47666	0.45391	0.45015	0.45609	AVRG		0.44557		5.47151
	61 Ethylbenzene	0.46842	0.53978	0.63286	0.62504	0.61597	0.60494	AVRG		0.58117		11.09767
	62 m + p-Xylene	0.65350	0.69121	0.79523	0.79977	0.77851	0.74182	AVRG		0.74334		8.05035
M	63 Xylenes (total)	0.64912	0.68849	0.79350	0.78623	0.76844	0.73187	AVRG		0.73628		7.85006
	64 Xylene-o	0.64036	0.68305	0.79004	0.75915	0.74831	0.71198	AVRG		0.72215		7.58060
	65 Styrene	0.86367	0.91496	1.11000	1.15291	1.15225	1.13716	AVRG		1.05516		12.35960

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Last Edit : 30-Jul-2010 12:21 a3ux15.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
66 Bromoform	0.16362	0.16407	0.18530	0.18378	0.19719	0.21473	AVRG		0.18478		10.62878
67 Isopropylbenzene	1.63911	1.73466	1.99813	2.00721	1.96413	1.99844	AVRG		1.89028		8.52243
68 1,1,2,2-Tetrachloroethane	0.46795	0.46791	0.47559	0.46277	0.48772	0.46566	AVRG		0.47127		1.93358
69 1,4-Dichloro-2-butene	7362	11361	34255	85579	166354	427050	WLINR	0.06411	0.19049		0.99160
70 1,2,3-Trichloropropane	0.17855	0.16945	0.19634	0.17730	0.19552	0.18687	AVRG		0.18400		5.85155
71 Bromobenzene	0.67738	0.71796	0.76105	0.77219	0.84006	0.79459	AVRG		0.76054		7.51829
72 n-Propylbenzene	0.67104	0.69954	0.83201	0.82649	0.87771	0.85955	AVRG		0.79439		10.95195
73 2-Chlorotoluene	0.68400	0.69367	0.76375	0.74545	0.79465	0.74215	AVRG		0.73728		5.69777
74 1,3,5-Trimethylbenzene	1.93039	1.99704	2.46004	2.51260	2.64584	2.64487	AVRG		2.36513		13.53395
75 4-Chlorotoluene	0.63713	0.69632	0.77736	0.74565	0.79191	0.74636	AVRG		0.73246		7.79784
76 tert-Butylbenzene	92454	201304	581020	1268856	2339078	5621585	WLINR	0.04252	2.57279		0.99935
77 1,2,4-Trimethylbenzene	1.98806	2.21708	2.58366	2.61070	2.70044	2.74617	AVRG		2.47435		12.23455
78 sec-Butylbenzene	2.44161	2.56395	2.94577	2.97234	3.07372	3.15078	AVRG		2.85803		10.05451
79 4-Isopropyltoluene	2.13911	2.47403	2.93057	2.94276	3.01076	3.14407	AVRG		2.77355		13.86187
80 1,3-Dichlorobenzene	1.68947	1.66898	1.70632	1.65160	1.67074	1.64740	AVRG		1.67242		1.34084
81 1,4-Dichlorobenzene	1.75490	1.71305	1.76048	1.65980	1.69624	1.70455	AVRG		1.71484		2.20872
82 n-Butylbenzene	1.73163	1.89878	2.13845	2.15650	2.15430	2.31344	AVRG		2.06552		10.20668
83 1,2-Dichlorobenzene	1.58266	1.67859	1.76116	1.64826	1.59927	1.59179	AVRG		1.64362		4.16469
84 1,2-Dibromo-3-chloropropane	0.10703	0.10712	0.11018	0.10969	0.11087	0.12278	AVRG		0.11128		5.26322
85 1,2,4-Trichlorobenzene	1.15920	1.15742	1.22213	1.20166	1.02118	1.18740	AVRG		1.15817		6.17871
86 Hexachlorobutadiene	0.59170	0.58611	0.60004	0.56339	0.45187	0.50281	AVRG		0.54932		10.79430
87 Naphthalene	1.65176	1.84448	2.20559	2.31584	1.97075	2.41899	AVRG		2.06790		14.28362

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Last Edit : 30-Jul-2010 12:21 a3ux15.i

	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
88	1,2,3-Trichlorobenzene	1.01364	1.11407	1.16754	1.11693	0.85934	1.00564	AVRG		1.04619		10.64002	
89	Ethyl Ether	0.35042	0.34359	0.32089	0.31310	0.34389	0.33381	AVRG		0.33428		4.37107	
90	Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
91	3-Chloropropene	0.15953	0.16557	0.15911	0.15533	0.18209	0.18329	AVRG		0.16748		7.30188	
92	Isopropyl Ether	0.24904	0.26412	0.27838	0.27407	0.31023	0.31126	AVRG		0.28118		8.89978	
93	2-Chloro-1,3-butadiene	0.55869	0.55964	0.60106	0.58536	0.70101	0.69050	AVRG		0.61604		10.36865	
94	Propionitrile	0.03755	0.04054	0.03697	0.03543	0.03922	0.04065	AVRG		0.03839		5.44892	
95	Ethyl Acetate	0.24505	0.20860	0.19695	0.19191	0.19429	0.20403	AVRG		0.20680		9.54668	
96	Methacrylonitrile	0.15838	0.18828	0.17319	0.15227	0.16901	0.17147	AVRG		0.16877		7.43618	
97	Isobutanol	0.01274	0.01386	0.01266	0.01031	0.00990	0.01071	AVRG		0.01170		13.68515	<-
98	Cyclohexane	0.65481	0.60709	0.71095	0.72641	0.70846	0.69831	AVRG		0.68434		6.56583	
99	n-Butanol	0.00660	0.00690	0.00769	0.00719	0.00722	0.00679	AVRG		0.00706		5.46980	<-
100	Methyl Methacrylate	0.13418	0.14077	0.14947	0.14004	0.16067	0.17275	AVRG		0.14965		9.75386	
101	2-Nitropropane	0.04384	0.03900	0.03887	0.03601	0.04164	0.04726	AVRG		0.04110		9.79130	
102	Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
103	Cyclohexanone	0.01717	0.01906	0.01866	0.01720	0.01680	0.01957	AVRG		0.01808		6.42929	
104	Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105	Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
134	Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
135	Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
136	Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
M 137	Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
141 1,3,5-Trichlorobenzene	1.22500	1.38225	1.39601	1.34055	1.16929	1.32981	AVRG		1.30715		6.92077	
143 Methyl Acetate	0.22068	0.21659	0.21870	0.21671	0.20289	0.21091	AVRG		0.21441		3.04124	
144 Methylcyclohexane	0.45075	0.44072	0.49737	0.50731	0.50954	0.51395	AVRG		0.48661		6.63342	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
146 2-Methylnaphthalene	53316	119684	347874	901985	2486556	5212895	QUAD	0.29762	0.60300	-0.00493	0.99528	
147 Tetrahydrothiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
148 1,4-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
151 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
152 Vinyl Acetate-86	1584	4707	14786	32728	67533	154414	WLINR	0.06727	0.03625		0.99824	
153 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
154 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
155 tert-Butyl Ethyl Ether	0.94257	0.99116	1.02291	1.01842	1.16140	1.20757	AVRG		1.05734		9.79678	
156 tert-Amyl Methyl Ether	0.56056	0.54616	0.58126	0.59168	0.69653	0.71621	AVRG		0.61540		11.77976	
157 1,2,3-Trimethylbezene	74433	171063	467122	1128472	2687179	5582224	WLINR	0.07188	3.79197		0.99091	
$ 4 Dibromofluoromethane	0.34994	0.33127	0.34952	0.34625	0.34015	0.34218	AVRG		0.34322		2.04940	
$ 5 1,2-Dichloroethane-d4	0.40980	0.41487	0.42944	0.42614	0.42081	0.44068	AVRG		0.42362		2.60023	
$ 6 Toluene-d8	1.39720	1.46437	1.54634	1.55360	1.57654	1.56374	AVRG		1.51696		4.66631	
$ 7 Bromofluorobenzene	0.50728	0.52322	0.55214	0.55763	0.54786	0.55390	AVRG		0.54034		3.76068	

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☐ 8260A ☑ 8260B ☐ 624

Analysis Date: 7/30/10 Run batch ID: 621470

Curve ID: C007730A-IC.b (curve ID must include instrument designation and date reference)

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

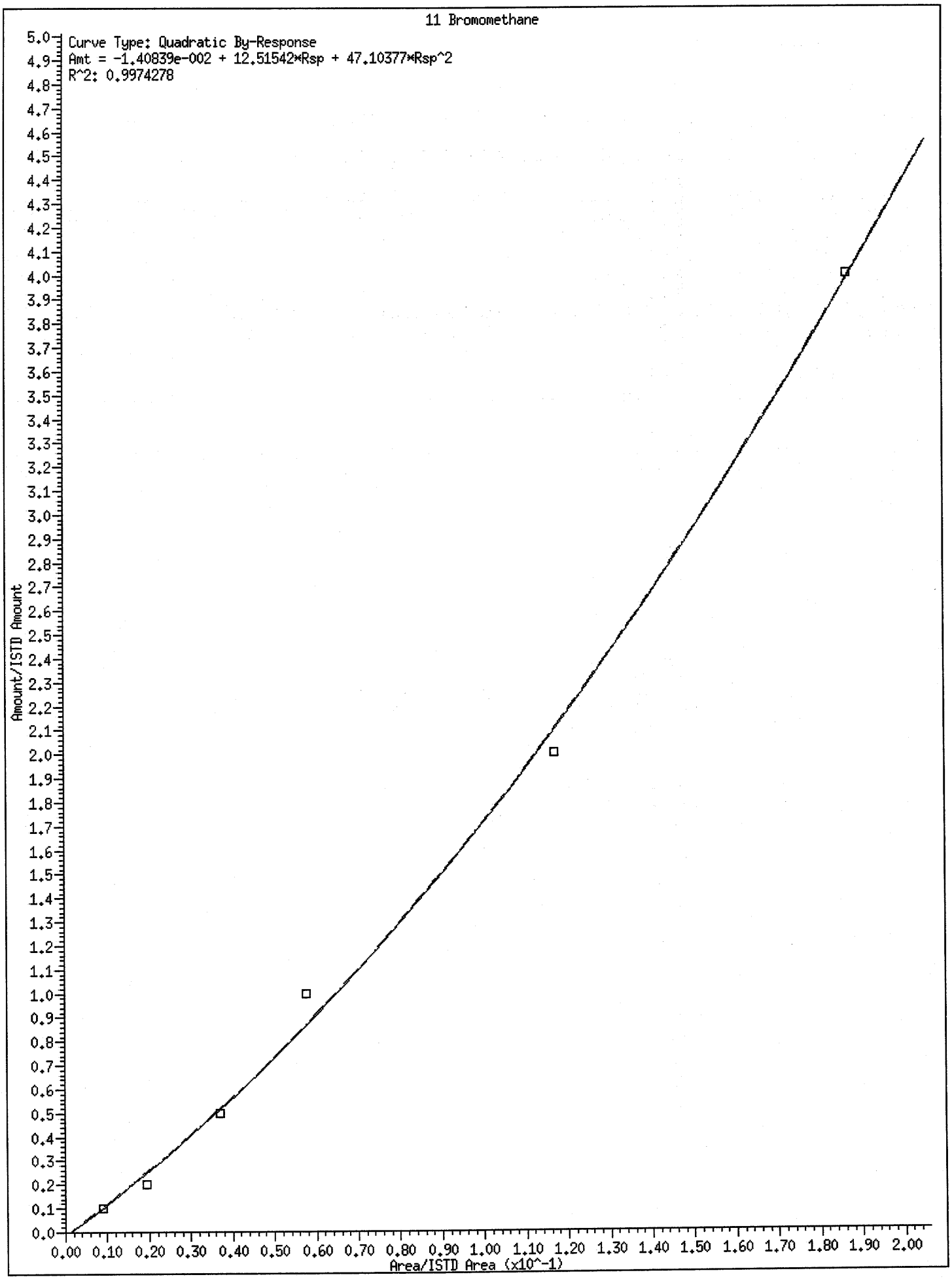
Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	NA		NA	
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form				

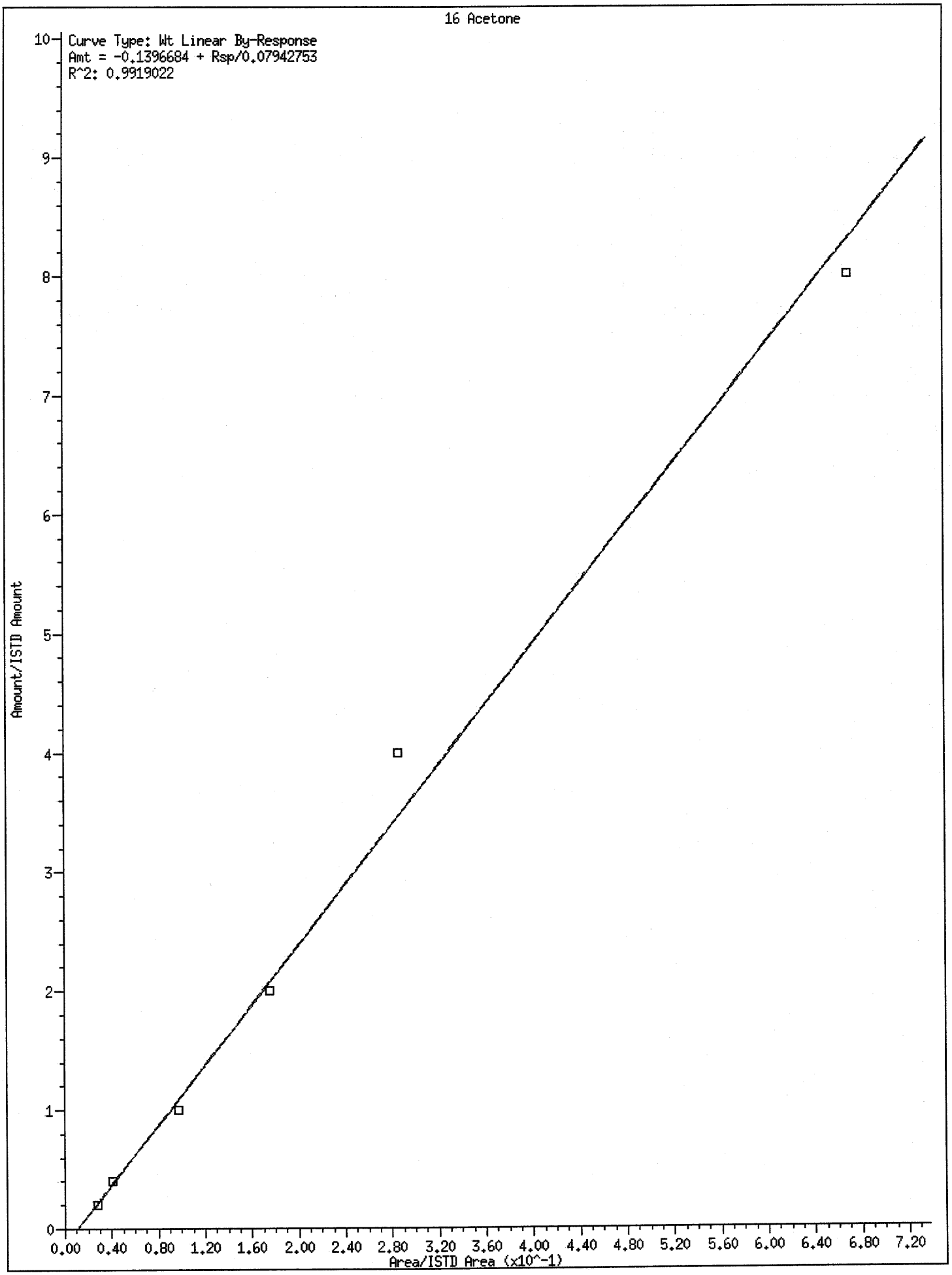
Reviewed by Analyst/ Level I: _____ Date: 8/2/10

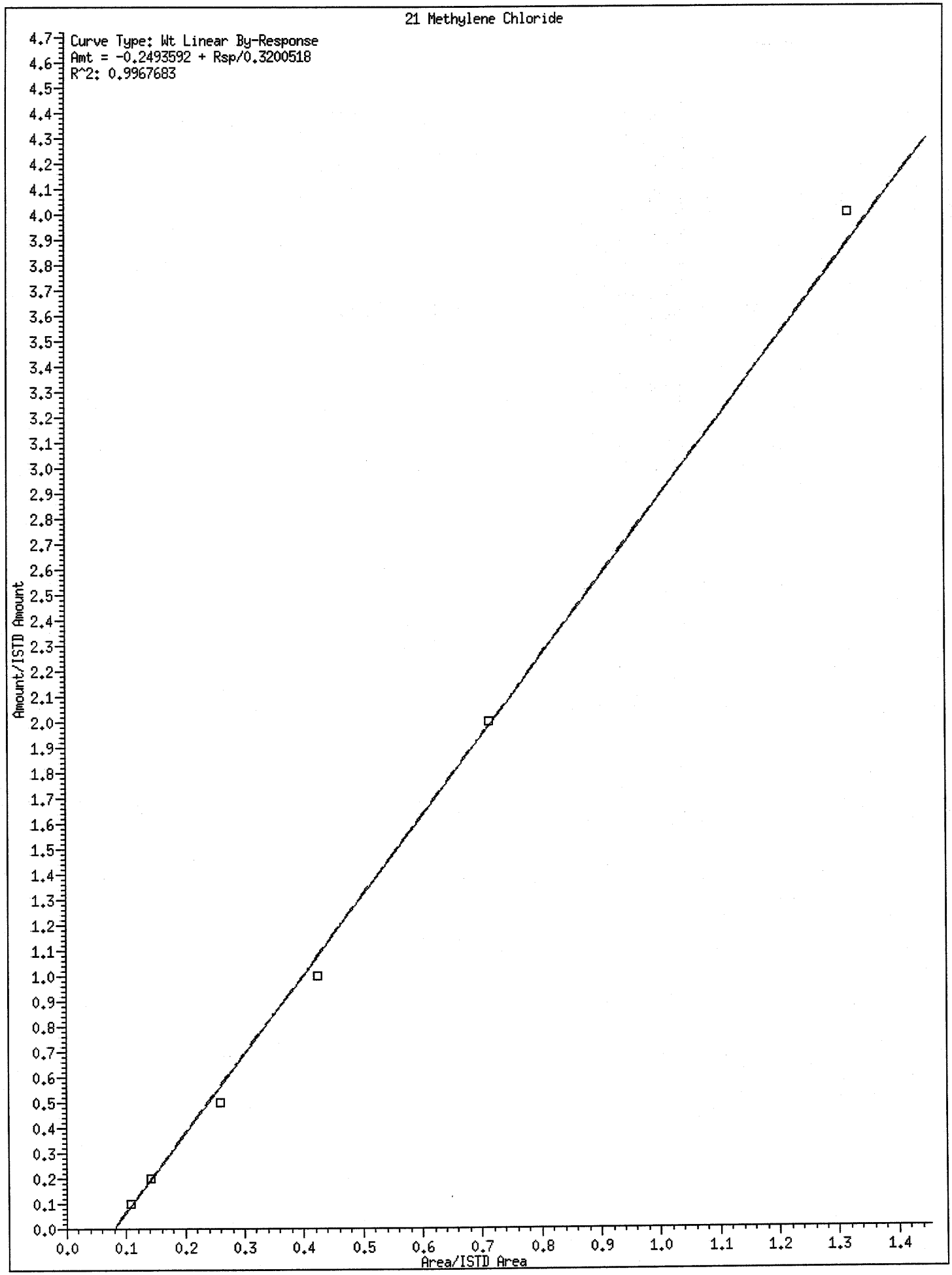
Reviewed by Peer/Sup/ Level II: Thomas E Sculley Date: 8/2/10
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

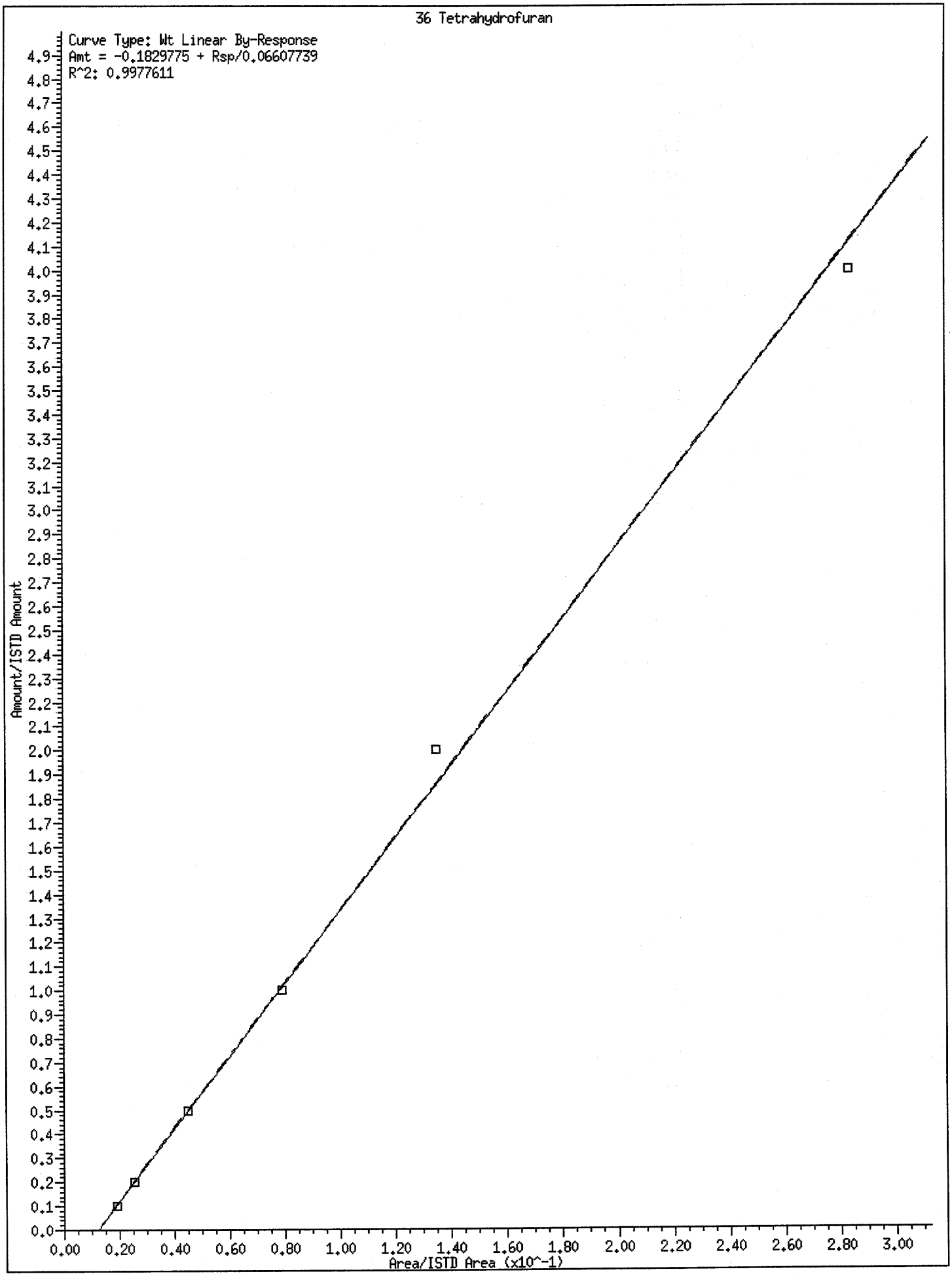
*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

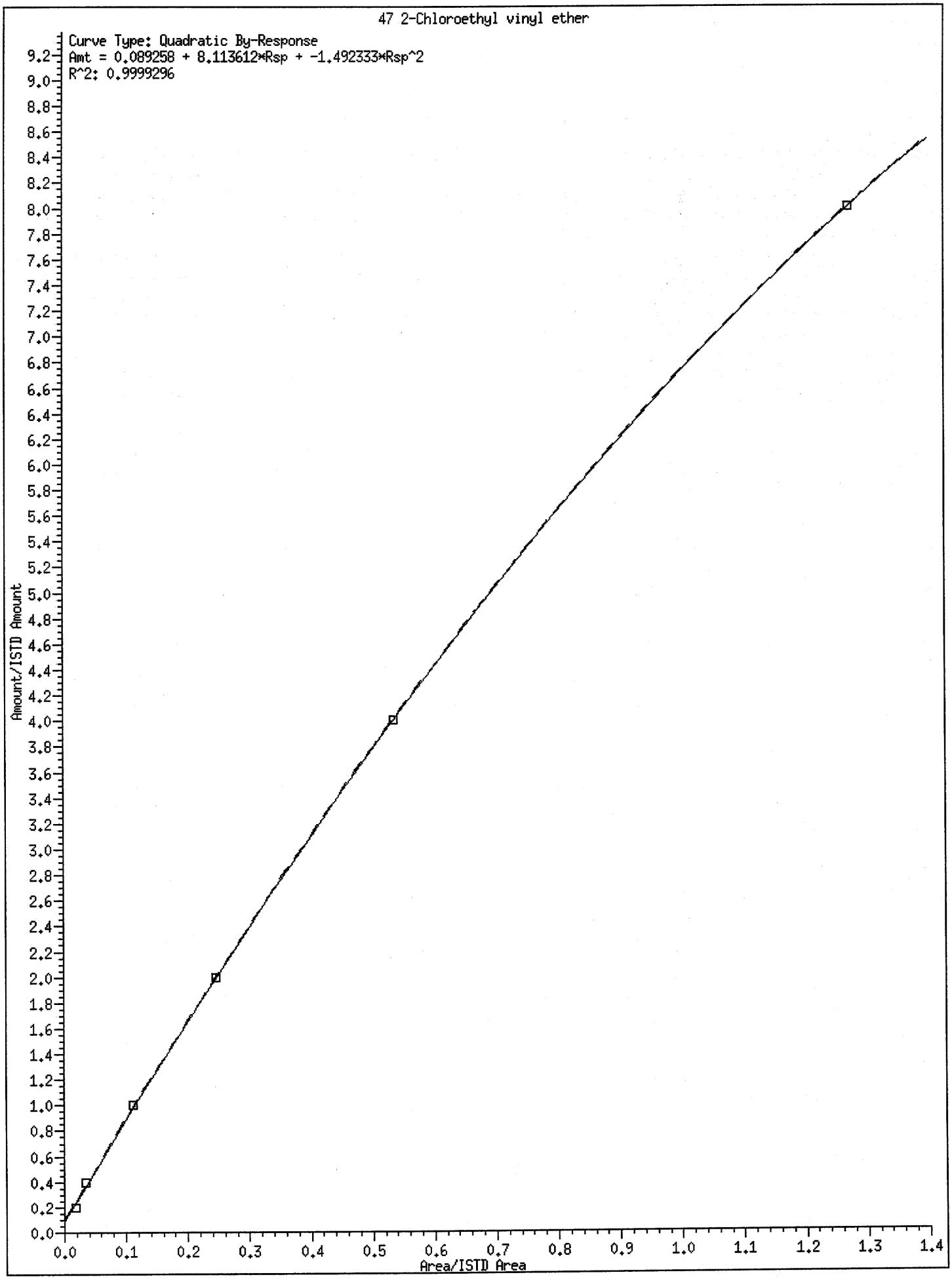
Reviewed by Peer/Sup: _____ Date: _____

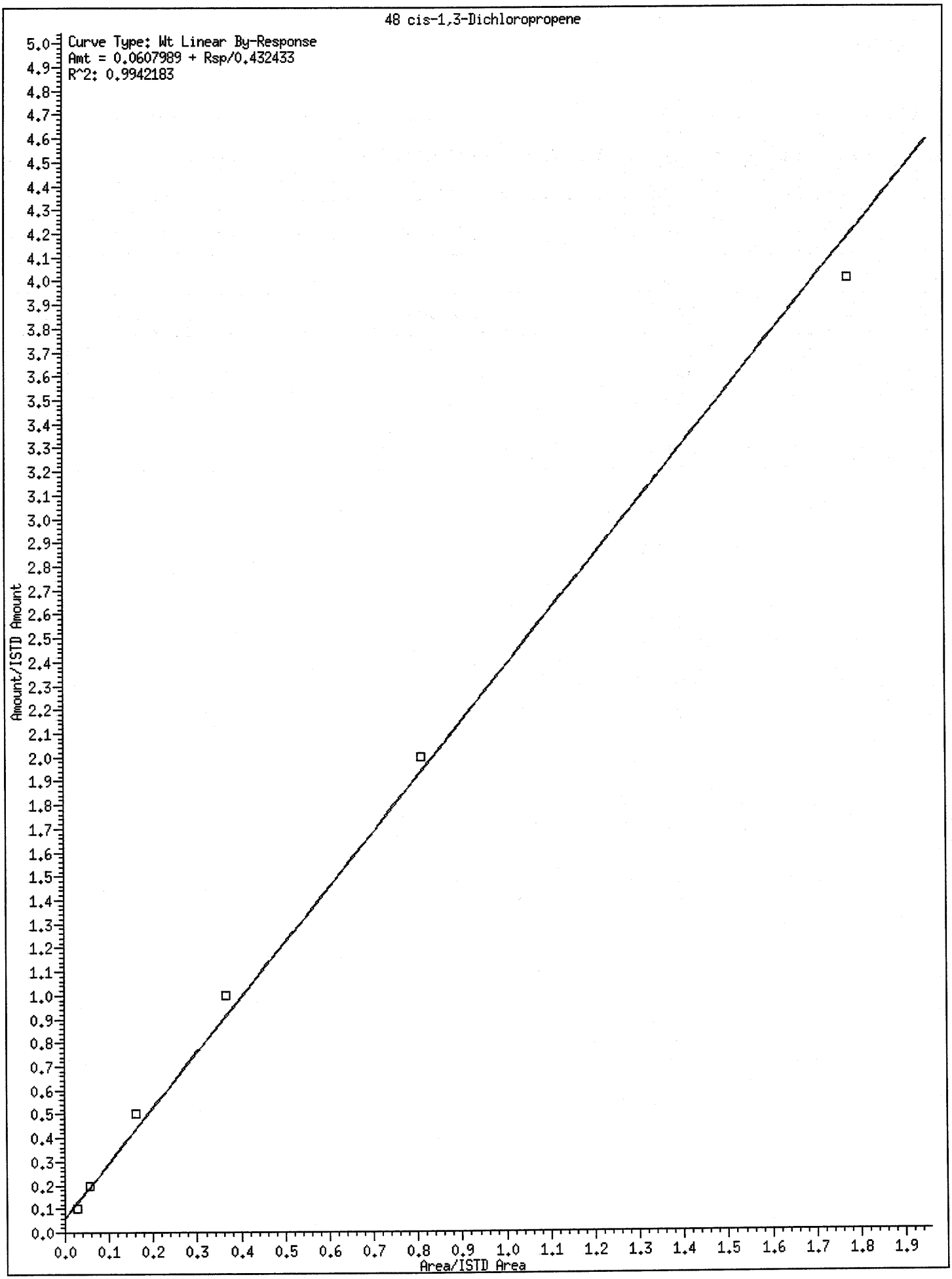

11 Bromomethane
Curve Type: Quadratic By-Response
Amt = -1.40839e-002 + 12.51542*Rsp + 47.10377*Rsp^2
R^2: 0.9974278
Amount/ISTD Amount
Area/ISTD Area (x10^-1)

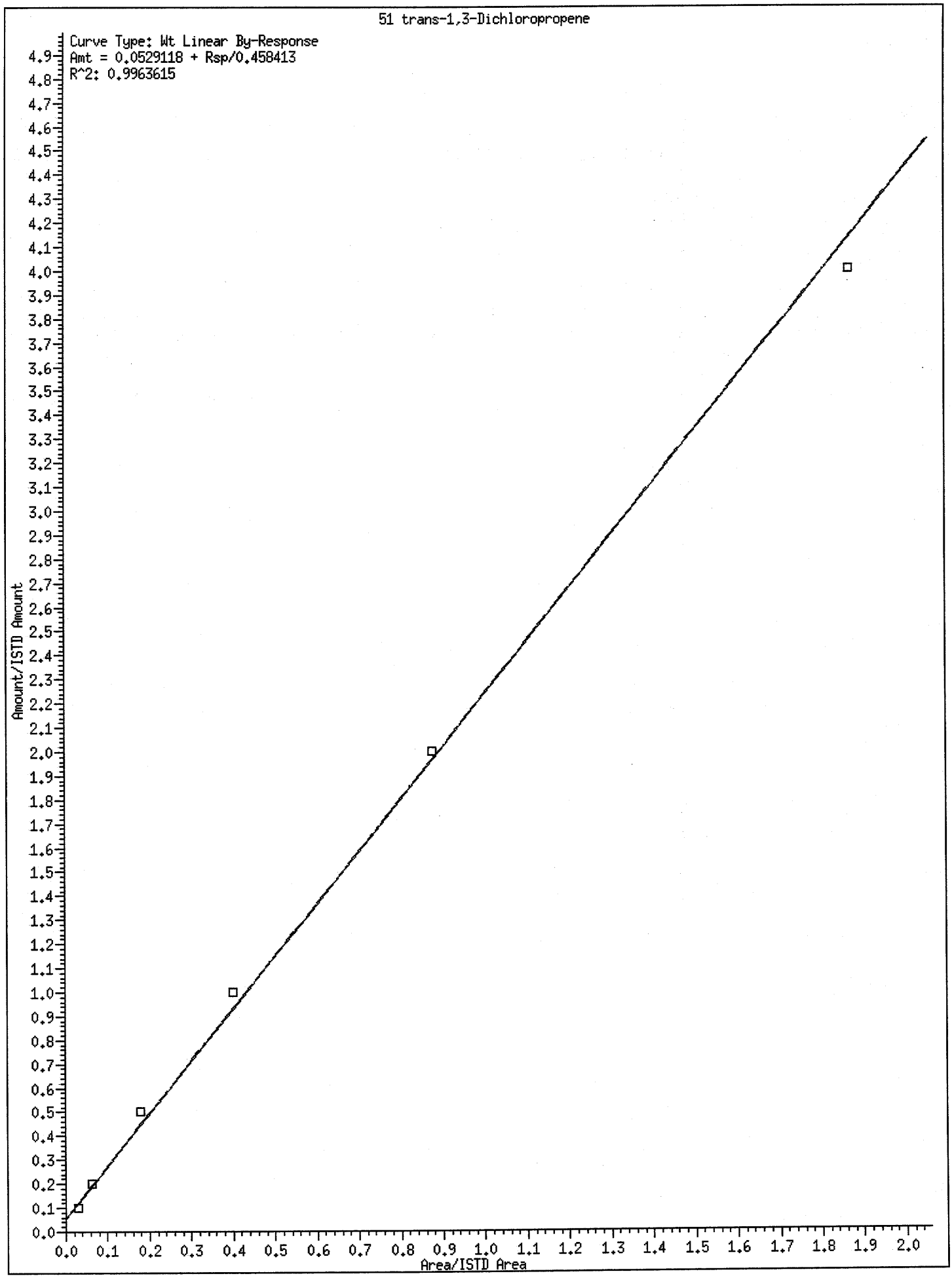

16 Acetone
Curve Type: Wt Linear By-Response
Amt = -0.1396684 + Rsp/0.07942753
R^2: 0.9919022
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0
1
2
3
4
5
6
7
8
9
10
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
3.60
4.00
4.40
4.80
5.20
5.60
6.00
6.40
6.80
7.20

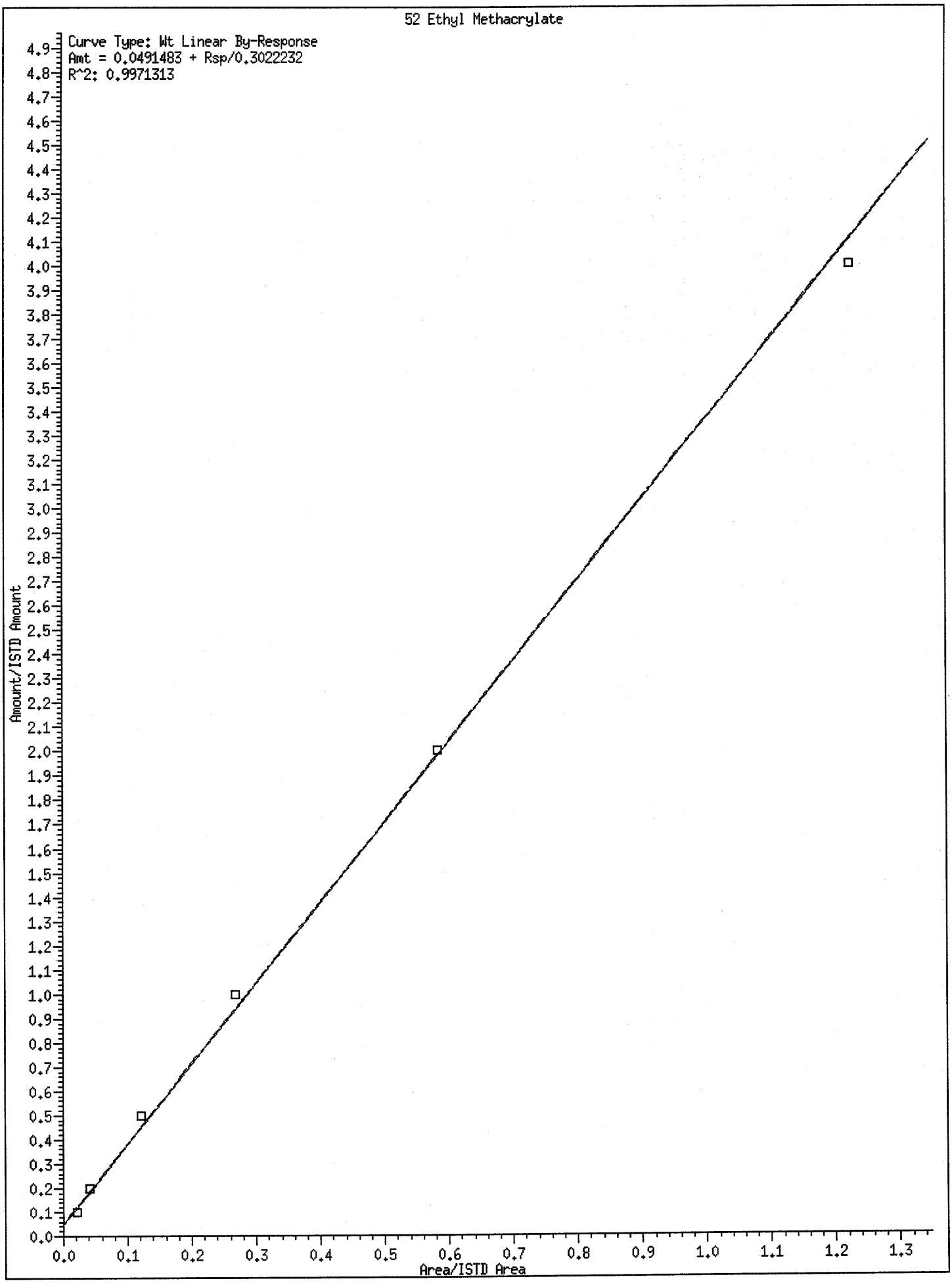

21 Methylene Chloride
Curve Type: Wt Linear By-Response
Amt = -0.2493592 + Rsp/0.3200518
R^2: 0.9967683
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

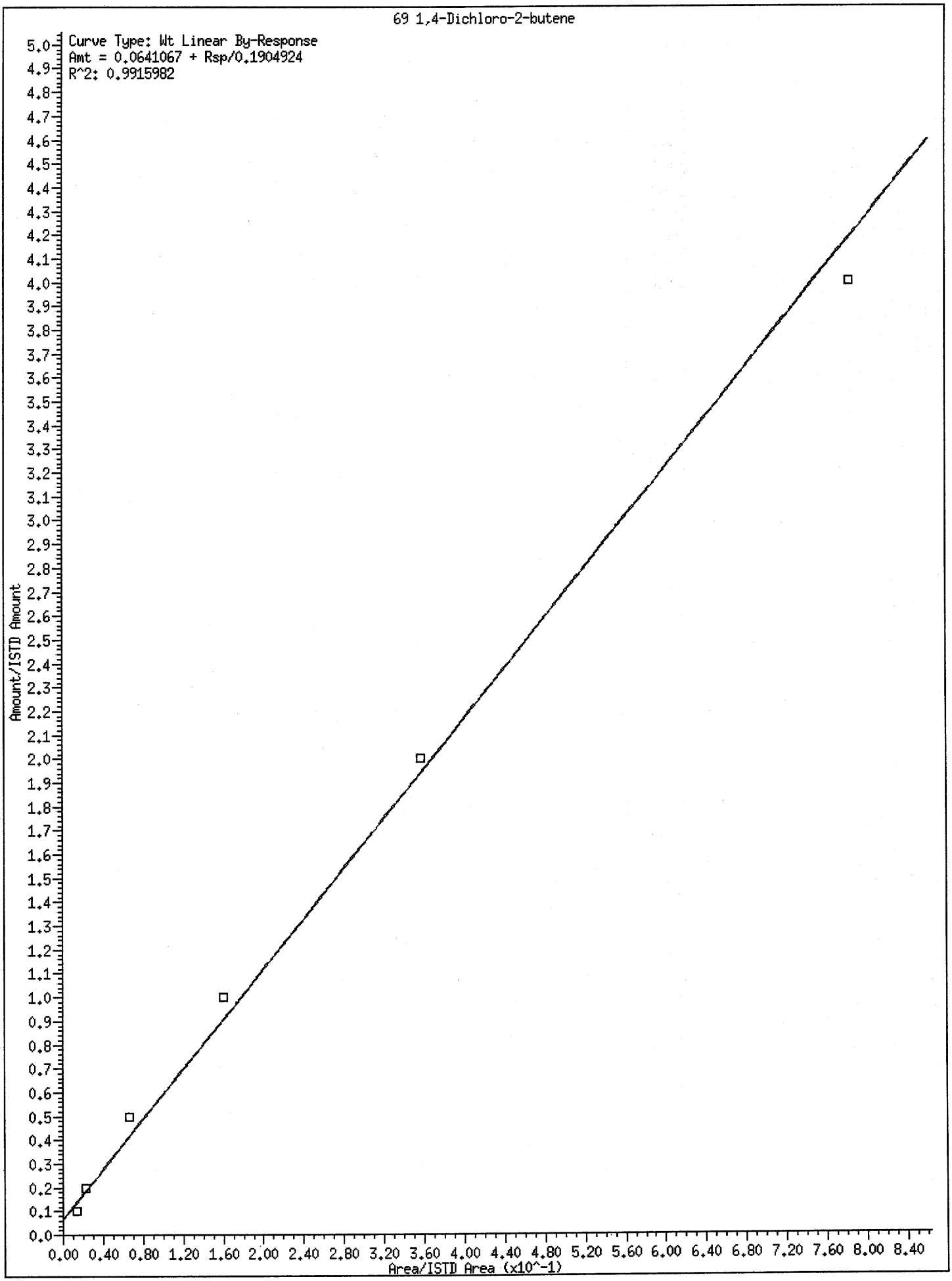

36 Tetrahydrofuran
Curve Type: Wt Linear By-Response
Amt = -0.1829775 + Rsp/0.06607739
R^2: 0.9977611
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80
3.00

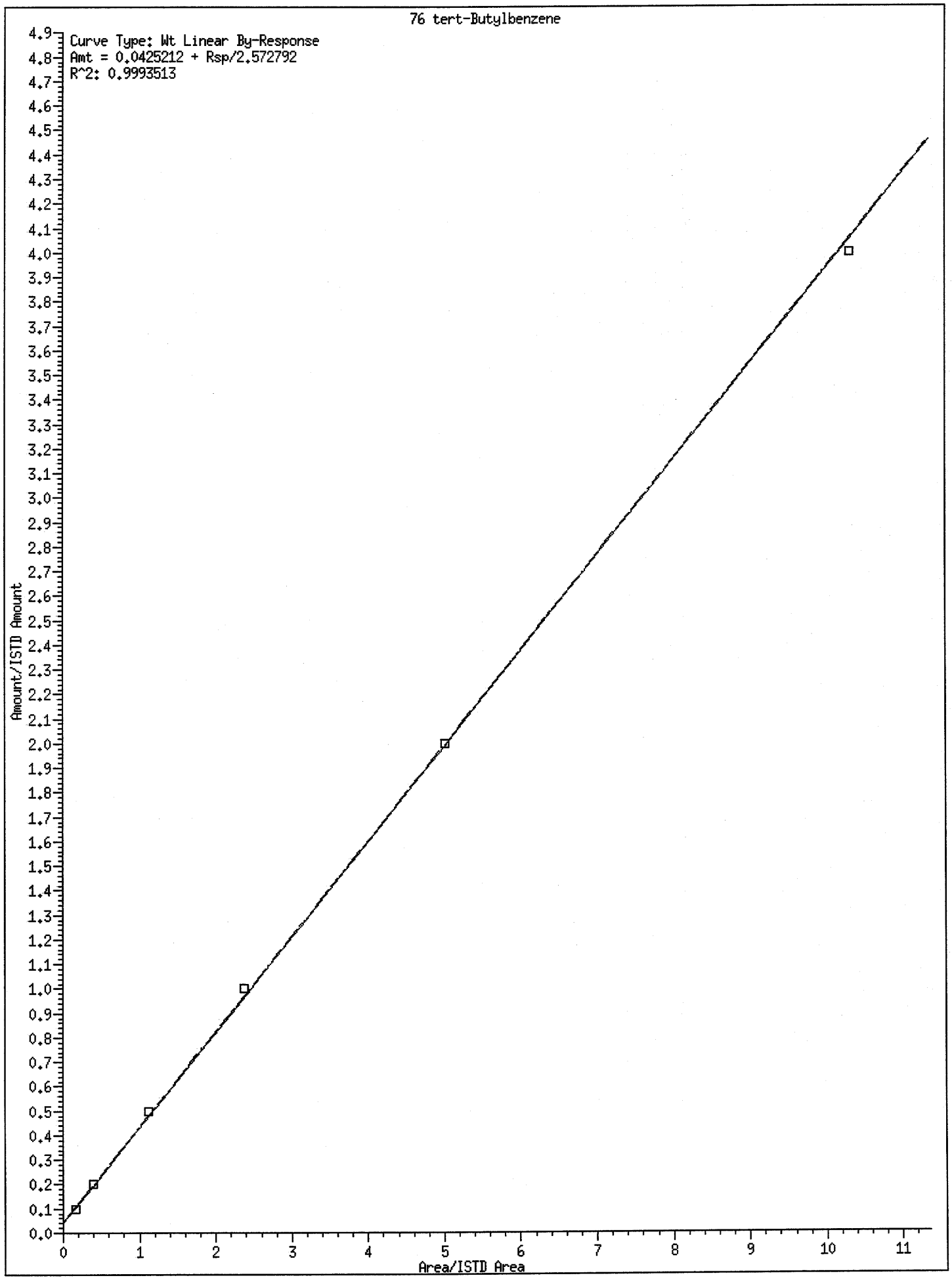

47 2-Chloroethyl vinyl ether
Curve Type: Quadratic By-Response
Amt = 0.089258 + 8.113612*Rsp + -1.492333*Rsp^2
R^2: 0.9999296
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4

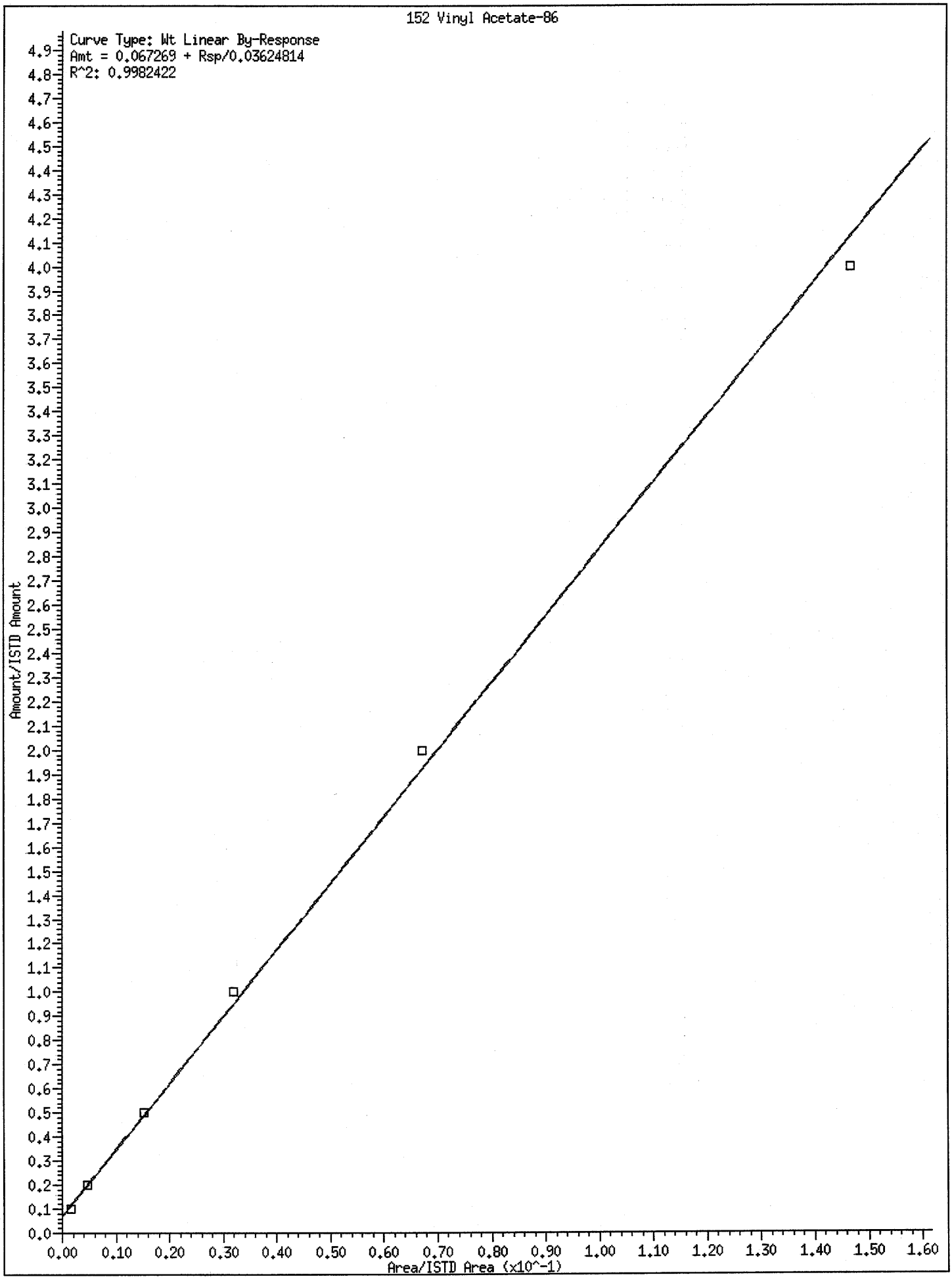

48 cis-1,3-Dichloropropene
Curve Type: Wt Linear By-Response
Amt = 0.0607989 + Rsp/0.432433
R^2: 0.9942183
Amount/ISTD Amount
Area/ISTD Area

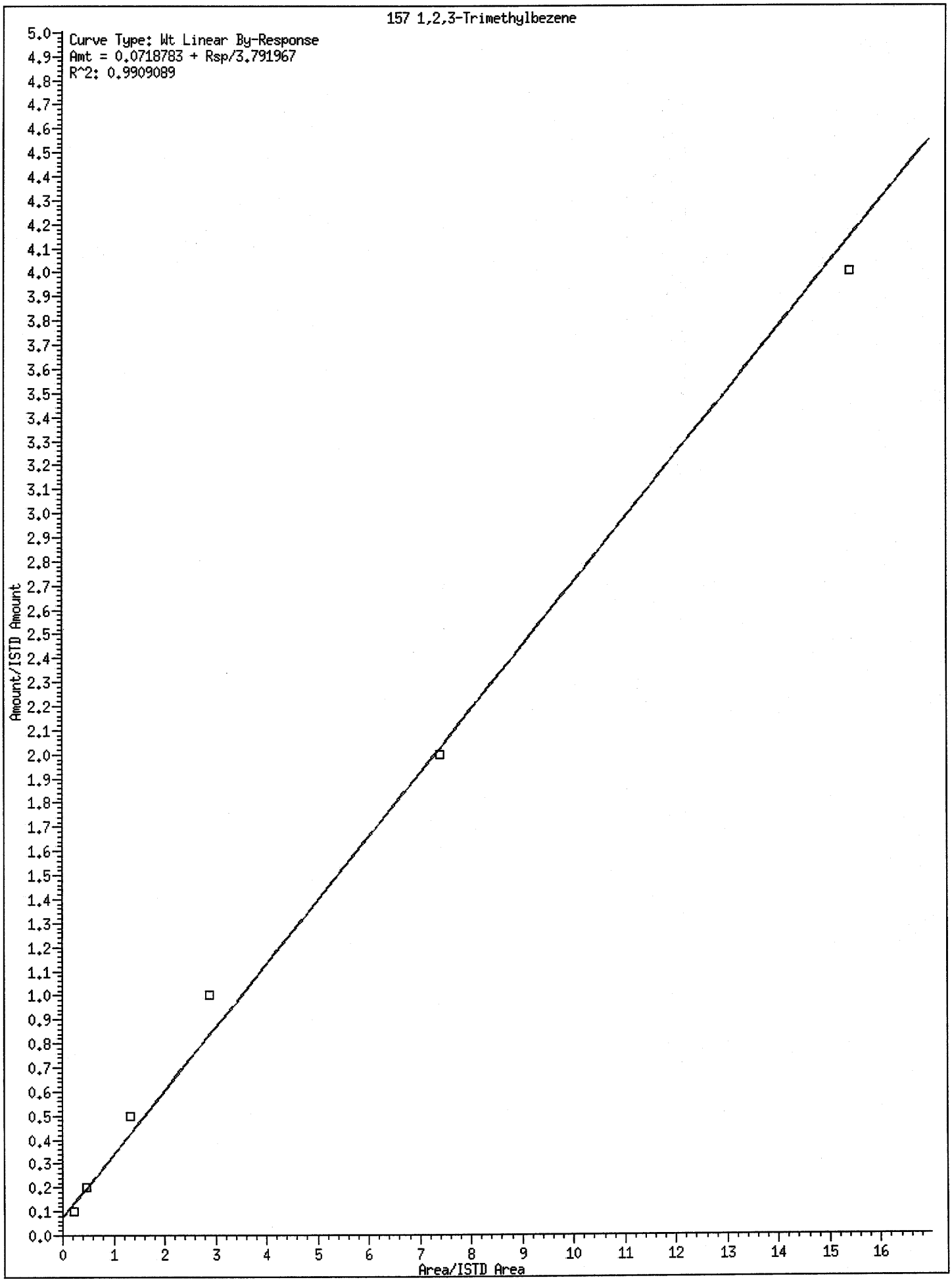

51 trans-1,3-Dichloropropene
Curve Type: Wt Linear By-Response
Amt = 0.0529118 + Rsp/0.458413
R^2: 0.9963615
Amount/ISTD Amount
Area/ISTD Area


52 Ethyl Methacrylate
Curve Type: Wt Linear By-Response
Amt = 0.0491483 + Rsp/0.3022232
R^2: 0.9971313
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0


69 1,4-Dichloro-2-butene
Curve Type: Wt Linear By-Response
Amt = 0.0641067 + Rsp/0.1904924
R^2: 0.9915982
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


76 tert-Butylbenzene
Curve Type: Wt Linear By-Response
Amt = 0.0425212 + Rsp/2.572792
R^2: 0.9993513
Amount/ISTD Amount
Area/ISTD Area


152 Vinyl Acetate-86
Curve Type: Wt Linear By-Response
Amt = 0.067269 + Rsp/0.03624814
R^2: 0.9982422
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
1.10
1.20
1.30
1.40
1.50
1.60


157 1,2,3-Trimethylbezene
Curve Type: Wt Linear By-Response
Amt = 0.0718783 + Rsp/3.791967
R^2: 0.9909089
Amount/ISTD Amount
Area/ISTD Area

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Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0246.D
Lab Smp Id: 200NG-IC
Inj Date : 30-JUL-2010 10:07
Operator : 43582 Inst ID: a3ux15.i
Smp Info : 200NG-IC
Misc Info : C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
*	1 Fluorobenzene	96	6.718	6.718	(1.000)	1050924	50.0000		
*	2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	846943	50.0000		(H)
*	3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	544488	50.0000		
$	4 Dibromofluoromethane	113	6.042	6.042	(0.899)	1438418	200.000	199.39	
$	5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	1852475	200.000	208.05	
$	6 Toluene-d8	98	8.188	8.188	(0.868)	5297609	200.000	206.17	
$	7 Bromofluorobenzene	95	10.429	10.429	(1.106)	1876489	200.000	205.02	
	8 Dichlorodifluoromethane	85	1.393	1.393	(0.207)	1359137	200.000	229.85	
	9 Chloromethane	50	1.559	1.559	(0.232)	1749229	200.000	171.23	
	10 Vinyl Chloride	62	1.666	1.666	(0.248)	1155357	200.000	173.14	
	11 Bromomethane	94	1.998	1.998	(0.297)	196611	200.000	198.80	
	12 Chloroethane	64	2.105	2.105	(0.313)	463664	200.000	162.41	
	13 Trichlorofluoromethane	101	2.389	2.389	(0.356)	1437665	200.000	231.24	
	15 Acrolein	56	2.875	2.875	(0.428)	1960310	2000.00	2086.7	
	16 Acetone	43	3.089	3.089	(0.460)	704390	400.000	414.95	
	17 1,1-Dichloroethene	96	2.994	2.994	(0.446)	1268557	200.000	188.32	
	18 Freon-113	151	3.041	3.041	(0.453)	1075593	200.000	200.79	
	19 Iodomethane	142	3.172	3.172	(0.472)	2395133	200.000	188.56	
	20 Carbon Disulfide	76	3.243	3.243	(0.483)	3453918	200.000	201.48	
	21 Methylene Chloride	84	3.682	3.682	(0.548)	1388368	200.000	193.92	
	23 Acrylonitrile	53	4.085	4.085	(0.608)	979095	400.000	395.89	
	24 Methyl tert-butyl ether	73	4.144	4.144	(0.617)	3072790	200.000	201.35	

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Report Date: 02-Aug-2010 08:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25 trans-1,2-Dichloroethene	96	4.121	4.121	(0.613)	1441649	200.000	191.21
26 Hexane	86	4.547	4.547	(0.677)	297061	200.000	214.18
27 Vinyl acetate	43	4.856	4.856	(0.723)	1852833	200.000	239.89
28 1,1-Dichloroethane	63	4.737	4.737	(0.705)	2728355	200.000	190.03
30 2-Butanone	43	5.520	5.520	(0.822)	871896	400.000	425.14
32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	1484952	200.000	192.78
33 2,2-Dichloropropane	77	5.472	5.472	(0.815)	1409551	200.000	202.91
34 Bromochloromethane	128	5.757	5.757	(0.857)	778064	200.000	194.61
35 Chloroform	83	5.864	5.864	(0.873)	2521144	200.000	198.43
36 Tetrahydrofuran	42	5.804	5.804	(0.864)	298434	200.000	205.73
37 1,1,1-Trichloroethane	97	6.042	6.042	(0.899)	2193475	200.000	209.01
38 1,1-Dichloropropene	75	6.220	6.220	(0.926)	1862073	200.000	208.55
39 Carbon Tetrachloride	117	6.220	6.220	(0.926)	2053214	200.000	210.44
40 1,2-Dichloroethane	62	6.457	6.457	(0.961)	2403460	200.000	206.93
41 Benzene	78	6.433	6.433	(0.958)	5006452	200.000	194.75
42 Trichloroethene	130	7.085	7.085	(1.055)	1647565	200.000	207.41
43 1,2-Dichloropropane	63	7.287	7.287	(1.085)	1391071	200.000	207.22
45 Dibromomethane	93	7.394	7.394	(1.101)	695332	200.000	206.48
46 Bromodichloromethane	83	7.548	7.548	(1.124)	1703408	200.000	224.31
47 2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	1337737	400.000	399.96
48 cis-1,3-Dichloropropene	75	7.963	7.963	(1.185)	1869319	200.000	208.71
49 4-Methyl-2-pentanone	43	8.105	8.105	(1.207)	1828178	400.000	463.19
50 Toluene	91	8.247	8.247	(0.874)	5596843	200.000	203.53
51 trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	1583876	200.000	206.62
52 Ethyl Methacrylate	69	8.532	8.532	(0.904)	1037956	200.000	205.21
53 1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	974528	200.000	202.29
54 1,3-Dichloropropane	76	8.745	8.745	(0.927)	1631353	200.000	211.93
55 Tetrachloroethene	164	8.722	8.722	(0.925)	1380847	200.000	198.87
56 2-Hexanone	43	8.817	8.817	(0.935)	1123489	400.000	441.26
57 Dibromochloromethane	129	8.947	8.947	(0.948)	1309559	200.000	232.74
58 1,2-Dibromoethane	107	9.042	9.042	(0.959)	1022821	200.000	219.13
59 Chlorobenzene	112	9.457	9.457	(1.002)	4002354	200.000	203.13
60 1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	1545134	200.000	204.72
61 Ethylbenzene	106	9.552	9.552	(1.013)	2049394	200.000	208.18
62 m + p-Xylene	106	9.647	9.647	(1.023)	5026205	400.000	399.18
64 Xylene-o	106	9.991	9.991	(1.059)	2412017	200.000	197.18
65 Styrene	104	10.002	10.002	(1.060)	3852424	200.000	215.54
66 Bromoform	173	10.157	10.157	(1.077)	727456	200.000	232.41
67 Isopropylbenzene	105	10.299	10.299	(1.092)	6770271	200.000	211.44
68 1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	1014184	200.000	197.62
69 1,4-Dichloro-2-butene	53	10.595	10.595	(0.929)	427050	200.000	209.07
70 1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	406987	200.000	203.11
71 Bromobenzene	156	10.560	10.560	(0.926)	1730583	200.000	208.96
72 n-Propylbenzene	120	10.643	10.643	(0.933)	1872060	200.000	216.40
73 2-Chlorotoluene	126	10.714	10.714	(0.940)	1616367	200.000	201.32
74 1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	5760399	200.000	223.66
75 4-Chlorotoluene	126	10.809	10.809	(0.948)	1625542	200.000	203.80
76 tert-Butylbenzene	119	11.070	11.070	(0.971)	5621585	200.000	202.77
77 1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	5981019	200.000	221.97
78 sec-Butylbenzene	105	11.248	11.248	(0.986)	6862253	200.000	220.49
79 4-Isopropyltoluene	119	11.366	11.366	(0.997)	6847643	200.000	226.72
80 1,3-Dichlorobenzene	146	11.342	11.342	(0.995)	3587956	200.000	197.01
81 1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	3712422	200.000	198.80
82 n-Butylbenzene	91	11.710	11.710	(1.027)	5038572	200.000	224.01

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0246.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	3466838	200.000	193.69
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	267407	200.000	220.67
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	2586106	200.000	205.05
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	1095088	200.000	183.06
87	Naphthalene	128	13.275	13.275	(1.164)	5268441	200.000	233.96
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	2190237	200.000	192.25
98	Cyclohexane	56	6.089	6.089	(0.906)	2935490	200.000	204.08
143	Methyl Acetate	43	3.563	3.563	(0.530)	1773176	400.000	393.46
144	Methylcyclohexane	83	7.251	7.251	(1.079)	2160474	200.000	211.24
141	1,3,5-Trichlorobenzene	180	12.564	12.564	(1.102)	2896264	200.000	203.47
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	154414	200.000	206.04

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0246.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

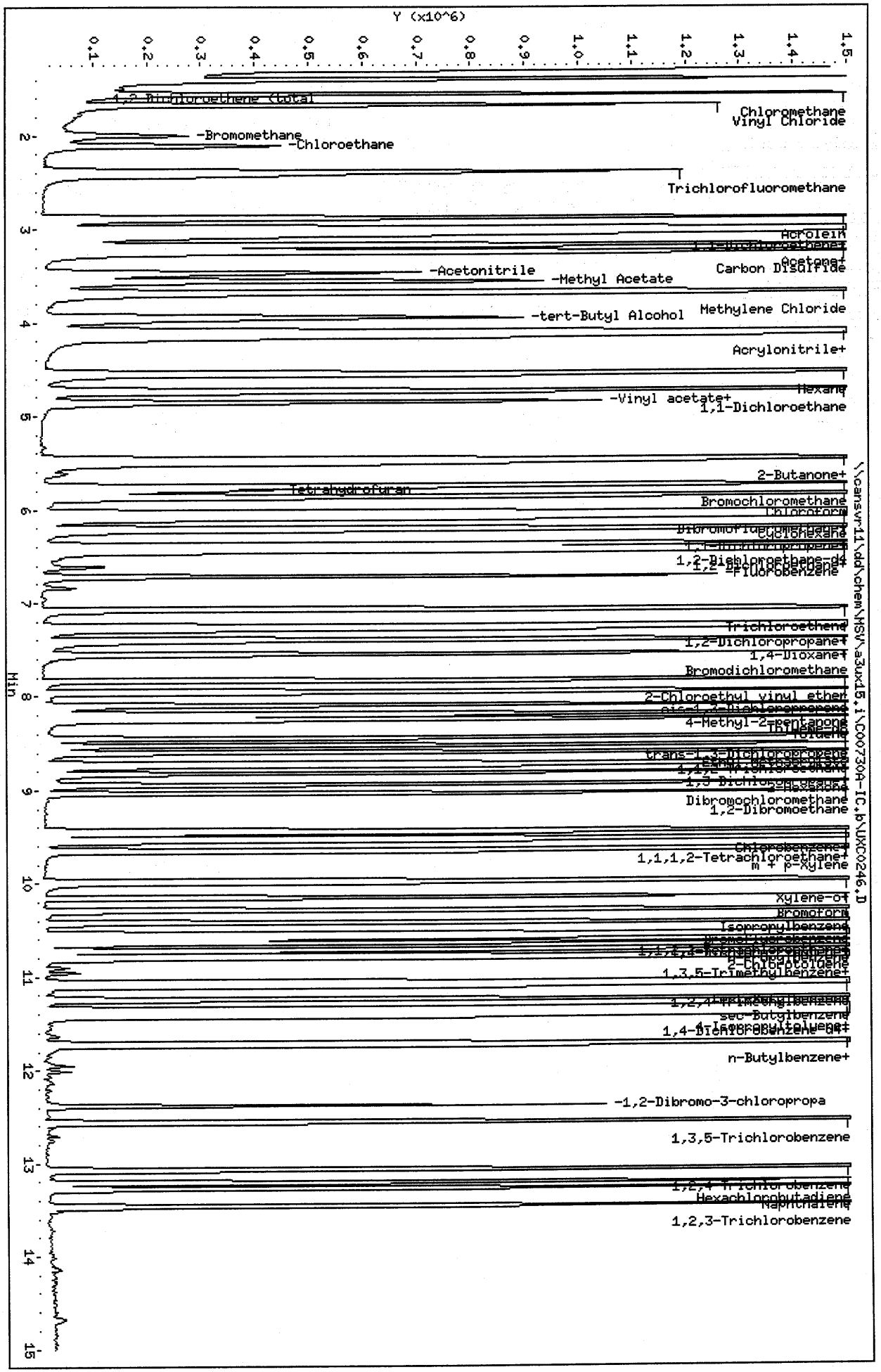
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0246.D
Lab Smp Id: 200NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1050924	2.91
2 Chlorobenzene-d5	769451	384726	1538902	846943	10.07
3 1,4-Dichlorobenze	534878	267439	1069756	544488	1.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0246.D
Date : 30-JUL-2010 10:07
Client ID:
Sample Info: 200NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
1,2-Dichloroethene (total
Chloromethane
Vinyl Chloride
-Bromomethane
-Chloroethane
Trichlorofluoromethane
Acrolein
Acetone
Carbon Disulfide
-Acetonitrile
-Methyl Acetate
Methylene Chloride
-tert-Butyl Alcohol
Acrylonitrile
Hexane
-Vinyl acetate
1,1-Dichloroethane
2-Butanone
Tetrahydrofuran
Bromochloromethane
Chloroform
Cyclohexane
1,2-Dichloroethane-d4
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
2-Chloroethyl vinyl ether
4-Methyl-2-pentanone
Toluene
trans-1,3-Dichloropropene
1,3-Dichloropropane
Dibromochloromethane
1,2-Dibromoethane
Chlorobenzene
1,1,1,2-Tetrachloroethane
m + p-Xylene
Xylene-o
Bromoform
Isopropylbenzene
2-Chlorotoluene
1,3,5-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4
n-Butylbenzene
-1,2-Dibromo-3-chloropropa
1,3,5-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0246.D

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0247.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0247.D
Lab Smp Id: 100NG-IC
Inj Date : 30-JUL-2010 10:30
Operator : 43582 Inst ID: a3ux15.i
Smp Info : 100NG-IC
Misc Info : C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 14:12 Cal File: UXC9966.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.718	6.718	(1.000)	1004220	50.0000	
*	2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	754788	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	466196	50.0000	
$	4 Dibromofluoromethane	113	6.042	6.042	(0.899)	683162	100.000	99.104
$	5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	845175	100.000	99.336
$	6 Toluene-d8	98	8.188	8.188	(0.868)	2379913	100.000	103.93
$	7 Bromofluorobenzene	95	10.429	10.429	(1.106)	827042	100.000	101.39
	8 Dichlorodifluoromethane	85	1.393	1.393	(0.207)	610869	100.000	108.11
	9 Chloromethane	50	1.559	1.559	(0.232)	888942	100.000	91.063
	10 Vinyl Chloride	62	1.666	1.666	(0.248)	653705	100.000	102.52
	11 Bromomethane	94	1.998	1.998	(0.297)	117328	100.000	104.56
	12 Chloroethane	64	2.117	2.117	(0.315)	248230	100.000	90.991
	13 Trichlorofluoromethane	101	2.389	2.389	(0.356)	651519	100.000	109.67
	15 Acrolein	56	2.875	2.875	(0.428)	889083	1000.00	990.44
	16 Acetone	43	3.089	3.089	(0.460)	287534	200.000	173.26
	17 1,1-Dichloroethene	96	2.994	2.994	(0.446)	630916	100.000	98.019
	18 Freon-113	151	3.041	3.041	(0.453)	508483	100.000	99.340
	19 Iodomethane	142	3.172	3.172	(0.472)	1186586	100.000	97.758
	20 Carbon Disulfide	76	3.243	3.243	(0.483)	1672695	100.000	102.11
	21 Methylene Chloride	84	3.682	3.682	(0.548)	718000	100.000	99.230
	23 Acrylonitrile	53	4.085	4.085	(0.608)	443507	200.000	187.67
	24 Methyl tert-butyl ether	73	4.144	4.144	(0.617)	1442171	100.000	98.898

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0247.D
Report Date: 02-Aug-2010 08:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25 trans-1,2-Dichloroethene	96	4.121	4.121	(0.613)	721269	100.000	100.11
26 Hexane	86	4.548	4.548	(0.677)	137606	100.000	103.83
27 Vinyl acetate	43	4.856	4.856	(0.723)	810334	100.000	109.79
28 1,1-Dichloroethane	63	4.737	4.737	(0.705)	1356755	100.000	98.892
30 2-Butanone	43	5.520	5.520	(0.822)	359665	200.000	183.53
32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	738860	100.000	100.38
33 2,2-Dichloropropane	77	5.472	5.472	(0.815)	676413	100.000	101.90
34 Bromochloromethane	128	5.757	5.757	(0.857)	390467	100.000	102.20
35 Chloroform	83	5.864	5.864	(0.873)	1200409	100.000	98.872
36 Tetrahydrofuran	42	5.805	5.805	(0.864)	135642	100.000	93.058
37 1,1,1-Trichloroethane	97	6.042	6.042	(0.899)	1038476	100.000	103.56
38 1,1-Dichloropropene	75	6.220	6.220	(0.926)	881970	100.000	103.37
39 Carbon Tetrachloride	117	6.220	6.220	(0.926)	967506	100.000	103.77
40 1,2-Dichloroethane	62	6.457	6.457	(0.961)	1082349	100.000	97.521
41 Benzene	78	6.433	6.433	(0.958)	2373302	100.000	96.615
42 Trichloroethene	130	7.085	7.085	(1.055)	752368	100.000	99.120
43 1,2-Dichloropropane	63	7.287	7.287	(1.085)	652924	100.000	101.78
45 Dibromomethane	93	7.394	7.394	(1.101)	329435	100.000	102.38
46 Bromodichloromethane	83	7.548	7.548	(1.124)	772513	100.000	106.46
47 2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	537623	200.000	200.26
48 cis-1,3-Dichloropropene	75	7.951	7.951	(1.184)	813323	100.000	96.685
49 4-Methyl-2-pentanone	43	8.105	8.105	(1.207)	817976	200.000	216.88
50 Toluene	91	8.247	8.247	(0.874)	2530979	100.000	103.28
51 trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	660901	100.000	98.150
52 Ethyl Methacrylate	69	8.532	8.532	(0.904)	441265	100.000	99.177
53 1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	426872	100.000	99.426
54 1,3-Dichloropropane	76	8.745	8.745	(0.927)	717583	100.000	104.60
55 Tetrachloroethene	164	8.722	8.722	(0.925)	626961	100.000	101.32
56 2-Hexanone	43	8.817	8.817	(0.935)	482585	200.000	212.68
57 Dibromochloromethane	129	8.947	8.947	(0.948)	552451	100.000	110.17
58 1,2-Dibromoethane	107	9.042	9.042	(0.959)	434441	100.000	104.44
59 Chlorobenzene	112	9.457	9.457	(1.002)	1768244	100.000	100.70
60 1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	679531	100.000	101.03
61 Ethylbenzene	106	9.552	9.552	(1.013)	929855	100.000	105.99
62 m + p-Xylene	106	9.647	9.647	(1.023)	2350434	200.000	209.46
64 Xylene-o	106	9.991	9.991	(1.059)	1129631	100.000	103.62
65 Styrene	104	10.002	10.002	(1.060)	1739408	100.000	109.20
66 Bromoform	173	10.157	10.157	(1.077)	297668	100.000	106.71
67 Isopropylbenzene	105	10.299	10.299	(1.092)	2965011	100.000	103.91
68 1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	454747	100.000	103.49
69 1,4-Dichloro-2-butene	53	10.595	10.595	(0.929)	166354	100.000	96.866
70 1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	182305	100.000	106.26
71 Bromobenzene	156	10.560	10.560	(0.926)	783262	100.000	110.46
72 n-Propylbenzene	120	10.643	10.643	(0.933)	818372	100.000	110.49
73 2-Chlorotoluene	126	10.714	10.714	(0.940)	740925	100.000	107.78
74 1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	2466964	100.000	111.87
75 4-Chlorotoluene	126	10.809	10.809	(0.948)	738374	100.000	108.12
76 tert-Butylbenzene	119	11.070	11.070	(0.971)	2339078	100.000	99.634
77 1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	2517873	100.000	109.14
78 sec-Butylbenzene	105	11.248	11.248	(0.986)	2865912	100.000	107.55
79 4-Isopropyltoluene	119	11.366	11.366	(0.997)	2807210	100.000	108.55
80 1,3-Dichlorobenzene	146	11.342	11.342	(0.995)	1557787	100.000	99.900
81 1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	1581561	100.000	98.916
82 n-Butylbenzene	91	11.710	11.710	(1.027)	2008656	100.000	104.30

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0247.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	1491149	100.000	97.302
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	103370	100.000	99.630
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	952143	100.000	88.172
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	421322	100.000	82.260
87	Naphthalene	128	13.275	13.275	(1.164)	1837508	100.000	95.302
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	801241	100.000	82.140
98	Cyclohexane	56	6.089	6.089	(0.906)	1422909	100.000	103.52
143	Methyl Acetate	43	3.563	3.563	(0.530)	815000	200.000	189.26
144	Methylcyclohexane	83	7.251	7.251	(1.079)	1023389	100.000	104.71
141	1,3,5-Trichlorobenzene	180	12.564	12.564	(1.102)	1090235	100.000	89.453
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	67533	100.000	96.126

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0247.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

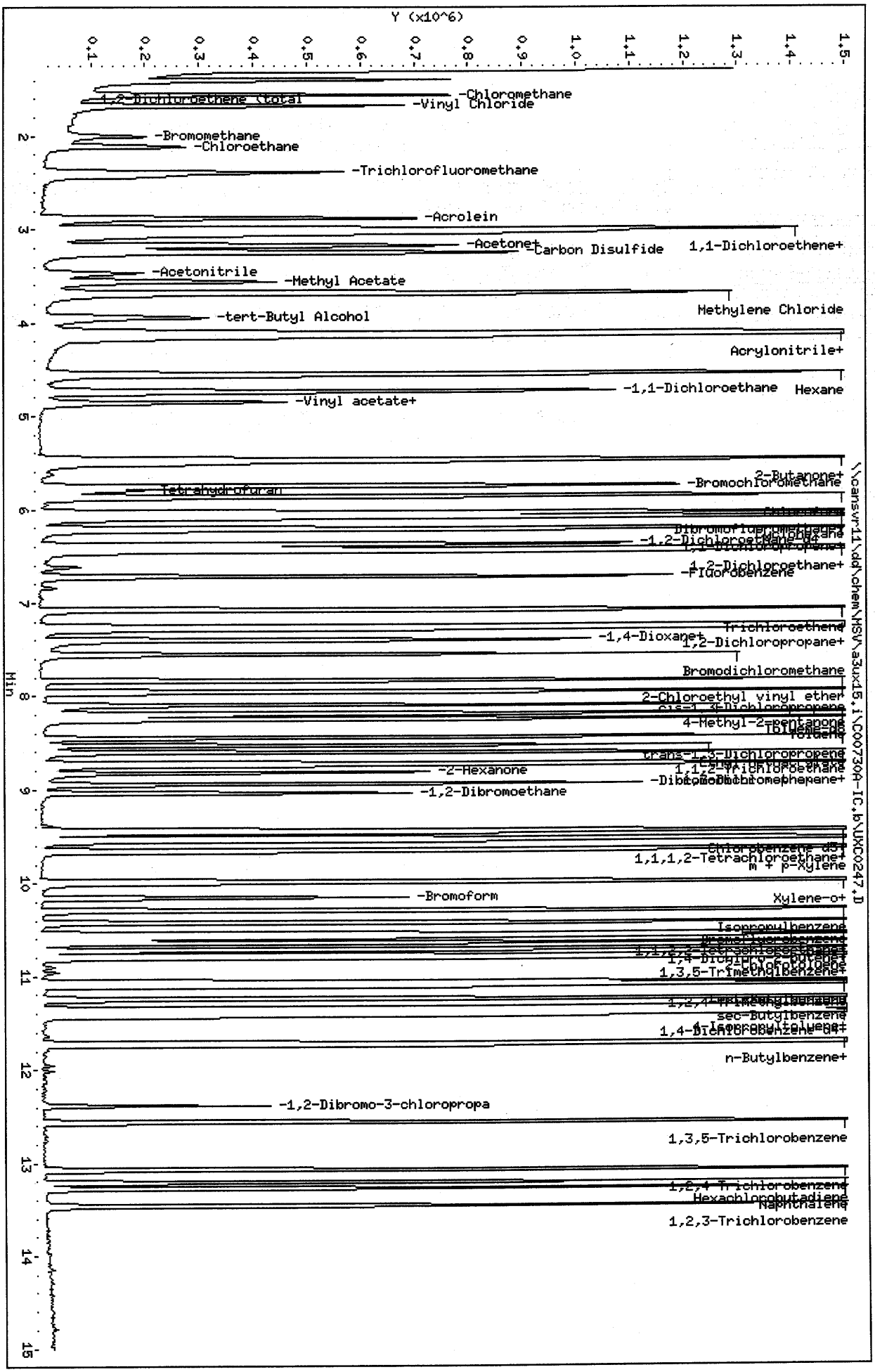
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0247.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1004220	-1.66
2 Chlorobenzene-d5	769451	384726	1538902	754788	-1.91
3 1,4-Dichlorobenze	534878	267439	1069756	466196	-12.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0247.D
Date : 30-JUL-2010 10:30
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux15.i
Operator: 43582
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0248.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0248.D
Lab Smp Id: 50NG-IC
Inj Date : 30-JUL-2010 10:53
Operator : 43582 Inst ID: a3ux15.i
Smp Info : 50NG-IC
Misc Info : C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 14:36 Cal File: UXC9967.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.717	6.717	(1.000)	1021210	50.0000	
* 2	Chlorobenzene-d5	117	9.433	9.433	(1.000)	769451	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	534878	50.0000	
$ 4	Dibromofluoromethane	113	6.041	6.041	(0.899)	353599	50.0000	50.442
$ 5	1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	435176	50.0000	50.297
$ 6	Toluene-d8	98	8.188	8.188	(0.868)	1195417	50.0000	51.207
$ 7	Bromofluorobenzene	95	10.429	10.429	(1.106)	429066	50.0000	51.600
8	Dichlorodifluoromethane	85	1.393	1.393	(0.207)	265100	50.0000	46.137
9	Chloromethane	50	1.559	1.559	(0.232)	473101	50.0000	47.658
10	Vinyl Chloride	62	1.666	1.666	(0.248)	319051	50.0000	49.204
11	Bromomethane	94	1.998	1.998	(0.297)	59104	50.0000	43.402
12	Chloroethane	64	2.116	2.116	(0.315)	127549	50.0000	45.976
13	Trichlorofluoromethane	101	2.389	2.389	(0.356)	296626	50.0000	49.100
15	Acrolein	56	2.875	2.875	(0.428)	477942	500.000	523.57
16	Acetone	43	3.089	3.089	(0.460)	179781	100.000	103.84
17	1,1-Dichloroethene	96	2.994	2.994	(0.446)	334605	50.0000	51.119
18	Freon-113	151	3.041	3.041	(0.453)	246530	50.0000	47.362
19	Iodomethane	142	3.172	3.172	(0.472)	622598	50.0000	50.440
20	Carbon Disulfide	76	3.243	3.243	(0.483)	833105	50.0000	50.012
21	Methylene Chloride	84	3.682	3.682	(0.548)	433100	50.0000	53.788
23	Acrylonitrile	53	4.097	4.097	(0.610)	242714	100.000	101.00
24	Methyl tert-butyl ether	73	4.132	4.132	(0.615)	771821	50.0000	52.047

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0248.D
Report Date: 02-Aug-2010 08:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25 trans-1,2-Dichloroethene	96	4.109	4.109	(0.612)	376517	50.0000	51.392
26 Hexane	86	4.547	4.547	(0.677)	70495	50.0000	52.307
27 Vinyl acetate	43	4.856	4.856	(0.723)	398329	50.0000	53.073
28 1,1-Dichloroethane	63	4.737	4.737	(0.705)	705279	50.0000	50.552
30 2-Butanone	43	5.520	5.520	(0.822)	207835	100.000	104.29
32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	377384	50.0000	50.418
33 2,2-Dichloropropane	77	5.472	5.472	(0.815)	343509	50.0000	50.888
34 Bromochloromethane	128	5.757	5.757	(0.857)	198397	50.0000	51.067
35 Chloroform	83	5.864	5.864	(0.873)	624850	50.0000	50.610
36 Tetrahydrofuran	42	5.804	5.804	(0.864)	80524	50.0000	50.517
37 1,1,1-Trichloroethane	97	6.041	6.041	(0.899)	517343	50.0000	50.731
38 1,1-Dichloropropene	75	6.219	6.219	(0.926)	450119	50.0000	51.879
39 Carbon Tetrachloride	117	6.219	6.219	(0.926)	475945	50.0000	50.200
40 1,2-Dichloroethane	62	6.457	6.457	(0.961)	561630	50.0000	49.762
41 Benzene	78	6.433	6.433	(0.958)	1238598	50.0000	49.584
42 Trichloroethene	130	7.085	7.085	(1.055)	401281	50.0000	51.987
43 1,2-Dichloropropane	63	7.287	7.287	(1.085)	332089	50.0000	50.908
45 Dibromomethane	93	7.393	7.393	(1.101)	161426	50.0000	49.332
46 Bromodichloromethane	83	7.548	7.548	(1.124)	369886	50.0000	50.125
47 2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	252131	100.000	100.07
48 cis-1,3-Dichloropropene	75	7.951	7.951	(1.184)	373561	50.0000	45.336
49 4-Methyl-2-pentanone	43	8.105	8.105	(1.207)	408452	100.000	106.50
50 Toluene	91	8.247	8.247	(0.874)	1298826	50.0000	51.989
51 trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	307578	50.0000	46.246
52 Ethyl Methacrylate	69	8.532	8.532	(0.904)	206564	50.0000	46.871
53 1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	226157	50.0000	51.672
54 1,3-Dichloropropane	76	8.745	8.745	(0.927)	363694	50.0000	52.006
55 Tetrachloroethene	164	8.721	8.721	(0.925)	318054	50.0000	50.420
56 2-Hexanone	43	8.816	8.816	(0.935)	241634	100.000	104.46
57 Dibromochloromethane	129	8.947	8.947	(0.948)	265519	50.0000	51.941
58 1,2-Dibromoethane	107	9.042	9.042	(0.959)	219163	50.0000	51.682
59 Chlorobenzene	112	9.457	9.457	(1.002)	912053	50.0000	50.952
60 1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	349263	50.0000	50.936
61 Ethylbenzene	106	9.552	9.552	(1.013)	480940	50.0000	53.775
62 m + p-Xylene	106	9.646	9.646	(1.023)	1230773	100.000	107.59
64 Xylene-o	106	9.990	9.990	(1.059)	584127	50.0000	52.562
65 Styrene	104	10.002	10.002	(1.060)	887105	50.0000	54.632
66 Bromoform	173	10.156	10.156	(1.077)	141412	50.0000	49.730
67 Isopropylbenzene	105	10.299	10.299	(1.092)	1544449	50.0000	53.093
68 1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	247528	50.0000	49.099
69 1,4-Dichloro-2-butene	53	10.595	10.595	(0.929)	85579	50.0000	45.201
70 1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	94833	50.0000	48.178
71 Bromobenzene	156	10.560	10.560	(0.926)	413028	50.0000	50.766
72 n-Propylbenzene	120	10.643	10.643	(0.933)	442073	50.0000	52.021
73 2-Chlorotoluene	126	10.714	10.714	(0.940)	398725	50.0000	50.554
74 1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	1343935	50.0000	53.118
75 4-Chlorotoluene	126	10.809	10.809	(0.948)	398834	50.0000	50.901
76 tert-Butylbenzene	119	11.069	11.069	(0.971)	1268856	50.0000	48.228
77 1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	1396407	50.0000	52.755
78 sec-Butylbenzene	105	11.247	11.247	(0.986)	1589841	50.0000	52.000
79 4-Isopropyltoluene	119	11.366	11.366	(0.997)	1574015	50.0000	53.050
80 1,3-Dichlorobenzene	146	11.342	11.342	(0.995)	883402	50.0000	49.377
81 1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	887788	50.0000	48.395
82 n-Butylbenzene	91	11.710	11.710	(1.027)	1153464	50.0000	52.202

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0248.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	881616	50.0000	50.141
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	58672	50.0000	49.288
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	642742	50.0000	51.878
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	301343	50.0000	51.280
87	Naphthalene	128	13.275	13.275	(1.164)	1238694	50.0000	55.995
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	597422	50.0000	53.381
98	Cyclohexane	56	6.089	6.089	(0.906)	741814	50.0000	53.074
143	Methyl Acetate	43	3.563	3.563	(0.530)	442604	100.000	101.07
144	Methylcyclohexane	83	7.251	7.251	(1.079)	518069	50.0000	52.127
141	1,3,5-Trichlorobenzene	180	12.564	12.564	(1.102)	717032	50.0000	51.278
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	32728	50.0000	47.570

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0248.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

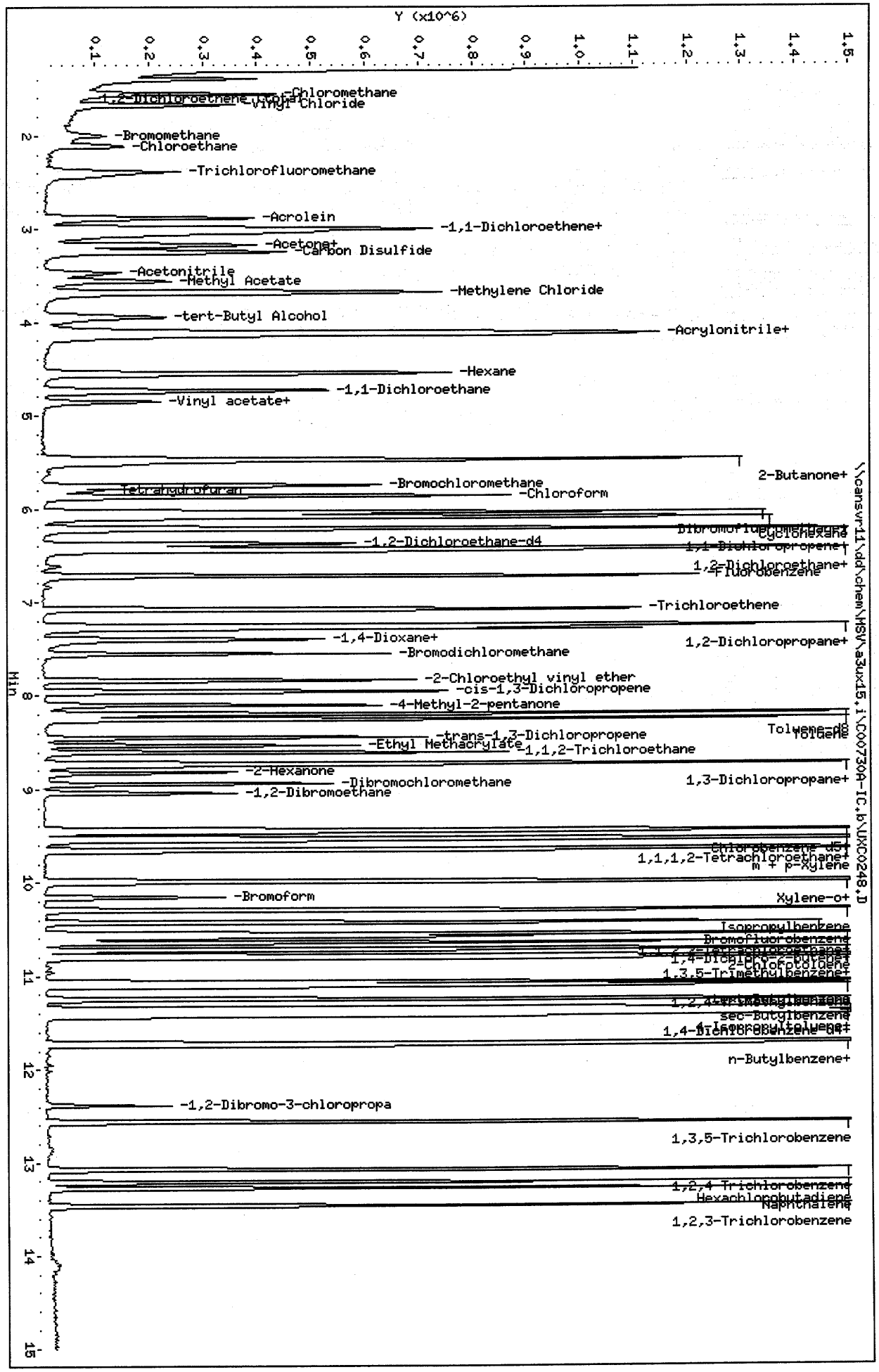
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0248.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1021210	0.00
2 Chlorobenzene-d5	769451	384726	1538902	769451	0.00
3 1,4-Dichlorobenze	534878	267439	1069756	534878	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0248.D
Date : 30-JUL-2010 10:53
Client ID:
Sample Info: 50NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
2-Butanone+
-Bromochloromethane
-Chloroform
Tetrahydrofuran
Cyclohexane
-1,2-Dichloroethane-d4
1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,4-Dioxane+
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene-d8
Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
Isopropylbenzene
Bromofluorobenzene
2-Chlorotoluene+
1,3,5-Trimethylbenzene+
sec-Butylbenzene
1,4-Dichlorobenzene-d4
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,3,5-Trichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
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Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
Report Date: 02-Aug-2010 08:48

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VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
Lab Smp Id: 25NG-IC
Inj Date : 30-JUL-2010 11:15
Operator : 43582 Inst ID: a3ux15.i
Smp Info : 25NG-IC
Misc Info : C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.717	6.717	(1.000)	966584	50.0000	
*	2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	705697	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	517845	50.0000	
$	4 Dibromofluoromethane	113	6.041	6.041	(0.899)	168921	25.0000	25.459
$	5 1,2-Dichloroethane-d4	65	6.373	6.373	(0.949)	207547	25.0000	25.344
$	6 Toluene-d8	98	8.188	8.188	(0.868)	545623	25.0000	25.484
$	7 Bromofluorobenzene	95	10.429	10.429	(1.106)	194822	25.0000	25.546
	8 Dichlorodifluoromethane	85	1.393	1.393	(0.207)	130846	25.0000	24.059
	9 Chloromethane	50	1.547	1.547	(0.230)	256569	25.0000	27.306
	10 Vinyl Chloride	62	1.666	1.666	(0.248)	165589	25.0000	26.980
	11 Bromomethane	94	1.998	1.998	(0.297)	35826	25.0000	25.725
	12 Chloroethane	64	2.104	2.104	(0.313)	68839	25.0000	26.216
	13 Trichlorofluoromethane	101	2.389	2.389	(0.356)	134678	25.0000	23.553
	15 Acrolein	56	2.875	2.875	(0.428)	230486	250.000	266.76
	16 Acetone	43	3.089	3.089	(0.460)	93920	50.0000	54.184
	17 1,1-Dichloroethene	96	2.994	2.994	(0.446)	162726	25.0000	26.265
	18 Freon-113	151	3.041	3.041	(0.453)	127410	25.0000	25.860
	19 Iodomethane	142	3.172	3.172	(0.472)	306686	25.0000	26.250
	20 Carbon Disulfide	76	3.243	3.243	(0.483)	431183	25.0000	27.347
	21 Methylene Chloride	84	3.682	3.682	(0.548)	250878	25.0000	28.080
	23 Acrylonitrile	53	4.085	4.085	(0.608)	115746	50.0000	50.885
	24 Methyl tert-butyl ether	73	4.144	4.144	(0.617)	359631	25.0000	25.622

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	4.109	4.109	(0.612)	185944	25.0000	26.814
26	Hexane	86	4.559	4.559	(0.679)	34659	25.0000	27.170
27	Vinyl acetate	43	4.856	4.856	(0.723)	164285	25.0000	23.126
28	1,1-Dichloroethane	63	4.725	4.725	(0.703)	342358	25.0000	25.926
30	2-Butanone	43	5.520	5.520	(0.822)	94577	50.0000	50.140
32	cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	187291	25.0000	26.436
33	2,2-Dichloropropane	77	5.472	5.472	(0.815)	170624	25.0000	26.705
34	Bromochloromethane	128	5.757	5.757	(0.857)	95744	25.0000	26.037
35	Chloroform	83	5.864	5.864	(0.873)	295131	25.0000	25.255
36	Tetrahydrofuran	42	5.804	5.804	(0.864)	43407	25.0000	24.832
37	1,1,1-Trichloroethane	97	6.041	6.041	(0.899)	260256	25.0000	26.963
38	1,1-Dichloropropene	75	6.219	6.219	(0.926)	217621	25.0000	26.500
39	Carbon Tetrachloride	117	6.219	6.219	(0.926)	234863	25.0000	26.172
40	1,2-Dichloroethane	62	6.457	6.457	(0.961)	269040	25.0000	25.185
41	Benzene	78	6.433	6.433	(0.958)	591378	25.0000	25.012
42	Trichloroethene	130	7.085	7.085	(1.055)	187884	25.0000	25.716
43	1,2-Dichloropropane	63	7.287	7.287	(1.085)	158101	25.0000	25.606
45	Dibromomethane	93	7.393	7.393	(1.101)	77912	25.0000	25.156
46	Bromodichloromethane	83	7.547	7.547	(1.124)	171667	25.0000	24.578
47	2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	108856	50.0000	49.204
48	cis-1,3-Dichloropropene	75	7.951	7.951	(1.184)	155909	25.0000	21.690
49	4-Methyl-2-pentanone	43	8.105	8.105	(1.207)	178941	50.0000	49.293
50	Toluene	91	8.247	8.247	(0.874)	595560	25.0000	25.993
51	trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	126844	25.0000	22.250
52	Ethyl Methacrylate	69	8.532	8.532	(0.904)	85360	25.0000	22.469
53	1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	103422	25.0000	25.764
54	1,3-Dichloropropane	76	8.745	8.745	(0.927)	164183	25.0000	25.598
55	Tetrachloroethene	164	8.721	8.721	(0.925)	151527	25.0000	26.191
56	2-Hexanone	43	8.816	8.816	(0.935)	106668	50.0000	50.280
57	Dibromochloromethane	129	8.947	8.947	(0.948)	118259	25.0000	25.224
58	1,2-Dibromoethane	107	9.042	9.042	(0.959)	97969	25.0000	25.190
59	Chlorobenzene	112	9.457	9.457	(1.002)	428639	25.0000	26.109
60	1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	168189	25.0000	26.745
61	Ethylbenzene	106	9.552	9.552	(1.013)	223302	25.0000	27.223
62	m + p-Xylene	106	9.646	9.646	(1.023)	561189	50.0000	53.490
64	Xylene-o	106	9.990	9.990	(1.059)	278764	25.0000	27.350
65	Styrene	104	10.002	10.002	(1.060)	391661	25.0000	26.299
66	Bromoform	173	10.156	10.156	(1.077)	65382	25.0000	25.070
67	Isopropylbenzene	105	10.299	10.299	(1.092)	705038	25.0000	26.426
68	1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	123140	25.0000	25.229
69	1,4-Dichloro-2-butene	53	10.595	10.595	(0.929)	34255	25.0000	20.568
70	1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	50836	25.0000	26.676
71	Bromobenzene	156	10.560	10.560	(0.926)	197052	25.0000	25.017
72	n-Propylbenzene	120	10.643	10.643	(0.933)	215425	25.0000	26.184
73	2-Chlorotoluene	126	10.714	10.714	(0.940)	197752	25.0000	25.898
74	1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	636959	25.0000	26.003
75	4-Chlorotoluene	126	10.809	10.809	(0.948)	201275	25.0000	26.532
76	tert-Butylbenzene	119	11.069	11.069	(0.971)	581020	25.0000	23.931
77	1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	668969	25.0000	26.104
78	sec-Butylbenzene	105	11.247	11.247	(0.986)	762726	25.0000	25.767
79	4-Isopropyltoluene	119	11.366	11.366	(0.997)	758791	25.0000	26.415
80	1,3-Dichlorobenzene	146	11.342	11.342	(0.995)	441805	25.0000	25.507
81	1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	455828	25.0000	25.665
82	n-Butylbenzene	91	11.710	11.710	(1.027)	553694	25.0000	25.883

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	456003	25.0000	26.788
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	28528	25.0000	24.753
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	316437	25.0000	26.381
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	155363	25.0000	27.308
87	Naphthalene	128	13.275	13.275	(1.164)	571076	25.0000	26.664
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	302303	25.0000	27.900
98	Cyclohexane	56	6.089	6.089	(0.906)	343598	25.0000	25.972
143	Methyl Acetate	43	3.563	3.563	(0.530)	211395	50.0000	51.000
144	Methylcyclohexane	83	7.251	7.251	(1.079)	240374	25.0000	25.553
141	1,3,5-Trichlorobenzene	180	12.564	12.564	(1.102)	361458	25.0000	26.699
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	14786	25.0000	24.464

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

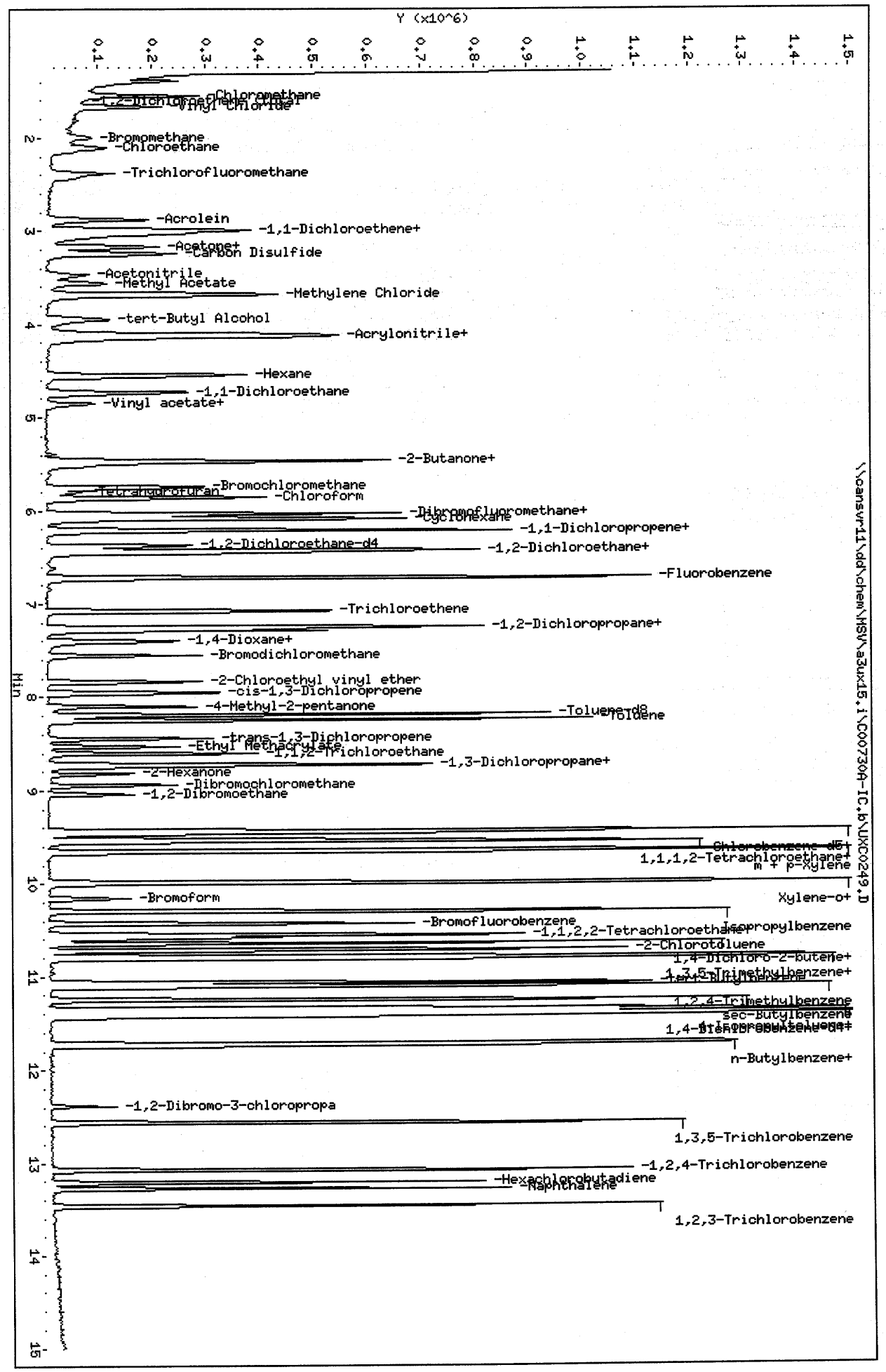
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0249.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	966584	-5.35
2 Chlorobenzene-d5	769451	384726	1538902	705697	-8.29
3 1,4-Dichlorobenze	534878	267439	1069756	517845	-3.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	-0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	-0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\ansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
Date : 30-JUL-2010 11:15
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
\\ansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0249.D
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform
-Dibromofluoromethane+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
Xylene-o+
-Bromoform
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
Isopropylbenzene
-2-Chlorotoluene
1,4-Dichloro-2-butene+
1,3,5-Trimethylbenzene+
tert-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
p-Isopropyltoluene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D
Lab Smp Id: 10NG-IC
Inj Date : 30-JUL-2010 11:37
Operator : 43582 Inst ID: a3ux15.i
Smp Info : 10NG-IC
Misc Info : C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:26 Cal File: UXC9969.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.718	6.718	(1.000)	1011218	50.0000	
* 2	Chlorobenzene-d5	117	9.433	9.433	(1.000)	721319	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	509655	50.0000	
$ 4	Dibromofluoromethane	113	6.042	6.042	(0.899)	66998	10.0000	9.652
$ 5	1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	83904	10.0000	9.793
$ 6	Toluene-d8	98	8.188	8.188	(0.868)	211255	10.0000	9.653
$ 7	Bromofluorobenzene	95	10.429	10.429	(1.106)	75482	10.0000	9.683
8	Dichlorodifluoromethane	85	1.393	1.393	(0.207)	55050	10.0000	9.675
9	Chloromethane	50	1.547	1.547	(0.230)	102933	10.0000	10.471
10	Vinyl Chloride	62	1.666	1.666	(0.248)	65215	10.0000	10.157
11	Bromomethane	94	1.998	1.998	(0.297)	19642	10.0000	12.339
12	Chloroethane	64	2.105	2.105	(0.313)	30043	10.0000	10.936
13	Trichlorofluoromethane	101	2.389	2.389	(0.356)	55240	10.0000	9.234
15	Acrolein	56	2.887	2.887	(0.430)	79520	100.000	87.972
16	Acetone	43	3.089	3.089	(0.460)	40988	20.0000	18.532
17	1,1-Dichloroethene	96	2.994	2.994	(0.446)	65322	10.0000	10.078
18	Freon-113	151	3.030	3.030	(0.451)	51650	10.0000	10.021
19	Iodomethane	142	3.172	3.172	(0.472)	122433	10.0000	10.017
20	Carbon Disulfide	76	3.243	3.243	(0.483)	157992	10.0000	9.578
21	Methylene Chloride	84	3.682	3.682	(0.548)	143318	10.0000	9.673
23	Acrylonitrile	53	4.085	4.085	(0.608)	48240	20.0000	20.272
24	Methyl tert-butyl ether	73	4.144	4.144	(0.617)	144808	10.0000	9.862

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D
Report Date: 02-Aug-2010 08:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25 trans-1,2-Dichloroethene	96	4.109	4.109	(0.612)	68464	10.0000	9.437
26 Hexane	86	4.547	4.547	(0.677)	12257	10.0000	9.184
27 Vinyl acetate	43	4.856	4.856	(0.723)	63239	10.0000	8.509
28 1,1-Dichloroethane	63	4.725	4.725	(0.703)	135876	10.0000	9.835
30 2-Butanone	43	5.520	5.520	(0.822)	38850	20.0000	19.687
32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	73367	10.0000	9.899
33 2,2-Dichloropropane	77	5.461	5.461	(0.813)	61326	10.0000	9.175
34 Bromochloromethane	128	5.745	5.745	(0.855)	35270	10.0000	9.168
35 Chloroform	83	5.864	5.864	(0.873)	123247	10.0000	10.081
36 Tetrahydrofuran	42	5.805	5.805	(0.864)	25638	10.0000	10.036
37 1,1,1-Trichloroethane	97	6.042	6.042	(0.899)	92695	10.0000	9.179
38 1,1-Dichloropropene	75	6.220	6.220	(0.926)	79167	10.0000	9.215
39 Carbon Tetrachloride	117	6.220	6.220	(0.926)	85122	10.0000	9.067
40 1,2-Dichloroethane	62	6.457	6.457	(0.961)	106313	10.0000	9.513
41 Benzene	78	6.433	6.433	(0.958)	241941	10.0000	9.781
42 Trichloroethene	130	7.085	7.085	(1.055)	70687	10.0000	9.248
43 1,2-Dichloropropane	63	7.287	7.287	(1.085)	62630	10.0000	9.696
45 Dibromomethane	93	7.394	7.394	(1.101)	29797	10.0000	9.196
46 Bromodichloromethane	83	7.548	7.548	(1.124)	68564	10.0000	9.383
47 2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	34904	20.0000	18.377
48 cis-1,3-Dichloropropene	75	7.951	7.951	(1.184)	57484	10.0000	9.613
49 4-Methyl-2-pentanone	43	8.105	8.105	(1.207)	63898	20.0000	16.825
50 Toluene	91	8.247	8.247	(0.874)	226695	10.0000	9.680
51 trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	46118	10.0000	9.619
52 Ethyl Methacrylate	69	8.532	8.532	(0.904)	30261	10.0000	9.398
53 1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	40461	10.0000	9.861
54 1,3-Dichloropropane	76	8.745	8.745	(0.927)	60171	10.0000	9.178
55 Tetrachloroethene	164	8.722	8.722	(0.925)	57317	10.0000	9.693
56 2-Hexanone	43	8.817	8.817	(0.935)	36694	20.0000	16.922
57 Dibromochloromethane	129	8.947	8.947	(0.948)	39359	10.0000	8.213
58 1,2-Dibromoethane	107	9.042	9.042	(0.959)	35933	10.0000	9.039
59 Chlorobenzene	112	9.457	9.457	(1.002)	159020	10.0000	9.476
60 1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	58532	10.0000	9.106
61 Ethylbenzene	106	9.552	9.552	(1.013)	77870	10.0000	9.288
62 m + p-Xylene	106	9.647	9.647	(1.023)	199433	20.0000	18.597
64 Xylene-o	106	9.991	9.991	(1.059)	98539	10.0000	9.458
65 Styrene	104	10.002	10.002	(1.060)	131995	10.0000	8.671
66 Bromoform	173	10.157	10.157	(1.077)	23670	10.0000	8.879
67 Isopropylbenzene	105	10.299	10.299	(1.092)	250249	10.0000	9.177
68 1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	47695	10.0000	9.929
69 1,4-Dichloro-2-butene	53	10.595	10.595	(0.929)	11361	10.0000	9.056
70 1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	17272	10.0000	9.209
71 Bromobenzene	156	10.560	10.560	(0.926)	73182	10.0000	9.440
72 n-Propylbenzene	120	10.643	10.643	(0.933)	71305	10.0000	8.806
73 2-Chlorotoluene	126	10.714	10.714	(0.940)	70706	10.0000	9.408
74 1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	203560	10.0000	8.444
75 4-Chlorotoluene	126	10.809	10.809	(0.948)	70977	10.0000	9.507
76 tert-Butylbenzene	119	11.070	11.070	(0.971)	201304	10.0000	9.802
77 1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	225989	10.0000	8.960
78 sec-Butylbenzene	105	11.248	11.248	(0.986)	261346	10.0000	8.971
79 4-Isopropyltoluene	119	11.366	11.366	(0.997)	252180	10.0000	8.920
80 1,3-Dichlorobenzene	146	11.342	11.342	(0.995)	170121	10.0000	9.979
81 1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	174613	10.0000	9.990
82 n-Butylbenzene	91	11.710	11.710	(1.027)	193545	10.0000	9.193

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	171100	10.0000	10.213
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	10919	10.0000	9.626
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	117977	10.0000	9.994
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	59743	10.0000	10.670
87	Naphthalene	128	13.275	13.275	(1.164)	188010	10.0000	8.920
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	113558	10.0000	10.649
98	Cyclohexane	56	6.089	6.089	(0.906)	122780	10.0000	8.871
143	Methyl Acetate	43	3.563	3.563	(0.530)	87608	20.0000	20.203
144	Methylcyclohexane	83	7.251	7.251	(1.079)	89132	10.0000	9.057
141	1,3,5-Trichlorobenzene	180	12.564	12.564	(1.102)	140894	10.0000	10.574
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	4707	10.0000	9.784

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

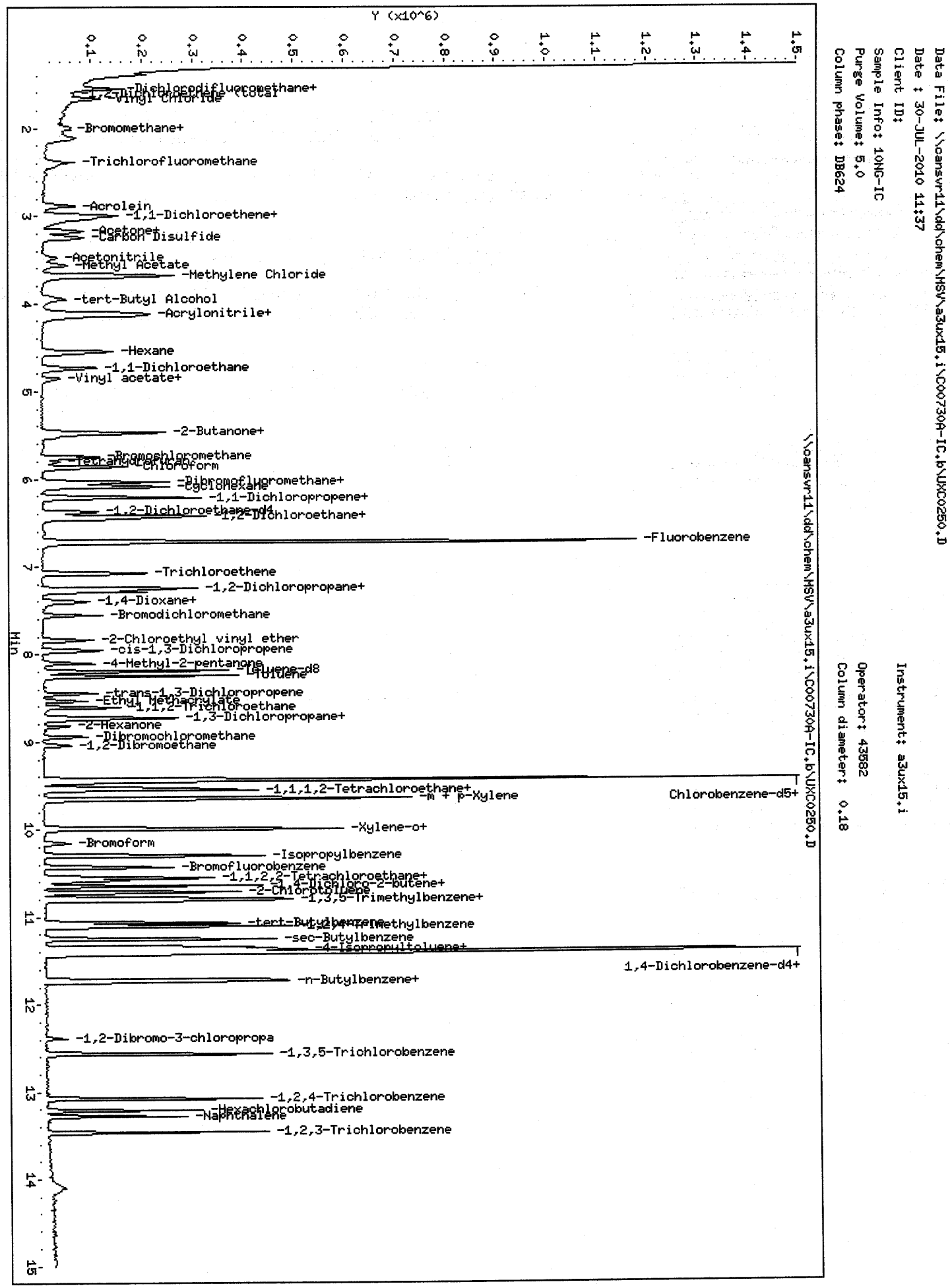
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0250.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1011218	-0.98
2 Chlorobenzene-d5	769451	384726	1538902	721319	-6.26
3 1,4-Dichlorobenze	534878	267439	1069756	509655	-4.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D
Date : 30-JUL-2010 11:37
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-1,2-Dichloroethene (total
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-1,4-Dichloro-2-butene+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0250.D

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0251.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0251.D
Lab Smp Id: 5NG-IC
Inj Date : 30-JUL-2010 12:00
Operator : 43582 Inst ID: a3ux15.i
Smp Info : 5NG-IC
Misc Info : C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:50 Cal File: UXC9970.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1	Fluorobenzene	96	6.718	6.718	(1.000)	1022249	50.0000	
* 2	Chlorobenzene-d5	117	9.433	9.433	(1.000)	755777	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	542384	50.0000	
$ 4	Dibromofluoromethane	113	6.042	6.042	(0.899)	35773	5.00000	5.098
$ 5	1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	41892	5.00000	4.837
$ 6	Toluene-d8	98	8.188	8.188	(0.868)	105597	5.00000	4.605
$ 7	Bromofluorobenzene	95	10.429	10.429	(1.106)	38339	5.00000	4.694
8	Dichlorodifluoromethane	85	1.393	1.393	(0.207)	26373	5.00000	4.585
9	Chloromethane	50	1.547	1.547	(0.230)	56674	5.00000	5.703
10	Vinyl Chloride	62	1.666	1.666	(0.248)	33431	5.00000	5.150
11	Bromomethane	94	1.998	1.998	(0.297)	9288	5.00000	5.176
12	Chloroethane	64	2.116	2.116	(0.315)	16888	5.00000	6.081
13	Trichlorofluoromethane	101	2.377	2.377	(0.354)	27201	5.00000	4.498
15	Acrolein	56	2.875	2.875	(0.428)	44423	50.0000	48.614
16	Acetone	43	3.089	3.089	(0.460)	28353	10.0000	10.476
17	1,1-Dichloroethene	96	2.994	2.994	(0.446)	32675	5.00000	4.987
18	Freon-113	151	3.030	3.030	(0.451)	26545	5.00000	5.094
19	Iodomethane	142	3.172	3.172	(0.472)	62961	5.00000	5.096
20	Carbon Disulfide	76	3.243	3.243	(0.483)	76669	5.00000	4.598
21	Methylene Chloride	84	3.682	3.682	(0.548)	110106	5.00000	4.359
23	Acrylonitrile	53	4.097	4.097	(0.610)	24794	10.0000	10.307
24	Methyl tert-butyl ether	73	4.144	4.144	(0.617)	70678	5.00000	4.761

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0251.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	4.109	4.109	(0.612)	36622	5.00000	4.994
26	Hexane	86	4.559	4.559	(0.679)	5662	5.00000	4.197
27	Vinyl acetate	43	4.856	4.856	(0.723)	32501	5.00000	4.326
28	1,1-Dichloroethane	63	4.725	4.725	(0.703)	71877	5.00000	5.147
30	2-Butanone	43	5.520	5.520	(0.822)	19738	10.0000	9.894
32	cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	36586	5.00000	4.883
33	2,2-Dichloropropane	77	5.461	5.461	(0.813)	32535	5.00000	4.815
34	Bromochloromethane	128	5.757	5.757	(0.857)	19936	5.00000	5.126
35	Chloroform	83	5.864	5.864	(0.873)	61093	5.00000	4.943
36	Tetrahydrofuran	42	5.804	5.804	(0.864)	19341	5.00000	5.168
37	1,1,1-Trichloroethane	97	6.042	6.042	(0.899)	46361	5.00000	4.542
38	1,1-Dichloropropene	75	6.219	6.219	(0.926)	39279	5.00000	4.522
39	Carbon Tetrachloride	117	6.208	6.208	(0.924)	45202	5.00000	4.763
40	1,2-Dichloroethane	62	6.457	6.457	(0.961)	58537	5.00000	5.181
41	Benzene	78	6.433	6.433	(0.958)	136259	5.00000	5.449
42	Trichloroethene	130	7.073	7.073	(1.053)	37805	5.00000	4.893
43	1,2-Dichloropropane	63	7.287	7.287	(1.085)	30497	5.00000	4.670
45	Dibromomethane	93	7.393	7.393	(1.101)	16891	5.00000	5.157
46	Bromodichloromethane	83	7.548	7.548	(1.124)	32868	5.00000	4.450
47	2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	19371	10.0000	12.124
48	cis-1,3-Dichloropropene	75	7.963	7.963	(1.185)	28558	5.00000	6.270
49	4-Methyl-2-pentanone	43	8.093	8.093	(1.205)	33230	10.0000	8.655
50	Toluene	91	8.247	8.247	(0.874)	110680	5.00000	4.510
51	trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	23539	5.00000	6.043
52	Ethyl Methacrylate	69	8.532	8.532	(0.904)	16325	5.00000	6.031
53	1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	20294	5.00000	4.721
54	1,3-Dichloropropane	76	8.745	8.745	(0.927)	31339	5.00000	4.562
55	Tetrachloroethene	164	8.722	8.722	(0.925)	29961	5.00000	4.836
56	2-Hexanone	43	8.816	8.816	(0.935)	21293	10.0000	9.372
57	Dibromochloromethane	129	8.947	8.947	(0.948)	21729	5.00000	4.328
58	1,2-Dibromoethane	107	9.042	9.042	(0.959)	19053	5.00000	4.574
59	Chlorobenzene	112	9.457	9.457	(1.002)	84943	5.00000	4.831
60	1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	32563	5.00000	4.835
61	Ethylbenzene	106	9.552	9.552	(1.013)	35402	5.00000	4.030
62	m + p-Xylene	106	9.647	9.647	(1.023)	98780	10.0000	8.791
64	Xylene-o	106	9.990	9.990	(1.059)	48397	5.00000	4.434
65	Styrene	104	10.002	10.002	(1.060)	65274	5.00000	4.093
66	Bromoform	173	10.156	10.156	(1.077)	12366	5.00000	4.427
67	Isopropylbenzene	105	10.299	10.299	(1.092)	123880	5.00000	4.336
68	1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	25381	5.00000	4.965
69	1,4-Dichloro-2-butene	53	10.583	10.583	(0.928)	7362	5.00000	6.768
70	1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	9684	5.00000	4.852
71	Bromobenzene	156	10.560	10.560	(0.926)	36740	5.00000	4.453
72	n-Propylbenzene	120	10.643	10.643	(0.933)	36396	5.00000	4.224
73	2-Chlorotoluene	126	10.714	10.714	(0.940)	37099	5.00000	4.639
74	1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	104701	5.00000	4.081
75	4-Chlorotoluene	126	10.809	10.809	(0.948)	34557	5.00000	4.349
76	tert-Butylbenzene	119	11.070	11.070	(0.971)	92454	5.00000	5.439
77	1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	107829	5.00000	4.017
78	sec-Butylbenzene	105	11.247	11.247	(0.986)	132429	5.00000	4.271
79	4-Isopropyltoluene	119	11.366	11.366	(0.997)	116022	5.00000	3.856
80	1,3-Dichlorobenzene	146	11.342	11.342	(0.995)	91634	5.00000	5.051
81	1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	95183	5.00000	5.117
82	n-Butylbenzene	91	11.710	11.710	(1.027)	93921	5.00000	4.192

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0251.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	85841	5.00000	4.814
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	5805	5.00000	4.809
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	62873	5.00000	5.004
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	32093	5.00000	5.386
87	Naphthalene	128	13.275	13.275	(1.164)	89589	5.00000	3.994
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	54978	5.00000	4.844
98	Cyclohexane	56	6.089	6.089	(0.906)	66938	5.00000	4.784(a)
143	Methyl Acetate	43	3.563	3.563	(0.530)	45117	10.0000	10.292
144	Methylcyclohexane	83	7.251	7.251	(1.079)	46078	5.00000	4.632(a)
141	1,3,5-Trichlorobenzene	180	12.564	12.564	(1.102)	66442	5.00000	4.686
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	1584	5.00000	5.501

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0251.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

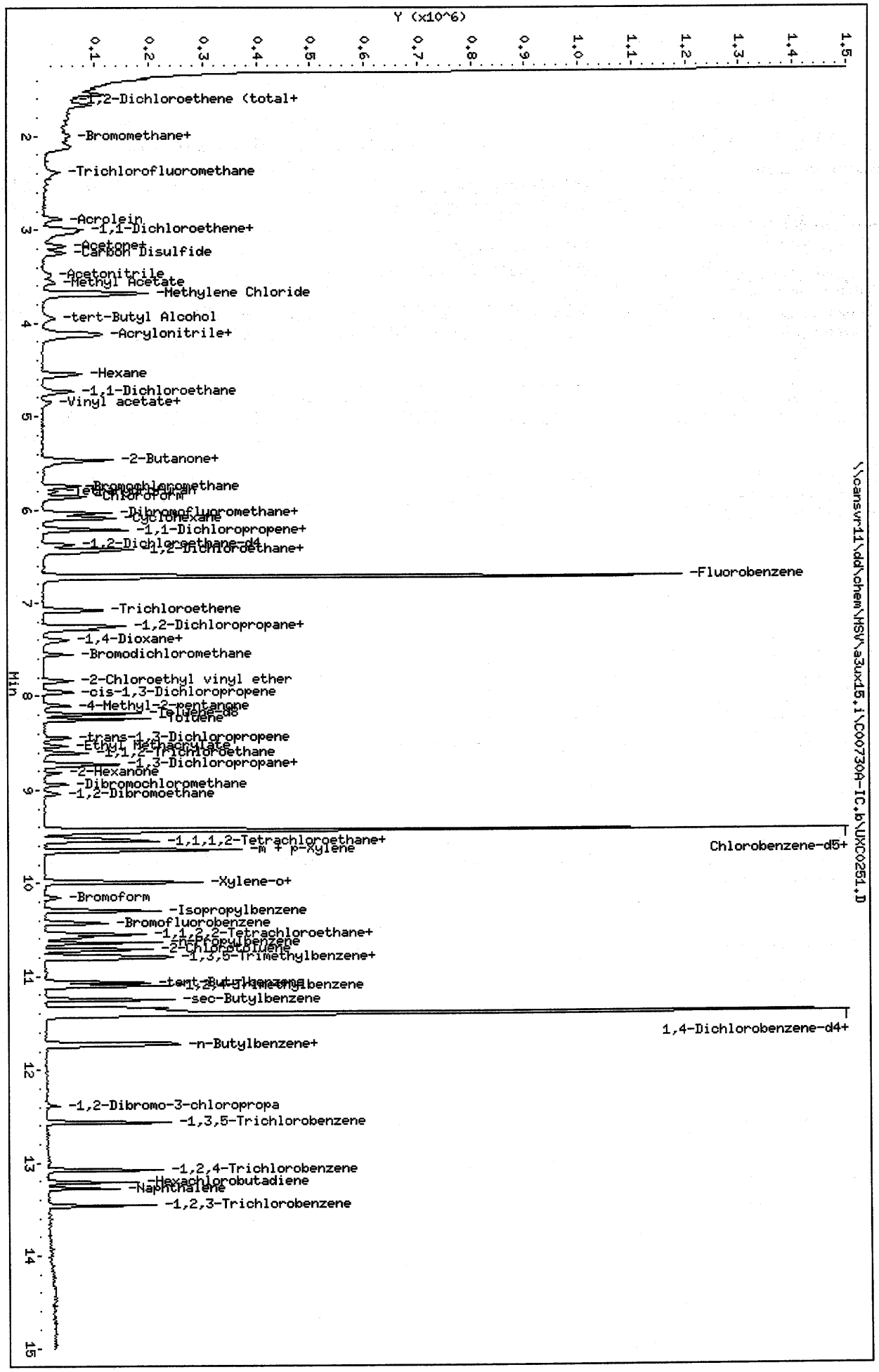
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0251.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,2-8260.SUB,43582,1,1

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1022249	0.10
2 Chlorobenzene-d5	769451	384726	1538902	755777	-1.78
3 1,4-Dichlorobenze	534878	267439	1069756	542384	1.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\HSV\a3ux15.i\C00730A-IC.b\UXC0251.D
Date : 30-JUL-2010 12:00
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
\\cansvr11\dd\chem\HSV\a3ux15.i\C00730A-IC.b\UXC0251.D
-1,2-Dichloroethene (total+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Lab Smp Id: ICV
Inj Date : 30-JUL-2010 12:22
Operator : 43582 Inst ID: a3ux15.i
Smp Info : ICV
Misc Info : C00730A-IC,8260LLUX15,,43582,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 16:15 Cal File: UXC9971.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Fluorobenzene	96	6.718	6.718	(1.000)	1070658	50.0000	
*	2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	830155	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	561249	50.0000	
$	4 Dibromofluoromethane	113	6.042	6.042	(0.899)	318291	43.3083	8.662
$	5 1,2-Dichloroethane-d4	65	6.374	6.374	(0.949)	406149	44.7739	8.955
$	6 Toluene-d8	98	8.188	8.188	(0.868)	1135458	45.0823	9.016
$	7 Bromofluorobenzene	95	10.429	10.429	(1.106)	426566	47.5479	9.510
	8 Dichlorodifluoromethane	85	1.393	1.393	(0.207)	271146	45.0095	9.002
	9 Chloromethane	50	1.547	1.547	(0.230)	476432	45.7772	9.155
	10 Vinyl Chloride	62	1.666	1.666	(0.248)	350943	51.6229	10.324
	11 Bromomethane	94	1.998	1.998	(0.297)	67116	47.7783	9.556
	12 Chloroethane	64	2.116	2.116	(0.315)	124913	42.9467	8.589
	13 Trichlorofluoromethane	101	2.389	2.377	(0.356)	303605	47.9338	9.587
	15 Acrolein	56	2.887	2.875	(0.430)	162006	169.276	33.855
	16 Acetone	43	3.089	3.089	(0.460)	184832	101.691	20.338
	17 1,1-Dichloroethene	96	2.994	2.994	(0.446)	333558	48.6058	9.721
	18 Freon-113	151	3.041	3.030	(0.453)	289369	53.0244	10.605
	19 Iodomethane	142	3.172	3.172	(0.472)	697074	53.8655	10.773
	20 Carbon Disulfide	76	3.243	3.243	(0.483)	916023	52.4498	10.490
	21 Methylene Chloride	84	3.682	3.682	(0.548)	398744	45.7146	9.143
	23 Acrylonitrile	53	4.097	4.097	(0.610)	366696	145.540	29.108
	24 Methyl tert-butyl ether	73	4.144	4.144	(0.617)	776219	49.9266	9.985

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	25 trans-1,2-Dichloroethene	96	4.121	4.109	(0.613)	374261	48.7244	9.745
	26 Hexane	86	4.547	4.559	(0.677)	79900	56.5472	11.309
	27 Vinyl acetate	43	4.868	4.856	(0.725)	1131186	143.757	28.751
	28 1,1-Dichloroethane	63	4.737	4.725	(0.705)	714697	48.8610	9.772
	30 2-Butanone	43	5.520	5.520	(0.822)	219420	105.018	21.004
M	31 1,2-Dichloroethene (total)	96				749103	96.4905	19.298
	32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	374842	47.7661	9.553
	33 2,2-Dichloropropane	77	5.472	5.461	(0.815)	330098	46.6431	9.329
	34 Bromochloromethane	128	5.757	5.757	(0.857)	202359	49.6812	9.936
	35 Chloroform	83	5.864	5.864	(0.873)	646454	49.9414	9.988
	36 Tetrahydrofuran	42	5.804	5.804	(0.864)	77984	45.9664	9.193
	37 1,1,1-Trichloroethane	97	6.042	6.042	(0.899)	511851	47.8740	9.575
	38 1,1-Dichloropropene	75	6.220	6.219	(0.926)	445691	48.9962	9.799
	39 Carbon Tetrachloride	117	6.208	6.208	(0.924)	471529	47.4368	9.487
	40 1,2-Dichloroethane	62	6.457	6.457	(0.961)	582613	49.2367	9.847
	41 Benzene	78	6.433	6.433	(0.958)	1264248	48.2729	9.654
	42 Trichloroethene	130	7.085	7.073	(1.055)	398410	49.2310	9.846
	43 1,2-Dichloropropane	63	7.287	7.287	(1.085)	346595	50.6781	10.136
	45 Dibromomethane	93	7.394	7.393	(1.101)	178595	52.0580	10.412
	46 Bromodichloromethane	83	7.548	7.548	(1.124)	390356	50.4559	10.091
	47 2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	132233	53.4288	10.686
	48 cis-1,3-Dichloropropene	75	7.963	7.963	(1.185)	382667	44.3658	8.873
	49 4-Methyl-2-pentanone	43	8.105	8.093	(1.207)	431392	107.284	21.457
	50 Toluene	91	8.247	8.247	(0.874)	1325284	49.1694	9.834
	51 trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	332372	46.3151	9.263
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	233711	49.4936	9.899
	54 1,3-Dichloropropane	76	8.745	8.745	(0.927)	389395	51.6093	10.322
	55 Tetrachloroethene	164	8.722	8.722	(0.925)	330645	48.5833	9.717
	56 2-Hexanone	43	8.817	8.816	(0.935)	266272	106.695	21.339
	57 Dibromochloromethane	129	8.947	8.947	(0.948)	281589	51.0567	10.211
	58 1,2-Dibromoethane	107	9.042	9.042	(0.959)	238822	52.1997	10.440
	59 Chlorobenzene	112	9.457	9.457	(1.002)	947324	49.0526	9.810
	60 1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	362035	48.9384	9.788
	61 Ethylbenzene	106	9.552	9.552	(1.013)	503702	52.2016	10.440
	62 m + p-Xylene	106	9.647	9.647	(1.023)	1263138	102.347	20.469
M	63 Xylenes (total)	106				1890429	154.665	30.933
	64 Xylene-o	106	9.991	9.990	(1.059)	627291	52.3184	10.464
	65 Styrene	104	10.002	10.002	(1.060)	934899	53.3653	10.673
	66 Bromoform	173	10.157	10.156	(1.077)	161859	52.7580	10.552
	67 Isopropylbenzene	105	10.299	10.299	(1.092)	1602514	51.0606	10.212
	68 1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	263050	49.7261	9.945
	69 1,4-Dichloro-2-butene	53	10.595	10.583	(0.929)	197597	95.6149	19.123
	70 1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	104870	50.7739	10.155
	71 Bromobenzene	156	10.560	10.560	(0.926)	430897	50.4740	10.095
	72 n-Propylbenzene	120	10.643	10.643	(0.933)	484490	54.3332	10.867
	73 2-Chlorotoluene	126	10.714	10.714	(0.940)	409506	49.4816	9.896
	74 1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	1436899	54.1235	10.825
	75 4-Chlorotoluene	126	10.809	10.809	(0.948)	425713	51.7785	10.356
	76 tert-Butylbenzene	119	11.070	11.070	(0.971)	1334463	48.3340	9.667
	77 1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	1506489	54.2399	10.848
	78 sec-Butylbenzene	105	11.248	11.247	(0.986)	1664730	51.8909	10.378
	79 4-Isopropyltoluene	119	11.366	11.366	(0.997)	1677256	53.8738	10.775
	80 1,3-Dichlorobenzene	146	11.342	11.342	(0.995)	903598	48.1332	9.627

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Report Date: 02-Aug-2010 08:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81	1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	951690	49.4410	9.888
82	n-Butylbenzene	91	11.710	11.710	(1.027)	1186249	51.1636	10.233
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	879113	47.6494	9.530
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	58024	46.4531	9.291
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	621959	47.8416	9.568
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	267597	43.3981	8.680
87	Naphthalene	128	13.275	13.275	(1.164)	1179040	50.7941	10.159
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	579845	49.3759	9.875
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.733	2.733	(0.407)	343090	47.9305	9.586
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.879	4.879	(0.726)	285515	47.4198	9.484
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.615	5.615	(0.836)	20086	4.53579	0.9072
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	6.421	6.421	(0.681)	357323	1840.02	368.00
100	Methyl Methacrylate	41	7.441	7.417	(1.108)	2549	0.79547	0.1591
101	2-Nitropropane	41	7.832	7.761	(1.166)	6917	7.85892	1.572
98	Cyclohexane	56	6.089	6.089	(0.906)	694065	47.3639	9.473
143	Methyl Acetate	43	3.563	3.563	(0.530)	237285	51.6820	10.336
144	Methylcyclohexane	83	7.251	7.251	(1.079)	533247	51.1765	10.235
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	41727	57.1224	11.424
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	11.461	11.461	(1.005)	1555443	40.1369	8.027

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Lab Smp Id: ICV
Inj Date : 30-JUL-2010 12:22
Operator : 43582 Inst ID: a3ux15.i
Smp Info : ICV
Misc Info : C00730A-IC,8260LLUX15,,43582,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 02-Aug-2010 08:48 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 16:15 Cal File: UXC9971.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0252.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1070658	4.84
2 Chlorobenzene-d5	769451	384726	1538902	830155	7.89
3 1,4-Dichlorobenze	534878	267439	1069756	561249	4.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Report Date: 02-Aug-2010 08:48

TestAmerica North Canton

RECOVERY REPORT

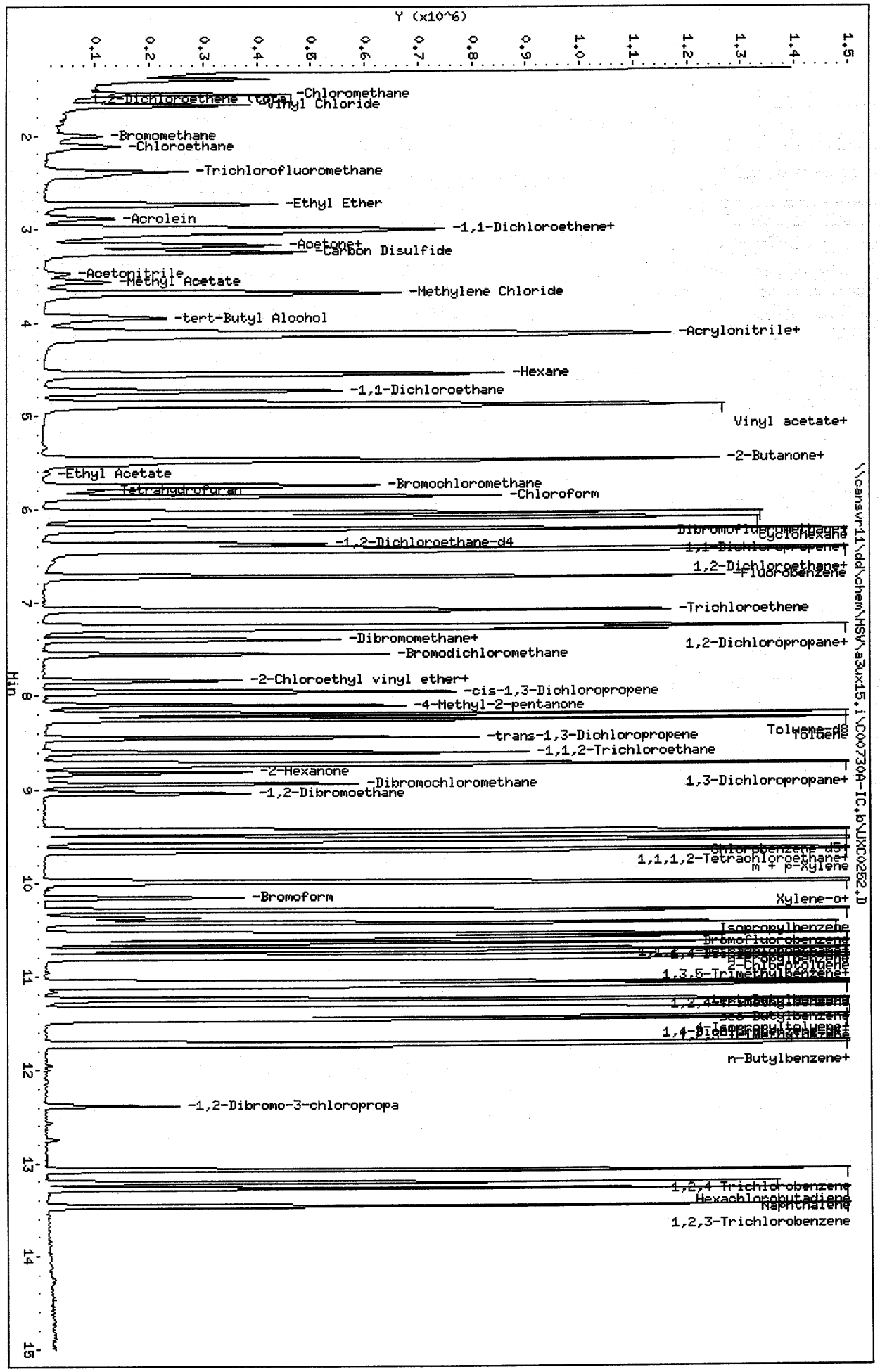
Client Name:
Client SDG: SDGa00932
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: ICV
Level: LOW
Operator: 43582
Data Type: MS DATA
SampleType: METHSPIKE
SpikeList File: DOD-ck.spk
Quant Type: ISTD
Sublist File: 4-8260+IX.sub
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582,3

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	17	1,1-Dichloroethene	10.000	9.721	97.21	45-155
	42	Trichloroethene	10.000	9.846	98.46	45-155
	59	Chlorobenzene	10.000	9.810	98.11	45-155
	50	Toluene	10.000	9.834	98.34	45-155
	41	Benzene	10.000	9.654	96.55	45-155
	16	Acetone	20.000	20.338	101.69	45-155
	20	Carbon Disulfide	10.000	10.490	104.90	45-155
	9	Chloromethane	10.000	9.155	91.55	45-155
	11	Bromomethane	10.000	9.556	95.56	45-155
	10	Vinyl Chloride	10.000	10.324	103.25	45-155
	12	Chloroethane	10.000	8.589	85.89	45-155
	21	Methylene Chloride	10.000	9.143	91.43	45-155
	28	1,1-Dichloroethane	10.000	9.772	97.72	45-155
M	31	1,2-Dichloroethene	20.000	19.298	96.49	45-155
	35	Chloroform	10.000	9.988	99.88	45-155
	40	1,2-Dichloroethane	10.000	9.847	98.47	45-155
	30	2-Butanone	20.000	21.004	105.02	45-155
	37	1,1,1-Trichloroeth	10.000	9.575	95.75	45-155
	39	Carbon Tetrachlori	10.000	9.487	94.87	45-155
	46	Bromodichlorometha	10.000	10.091	100.91	45-155
	43	1,2-Dichloropropan	10.000	10.136	101.36	45-155
	48	cis-1,3-Dichloropr	10.000	8.873	88.73	45-155
	54	1,3-Dichloropropan	10.000	10.322	103.22	45-155
	57	Dibromochlorometha	10.000	10.211	102.11	45-155
	53	1,1,2-Trichloroeth	10.000	9.899	98.99	45-155
	51	trans-1,3-Dichloro	10.000	9.263	92.63	45-155
	66	Bromoform	10.000	10.552	105.52	45-155
	49	4-Methyl-2-pentano	20.000	21.457	107.28	45-155
	56	2-Hexanone	20.000	21.339	106.69	45-155
	55	Tetrachloroethene	10.000	9.717	97.17	45-155
	68	1,1,2,2-Tetrachlor	10.000	9.945	99.45	45-155
	61	Ethylbenzene	10.000	10.440	104.40	45-155
	65	Styrene	10.000	10.673	106.73	45-155
M	63	Xylenes (total)	30.000	30.933	103.11	45-155
	32	cis-1,2-dichloroet	10.000	9.553	95.53	45-155
	25	trans-1,2-Dichloro	10.000	9.745	97.45	45-155
	8	Dichlorodifluorome	10.000	9.002	90.02	45-155
	13	Trichlorofluoromet	10.000	9.587	95.87	45-155
	70	1,2,3-Trichloropro	10.000	10.155	101.55	45-155
	18	Freon-113	10.000	10.605	106.05	45-155

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Report Date: 02-Aug-2010 08:48

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
24 Methyl tert-butyl	10.000	9.985	99.85	45-155
58 1,2-Dibromoethane	10.000	10.440	104.40	45-155
67 Isopropylbenzene	10.000	10.212	102.12	45-155
80 1,3-Dichlorobenzen	10.000	9.627	96.27	45-155
81 1,4-Dichlorobenzen	10.000	9.888	98.88	45-155
83 1,2-Dichlorobenzen	10.000	9.530	95.30	45-155
84 1,2-Dibromo-3-chlo	10.000	9.291	92.91	45-155
85 1,2,4-Trichloroben	10.000	9.568	95.68	45-155
98 Cyclohexane	10.000	9.473	94.73	45-155
143 Methyl Acetate	10.000	10.336	103.36	45-155
144 Methylcyclohexane	10.000	10.235	102.35	45-155
71 Bromobenzene	10.000	10.095	100.95	45-155
34 Bromochloromethane	10.000	9.936	99.36	45-155
82 n-Butylbenzene	10.000	10.233	102.33	45-155
78 sec-Butylbenzene	10.000	10.378	103.78	45-155
76 tert-Butylbenzene	10.000	9.667	96.67	45-155
73 2-Chlorotoluene	10.000	9.896	98.96	45-155
75 4-Chlorotoluene	10.000	10.356	103.56	45-155
45 Dibromomethane	10.000	10.412	104.12	45-155
33 2,2-Dichloropropan	10.000	9.329	93.29	45-155
38 1,1-Dichloropropen	10.000	9.799	97.99	45-155
86 Hexachlorobutadien	10.000	8.680	86.80	45-155
19 Iodomethane	10.000	10.773	107.73	45-155
92 Isopropyl Ether	10.000	9.484	94.84	45-155
79 4-Isopropyltoluene	10.000	10.775	107.75	45-155
87 Naphthalene	10.000	10.159	101.59	45-155
72 n-Propylbenzene	10.000	10.867	108.67	45-155
60 1,1,1,2-Tetrachlor	10.000	9.788	97.88	45-155
88 1,2,3-Trichloroben	10.000	9.875	98.75	45-155
77 1,2,4-Trimethylben	10.000	10.848	108.48	45-155
74 1,3,5-Trimethylben	10.000	10.825	108.25	45-155
152 Vinyl Acetate-86	10.000	11.424	114.24	45-155
62 m + p-Xylene	20.000	20.469	102.35	45-155
64 Xylene-o	10.000	10.464	104.64	45-155

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	10.000	8.662	86.62	73-122
$ 5 1,2-Dichloroethane	10.000	8.955	89.55	61-128
$ 6 Toluene-d8	10.000	9.016	90.16	76-110
$ 7 Bromofluorobenzene	10.000	9.510	95.10	74-116



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D
Date : 30-JUL-2010 12:22
Client ID:
Sample Info: ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux15.i
Operator: 43582
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0252.D

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0253.D
Report Date: 30-Jul-2010 13:13

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux15.i
Lab File ID: UXC0253.D
Analysis Type: WATER
Lab Sample ID: 50NG-A9CC
Method: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m

Injection Date: 30-JUL-2010 12:45
Init. Cal. Date(s): 17-MAY-2010 30-JUL-2010
Init. Cal. Times: 08:17 12:00
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
14 Dichlorofluoromethane	0.42851	0.24026	0.24026	0.010	43.93228	50.00000	Averaged	
89 Ethyl Ether	0.33428	0.27215	0.27215	0.010	18.58702	50.00000	Averaged	
91 3-Chloropropene	0.16748	0.13110	0.13110	0.010	21.72362	50.00000	Averaged	
92 Isopropyl Ether	0.28118	0.26440	0.26440	0.010	5.96898	50.00000	Averaged	
93 2-Chloro-1,3-butadiene	0.61604	0.55453	0.55453	0.010	9.98488	50.00000	Averaged	
94 Propionitrile	0.03839	0.03369	0.03369	0.010	12.25326	50.00000	Averaged	
95 Ethyl Acetate	0.20680	0.18067	0.18067	0.010	12.63631	50.00000	Averaged	
96 Methacrylonitrile	0.16877	0.13597	0.13597	0.010	19.43344	50.00000	Averaged	
97 Isobutanol	0.01170	0.00768	0.00768	0.010	34.37309	50.00000	Averaged	<-
99 n-Butanol	0.00706	0.00537	0.00537	0.010	24.00413	50.00000	Averaged	<-
103 Cyclohexanone	0.01808	0.01524	0.01524	0.010	15.67926	50.00000	Averaged	
100 Methyl Methacrylate	0.14965	0.16171	0.16171	0.010	-8.06463	50.00000	Averaged	
101 2-Nitropropane	0.04110	0.04196	0.04196	0.010	-2.07530	50.00000	Averaged	
146 2-Methylnaphthalene	100	60.20498	0.76111	0.010	39.79502	0.000e+000	Quadratic	
155 tert-Butyl Ethyl Ether	1.05734	0.94054	0.94054	0.010	11.04647	50.00000	Averaged	
156 tert-Amyl Methyl Ether	0.61540	0.58967	0.58967	0.010	4.18136	50.00000	Averaged	
157 1,2,3-Trimethylbezene	50.00000	36.47043	2.49333	0.010	27.05915	0.000e+000	Wt Linear	

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b/UXC0253.D
Report Date: 07/30/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: a3ux15.i
Lab File ID: UXC0253.D
Analysis Type: WATER

Injection Date: 30-JUL-2010 12:45
Lab Sample ID: 50NG-A9CC
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
0	Fluorobenzene	50.0000	50.0000	0.0	50.0
0	Chlorobenzene-d5	50.0000	50.0000	0.0	50.0
0	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	50.0
0	Dichlorofluoromethane	50.0000	28.0339	43.9	50.0
0	Ethyl Ether	50.0000	40.7065	18.6	50.0
0	3-Chloropropene	50.0000	39.1382	21.7	50.0
0	Isopropyl Ether	250.0000	235.0775	6.0	50.0
0	2-Chloro-1,3-butadiene	50.0000	45.0076	10.0	50.0
0	Propionitrile	100.0000	87.7467	12.3	50.0
0	Ethyl Acetate	100.0000	87.3637	12.6	50.0
0	Methacrylonitrile	50.0000	40.2833	19.4	50.0
0	Isobutanol	1000.0000	656.2691	34.4	50.0
0	2-Nitropropane	100.0000	102.0753	2.1	50.0
0	Methyl Methacrylate	50.0000	54.0323	8.1	50.0
73	n-Butanol	1000.0000	759.9587	24.0	50.0
75	Cyclohexanone	500.0000	421.6037	15.7	50.0
146	2-Methylnaphthalene	100.0000	60.2050	39.8	50.0
155	tert-Butyl Ethyl Ether	50.0000	44.4768	11.0	50.0
156	tert-Amyl Methyl Ether	50.0000	47.9093	4.2	50.0
157	1,2,3-Trimethylbezene	50.0000	36.4704	27.1	50.0

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RAW QC DATA

TestAmerica North Canton

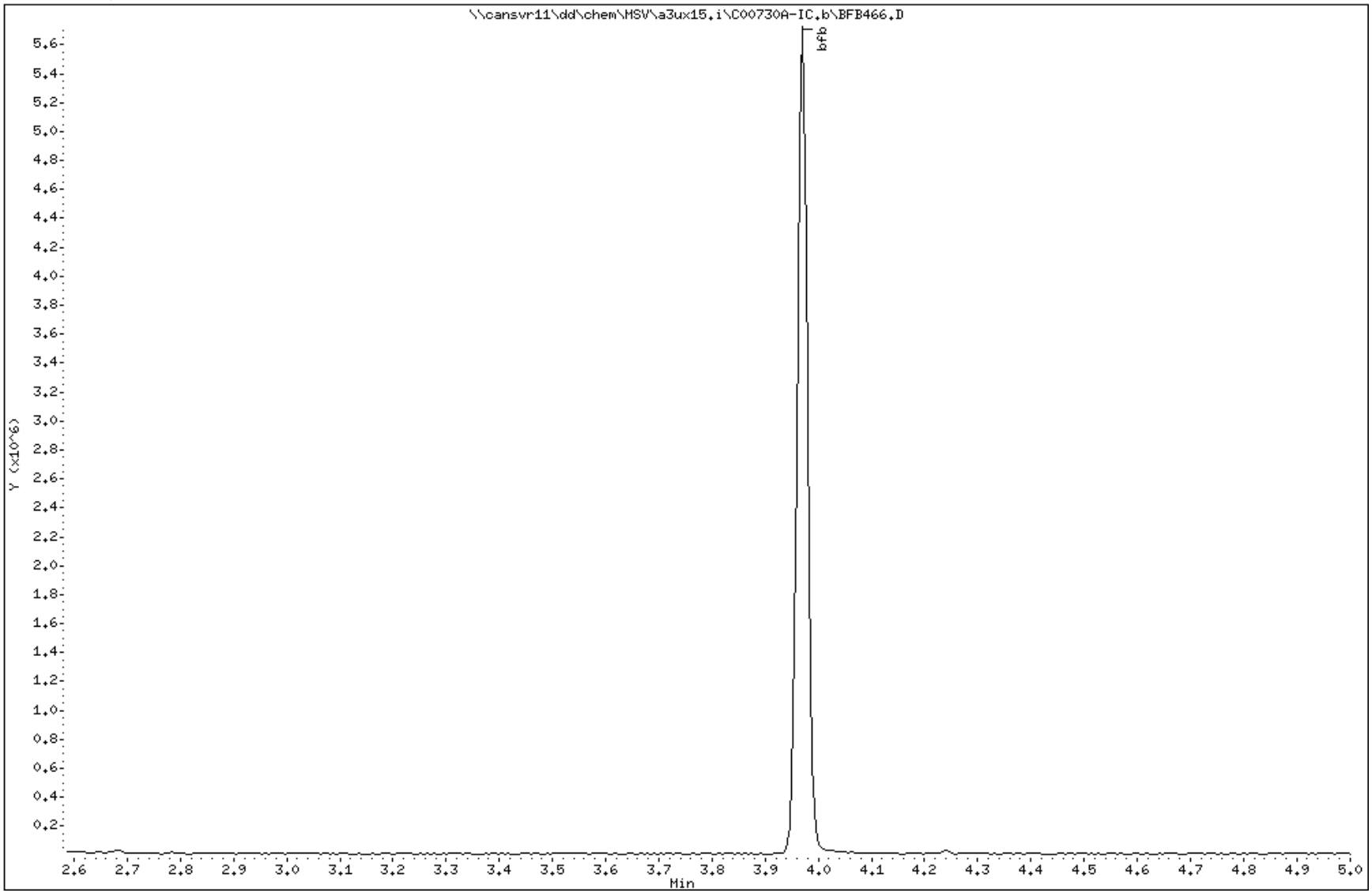
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Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
Inj Date : 30-JUL-2010 09:22
Operator : 43582 Inst ID: a3ux15.i
Smp Info :
Misc Info : C00730A-IC,BFBUX15,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\BFBUX15.m
Meth Date : 15-Dec-2009 09:18 evansl Quant Type: ESTD
Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
Als bottle: 29 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.970	3.610	0.360	95	970176			100.00- 100.00	100.00
3.970	3.610	0.360	50	212864			15.00- 40.00	21.94
3.970	3.610	0.360	75	486272			30.00- 60.00	50.12
3.970	3.610	0.360	96	63344			5.00- 9.00	6.53
3.970	3.610	0.360	173	8056			0.00- 2.00	0.89
3.970	3.610	0.360	174	910208			50.00- 100.00	93.82
3.970	3.610	0.360	175	65208			5.00- 9.00	7.16
3.970	3.610	0.360	176	872000			95.00- 101.00	95.80
3.970	3.610	0.360	177	55008			5.00- 9.00	6.31

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\BFB466.D Page 1
Date : 30-JUL-2010 09:22
Client ID: 50NG BFB Instrument: a3ux15.i
Sample Info:
Volume Injected (uL): 1.0 Operator: 43582
Column phase: DB624 20M Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\BFB466.D

Date : 30-JUL-2010 09:22

Client ID: 50NG BFB

Instrument: a3ux15.i

Sample Info:

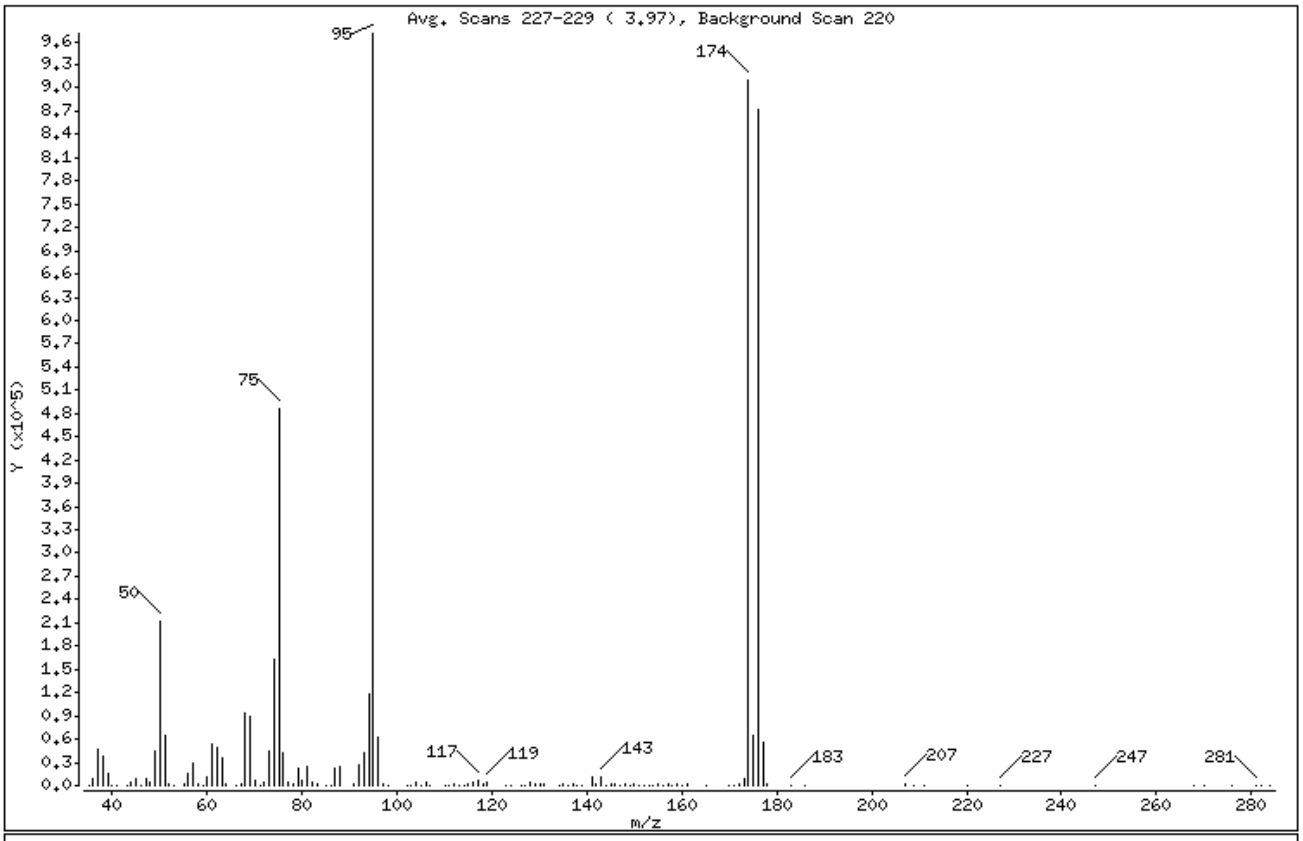
Volume Injected (uL): 1.0

Operator: 43582

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.94
75	30.00 - 60.00% of mass 95	50.12
96	5.00 - 9.00% of mass 95	6.53
173	Less than 2.00% of mass 174	0.83 (0.89)
174	50.00 - 100.00% of mass 95	93.82
175	5.00 - 9.00% of mass 174	6.72 (7.16)
176	95.00 - 101.00% of mass 174	89.88 (95.80)
177	5.00 - 9.00% of mass 176	5.67 (6.31)

Date : 30-JUL-2010 09:22

Client ID: 50NG BFB Instrument: a3ux15.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 43582

Column phase: DB624 20M Column diameter: 0.18

Data File: BFB466.D
Spectrum: Avg. Scans 227-229 (3.97), Background Scan 220
Location of Maximum: 95.00
Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	334	72.00	5146	114.00	194	155.00	2988
36.00	8443	73.00	45440	115.00	1407	156.00	544
37.00	46440	74.00	162496	116.00	3881	157.00	2160
38.00	38536	75.00	486272	117.00	6523	158.00	377
39.00	15688	76.00	41600	118.00	3105	159.00	1704
40.00	408	77.00	3600	119.00	5528	160.00	181
41.00	200	78.00	2562	123.00	244	161.00	2017
43.00	473	79.00	23024	124.00	813	165.00	270
44.00	4235	80.00	7388	126.00	202	170.00	255
45.00	8174	81.00	23928	127.00	511	171.00	213
46.00	473	82.00	4924	128.00	3429	172.00	2098
47.00	9777	83.00	1138	129.00	2080	173.00	8056
48.00	5562	85.00	168	130.00	3115	174.00	910208
49.00	44200	86.00	558	131.00	1756	175.00	65208
50.00	212864	87.00	23080	134.00	566	176.00	872000
51.00	65464	88.00	24656	135.00	1999	177.00	55008
52.00	2673	91.00	3275	136.00	168	178.00	1710
53.00	187	92.00	27560	137.00	1694	183.00	236
55.00	2943	93.00	42288	138.00	182	186.00	223
56.00	16640	94.00	117856	139.00	93	207.00	1142
57.00	29344	95.00	970176	141.00	11330	209.00	177
58.00	1387	96.00	63344	142.00	1618	211.00	172
59.00	568	97.00	2102	143.00	11721	220.00	186
60.00	11911	98.00	222	144.00	604	227.00	181
61.00	52488	102.00	192	145.00	1382	247.00	202
62.00	48096	103.00	601	146.00	1954	268.00	263
63.00	36208	104.00	4778	147.00	452	270.00	371
64.00	3332	105.00	805	148.00	2719	276.00	199
66.00	179	106.00	3745	149.00	802	281.00	633
67.00	2685	107.00	1005	150.00	1283	282.00	190
68.00	93360	110.00	760	151.00	273	284.00	196
69.00	89616	111.00	928	152.00	433		
70.00	6228	112.00	1116	153.00	605		
71.00	474	113.00	390	154.00	517		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L40QN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-130 L40QN1AD-LCSD
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**98**	**(63 - 130)**			**SW846 8260B**
	100	**(63 - 130)**	**1.6**	**(0-20)**	**SW846 8260B**
Trichloroethene	**101**	**(75 - 122)**			**SW846 8260B**
	99	**(75 - 122)**	**1.7**	**(0-20)**	**SW846 8260B**
Benzene	**96**	**(80 - 116)**			**SW846 8260B**
	95	**(80 - 116)**	**0.91**	**(0-20)**	**SW846 8260B**
Toluene	**102**	**(74 - 119)**			**SW846 8260B**
	102	**(74 - 119)**	**0.74**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**98**	**(76 - 117)**			**SW846 8260B**
	99	**(76 - 117)**	**0.61**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	87	(61 - 128)
Toluene-d8	93	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	99	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L40QN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-130 L40QN1AD-LCSD
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10**	**9.8**	**ug/L**	**98**		**SW846 8260B**
	10	**10**	**ug/L**	**100**	**1.6**	**SW846 8260B**
Trichloroethene	**10**	**10**	**ug/L**	**101**		**SW846 8260B**
	10	**9.9**	**ug/L**	**99**	**1.7**	**SW846 8260B**
Benzene	**10**	**9.6**	**ug/L**	**96**		**SW846 8260B**
	10	**9.5**	**ug/L**	**95**	**0.91**	**SW846 8260B**
Toluene	**10**	**10**	**ug/L**	**102**		**SW846 8260B**
	10	**10**	**ug/L**	**102**	**0.74**	**SW846 8260B**
Chlorobenzene	**10**	**9.8**	**ug/L**	**98**		**SW846 8260B**
	10	**9.9**	**ug/L**	**99**	**0.61**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	87	(61 - 128)
Toluene-d8	93	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	99	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0254.D
Report Date: 30-Jul-2010 13:28

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0254.D
Lab Smp Id: LCS
Inj Date : 30-JUL-2010 13:07
Operator : 43582 Inst ID: a3ux15.i
Smp Info : LCS
Misc Info : C00730A-IC,8260LLUX15,,43582,3
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 30-Jul-2010 13:14 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 10 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.717	6.717	(1.000)	992045	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	725414	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.401	11.402	(1.000)	479236	50.0000	
$ 4 Dibromofluoromethane	113	6.041	6.041	(0.899)	289145	42.4602	8.492
$ 5 1,2-Dichloroethane-d4	65	6.373	6.374	(0.949)	365508	43.4866	8.697
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	1026599	46.6455	9.329
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	374750	47.8035	9.561
8 Dichlorodifluoromethane	85	1.393	1.393	(0.207)	225530	40.4040	8.081
9 Chloromethane	50	1.547	1.559	(0.230)	430600	44.6521	8.930
10 Vinyl Chloride	62	1.666	1.666	(0.248)	295204	46.8649	9.373
11 Bromomethane	94	1.998	1.998	(0.297)	57339	43.3326	8.666
12 Chloroethane	64	2.116	2.116	(0.315)	120288	44.6338	8.927
13 Trichlorofluoromethane	101	2.389	2.389	(0.356)	274048	46.6960	9.339
15 Acrolein	56	2.875	2.875	(0.428)	138703	156.412	31.282
16 Acetone	43	3.089	3.089	(0.460)	132260	76.9425	15.388
17 1,1-Dichloroethene	96	2.994	2.994	(0.446)	311520	48.9916	9.798
18 Freon-113	151	3.041	3.041	(0.453)	256842	50.7936	10.159
19 Iodomethane	142	3.172	3.172	(0.472)	660163	55.0557	11.011
20 Carbon Disulfide	76	3.243	3.243	(0.483)	855692	52.8779	10.576
21 Methylene Chloride	84	3.682	3.682	(0.548)	373900	46.4129	9.282

23 Acrylonitrile	53	4.097	4.097 (0.610)	309264	132.472	26.494
24 Methyl tert-butyl ether	73	4.144	4.132 (0.617)	691041	47.9701	9.594

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0254.D
Report Date: 30-Jul-2010 13:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
25	trans-1,2-Dichloroethene	96	4.120	4.109	(0.613)	353917	49.7270	9.945
26	Hexane	86	4.547	4.547	(0.677)	68517	52.3338	10.467
27	Vinyl acetate	43	4.867	4.856	(0.725)	975594	133.808	26.762
28	1,1-Dichloroethane	63	4.737	4.737	(0.705)	680812	50.2327	10.046
30	2-Butanone	43	5.520	5.520	(0.822)	166119	85.8079	17.162
M 31	1,2-Dichloroethene (total)	96				707298	98.3268	19.665
32	cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	353381	48.5998	9.720
33	2,2-Dichloropropane	77	5.472	5.472	(0.815)	307289	46.8609	9.372
34	Bromochloromethane	128	5.757	5.757	(0.857)	189640	50.2480	10.050
35	Chloroform	83	5.864	5.864	(0.873)	597947	49.8546	9.971
36	Tetrahydrofuran	42	5.804	5.804	(0.864)	66878	41.8627	8.372
37	1,1,1-Trichloroethane	97	6.041	6.041	(0.899)	476355	48.0846	9.617
38	1,1-Dichloropropene	75	6.219	6.219	(0.926)	418148	49.6110	9.922
39	Carbon Tetrachloride	117	6.219	6.219	(0.926)	433433	47.0596	9.412
40	1,2-Dichloroethane	62	6.456	6.457	(0.961)	520621	47.4843	9.497
41	Benzene	78	6.433	6.433	(0.958)	1163552	47.9486	9.590
42	Trichloroethene	130	7.085	7.085	(1.055)	377431	50.3345	10.067
43	1,2-Dichloropropane	63	7.287	7.287	(1.085)	310293	48.9654	9.793
45	Dibromomethane	93	7.393	7.393	(1.101)	155709	48.9837	9.797
46	Bromodichloromethane	83	7.547	7.548	(1.124)	353519	49.3155	9.863
47	2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	108382	47.8933	9.579
48	cis-1,3-Dichloropropene	75	7.963	7.951	(1.185)	332943	41.8451	8.369
49	4-Methyl-2-pentanone	43	8.105	8.105	(1.207)	374170	100.427	20.085
50	Toluene	91	8.247	8.247	(0.874)	1197330	50.8362	10.167
51	trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	290602	46.3400	9.268
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	203503	49.3189	9.864
54	1,3-Dichloropropane	76	8.745	8.745	(0.927)	342265	51.9127	10.382
55	Tetrachloroethene	164	8.721	8.721	(0.925)	292847	49.2424	9.848
56	2-Hexanone	43	8.816	8.816	(0.935)	220904	101.296	20.259
57	Dibromochloromethane	129	8.947	8.947	(0.948)	246957	51.2426	10.248
58	1,2-Dibromoethane	107	9.042	9.042	(0.959)	207965	52.0184	10.404
59	Chlorobenzene	112	9.457	9.457	(1.002)	830035	49.1850	9.837
60	1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	316211	48.9158	9.783
61	Ethylbenzene	106	9.552	9.552	(1.013)	439292	52.0999	10.420
62	m + p-Xylene	106	9.646	9.646	(1.023)	1098180	101.829	20.366
M 63	Xylenes (total)	106				1632419	152.820	30.564
64	Xylene-o	106	9.990	9.990	(1.059)	534239	50.9911	10.198
65	Styrene	104	10.002	10.002	(1.060)	805035	52.5875	10.517
66	Bromoform	173	10.156	10.156	(1.077)	133866	49.9338	9.987
67	Isopropylbenzene	105	10.299	10.299	(1.092)	1335077	48.6815	9.736
68	1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	227339	50.3299	10.066
69	1,4-Dichloro-2-butene	53	10.595	10.595	(0.929)	156716	89.0387	17.808
70	1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	92041	52.1887	10.438
71	Bromobenzene	156	10.560	10.560	(0.926)	380956	52.2607	10.452
72	n-Propylbenzene	120	10.643	10.643	(0.933)	404307	53.1004	10.620
73	2-Chlorotoluene	126	10.714	10.714	(0.940)	351218	49.7012	9.940
74	1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	1175600	51.8591	10.372
75	4-Chlorotoluene	126	10.809	10.809	(0.948)	369381	52.6154	10.523
76	tert-Butylbenzene	119	11.069	11.069	(0.971)	1088392	46.2629	9.252
77	1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	1208308	50.9491	10.190
78	sec-Butylbenzene	105	11.247	11.247	(0.986)	1345973	49.1349	9.827

79	4-Isopropyltoluene	119	11.366	11.366 (0.997)	1312840	49.3851	9.877
80	1,3-Dichlorobenzene	146	11.342	11.342 (0.995)	778337	48.5561	9.711

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0254.D
Report Date: 30-Jul-2010 13:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81	1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	785010	47.7610	9.552
82	n-Butylbenzene	91	11.710	11.710	(1.027)	936384	47.2983	9.460
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	729526	46.3084	9.262
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	47756	44.7755	8.955
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	455651	41.0471	8.209
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	189389	35.9708	7.194
87	Naphthalene	128	13.275	13.275	(1.164)	812002	40.9683	8.194
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	374531	37.3505	7.470
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.733	2.733	(0.407)	311925	47.0298	9.406
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.879	4.879	(0.726)	255735	45.8396	9.168
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.615	5.615	(0.836)	19644	4.78750	0.9575
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	6.421	6.421	(0.681)	283713	1671.92	334.38
100	Methyl Methacrylate	41	7.393	7.417	(1.101)	2780	0.93631	0.1873
101	2-Nitropropane	41	7.773	7.761	(1.157)	1754	2.15077	0.4302
98	Cyclohexane	56	6.089	6.089	(0.906)	620128	45.6718	9.134
143	Methyl Acetate	43	3.563	3.563	(0.530)	191634	45.0465	9.009
144	Methylcyclohexane	83	7.251	7.251	(1.079)	463298	47.9868	9.597
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	14.141	14.141	(1.240)	21076	16.2064	3.241
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	36515	54.1354	10.827
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	11.461	11.461	(1.005)	1219256	37.1407	7.428

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0254.D
Report Date: 30-Jul-2010 13:28

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

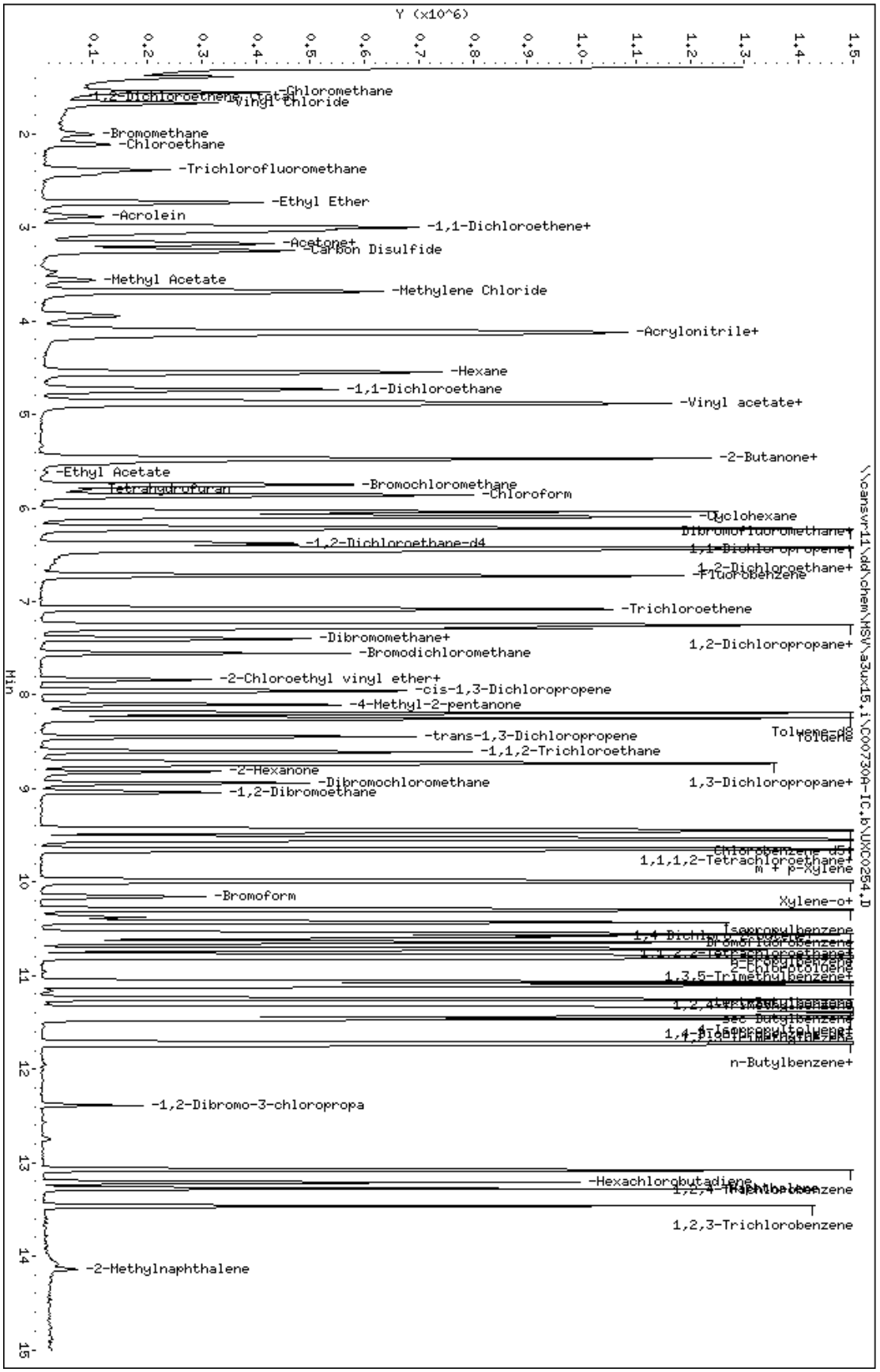
Instrument ID: a3ux15.i
Lab File ID: UXC0254.D
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582,3

Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	992045	-2.86
2 Chlorobenzene-d5	769451	384726	1538902	725414	-5.72
3 1,4-Dichlorobenze	534878	267439	1069756	479236	-10.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	-0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	-0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux15,i\C007306-IC,b\UXC0254.D
Date : 30-JUL-2010 13:07
Client ID:
Sample Info: LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux15,i
Operator: 43582
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0255.D
Report Date: 30-Jul-2010 13:52

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0255.D
Lab Smp Id: LCSD
Inj Date : 30-JUL-2010 13:30
Operator : 43582 Inst ID: a3ux15.i
Smp Info : LCSD
Misc Info : C00730A-IC,8260LLUX15,,43582,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 30-Jul-2010 13:14 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Fluorobenzene	96	6.717	6.717	(1.000)	992509	50.0000	
*	2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	716591	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	11.401	11.402	(1.000)	480382	50.0000	
$	4 Dibromofluoromethane	113	6.041	6.041	(0.899)	301190	44.2083	8.842
$	5 1,2-Dichloroethane-d4	65	6.373	6.374	(0.949)	364687	43.3687	8.674
$	6 Toluene-d8	98	8.188	8.188	(0.868)	1006796	46.3089	9.262
$	7 Bromofluorobenzene	95	10.429	10.429	(1.106)	384249	49.6187	9.924
	8 Dichlorodifluoromethane	85	1.393	1.393	(0.207)	253638	45.4183	9.084
	9 Chloromethane	50	1.547	1.559	(0.230)	472449	48.9688	9.794
	10 Vinyl Chloride	62	1.666	1.666	(0.248)	324187	51.4420	10.288
	11 Bromomethane	94	1.998	1.998	(0.297)	77292	62.3112	12.462
	12 Chloroethane	64	2.104	2.116	(0.313)	137403	50.9606	10.192
	13 Trichlorofluoromethane	101	2.389	2.389	(0.356)	289548	49.3140	9.863
	15 Acrolein	56	2.875	2.875	(0.428)	146934	165.616	33.123
	16 Acetone	43	3.089	3.089	(0.460)	137949	80.5115	16.102
	17 1,1-Dichloroethene	96	2.994	2.994	(0.446)	316640	49.7735	9.955
	18 Freon-113	151	3.029	3.041	(0.451)	265030	52.3884	10.478
	19 Iodomethane	142	3.172	3.172	(0.472)	692591	57.7331	11.547
	20 Carbon Disulfide	76	3.243	3.243	(0.483)	884625	54.6403	10.928
	21 Methylene Chloride	84	3.682	3.682	(0.548)	389084	48.7754	9.755

23 Acrylonitrile	53	4.085	4.097 (0.608)	322484	138.070	27.614
24 Methyl tert-butyl ether	73	4.144	4.132 (0.617)	735240	51.0144	10.203

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0255.D
Report Date: 30-Jul-2010 13:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	25 trans-1,2-Dichloroethene	96	4.120	4.109	(0.613)	361410	50.7561	10.151
	26 Hexane	86	4.547	4.547	(0.677)	66974	51.1313	10.226
	27 Vinyl acetate	43	4.879	4.856	(0.726)	992671	136.087	27.217
	28 1,1-Dichloroethane	63	4.737	4.737	(0.705)	682238	50.3144	10.063
	30 2-Butanone	43	5.520	5.520	(0.822)	166193	85.8059	17.161
M	31 1,2-Dichloroethene (total)	96				723327	100.507	20.101
	32 cis-1,2-dichloroethene	96	5.484	5.484	(0.816)	361917	49.7504	9.950
	33 2,2-Dichloropropane	77	5.472	5.472	(0.815)	325738	49.6511	9.930
	34 Bromochloromethane	128	5.757	5.757	(0.857)	197150	52.2135	10.443
	35 Chloroform	83	5.864	5.864	(0.873)	605915	50.4953	10.099
	36 Tetrahydrofuran	42	5.804	5.804	(0.864)	71282	45.1965	9.039
	37 1,1,1-Trichloroethane	97	6.041	6.041	(0.899)	504653	50.9173	10.183
	38 1,1-Dichloropropene	75	6.219	6.219	(0.926)	423065	50.1709	10.034
	39 Carbon Tetrachloride	117	6.207	6.219	(0.924)	440089	47.7599	9.552
	40 1,2-Dichloroethane	62	6.457	6.457	(0.961)	529462	48.2681	9.654
	41 Benzene	78	6.433	6.433	(0.958)	1153607	47.5166	9.503
	42 Trichloroethene	130	7.085	7.085	(1.055)	371217	49.4826	9.896
	43 1,2-Dichloropropane	63	7.287	7.287	(1.085)	310356	48.9524	9.790
	45 Dibromomethane	93	7.393	7.393	(1.101)	156599	49.2406	9.848
	46 Bromodichloromethane	83	7.547	7.548	(1.124)	351813	49.0546	9.811
	47 2-Chloroethyl vinyl ether	63	7.832	7.832	(1.166)	104776	46.4578	9.292
	48 cis-1,3-Dichloropropene	75	7.963	7.951	(1.185)	323840	40.7665	8.153
	49 4-Methyl-2-pentanone	43	8.105	8.105	(1.207)	373025	100.073	20.014
	50 Toluene	91	8.247	8.247	(0.874)	1191593	51.2155	10.243
	51 trans-1,3-Dichloropropene	75	8.449	8.449	(0.896)	274264	44.3912	8.878
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	8.603	8.603	(0.912)	197947	48.5631	9.713
	54 1,3-Dichloropropane	76	8.745	8.745	(0.927)	324495	49.8234	9.965
	55 Tetrachloroethene	164	8.721	8.721	(0.925)	281425	47.9044	9.581
	56 2-Hexanone	43	8.816	8.816	(0.935)	205550	95.4163	19.083
	57 Dibromochloromethane	129	8.947	8.947	(0.948)	241416	50.7097	10.142
	58 1,2-Dibromoethane	107	9.042	9.042	(0.959)	196686	49.8029	9.960
	59 Chlorobenzene	112	9.457	9.457	(1.002)	825054	49.4918	9.898
	60 1,1,1,2-Tetrachloroethane	131	9.528	9.528	(1.010)	317387	49.7022	9.940
	61 Ethylbenzene	106	9.552	9.552	(1.013)	447009	53.6678	10.734
	62 m + p-Xylene	106	9.646	9.646	(1.023)	1102587	103.496	20.699
M	63 Xylenes (total)	106				1665618	157.897	31.579
	64 Xylene-o	106	9.990	9.990	(1.059)	563031	54.4008	10.880
	65 Styrene	104	9.990	10.002	(1.059)	795383	52.5967	10.519
	66 Bromoform	173	10.156	10.156	(1.077)	132076	49.8727	9.974
	67 Isopropylbenzene	105	10.299	10.299	(1.092)	1400546	51.6975	10.339
	68 1,1,2,2-Tetrachloroethane	83	10.548	10.548	(0.925)	235784	52.0750	10.415
	69 1,4-Dichloro-2-butene	53	10.595	10.595	(0.929)	156774	88.8656	17.773
	70 1,2,3-Trichloropropane	110	10.583	10.583	(0.928)	90499	51.1920	10.238
	71 Bromobenzene	156	10.560	10.560	(0.926)	376002	51.4580	10.292
	72 n-Propylbenzene	120	10.643	10.643	(0.933)	421454	55.2204	11.044
	73 2-Chlorotoluene	126	10.714	10.714	(0.940)	359774	50.7905	10.158
	74 1,3,5-Trimethylbenzene	105	10.785	10.785	(0.946)	1193677	52.5310	10.506
	75 4-Chlorotoluene	126	10.809	10.809	(0.948)	365555	51.9462	10.389
	76 tert-Butylbenzene	119	11.069	11.069	(0.971)	1082542	45.9209	9.184
	77 1,2,4-Trimethylbenzene	105	11.105	11.105	(0.974)	1258180	52.9254	10.585
	78 sec-Butylbenzene	105	11.247	11.247	(0.986)	1348162	49.0974	9.819

79	4-Isopropyltoluene	119	11.366	11.366 (0.997)	1363574	51.1712	10.234
80	1,3-Dichlorobenzene	146	11.342	11.342 (0.995)	766299	47.6910	9.538

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0255.D
Report Date: 30-Jul-2010 13:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
81	1,4-Dichlorobenzene	146	11.425	11.425	(1.002)	803045	48.7417	9.748
82	n-Butylbenzene	91	11.710	11.710	(1.027)	964185	48.5863	9.717
83	1,2-Dichlorobenzene	146	11.734	11.734	(1.029)	717898	45.4616	9.092
84	1,2-Dibromo-3-chloropropane	157	12.386	12.386	(1.086)	48560	45.4207	9.084
85	1,2,4-Trichlorobenzene	180	13.074	13.074	(1.147)	461379	41.4639	8.293
86	Hexachlorobutadiene	225	13.216	13.216	(1.159)	195498	37.0425	7.408
87	Naphthalene	128	13.275	13.275	(1.164)	827323	41.6417	8.328
88	1,2,3-Trichlorobenzene	180	13.465	13.465	(1.181)	380290	37.8344	7.567
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.733	2.733	(0.407)	327393	49.3389	9.868
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.879	4.879	(0.726)	276138	49.4736	9.895
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.626	5.615	(0.838)	17345	4.22523	0.8450
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	6.421	6.421	(0.681)	281545	1679.57	335.91
100	Methyl Methacrylate	41	7.346	7.417	(1.094)	2338	0.78708	0.1574
101	2-Nitropropane	41	7.832	7.761	(1.166)	7577	9.28665	1.857
98	Cyclohexane	56	6.089	6.089	(0.906)	649685	47.8263	9.565
143	Methyl Acetate	43	3.563	3.563	(0.530)	193798	45.5339	9.107
144	Methylcyclohexane	83	7.251	7.251	(1.079)	493528	51.0940	10.219
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	14.141	14.141	(1.240)	4029	15.1338	3.027
152	Vinyl Acetate-86	86	4.856	4.856	(0.723)	33711	50.2147	10.043
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	11.461	11.461	(1.005)	1250446	37.9168	7.583

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Report Date: 30-Jul-2010 13:52

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0255.D
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582,3

Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	992509	-2.81
2 Chlorobenzene-d5	769451	384726	1538902	716591	-6.87
3 1,4-Dichlorobenze	534878	267439	1069756	480382	-10.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	-0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	-0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15,i\C007306-IC,b\UXC0255,D
Date : 30-JUL-2010 13:30
Client ID:
Sample Info: LCSD
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux15,i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-1,1-Dichloroethene+
-Acetone+
-Carbon Disulfide
-Methyl Acetate
-Methylene Chloride
-Acrylonitrile+
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-2-Butanone+
-Ethyl Acetate
-Bromochloromethane
-Chloroform
-Cyclohexane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Trichloroethene
-Dibromomethane+
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether+
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
1,3,5-Trimethylbenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-Hexachlorobutadiene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L40QN1AA **Matrix.....:** WATER
MB Lot-Sample #: A0H020000-130

Prep Date.....: 07/30/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 07/30/10 **Prep Batch #...:** 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L40QN1AA **Matrix.....:** WATER

NOTE(S):

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

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Report Date: 30-Jul-2010 14:18

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Lab Smp Id: VBLK
Inj Date : 30-JUL-2010 13:52
Operator : 43582 Inst ID: a3ux15.i
Smp Info : VBLK
Misc Info : C00730A-IC,8260LLUX15,,43582,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 30-Jul-2010 13:14 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	6.717	6.717	(1.000)	1034646	50.0000	
* 2 Chlorobenzene-d5	117	9.433	9.433	(1.000)	766846	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	11.402	11.402	(1.000)	495408	50.0000	
$ 4 Dibromofluoromethane	113	6.041	6.041	(0.899)	296279	41.7164	8.343
$ 5 1,2-Dichloroethane-d4	65	6.373	6.374	(0.949)	389410	44.4228	8.884
$ 6 Toluene-d8	98	8.188	8.188	(0.868)	988044	42.4681	8.494
$ 7 Bromofluorobenzene	95	10.429	10.429	(1.106)	357819	43.1777	8.636
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

23	Acrylonitrile	53	Compound Not Detected.
24	Methyl tert-butyl ether	73	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Report Date: 30-Jul-2010 14:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	Compound Not Detected.					
	77 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	78 sec-Butylbenzene	105	Compound Not Detected.					

79	4-Isopropyltoluene	119	Compound Not Detected.
80	1,3-Dichlorobenzene	146	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Report Date: 30-Jul-2010 14:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	6.421	6.421	(0.681)	10161	56.6434	11.329
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
152	Vinyl Acetate-86	86	Compound Not Detected.					
155	tert-Butyl Ethyl Ether	59	Compound Not Detected.					
156	tert-Amyl Methyl Ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbezene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Report Date: 30-Jul-2010 14:18

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/B

Data file : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Lab Smp Id: VBLK
Inj Date : 30-JUL-2010 13:52
Operator : 43582 Inst ID: a3ux15.i
Smp Info : VBLK
Misc Info : C00730A-IC,8260LLUX15,,43582,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Meth Date : 30-Jul-2010 13:14 a3ux15.i Quant Type: ISTD
Cal Date : 19-JUL-2010 15:01 Cal File: UXC9968.D
Als bottle: 12 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Report Date: 30-Jul-2010 14:18

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux15.i
Lab File ID: UXC0256.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\8260LLUX15.m
Misc Info: C00730A-IC,8260LLUX15,,43582,3,,BLANK,,0

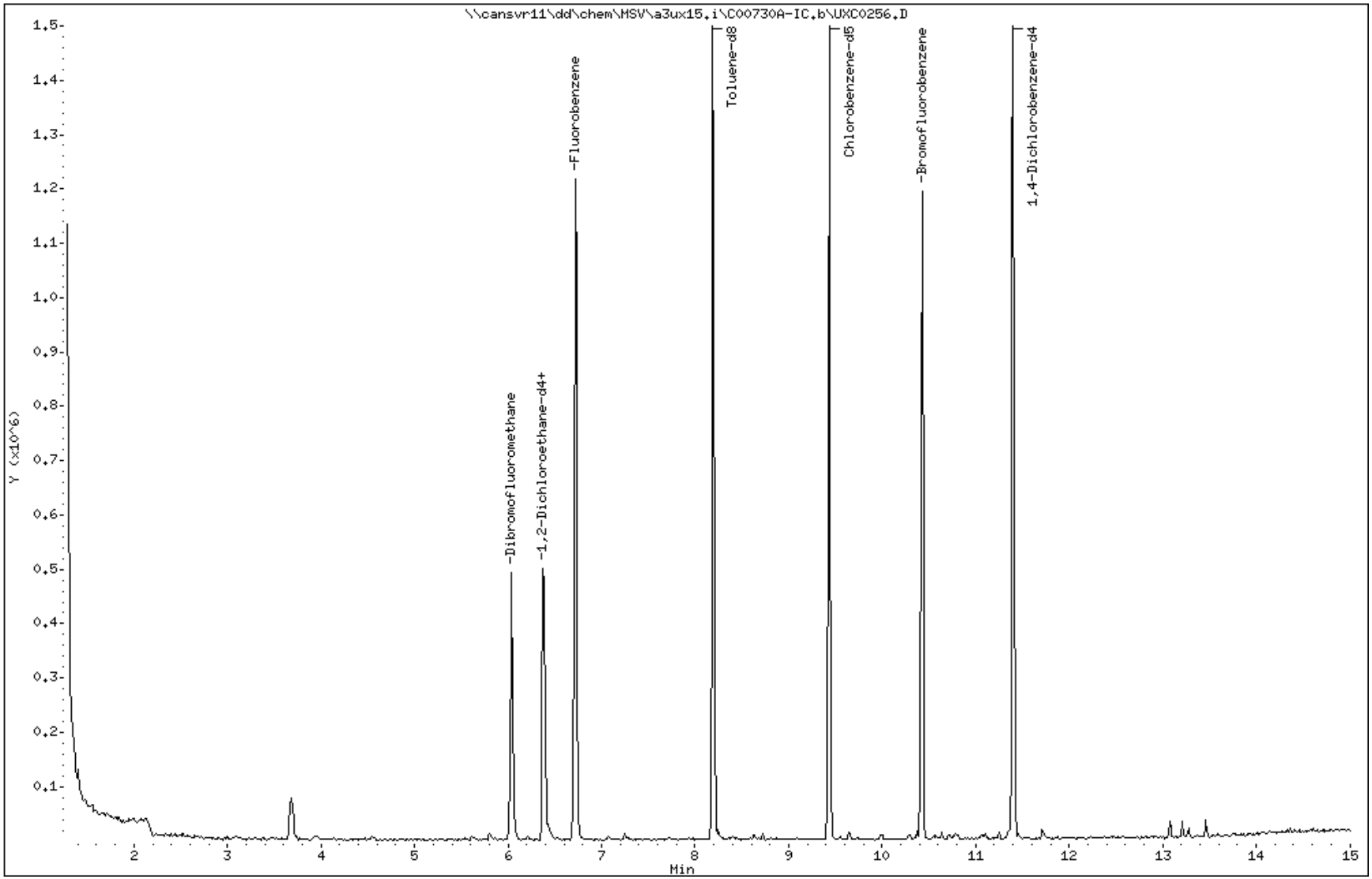
Calibration Date: 30-JUL-2010
Calibration Time: 10:53
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1021210	510605	2042420	1034646	1.32
2 Chlorobenzene-d5	769451	384726	1538902	766846	-0.34
3 1,4-Dichlorobenze	534878	267439	1069756	495408	-7.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.72	6.22	7.22	6.72	-0.00
2 Chlorobenzene-d5	9.43	8.93	9.93	9.43	-0.00
3 1,4-Dichlorobenze	11.40	10.90	11.90	11.40	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D
Date : 30-JUL-2010 13:52
Client ID:
Instrument: a3ux15.i
Sample Info: VBLK
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux15.i\C00730A-IC.b\UXC0256.D

Date : 30-JUL-2010 13:52

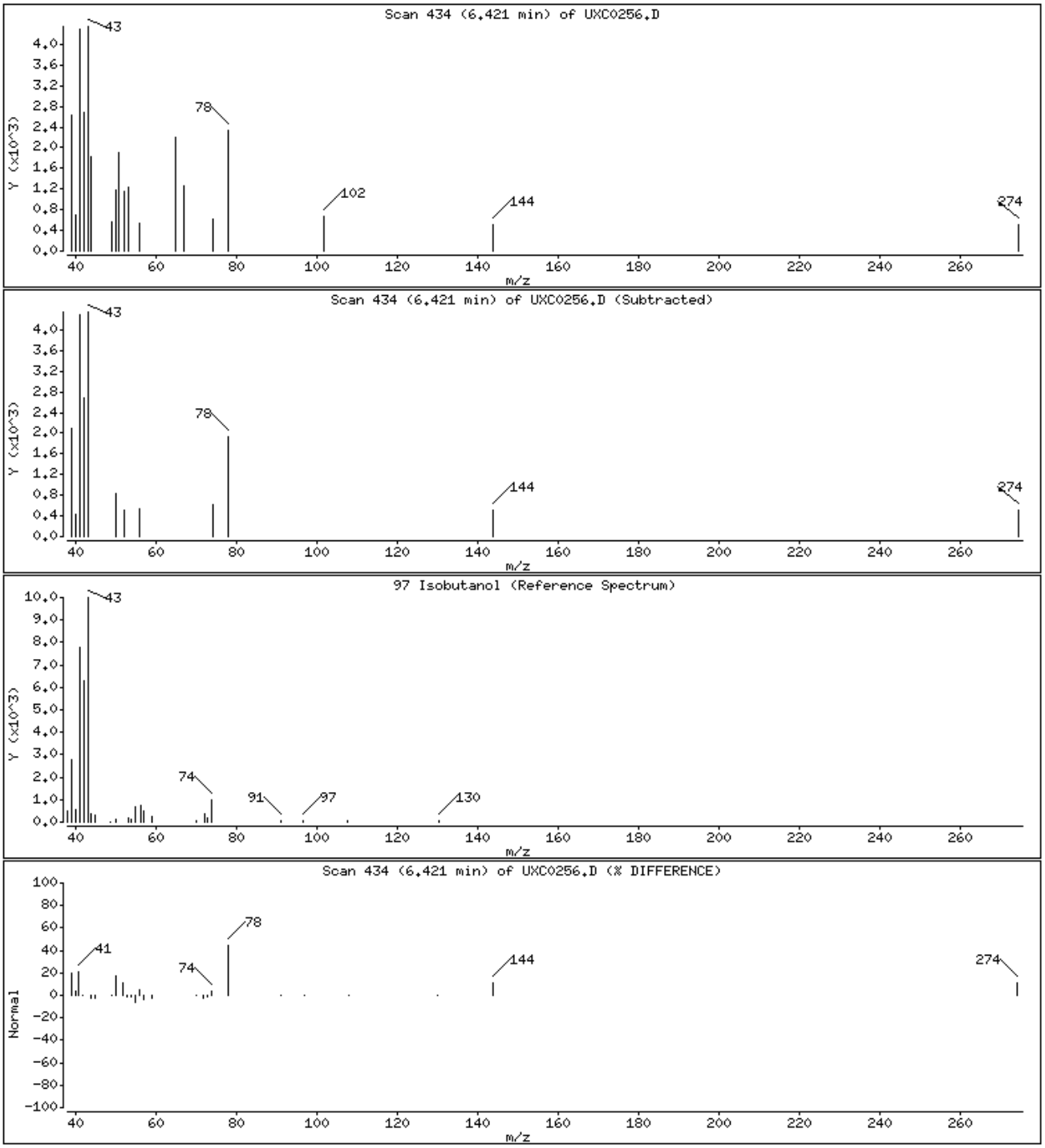
Client ID: Instrument: a3ux15.i

Sample Info: VBLK

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

97 Isobutanol Concentration: 11.329 ug/L



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

Instr. a3ux15.i

Date: 30-JUL-2010 09:22

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG

7/30

Standard Codes:	Column		
IS#: V8952	Type: DB624	Method: 8260 624	
SS#: V8834	Length: 20 M	Batch: 0214130	
BFB#: V8538	I.D.: 0.18 mm	Target Batch: C00730A-IC.b	

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
09:22	BFB466.D	dfTPP.	BFB				ok
09:45	UXC0245.D	RINSE	SAMPLE			SDGa00932	—
10:07	UXC0246.D	200NG-IC V8960,61,62,63	CALIB_6		C00730		ok
10:30	UXC0247.D	100NG-IC	CALIB_5		|		ok
10:53	UXC0248.D	50NG-IC	CALIB_4		|		ok
11:15	UXC0249.D	25NG-IC	CALIB_3		|		ok
11:37	UXC0250.D	10NG-IC	CALIB_2		|		ok
12:00	UXC0251.D	5NG-IC	CALIB_1		|		ok
12:22	UXC0252.D	ICV V8964	METHSPIKE				ok
12:45	UXC0253.D	50NG-A9CC V8948,50	CCALIB_4		C00719		ok
13:07	UXC0254.D	LCS V8964	METHSPIKE		L40 9N		OK
13:30	UXC0255.D	LCSD	METHSPIKE		|		OK
13:52	UXC0256.D	VBLK	BLANK		|		OK
14:15	UXC0257.D	L4CFE1AA,0.3ML/5ML	SAMPLE	N		A0G170422	OK
14:38	UXC0258.D	L4CMD2AA,0.15ML/5ML	SAMPLE	Y	460.60 638.42 CACE + TCE only	0G14440	OK
15:01	UXC0259.D	L4CFE1AN,0.3ML/5ML	MS	N		A0G170422	OK
15:23	UXC0260.D	L4CFE1AP,0.3ML/5ML	MSD	N		A0G170422	OK
15:45	UXC0261.D	L4GJG1AJ,5ML/5ML	SAMPLE	N		A0G210469	OK
16:08	UXC0262.D	L4GJT1AJ,5ML/5ML	SAMPLE	N		A0G210469	OK
16:30	UXC0263.D	L4GJV1AJ,5ML/5ML	SAMPLE	N		A0G210469	OK
16:52	UXC0264.D	L4GJ01AJ,5ML/5ML	SAMPLE	N		A0G210469	OK
17:15	UXC0265.D	L4GJ11AJ,5ML/5ML	SAMPLE	N		A0G210469	OK
17:38	UXC0266.D	L4GJ21AA,5ML/5ML	SAMPLE	N		A0G210469	OK
18:00	UXC0267.D	L4GJ41AA,5ML/5ML	SAMPLE	N		A0G210469	OK
18:23	UXC0268.D	L4JJE1AA,5ML/5ML	SAMPLE	N		A0G220467	OK

Analyst: 43582

10/21/10

Level 2 Review: TB Date: 8/2/10

Page No. #1

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#:	Type: DB624	Method: 8260 624
SS#:	Length: 20 M	Batch:
BFB#:	I.D.: 0.18 mm	Target Batch: C00730A-IC.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
18:45	UXC0269.D	L4JJM1AA,5ML/5ML	SAMPLE	N		A0G220467	OK
19:07	UXC0270.D	L4JJP1AA,5ML/5ML	SAMPLE	N		A0G220467	OK
19:30	UXC0271.D	L4JJT1AA,5ML/5ML	SAMPLE	N		A0G220467	OK
19:52	UXC0272.D	L4JJV1AA,5ML/5ML	SAMPLE	N		A0G220467	OK
20:15	UXC0273.D	L4JJX1AA,5ML/5ML	SAMPLE	N		A0G220467	OK
20:37	UXC0274.D	L4JJ21AA,5ML/5ML	SAMPLE	N		A0G220467	OK
21:00	UXC0275.D	L4JJ31AA,5ML/5ML	SAMPLE	N		A0G220467	OK

Analyst: 43582

Level 2 Review: _____ Date: _____

Lot: A0G210469

A0G210469

Sample	Work Order	SAC	Client Sample ID	pH	Free Chlorine
1	L4GJG-1AJ	XX I 25 QK 01	OW-22	<2	ND
2	L4GJT-1AJ	XX I 25 QK 01	OW-21	<2	ND
3	L4GJV-1AJ	XX I 25 QK 01	OW-10R	<2	ND
4	L4GJ0-1AJ	XX I 25 QK 01	MW4	<2	ND
5	L4GJ1-1AJ	XX I 25 QK 01	OW8	<2	ND
6	L4GJ2-1AA	XX I 25 QK 01	FIELD BLANK 1	<2	ND
7	L4GJ4-1AA	XX I 25 QK 01	TRIP BLANK	<2	ND

Lot/SDG Number: **A0G210469**

Sample Control Chain of Custody - TAL North Canton
GC/MS Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0G210469	1	L4GJG1AJ	Volatile Organics, GC/MS (8260B)	07/30/10	Laura Evans
A0G210469	2	L4GJT1AJ	Volatile Organics, GC/MS (8260B)	07/30/10	Laura Evans
A0G210469	3	L4GJV1AJ	Volatile Organics, GC/MS (8260B)	07/30/10	Laura Evans
A0G210469	4	L4GJ01AJ	Volatile Organics, GC/MS (8260B)	07/30/10	Laura Evans
A0G210469	5	L4GJ11AJ	Volatile Organics, GC/MS (8260B)	07/30/10	Laura Evans
A0G210469	6	L4GJ21AA	Volatile Organics, GC/MS (8260B)	07/30/10	Laura Evans
A0G210469	7	L4GJ41AA	Volatile Organics, GC/MS (8260B)	07/30/10	Laura Evans

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

DISSOLVED GASES/RSK DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

RSK SOP-175 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G290000 WO #: L4TXL1AC
BATCH: 0210163

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Methane	110	110	99	75- 127	
Ethane	200	200	97	74- 138	
Ethene	190	190	101	73- 140	
Acetylene	180	160	88	70- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G290000 WO #: L4TXL1AD
BATCH: 0210163

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Methane	110	110	100	75- 127	
Ethane	200	210	101	74- 138	
Ethene	190	200	103	73- 140	
Acetylene	180	160	89	70- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L4TXL1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN SDG Number:

Lab File ID: ZF072805. Lot Number: A0G210469

Date Analyzed: 07/28/10 Time Analyzed: 14:12

Matrix: WATER Date Extracted:07/28/10

GC Column: HAYSEP D ID: .32 Extraction Method: RSKSOP-175

Instrument ID: Z Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	OW-22	L4GJG1AH	ZF072813.	07/28/10	17:55
02	OW-21	L4GJT1AH	ZF072815.	07/28/10	18:46
03	OW-10R	L4GJV1AH	ZF072814.	07/28/10	18:20
04	MW4	L4GJ01AH	ZF072816.	07/28/10	19:11
05	OW8	L4GJ11AH	ZF072817.	07/28/10	19:36
06	CHECK SAMPLE	L4TXL1AC C	ZF072803.	07/28/10	13:21
07	DUPLICATE CHECK	L4TXL1AD L	ZF072804.	07/28/10	13:46
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Cardinal Resources

Client Sample ID: OW-22

GC Volatiles

Lot-Sample #...: A0G210469-001 **Work Order #...:** L4GJG1AH **Matrix.....:** WG
Date Sampled...: 07/20/10 09:45 **Date Received..:** 07/21/10
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 5 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	2.5	ug/L
Ethene	ND	2.5	ug/L
Methane	**2700**	**2.5**	**ug/L**

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072813.D
Lab Smp Id: L4GJG1AH Client Smp ID: OW-22
Inj Date : 28-JUL-2010 17:55
Operator : 042476 Inst ID: zpid.i
Smp Info : L4GJG1AH,5
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 28-Jul-2010 13:19 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.615	4.634	-0.019	3152786	541.406	2707
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072813.D

Date : 28-JUL-2010 17:55

Client ID: OW-22

Instrument: zpid.i

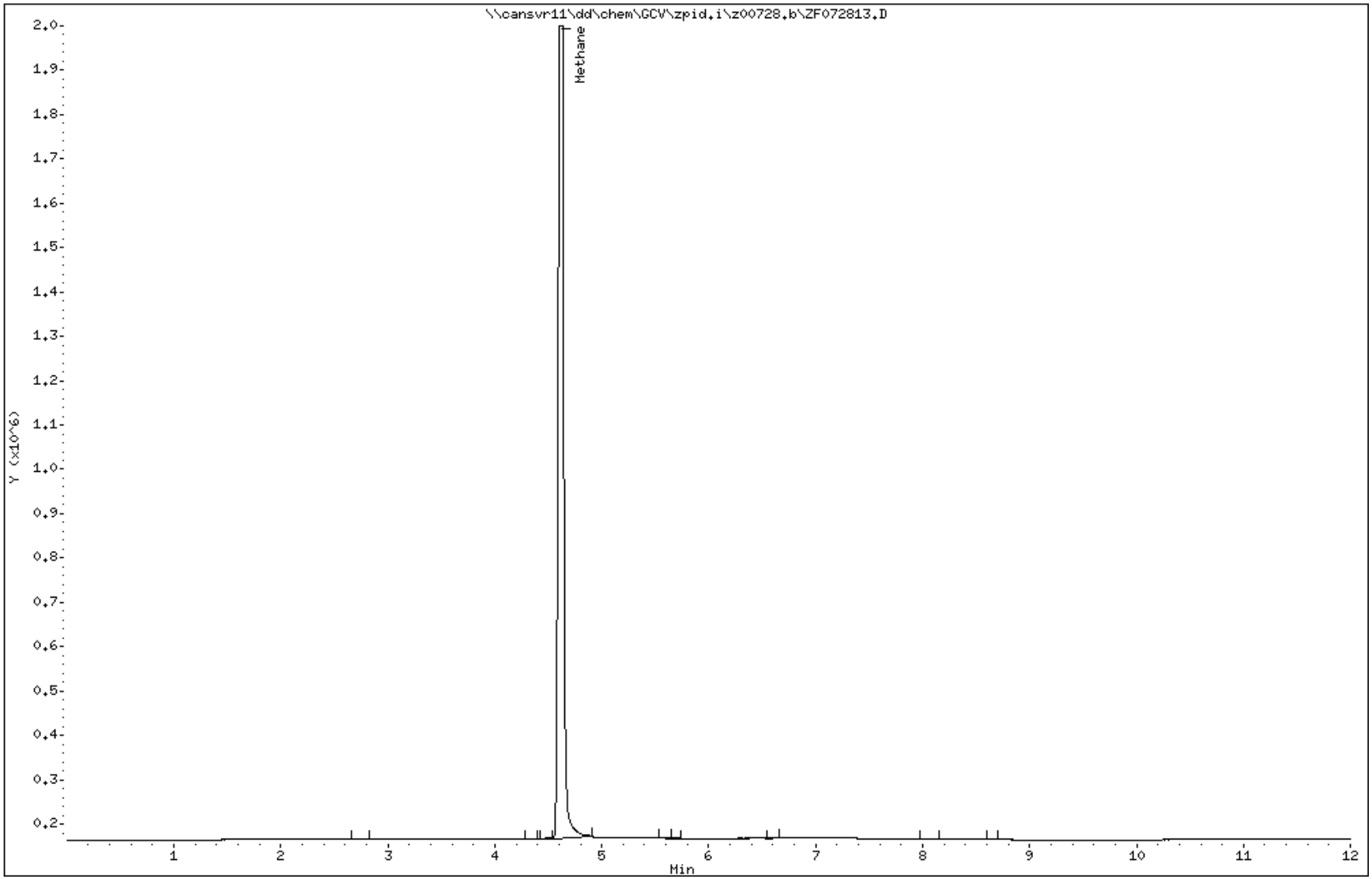
Sample Info: L4GJG1AH,5

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 28-JUL-2010 17:55
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072813.D
Lab Sample ID: L4GJG1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 5

Compound	RT	Area	Amount	Conc
1) Methane	4.616	8697724	541.406	2707.030 ug/L
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.767	

Cardinal Resources

Client Sample ID: OW-21

GC Volatiles

Lot-Sample #...: A0G210469-002 **Work Order #...:** L4GJT1AH **Matrix.....:** WG
Date Sampled...: 07/20/10 11:05 **Date Received..:** 07/21/10
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**290**	**0.50**	**ug/L**

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072815.D
Lab Smp Id: L4GJT1AH Client Smp ID: OW-21
Inj Date : 28-JUL-2010 18:46
Operator : 042476 Inst ID: zpid.i
Smp Info : L4GJT1AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 28-Jul-2010 13:19 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.610	4.634	-0.024	1685010	289.355	289.4
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072815.D

Date : 28-JUL-2010 18:46

Client ID: OW-21

Instrument: zpid.i

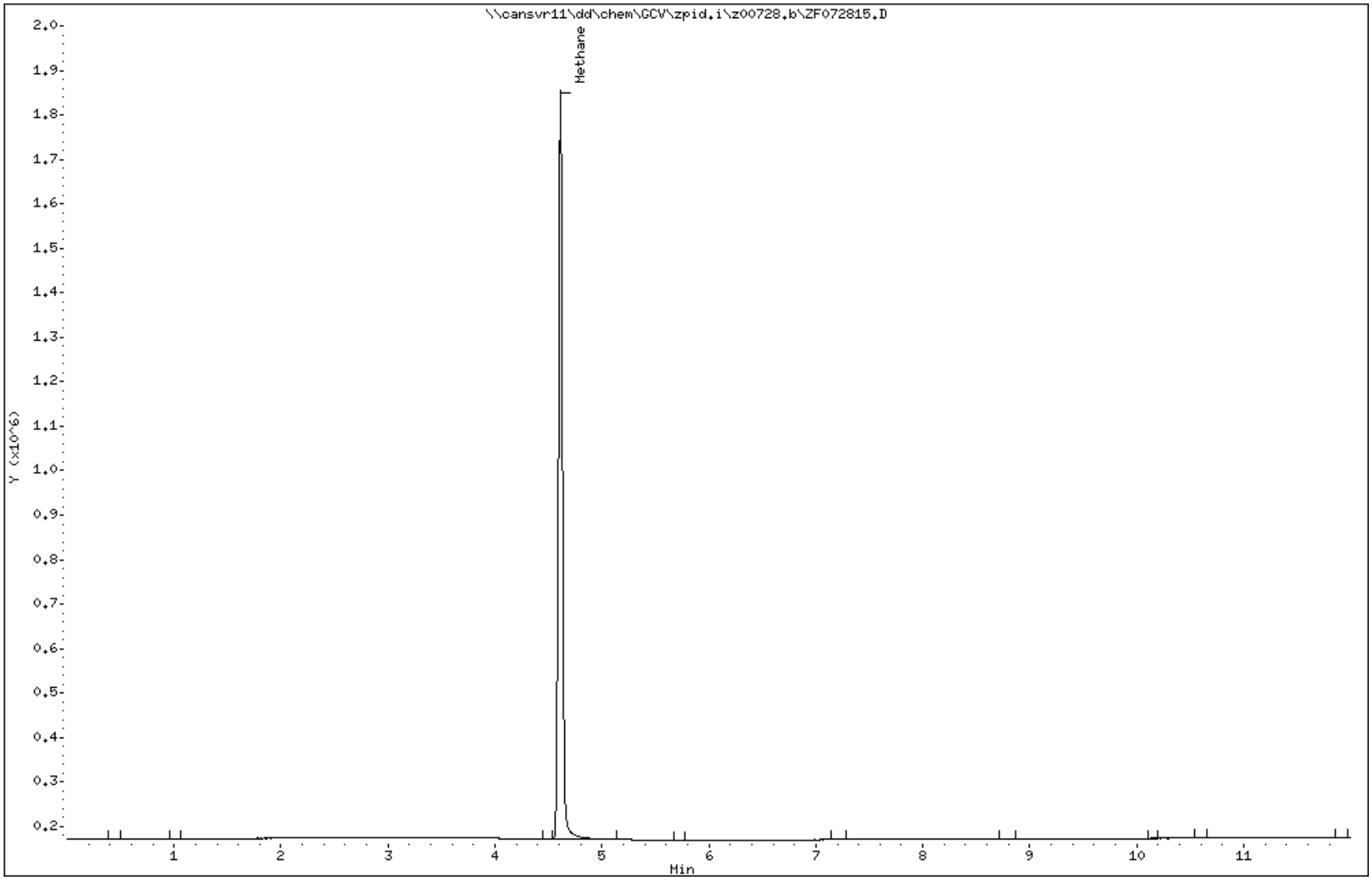
Sample Info: L4GJT1AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 28-JUL-2010 18:46
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072815.D
Lab Sample ID: L4GJT1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.611	4489069	289.355	289.355 ug/L
2) Ethene	NOT DETECTED	Expected RT = 7.204		
4) Acetylene	NOT DETECTED	Expected RT = 7.885		
3) Ethane	NOT DETECTED	Expected RT = 8.767		

Cardinal Resources

Client Sample ID: OW-10R

GC Volatiles

Lot-Sample #...: A0G210469-003 **Work Order #...:** L4GJV1AH **Matrix.....:** WG
Date Sampled...: 07/20/10 12:20 **Date Received..:** 07/21/10
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 5 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	2.5	ug/L
Ethene	ND	2.5	ug/L
Methane	**2300**	**2.5**	**ug/L**

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072814.D
Lab Smp Id: L4GJV1AH Client Smp ID: OW-10R
Inj Date : 28-JUL-2010 18:20
Operator : 042476 Inst ID: zpid.i
Smp Info : L4GJV1AH,5
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 28-Jul-2010 13:19 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.613	4.634	-0.021	2715291	466.278	2331
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072814.D

Date : 28-JUL-2010 18:20

Client ID: OW-10R

Instrument: zpid.i

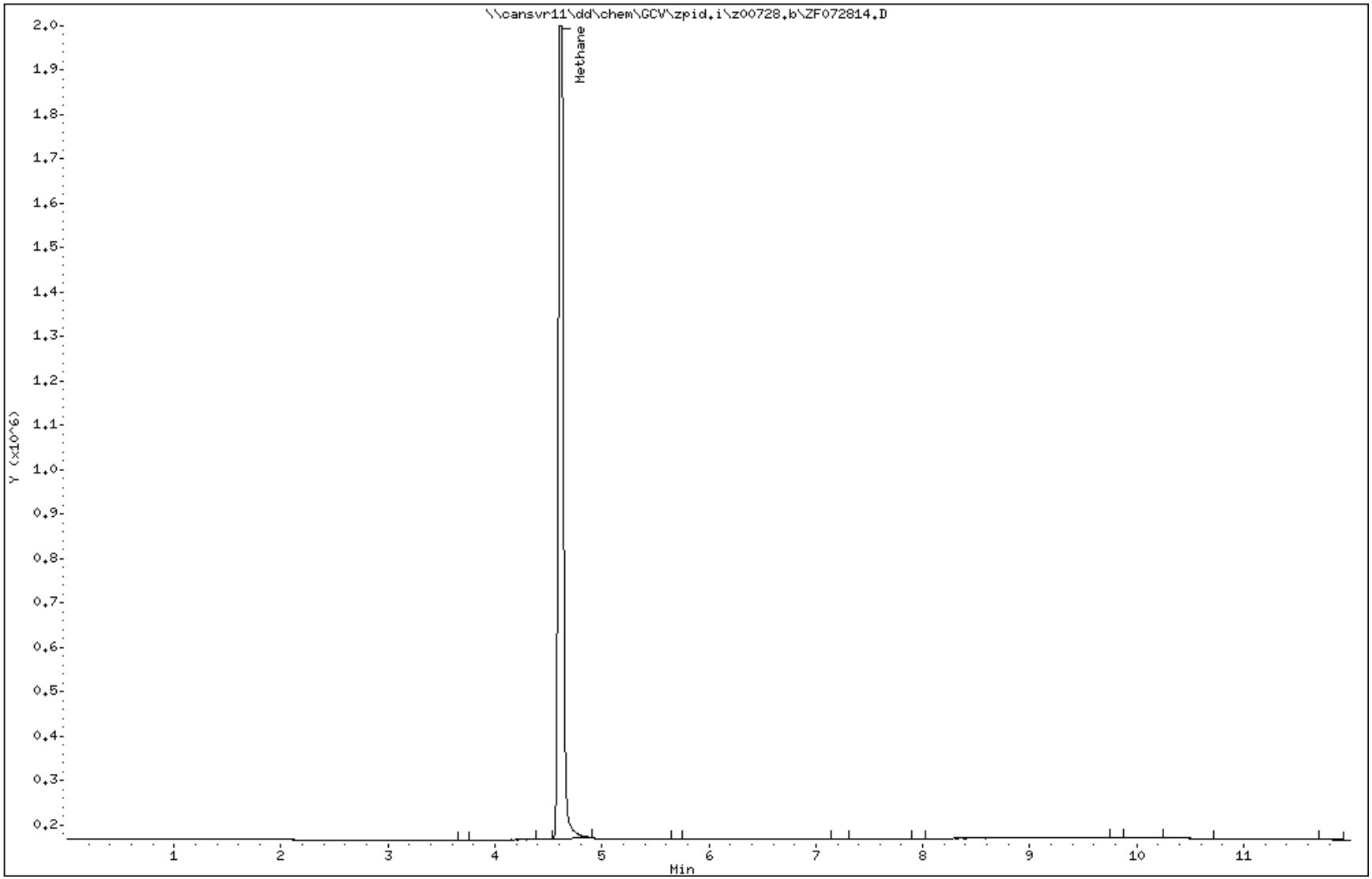
Sample Info: L4GJV1AH,5

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 28-JUL-2010 18:20
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072814.D
Lab Sample ID: L4GJV1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 5

Compound	RT	Area	Amount	Conc
1) Methane	4.614	7471669	466.278	2331.390 ug/L
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.767	

Cardinal Resources

Client Sample ID: MW4

GC Volatiles

Lot-Sample #...: A0G210469-004 **Work Order #...:** L4GJ01AH **Matrix.....:** WG
Date Sampled...: 07/20/10 13:45 **Date Received..:** 07/21/10
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**280**	**0.50**	**ug/L**

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072816.D
Lab Smp Id: L4GJ01AH Client Smp ID: MW4
Inj Date : 28-JUL-2010 19:11
Operator : 042476 Inst ID: zpid.i
Smp Info : L4GJ01AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 28-Jul-2010 13:19 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.612	4.634	-0.022	1618230	277.887	277.9
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072816.D

Date : 28-JUL-2010 19:11

Client ID: MW4

Instrument: zpid.i

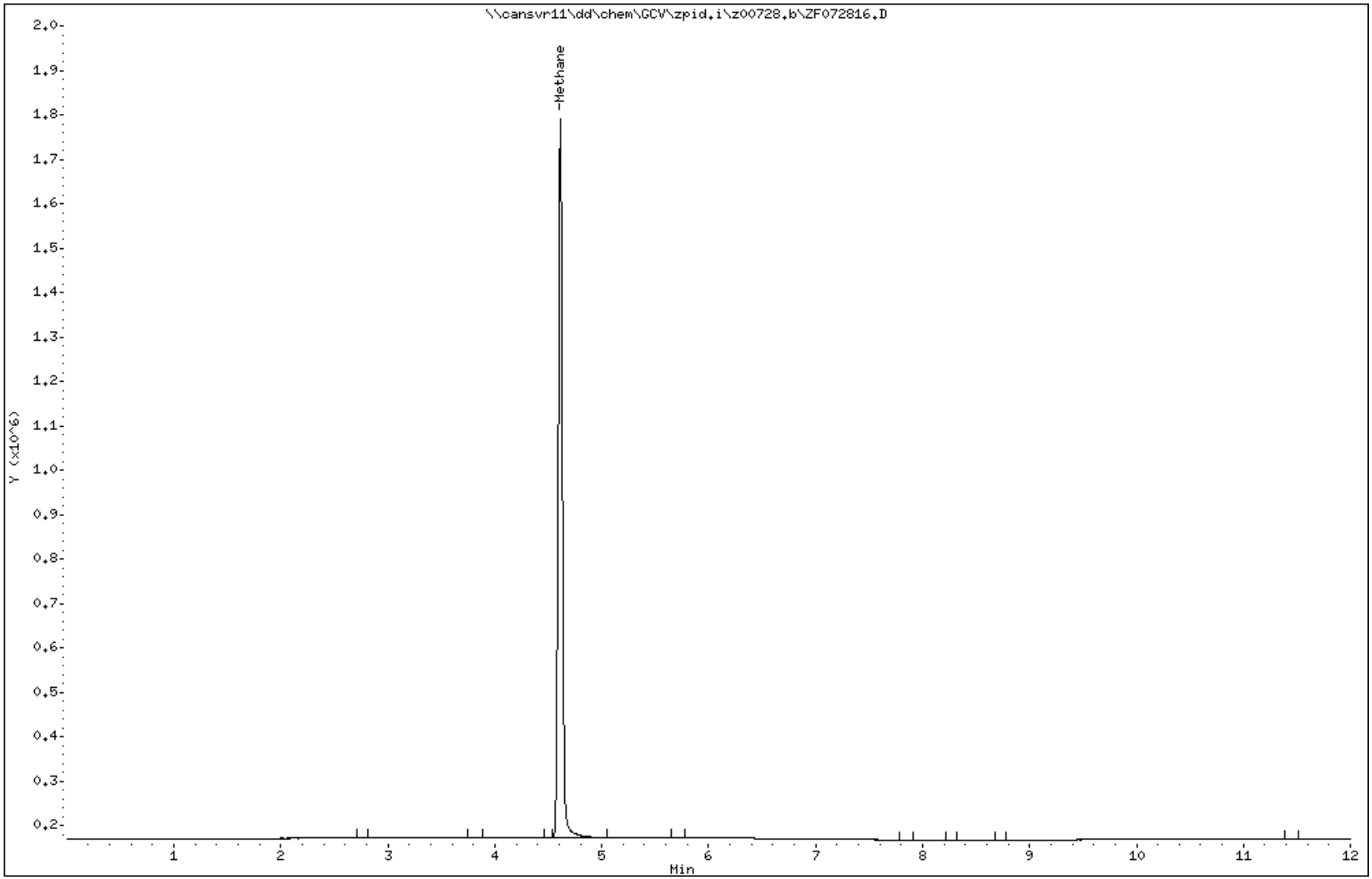
Sample Info: L4GJ01AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 28-JUL-2010 19:11
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072816.D
Lab Sample ID: L4GJ01AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.612	4427660	277.887	277.887 ug/L
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.767	

Cardinal Resources

Client Sample ID: OW8

GC Volatiles

Lot-Sample #...: A0G210469-005 **Work Order #...:** L4GJ11AH **Matrix.....:** WG
Date Sampled...: 07/20/10 15:00 **Date Received..:** 07/21/10
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**2.5**	**0.50**	**ug/L**

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072817.D
Lab Smp Id: L4GJ11AH Client Smp ID: OW8
Inj Date : 28-JUL-2010 19:36
Operator : 042476 Inst ID: zpid.i
Smp Info : L4GJ11AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 28-Jul-2010 13:19 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.617	4.634	-0.017	14443	2.48020	2.480
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072817.D

Date : 28-JUL-2010 19:36

Client ID: OW8

Instrument: zpid.i

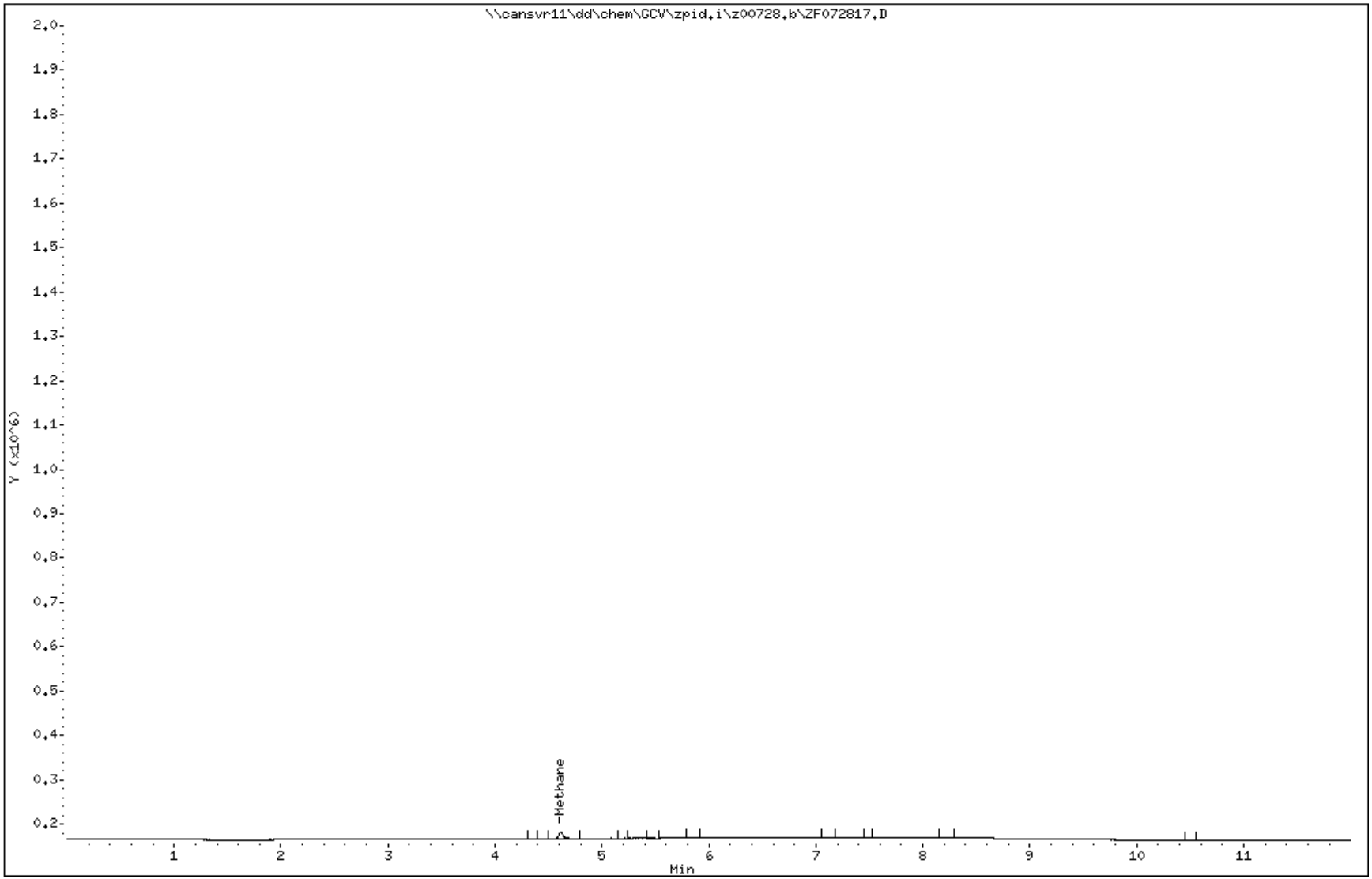
Sample Info: L4GJ11AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 28-JUL-2010 19:36
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072817.D
Lab Sample ID: L4GJ11AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.617	40424	2.480	2.480 ug/L
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.767	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 22-Jun-2010 11:14

Calibration History

Method : \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Start Cal Date: 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Last Cal Level: 9
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.24000		
10-JUN-2010 23:44	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Cal Level: 2 , Cal Amount: 0.91000		
11-JUN-2010 00:09	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Cal Level: 3 , Cal Amount: 3.64000		
11-JUN-2010 00:34	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Cal Level: 4 , Cal Amount: 10.93000		
11-JUN-2010 01:00	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Cal Level: 5 , Cal Amount: 36.44000		
11-JUN-2010 01:25	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Cal Level: 6 , Cal Amount: 109.31000		
11-JUN-2010 01:50	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Cal Level: 7 , Cal Amount: 372.92000		
11-JUN-2010 02:16	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Cal Level: 8 , Cal Amount: 728.71000		

11-JUN-2010 02:41	rsk	
\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D		

Cal Level: 9 , Cal Amount: 1457.42000

11-JUN-2010 03:06	rsk	
\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

11-JUN-2010 01:50	rsk	
\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D		

TestAmerica - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Last Edit : 11-Jun-2010 06:52 heakind
Curve Type : Average

Calibration File Names:
Level 1: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Level 2: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Level 3: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Level 4: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Level 5: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Level 6: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Level 7: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Level 8: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D
Level 9: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Compound	0.24000 Level 1	0.91000 Level 2	3.640 Level 3	10.930 Level 4	36.440 Level 5	109.310 Level 6	___ RRF	% RSD
	372.920 Level 7	728.710 Level 8	1457.420 Level 9					
1 Methane	5350	5395	5965	5964	5659	5669		
	6027	6087	6294				5823	5.537
2 Ethene	13680	13404	14902	14689	14090	14015		
	14581	14309	14613				14254	3.493
3 Ethane	13618	14214	16492	16342	15569	15582		
	16474	16179	16850				15702	7.036
4 Acetylene	5624	6083	5837	5855	5438	5687		
	5904	5873	5670				5775	3.277

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Lab Smp Id: 3770
Inj Date : 10-JUN-2010 23:44
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,1
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 10-JUN-2010 23:44 Cal File: ZF061002.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.631	4.631	0.000	1284	0.24000	0.2400(a)
2 Ethene	7.255	7.255	0.000	5609	0.41000	0.4100(a)
3 Ethane	8.841	8.841	0.000	5992	0.44000	0.4400
4 Acetylene	7.965	7.965	0.000	2137	0.38000	0.3800(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D

Date : 10-JUN-2010 23:44

Client ID:

Instrument: zpid.i

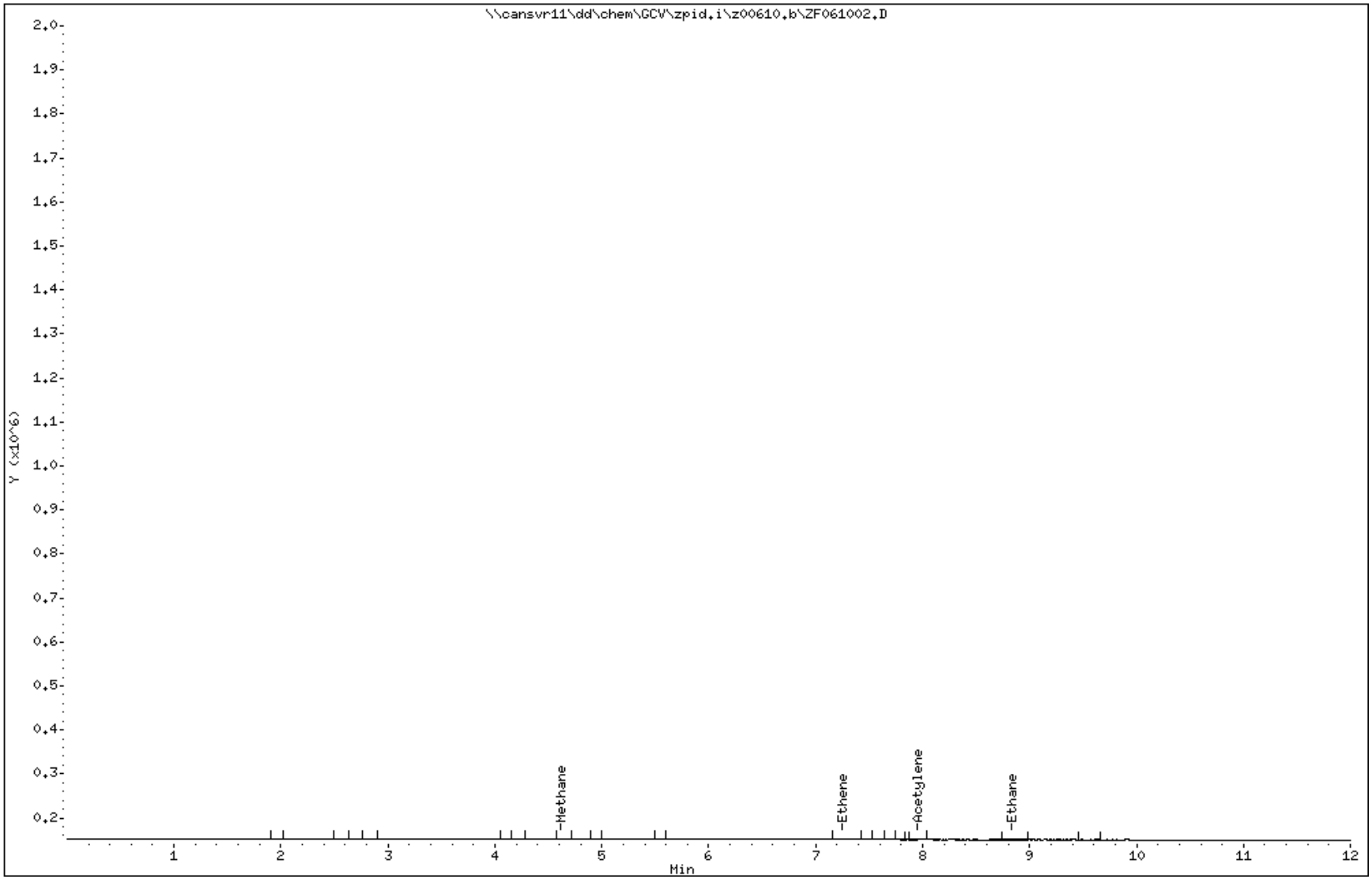
Sample Info: 3770,,1,1

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 10-JUN-2010 23:44
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061002.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.632	4031	0.240	0.240 ug/L
2) Ethene	7.255	5609	0.410	0.410 ug/L
4) Acetylene	7.965	2137	0.380	0.380 ug/L
3) Ethane	8.842	5992	0.440	0.440 ug/L

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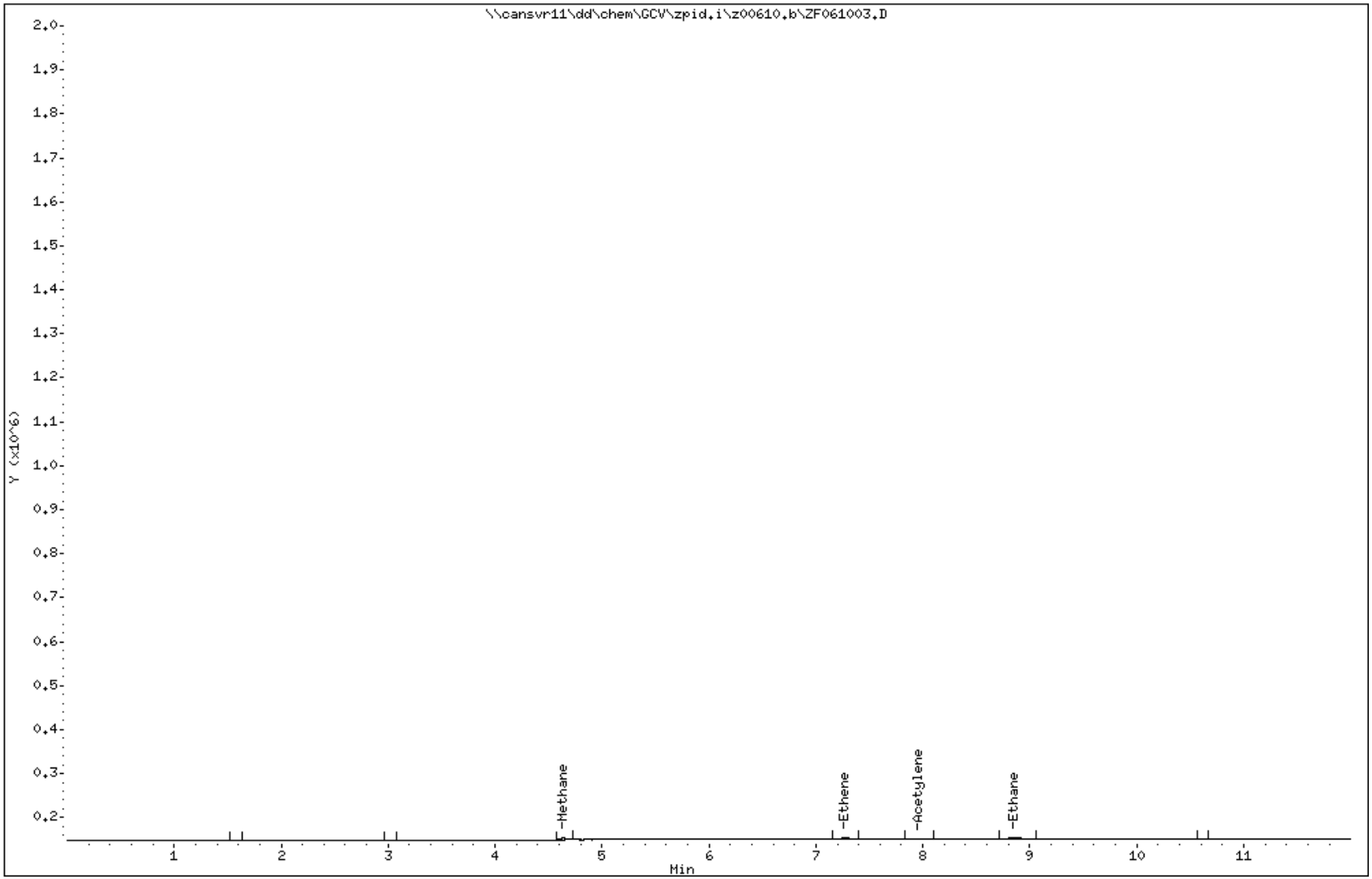
Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 00:09
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,2
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 00:09 Cal File: ZF061003.D
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.636	4.634	0.002	4909	0.91000	0.9176
2 Ethene	7.273	7.264	0.009	21313	1.59000	1.558
3 Ethane	8.856	8.849	0.007	24306	1.71000	1.785
4 Acetylene	7.963	7.964	-0.001	9003	1.48000	1.601

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D Page 1
Date : 11-JUN-2010 00:09
Client ID:
Instrument: zpid.i
Sample Info: 3770,,1,2
Volume Injected (uL): 1.0
Operator: 042476
Column phase: Rt-Alumina
Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 00:09
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061003.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.637	13755	0.918	0.918 ug/L
2) Ethene	7.274	21313	1.558	1.558 ug/L
4) Acetylene	7.964	9003	1.601	1.601 ug/L
3) Ethane	8.857	24306	1.785	1.785 ug/L

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Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 00:34
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,3
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 00:34 Cal File: ZF061004.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.640	4.636	0.004	21713	3.64000	3.838
2 Ethene	7.273	7.267	0.006	95074	6.38000	6.653
3 Ethane	8.860	8.853	0.007	112643	6.83000	7.482
4 Acetylene	7.970	7.966	0.004	34555	5.92000	6.030

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D

Page 1

Date : 11-JUN-2010 00:34

Client ID:

Instrument: zpid.i

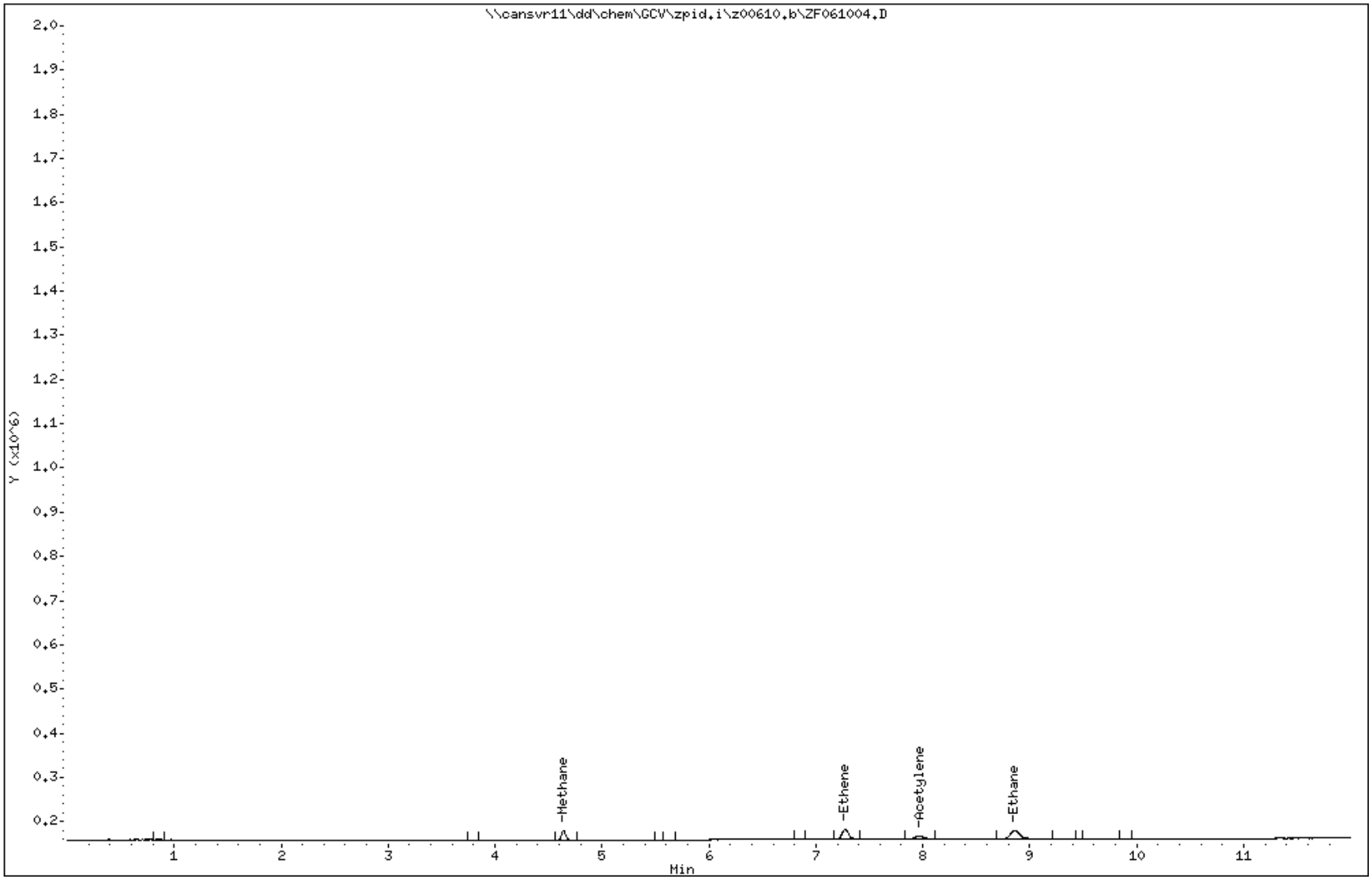
Sample Info: 3770,,1,3

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 00:34
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061004.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	60064	3.838	3.838 ug/L
2) Ethene	7.274	95074	6.653	6.653 ug/L
4) Acetylene	7.970	34555	6.030	6.030 ug/L
3) Ethane	8.860	112643	7.482	7.482 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 01:00
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,4
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:00 Cal File: ZF061005.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.640	4.637	0.003	65189	10.9300	11.32
2 Ethene	7.277	7.269	0.008	281006	19.1300	19.48
3 Ethane	8.860	8.854	0.006	335014	20.5000	21.64
4 Acetylene	7.973	7.968	0.005	103983	17.7600	18.02

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D

Page 1

Date : 11-JUN-2010 01:00

Client ID:

Instrument: zpid.i

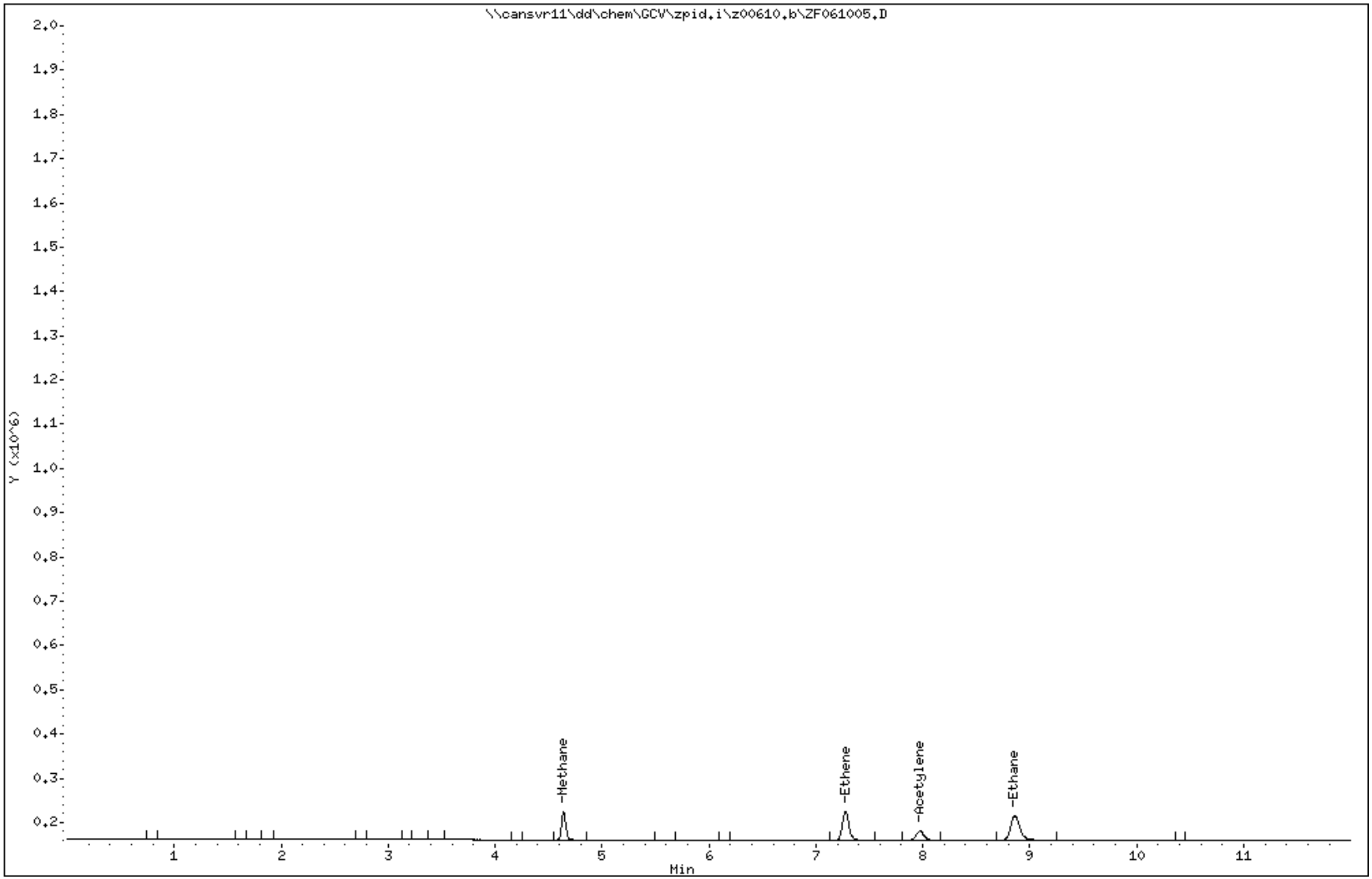
Sample Info: 3770,,1,4

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:00
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061005.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	182732	11.318	11.318 ug/L
2) Ethene	7.277	281006	19.482	19.482 ug/L
4) Acetylene	7.974	103983	18.016	18.016 ug/L
3) Ethane	8.860	335014	21.636	21.636 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 01:25
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,5
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:25 Cal File: ZF061006.D
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.642	4.638	0.004	206211	36.4400	35.96
2 Ethene	7.278	7.271	0.007	898363	63.7600	62.64
3 Ethane	8.858	8.855	0.003	1063672	68.3200	68.60
4 Acetylene	7.972	7.969	0.003	321989	59.2100	56.60

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D

Date : 11-JUN-2010 01:25

Client ID:

Instrument: zpid.i

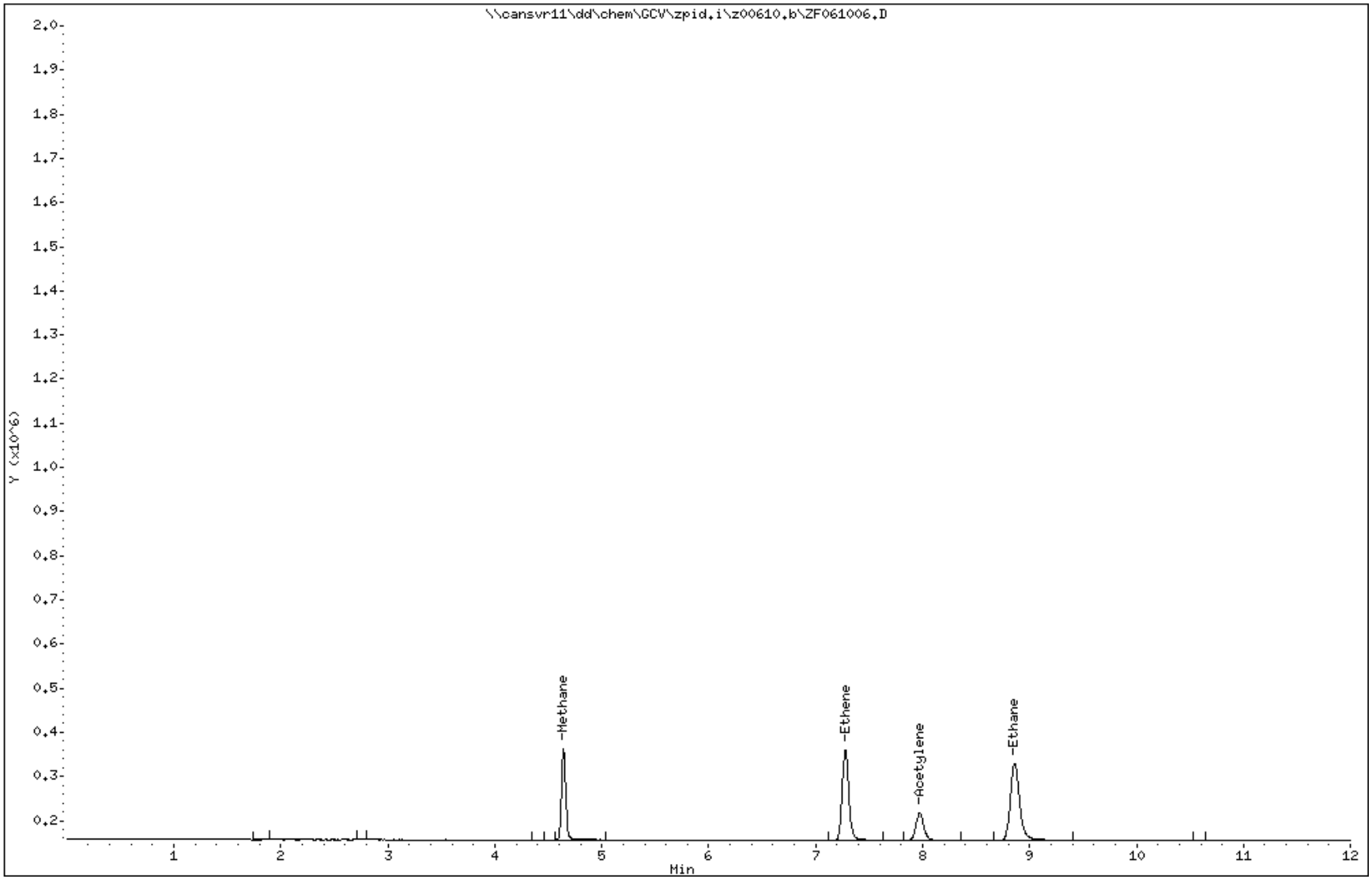
Sample Info: 3771,,1,5

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:25
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061006.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	584368	35.959	35.959 ug/L
2) Ethene	7.279	898363	62.646	62.646 ug/L
4) Acetylene	7.972	321989	56.604	56.604 ug/L
3) Ethane	8.859	1063672	68.600	68.600 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 01:50
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,6
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:50 Cal File: ZF061007.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.642	4.638	0.004	619629	109.310	108.3
2 Ethene	7.275	7.272	0.003	2680994	191.290	187.8
3 Ethane	8.858	8.856	0.002	3193571	204.950	205.8
4 Acetylene	7.972	7.969	0.003	1010122	177.620	177.6

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D

Date : 11-JUN-2010 01:50

Client ID:

Instrument: zpid.i

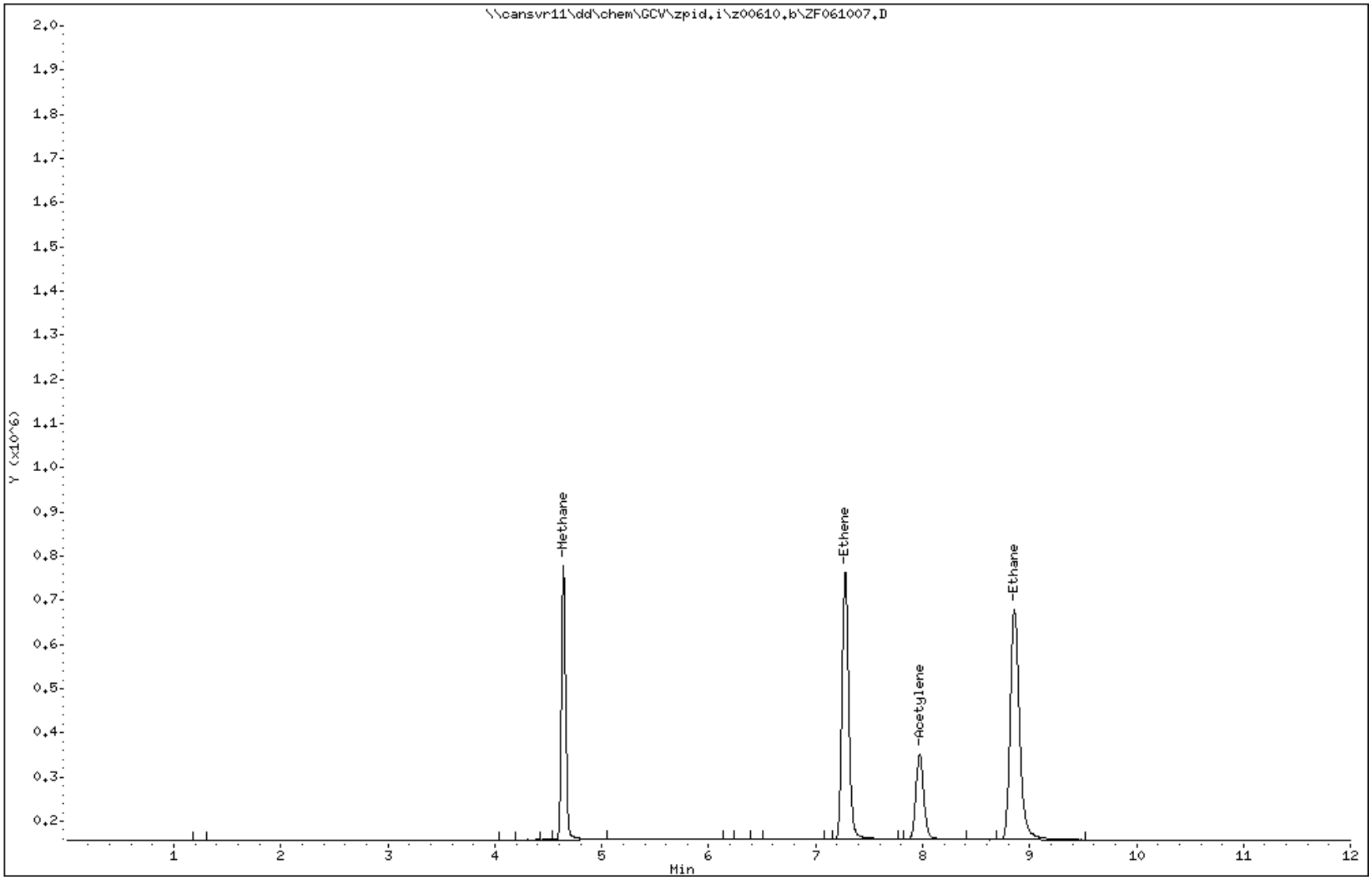
Sample Info: 3771,,1,6

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:50
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061007.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	1746876	108.301	108.301 ug/L
2) Ethene	7.275	2680994	187.806	187.806 ug/L
4) Acetylene	7.972	1010122	177.584	177.584 ug/L
3) Ethane	8.859	3193571	205.761	205.761 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 02:16
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,7
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 02:16 Cal File: ZF061008.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.642	4.639	0.003	1976470	327.920	342.4
2 Ethene	7.272	7.272	0.000	8367339	573.860	584.0
3 Ethane	8.848	8.855	-0.007	10129178	614.850	646.0
4 Acetylene	7.972	7.969	0.003	3146082	532.870	549.6

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D

Page 1

Date : 11-JUN-2010 02:16

Client ID:

Instrument: zpid.i

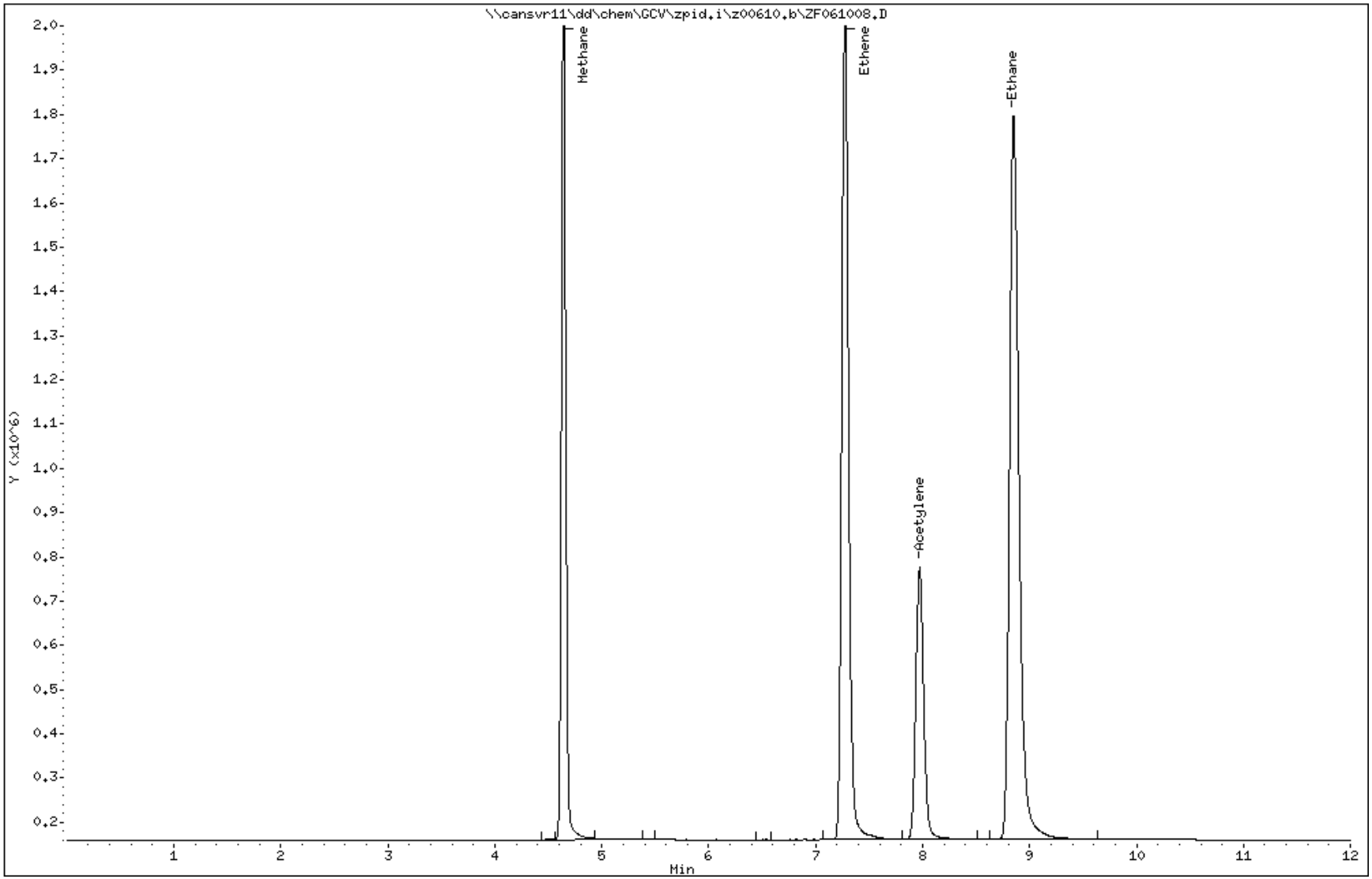
Sample Info: 3771,,1,7

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 02:16
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061008.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	5539138	342.403	342.403 ug/L
2) Ethene	7.272	8367339	584.056	584.056 ug/L
4) Acetylene	7.972	3146082	549.619	549.619 ug/L
3) Ethane	8.849	10129178	646.006	646.006 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 02:41
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,8
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 02:41 Cal File: ZF061009.D
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.640	4.639	0.001	4435737	728.710	762.5
2 Ethene	7.263	7.271	-0.008	18247462	1275.24	1274
3 Ethane	8.833	8.852	-0.019	22105977	1366.33	1403
4 Acetylene	7.967	7.969	-0.002	6954389	1184.16	1210

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D

Page 1

Date : 11-JUN-2010 02:41

Client ID:

Instrument: zpid.i

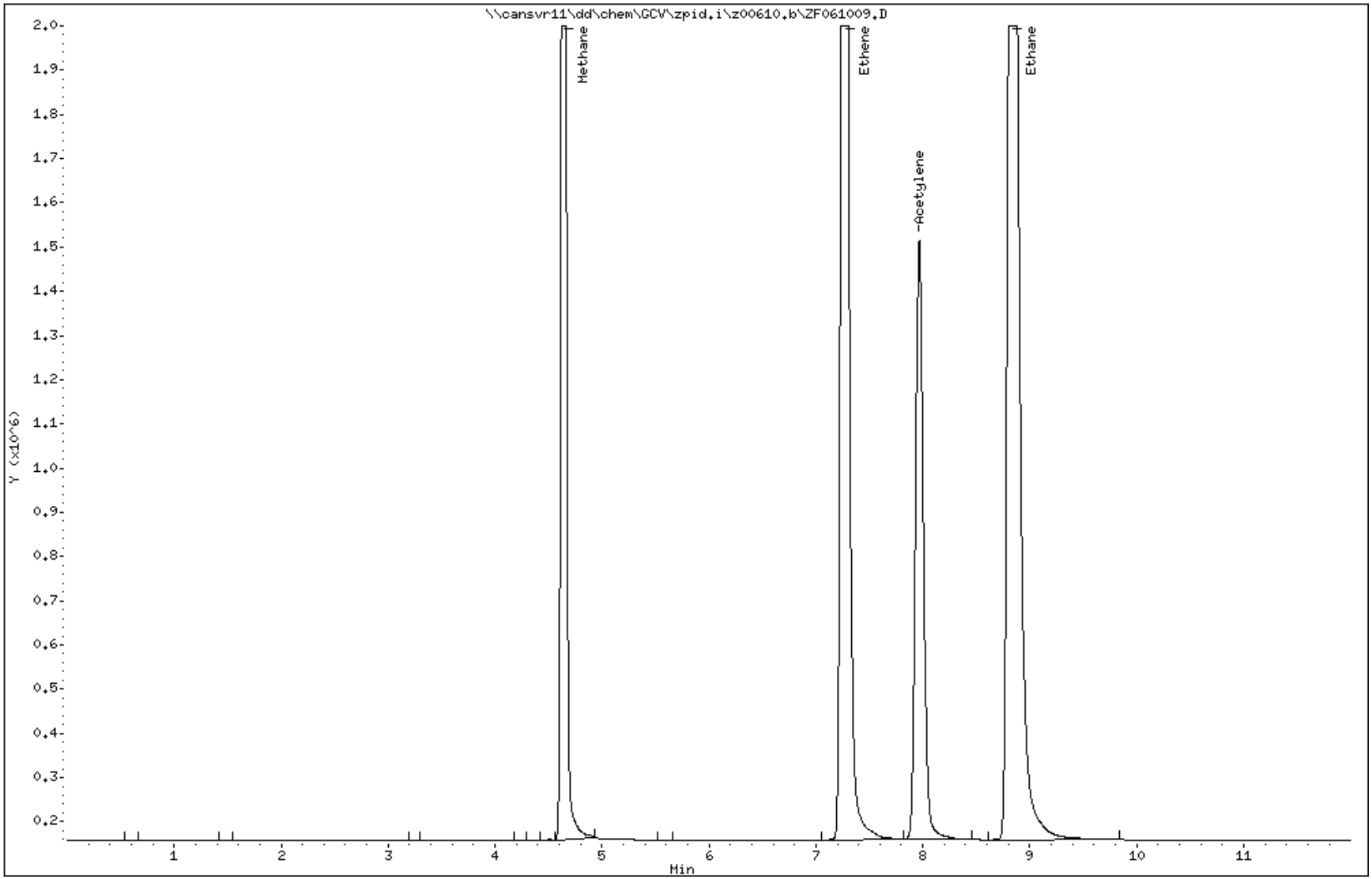
Sample Info: 3771,,1,8

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 02:41
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061009.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	12412329	762.506	762.506 ug/L
2) Ethene	7.264	18247462	1273.926	1273.926 ug/L
4) Acetylene	7.967	6954389	1210.436	1210.436 ug/L
3) Ethane	8.834	22105977	1403.462	1403.462 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 03:06
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,9
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.637	4.639	-0.002	9173393	1457.42	1561(A)
2 Ethene	7.250	7.268	-0.018	37270596	2550.49	2595(A)
3 Ethane	8.807	8.847	-0.040	46046474	2732.67	2898(A)
4 Acetylene	7.960	7.968	-0.008	13428539	2368.31	2341

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Page 1

Date : 11-JUN-2010 03:06

Client ID:

Instrument: zpid.i

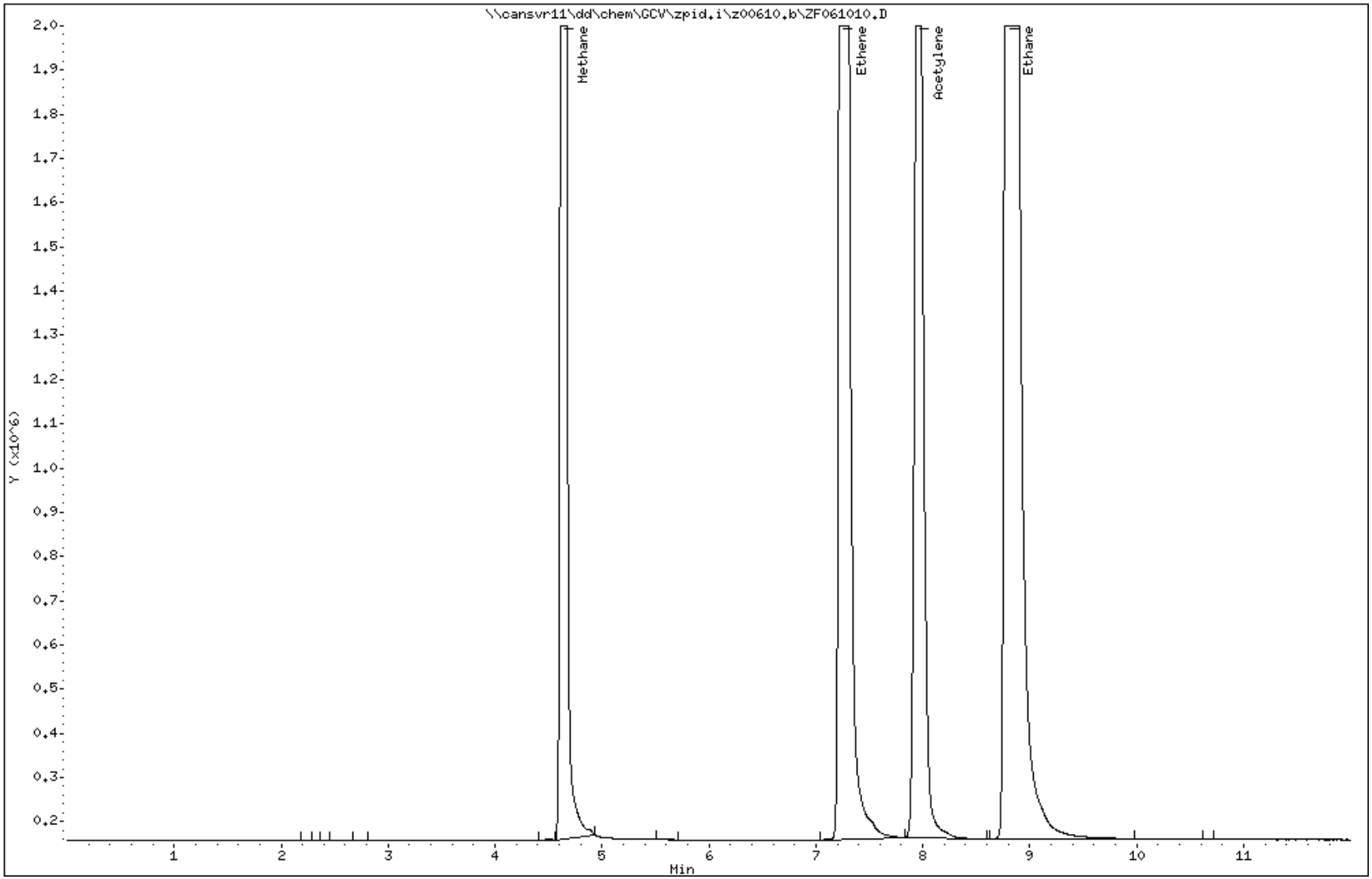
Sample Info: 3771,,1,9

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 03:06
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061010.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.637	25651389	1560.915	1560.915 ug/L
2) Ethene	7.251	37270596	2595.452	2595.452 ug/L
4) Acetylene	7.961	13428539	2341.118	2341.118 ug/L
3) Ethane	8.807	46046474	2898.111	2898.111 ug/L

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00363
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: ICV
Level: LOW Operator: 042476
Data Type: GC DATA SampleType: ICV
SpikeList File: icv.spk Quant Type: ESTD
Sublist File: rsk.sub
Method File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Misc Info: z00610

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Methane	109.3	101.6	93.00	77-142
3 Ethane	205.0	188.5	91.99	70-130
2 Ethene	191.3	174.2	91.06	70-130
4 Acetylene	177.6	150.2	84.59	70-130

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061011.D
Lab Smp Id: ICV
Inj Date : 11-JUN-2010 03:32
Operator : 042476 Inst ID: zpid.i
Smp Info : ICV
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:52 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: ICV
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	4.642	4.639	0.003	591972	101.655	101.6
2 Ethene	7.272	7.269	0.003	2482778	174.184	174.2
3 Ethane	8.852	8.847	0.005	2960408	188.532	188.5
4 Acetylene	7.968	7.969	-0.001	867618	150.249	150.2

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061011.D

Page 1

Date : 11-JUN-2010 03:32

Client ID:

Instrument: zpid.i

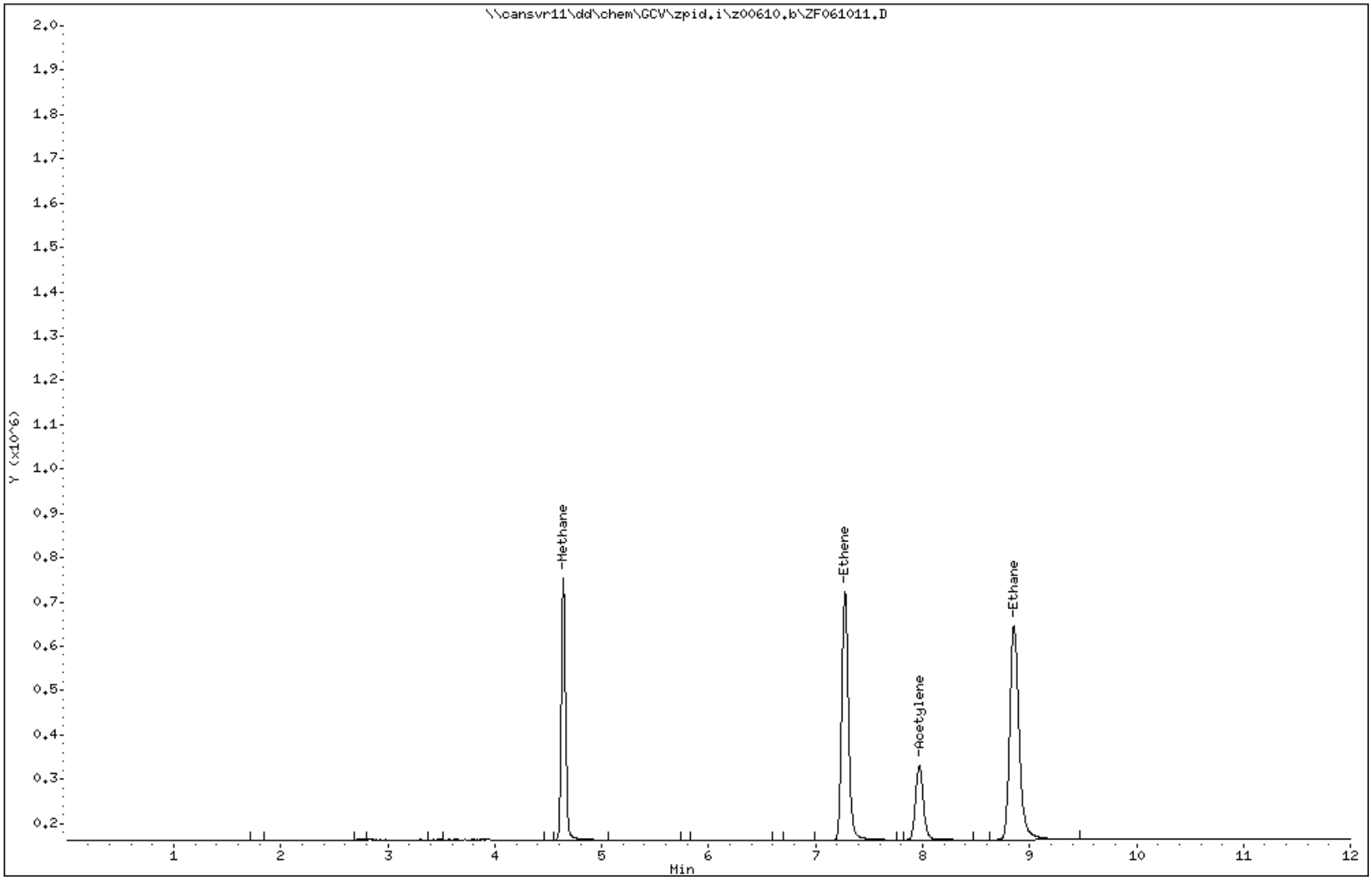
Sample Info: ICV

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 03:32
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061011.D
Lab Sample ID: ICV
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	1672890	101.655	101.655 ug/L
2) Ethene	7.272	2482778	174.184	174.184 ug/L
4) Acetylene	7.969	867618	150.249	150.249 ug/L
3) Ethane	8.852	2960408	188.532	188.532 ug/L

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G210469

GC Column: RT-ALUMINA ID: 0.53 (mm) Init. Calib. Date(s): 06/10/10 06/11/10

Instrument ID: ZPID

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		1771	07/28/10	1256		
02	L4TXLCHK	L4TXL1AC	07/28/10	1321		
03	L4TXLCKDUP	L4TXL1AD	07/28/10	1346		
04	L4TXLBLK	L4TXL1AA	07/28/10	1412		
05	OW-22	L4GJG1AH	07/28/10	1755		
06	OW-10R	L4GJV1AH	07/28/10	1820		
07	OW-21	L4GJT1AH	07/28/10	1846		
08	MW4	L4GJ01AH	07/28/10	1911		
09	OW8	L4GJ11AH	07/28/10	1936		
10						
11						
12						
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15						
16						
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18						
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27						
28						
29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 30-Jul-2010 08:07

Calibration History

Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Start Cal Date: 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Last Cal Level: 9
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.24000		
10-JUN-2010 23:44	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Cal Level: 2 , Cal Amount: 0.91000		
11-JUN-2010 00:09	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Cal Level: 3 , Cal Amount: 3.64000		
11-JUN-2010 00:34	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Cal Level: 4 , Cal Amount: 10.93000		
11-JUN-2010 01:00	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Cal Level: 5 , Cal Amount: 36.44000		
11-JUN-2010 01:25	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Cal Level: 6 , Cal Amount: 109.31000		
11-JUN-2010 01:50	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Cal Level: 7 , Cal Amount: 372.92000		
11-JUN-2010 02:16	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Cal Level: 8 , Cal Amount: 728.71000		

11-JUN-2010 02:41	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D

Cal Level: 9 , Cal Amount: 1457.42000		
11-JUN-2010 03:06	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

29-JUL-2010 12:29	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072827.D
28-JUL-2010 12:56	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072802.D

Report Date: 28-Jul-2010 13:19

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: zpid.i Injection Date: 28-JUL-2010 12:56
Lab File ID: ZF072802.D Init. Cal. Date(s): 10-JUN-2010 11-JUN-2010
Analysis Type: WATER Init. Cal. Times: 23:44 03:06
Lab Sample ID: 1771 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m

COMPOUND	RRF / AMOUNT	RF109	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	5823	6039	0.010	-3.69975	30.00000	Averaged
2 Ethene	14254	15224	0.010	-6.80379	30.00000	Averaged
3 Ethane	15702	16497	0.010	-5.06062	30.00000	Averaged
4 Acetylene	5775	5968	0.010	-3.34512	30.00000	Averaged

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072802.D
Lab Smp Id: 1771
Inj Date : 28-JUL-2010 12:56
Operator : 042476 Inst ID: zpid.i
Smp Info : 1771,2
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 28-Jul-2010 13:19 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.602	4.634	-0.032	660099	109.310	113.4
2 Ethene	7.212	7.203	0.009	2912120	191.290	204.3
3 Ethane	8.779	8.767	0.012	3381068	204.950	215.3
4 Acetylene	7.902	7.884	0.018	1059981	177.620	183.6

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072802.D

Date : 28-JUL-2010 12:56

Client ID:

Instrument: zpid.i

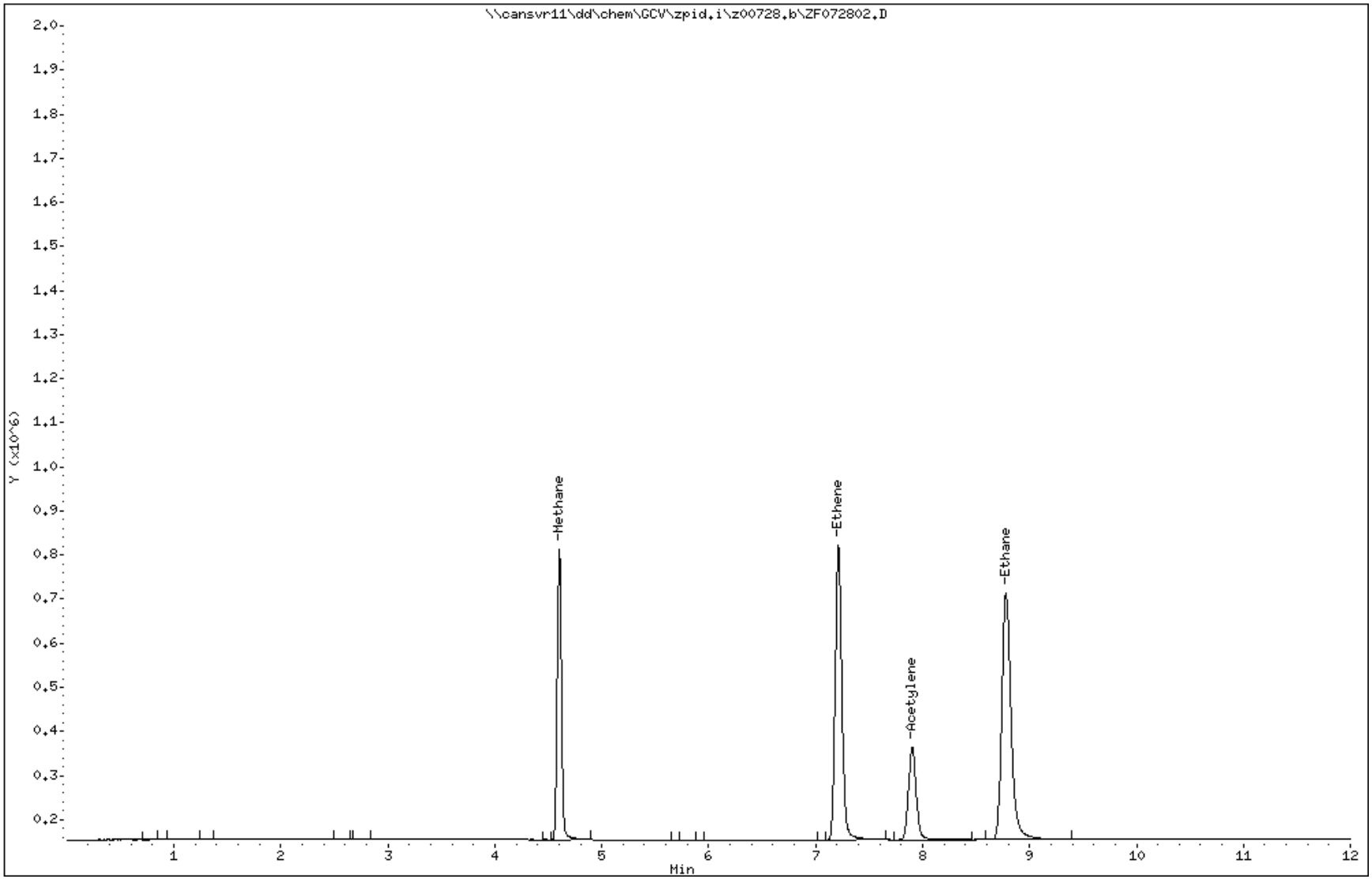
Sample Info: 1771,2

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 28-JUL-2010 12:56
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072802.D
Lab Sample ID: 1771
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Methane	4.603	1835857	113.354	226.708 ug/L
2) Ethene	7.213	2912120	204.305	408.610 ug/L
4) Acetylene	7.903	1059981	183.562	367.123 ug/L
3) Ethane	8.779	3381068	215.322	430.643 ug/L

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L4TXL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0G290000-163 L4TXL1AD-LCSD
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methane	**99**	**(75 - 127)**			**RSK SOP-175**
	100	**(75 - 127)**	**1.4**	**(0-30)**	**RSK SOP-175**
Ethane	**97**	**(74 - 138)**			**RSK SOP-175**
	101	**(74 - 138)**	**3.2**	**(0-30)**	**RSK SOP-175**
Ethene	**101**	**(73 - 140)**			**RSK SOP-175**
	103	**(73 - 140)**	**1.8**	**(0-30)**	**RSK SOP-175**
Acetylene	**88**	**(70 - 130)**			**RSK SOP-175**
	89	**(70 - 130)**	**1.8**	**(0-30)**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L4TXL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0G290000-163 L4TXL1AD-LCSD
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Methane	**110**	**110**	**ug/L**	**99**		**RSK SOP-175**
	110	**110**	**ug/L**	**100**	**1.4**	**RSK SOP-175**
Ethane	**200**	**200**	**ug/L**	**97**		**RSK SOP-175**
	200	**210**	**ug/L**	**101**	**3.2**	**RSK SOP-175**
Ethene	**190**	**190**	**ug/L**	**101**		**RSK SOP-175**
	190	**200**	**ug/L**	**103**	**1.8**	**RSK SOP-175**
Acetylene	**180**	**160**	**ug/L**	**88**		**RSK SOP-175**
	180	**160**	**ug/L**	**89**	**1.8**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072803.D
Lab Smp Id: l4txl1ac
Inj Date : 28-JUL-2010 13:21
Operator : 01616 Inst ID: zpid.i
Smp Info : l4txl1ac
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.610	4.635	-0.025	627848	107.816	107.8
2 Ethene	7.220	7.203	0.017	2758837	193.551	193.6
3 Ethane	8.790	8.767	0.023	3136140	199.724	199.7
4 Acetylene	7.910	7.885	0.025	900441	155.933	155.9

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072803.D

Date : 28-JUL-2010 13:21

Client ID:

Instrument: zpid.i

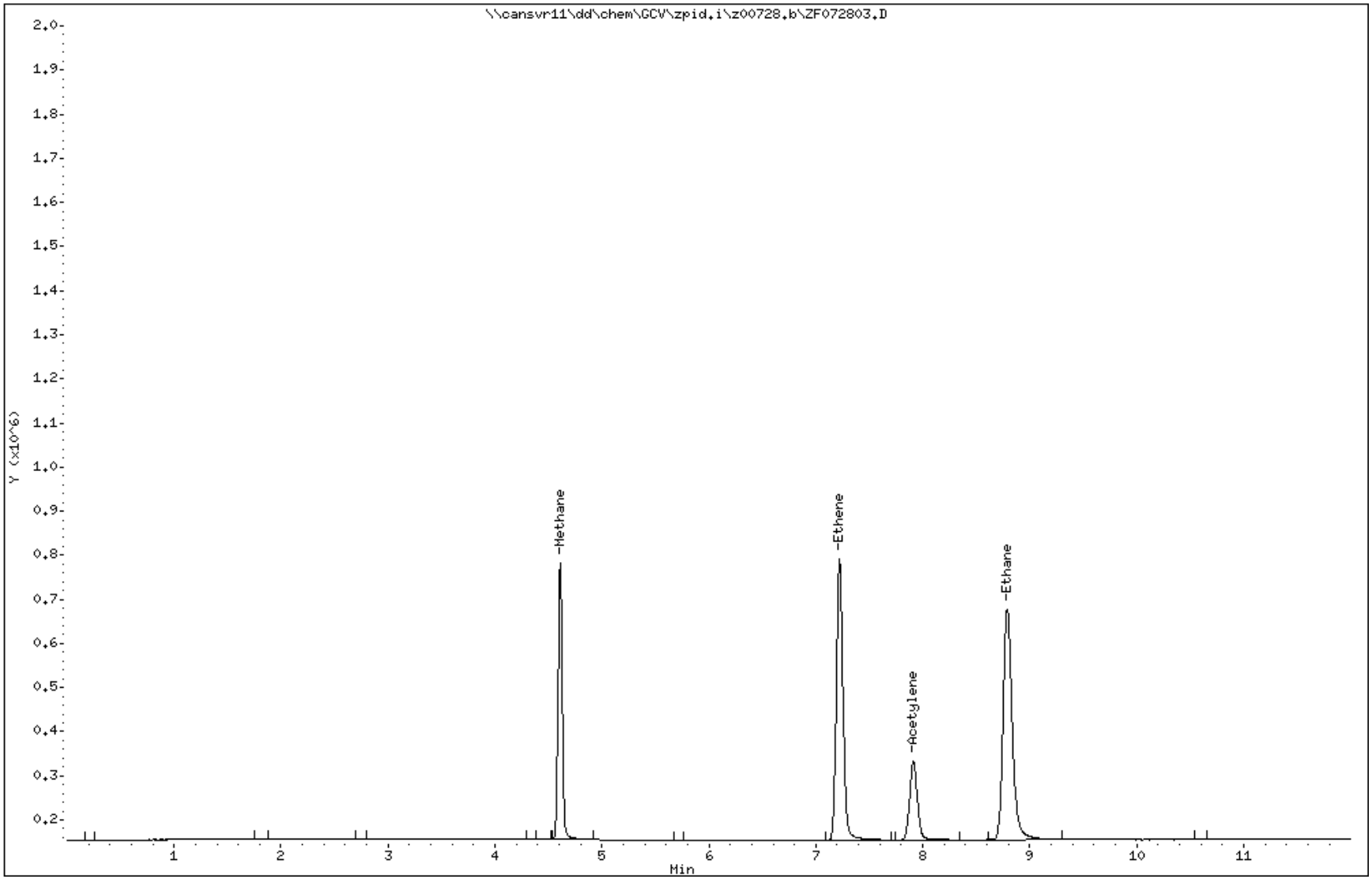
Sample Info: l4tx11ac

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 28-JUL-2010 13:21
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072803.D
Lab Sample ID: l4txl1ac
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.611	1737749	107.816	107.816 ug/L
2) Ethene	7.221	2758837	193.551	193.551 ug/L
4) Acetylene	7.911	900441	155.933	155.933 ug/L
3) Ethane	8.791	3136140	199.724	199.724 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072804.D
Lab Smp Id: l4txl1ad
Inj Date : 28-JUL-2010 13:46
Operator : 01616 Inst ID: zpid.i
Smp Info : l4txl1ad
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.612	4.635	-0.023	636352	109.276	109.3
2 Ethene	7.226	7.203	0.023	2811523	197.247	197.2
3 Ethane	8.796	8.767	0.029	3236034	206.085	206.1
4 Acetylene	7.916	7.885	0.031	917099	158.818	158.8

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072804.D

Date : 28-JUL-2010 13:46

Client ID:

Instrument: zpid.i

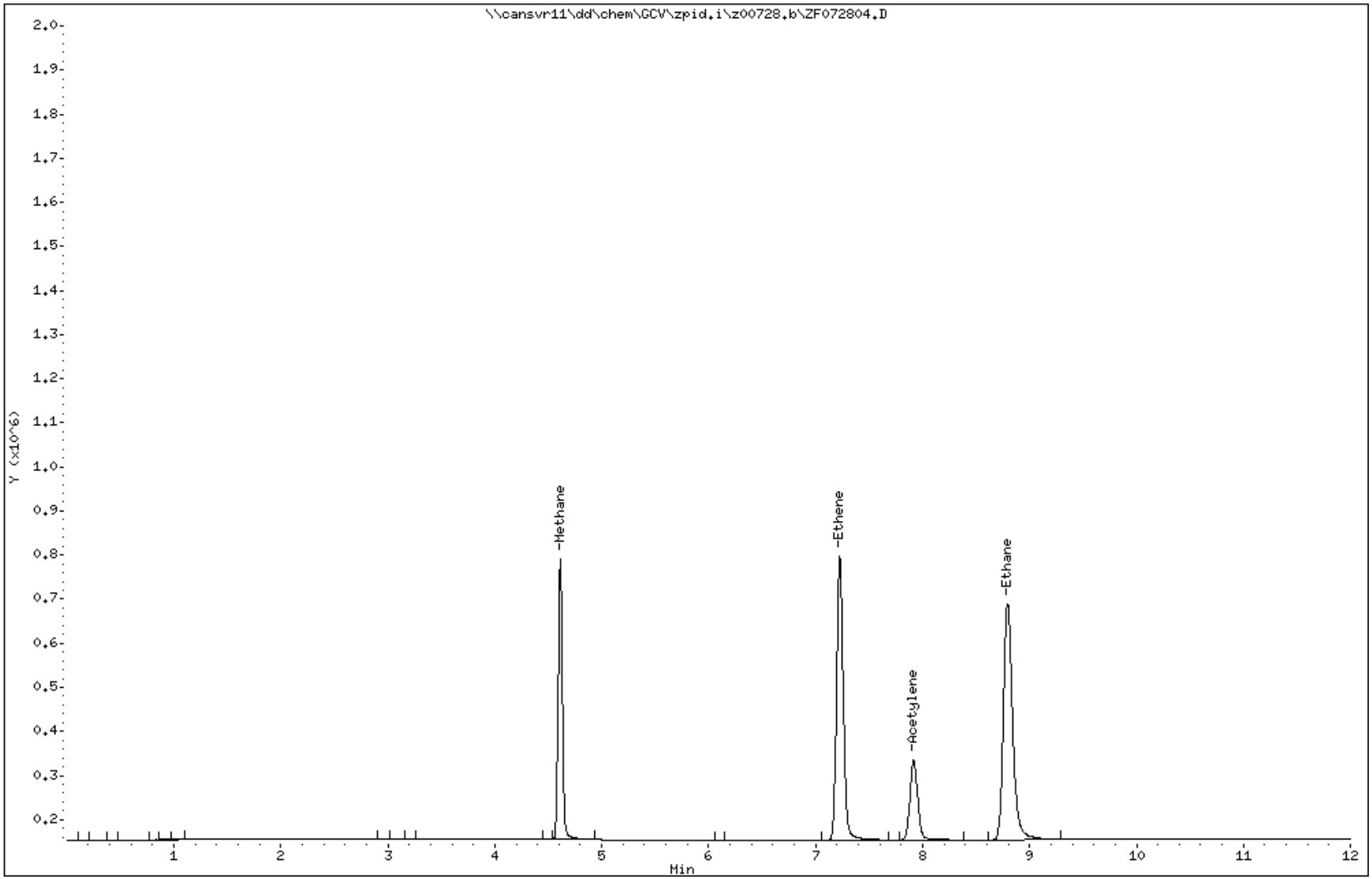
Sample Info: l4tx11ad

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 28-JUL-2010 13:46
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072804.D
Lab Sample ID: l4txl1ad
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.613	1773416	109.276	109.276 ug/L
2) Ethene	7.226	2811523	197.247	197.247 ug/L
4) Acetylene	7.916	917099	158.818	158.818 ug/L
3) Ethane	8.796	3236034	206.085	206.085 ug/L

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L4TXL1AA **Matrix.....:** WATER
MB Lot-Sample #: A0G290000-163
Prep Date.....: 07/28/10 **Final Wgt/Vol..:** 1 mL
Analysis Date..: 07/28/10 **Prep Batch #...:** 0210163
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	0.50	ug/L	RSK SOP-175
Ethane	ND	0.50	ug/L	RSK SOP-175
Ethene	ND	0.50	ug/L	RSK SOP-175

NOTE(S):

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

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072805.D
Lab Smp Id: l4txl1aa
Inj Date : 28-JUL-2010 14:12
Operator : 042476 Inst ID: zpid.i
Smp Info : l4txl1aa
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\ypid.i\Y00729.b\Y8021B.m
Meth Date : 30-Jul-2010 07:38 ypid.i Quant Type: ISTD
Cal Date : 21-JUN-2010 17:11 Cal File: YP062108.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCV06

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Purge Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
S	1 TOTAL XYLENES	Compound Not Detected.					
	2 MTBE	Compound Not Detected.					
	3 BENZENE	Compound Not Detected.					
*	4 INTERNAL STANDARD	Compound Not Detected.					
$	5 surrogate (TFT)	Compound Not Detected.					
	6 TOLUENE	Compound Not Detected.					
	7 ETHYL BENZENE	Compound Not Detected.					
	8 M+P-XYLENES	Compound Not Detected.					
	9 O-XYLENE	Compound Not Detected.					
	10 1,3,5 trimethylbenzene	Compound Not Detected.					
	11 1,2,4 trimethylbenzene	Compound Not Detected.					
	12 naphthalene	Compound Not Detected.					

Report Date: 30-Jul-2010 08:09

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: zpid.i
Lab File ID: ZF072805.D
Lab Smp Id: l4txl1aa
Analysis Type: VOA
Quant Type: ISTD
Operator: 042476
Method File: \\cansvr11\dd\chem\GCV\ypid.i\Y00729.b\Y8021B.m
Misc Info: z00728

Calibration Date: 29-JUL-2010
Calibration Time: 18:42
Level: LOW
Sample Type: WATER

		AREA LIMIT				
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF	
4 INTERNAL STANDARD	175117	87559	350234	0	-100.00	<-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 INTERNAL STANDARD	8.12	7.62	8.62	0.00	-100.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072805.D

Page 1

Date : 28-JUL-2010 14:12

Client ID:

Instrument: zpid.i

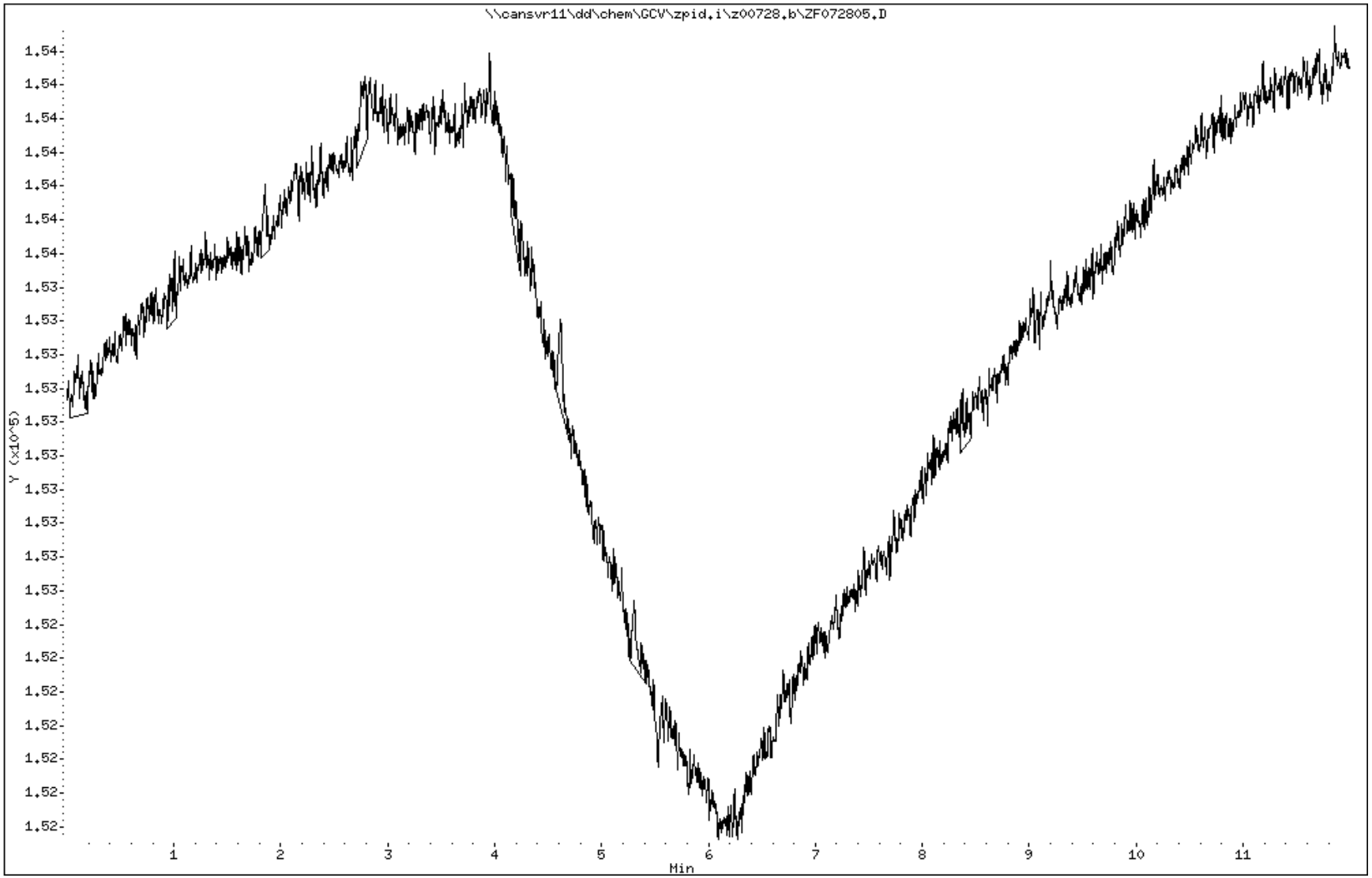
Sample Info: l4txl1aa

Purge Volume: 1.0

Operator: 042476

Column phase: RTx-502.2

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 28-JUL-2010 14:12
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072805.D
Lab Sample ID: BLANK
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	NOT DETECTED	Expected RT =	4.635	
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.767	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

Sequence: C:\HPCHEM\4\SEQUENCE\Z00610IC.S

Sequence Parameters:

Operator:

Data File Naming:	Prefix/Counter
Signal 1 Prefix:	ZF
Counter:	061001
Signal 2 Prefix:	ZR
Counter:	061001
Data Directory:	C:\HPCHEM\4\DATA\
Data Subdirectory:	Z00610IC
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:

CAL STD#: 3770 / 3771 LCS/MS STD#: 3772 ICV#_____

Level 1 Analyst: _____ Date: 6/22/10

Level 2 Analyst: _____ Date: 6/22/10

PDF completed by: _____ Date: _____

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	PRIMER	RSK175	1	Sample		
2	1	3770,,1,1	RSK175	1	Sample		
3	1	3770,,1,2	RSK175	1	Sample		
4	1	3770,,1,3	RSK175	1	Sample		
5	1	3770,,1,4	RSK175	1	Sample		
6	1	3771,,1,5	RSK175	1	Sample		
7	1	3771,,1,6	RSK175	1	Sample		
8	1	3771,,1,7	RSK175	1	Sample		
9	1	3771,,1,8	RSK175	1	Sample		
10	1	3771,,1,9	RSK175	1	Sample		
11	1	ICV	RSK175	1	Sample		
12	1	LCS	RSK175	1	Sample		
13	1	LCSD	RSK175	1	Sample		
14	1	BLANK	RSK175	1	Sample		
15	1		RSK175	1	Sample		
16	1		RSK175	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00610IC.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
17	1		RSK175	1	Sample		
18	1		RSK175	1	Sample		

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	2	PRIMER	CO2RSK	1	Sample		
2	2	3770,,1,1	CO2RSK	1	Sample		
3	2	3770,,1,2	CO2RSK	1	Sample		
4	2	3770,,1,3	CO2RSK	1	Sample		
5	2	3770,,1,4	CO2RSK	1	Sample		
6	2	3771,,1,5	CO2RSK	1	Sample		
7	2	3771,,1,6	CO2RSK	1	Sample		
8	2	3771,,1,7	CO2RSK	1	Sample		
9	2	3771,,1,8	CO2RSK	1	Sample		
10	2	3771,,1,9	CO2RSK	1	Sample		
11	2	ICV	CO2RSK	1	Sample		
12	2	LCS	CO2RSK	1	Sample		
13	2	LCSD	CO2RSK	1	Sample		
14	2	BLANK	CO2RSK	1	Sample		
15	2		CO2RSK	1	Sample		
16	2		CO2RSK	1	Sample		
17	2		CO2RSK	1	Sample		
18	2		CO2RSK	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00728.S

Sequence Parameters:

Operator:	042476
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	ZF
Counter:	072801
Signal 2 Prefix:	ZR
Counter:	072801
Data Directory:	C:\HPCHEM\4\DATA\
Data Subdirectory:	Z00728
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

due 8-3-10

Sequence Comment:

CAL STD#: 3770 / 3771 LCS/MS STD#: 3772 ICV#_____

Level 1 Analyst: Barbara Tarwright Date: 7-29-10 7/30/10

Level 2 Analyst: Chong Li Date: 7/30/10

PDF completed by: BAF Date: 7-30-10

0210163 L4TXL

0211043 L4WE3

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	BAF 7/28/10 primer	RSK175	1	Sample		
2	1	3771,2 ✓	RSK175	1	Sample		
3	1	LCS ✓	RSK175	1	Sample		
4	1	LCSD ✓	RSK175	1	Sample		
5	1	BLANK ✓	RSK175	1	Sample		
6	1	L4DDL1AE ✓	RSK175	1	Sample		
7	1	L4DDN1AE ✓	RSK175	1	Sample		
8	1	L4ELT1AV ✓	RSK175	1	Sample		
9	1	L4EL11AV ✓	RSK175	1	Sample		
10	1	L4EL21AV ✓	RSK175	1	Sample		
11	1	L4EL31AV ✓	RSK175	1	Sample		
12	1	L4EL41AV ✓	RSK175	1	Sample		
13	1	L4GJG1AH,5 ✓	RSK175	1	Sample		
14	1	L4GJV1AH,5 ✓	RSK175	1	Sample		
15	1	L4GJT1AH ✓	RSK175	1	Sample		
16	1	L4GJ01AH ✓	RSK175	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00728.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
17	1	L4GJ11AH ✓	RSK175	1	Sample		
18	1	L4GHT1CW	RSK175	1	Sample		
19	1	L4GHX1CW	RSK175	1	Sample		
20	1	L4GH41C6 ✓	RSK175	1	Sample		
21	1	L4GEK1AF,5 ✓	RSK175	1	Sample		
22	1	L4GEP1AF	RSK175	1	Sample		
23	1	L4JE11AF,5	RSK175	1	Sample		
24	1	L4JE41AF ✓	RSK175	1	Sample		
25	1	L4JQH1CW ✓	RSK175	1	Sample		
26	1	RINSE	RSK175	1	Sample		
27	1	3771,2 ✓	RSK175	1	Sample		
28	1	LCS ✓ ✓	RSK175	1	Sample		
29	1	BLANK	RSK175	1	Sample		
30	1	~~L4GHT1CW,2~~	RSK175	1	Sample		
31	1	L4GHX1CW,2 ✓	RSK175	1	Sample		
32	1	L4JE11AF,2 ✓	RSK175	1	Sample		
33	1	L4GEP1AF,5 ✓	RSK175	1	Sample		
34	1	L4JDK1AH ✓	RSK175	1	Sample		
35	1	L4JD01AH ✓	RSK175	1	Sample		
36	1	L4JD31AW ✓	RSK175	1	Sample		
37	1	L4JD31AX ✓	RSK175	1	Sample		
38	1	L4JD31A0 ✓	RSK175	1	Sample		
39	1	L4JEC1AH ✓	RSK175	1	Sample		
40	1	L4JED1AH ✓	RSK175	1	Sample		
41	1	L4JEG1AH ✓	RSK175	1	Sample		
42	1	L4K1A1AH ✓	RSK175	1	Sample		
43	1	L4K1R1AH,2 ✓	RSK175	1	Sample		
44	1	L4K2T1AH	RSK175	1	Sample		
45	1	L4K291AH ✓	RSK175	1	Sample		
46	1	L4QQD1AC ✓	RSK175	1	Sample		
47	1	L4QQ31AN ✓	RSK175	1	Sample		
48	1	L4QQ41AN ✓	RSK175	1	Sample		
49	1	L4QQ51AN ✓ ✓	RSK175	1	Sample		
50	1	L4QQ71AN	RSK175	1	Sample		
51	1	~~RINSE~~ L4GHT1CW,2	RSK175	1	Sample		
52	1	Rinse ✓	RSK175	1	Sample		
53	1	L4K2T1AH,2 ✓	RSK175	1	Sample		
54	1	RINSE	RSK175	1	Sample		
55	1		RSK175	1	Sample		
56	1		RSK175	1	Sample		
57	1		RSK175	1	Sample		

— midnight

power off – restart

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	none		CO2RSK	1	Sample		
2	2		CO2RSK	1	Sample		
3	2		CO2RSK	1	Sample		
4	2		CO2RSK	1	Sample		
5	2		CO2RSK	1	Sample		
6	2		CO2RSK	1	Sample		

Lot: A0G210469

A0G210469

Sample	Work Order	SAC	Client Sample ID	pH	Free Chlorine
1	L4GJG-1AH	XX I 2X MM 01	OW-22	<2	NA
2	L4GJT-1AH	XX I 2X MM 01	OW-21	<2	NA
3	L4GJV-1AH	XX I 2X MM 01	OW-10R	<2	NA
4	L4GJ0-1AH	XX I 2X MM 01	MW4	<2	NA
5	L4GJ1-1AH	XX I 2X MM 01	OW8	<2	NA

Lot/SDG Number: A0G210469

Sample Control Chain of Custody - TAL North Canton
GC Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0G210469	1	L4GJG1AH	Dissolved Gases in Water - preserved	07/28/10	Barbara Fausnight
A0G210469	2	L4GJT1AH	Dissolved Gases in Water - preserved	07/28/10	Barbara Fausnight
A0G210469	3	L4GJV1AH	Dissolved Gases in Water - preserved	07/28/10	Barbara Fausnight
A0G210469	4	L4GJ01AH	Dissolved Gases in Water - preserved	07/28/10	Barbara Fausnight
A0G210469	5	L4GJ11AH	Dissolved Gases in Water - preserved	07/28/10	Barbara Fausnight

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GENERAL CHEMISTRY DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Cardinal Resources

Client Sample ID: OW-22

General Chemistry

Lot-Sample #...: A0G210469-001 **Work Order #...:** L4GJG **Matrix.....:** WG
Date Sampled...: 07/20/10 09:45 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**7.4**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203152**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**11.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**220**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	**4**	**1**	**mg/L**	**MCAWW 415.1**	**07/22/10**	**0203226**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW-21

General Chemistry

Lot-Sample #...: A0G210469-002 **Work Order #...:** L4GJT **Matrix.....:** WG
Date Sampled...: 07/20/10 11:05 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**23.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**260**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**	**07/22/10**	**0203226**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW-10R

General Chemistry

Lot-Sample #...: A0G210469-003 **Work Order #...:** L4GJV **Matrix.....:** WG
Date Sampled...: 07/20/10 12:20 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**36.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**250**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**	**07/22/10**	**0203226**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: MW4

General Chemistry

Lot-Sample #...: A0G210469-004 **Work Order #...:** L4GJ0 **Matrix.....:** WG
Date Sampled...: 07/20/10 13:45 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**67.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203152**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**67.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**110**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	**2**	**1**	**mg/L**	**MCAWW 415.1**	**07/22/10**	**0203226**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW8

General Chemistry

Lot-Sample #...: A0G210469-005 **Work Order #...:** L4GJ1 **Matrix.....:** WG
Date Sampled...: 07/20/10 15:00 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**2.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203152**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**12.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**53**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: L4JCL1AA		MB Lot-Sample #:	A0G220000-152	
	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1				
Nitrate as N		Work Order #: L4JCN1AA		MB Lot-Sample #:	A0G220000-158	
	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate		Work Order #: L4JCP1AA		MB Lot-Sample #:	A0G220000-160	
	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203160
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4NXV1AA		MB Lot-Sample #:	A0G260000-282	
	ND	5.0	mg/L	MCAWW 310.1	07/23/10	0207282
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: L4KR01AA		MB Lot-Sample #:	A0G220000-226	
	ND	1	mg/L	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1				
Total Sulfide		Work Order #: L4QHL1AA		MB Lot-Sample #:	A0G270000-314	
	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A0G210469 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4JCL1AC-LCS/L4JCL1AD-LCSD LCS Lot-Sample#: A0G220000-152					
	104	(90 - 110)			MCAWW 300.0A	07/21/10	0203152
	104	(90 - 110)	0.76	(0-20)	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1					
Nitrate as N		WO#:L4JCN1AC-LCS/L4JCN1AD-LCSD LCS Lot-Sample#: A0G220000-158					
	99	(90 - 110)			MCAWW 300.0A	07/21/10	0203158
	99	(90 - 110)	0.64	(0-20)	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1					
Sulfate		WO#:L4JCP1AC-LCS/L4JCP1AD-LCSD LCS Lot-Sample#: A0G220000-160					
	99	(90 - 110)			MCAWW 300.0A	07/21/10	0203160
	98	(90 - 110)	0.73	(0-20)	MCAWW 300.0A	07/21/10	0203160
		Dilution Factor: 1					
Total Sulfide		WO#:L4QHL1AC-LCS/L4QHL1AD-LCSD LCS Lot-Sample#: A0G270000-314					
	101	(79 - 104)			MCAWW 376.1	07/27/10	0208314
	101	(79 - 104)	0.0	(0-20)	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: A0G210469 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4JCL1AC-LCS/L4JCL1AD-LCSD		LCS Lot-Sample#: A0G220000-152				
	50.0	52.2	mg/L	104		MCAWW 300.0A	07/21/10	0203152
	50.0	51.8	mg/L	104	0.76	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1						
Nitrate as N		WO#:L4JCN1AC-LCS/L4JCN1AD-LCSD		LCS Lot-Sample#: A0G220000-158				
	2.5	2.5	mg/L	99		MCAWW 300.0A	07/21/10	0203158
	2.5	2.5	mg/L	99	0.64	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1						
Sulfate		WO#:L4JCP1AC-LCS/L4JCP1AD-LCSD		LCS Lot-Sample#: A0G220000-160				
	50.0	49.4	mg/L	99		MCAWW 300.0A	07/21/10	0203160
	50.0	49.1	mg/L	98	0.73	MCAWW 300.0A	07/21/10	0203160
		Dilution Factor: 1						
Total Sulfide		WO#:L4QHL1AC-LCS/L4QHL1AD-LCSD		LCS Lot-Sample#: A0G270000-314				
	17	17	mg/L	101		MCAWW 376.1	07/27/10	0208314
	17	17	mg/L	101	0.0	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1						

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4NXV1AC	LCS Lot-Sample#: A0G260000-282		
	108	(90 - 127)	MCAWW 310.1	07/23/10	0207282
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: L4KR01AC	LCS Lot-Sample#: A0G220000-226		
	97	(88 - 115)	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4NXV1AC		LCS Lot-Sample#: A0G260000-282			
	110	120	mg/L	108	MCAWW 310.1	07/23/10	0207282
		Dilution Factor: 1					
Total Organic Carbon		Work Order #: L4KR01AC		LCS Lot-Sample#: A0G220000-226			
	69	67	mg/L	97	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WG
Date Sampled...: 07/20/10 09:45 **Date Received..:** 07/21/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon	WO#: L4GJG1AL-MS/L4GJG1AM-MSD					MS Lot-Sample #: A0G210469-001	
	109	(72 - 136)			MCAWW 415.1	07/22/10	0203226
	113	(72 - 136)	2.8	(0-20)	MCAWW 415.1	07/22/10	0203226
	Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WG
Date Sampled...: 07/20/10 09:45 **Date Received..:** 07/21/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon	WO#: L4GJG1AL-MS/L4GJG1AM-MSD						MS Lot-Sample #: A0G210469-001		
	4	25	31	mg/L	109		MCAWW 415.1	07/22/10	0203226
	4	25	32	mg/L	113	2.8	MCAWW 415.1	07/22/10	0203226
			Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER
Date Sampled...: 07/20/10 13:17 **Date Received..:** 07/21/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity	WO#: L4F5E1A9-MS/L4F5E1CA-MSD					MS Lot-Sample #: A0G210426-005	
	53	(10 - 160)			MCAWW 310.1	07/24/10	0207282
	48	(10 - 160)	1.8	(0-24)	MCAWW 310.1	07/24/10	0207282

Dilution Factor: 1

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER
Date Sampled...: 07/20/10 13:17 **Date Received..:** 07/21/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity	WO#: L4F5E1A9-MS/L4F5E1CA-MSD						MS Lot-Sample #: A0G210426-005		
	1100	500	1300	mg/L	53		MCAWW 310.1	07/24/10	0207282
	1100	500	1300	mg/L	48	1.8	MCAWW 310.1	07/24/10	0207282
	Dilution Factor: 1								

NOTE(S):

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SUPPORTIVE RAW DATA

Method: 300, 9056

0203152 0203154 0203158 0203160

TestAmerica
North Canton
Ion Chromatography

338

0 SEQUENCE: \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m Instrument : ic120.i LEVEL 1 [signature] DATE: 7/22/10 Date Analyzed: 7/21/2010

0 LEVEL 2 CL10C DATE: 7/22/10 Units: mg/L or mg/Kg

0	Inj. Date	Sample ID	Matrix	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
0					RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
0		RLs:>>			0.1		1		0.1		0.2		0.1		0.1		1	
Injec	7-Jul-10	Highest Cal Std conc & area			10	101242718	200	1.945E+09	10	144268622	40	125641377	10	177415257	10	86187007	200	1.264E+09
1	7/21/2010 13:58	CE	L	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	ND	1	ND
2	7/21/2010 14:14	RINSE	L	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	ND	1	ND
3	7/21/2010 14:31	CCV	L	1	P 102%	2.54	P 105%	52.53	P 105%	2.62	P 101%	10.10	P 99%	2.48	P 98%	2.44	P 99%	49.71
4	7/21/2010 14:47	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.1102 B	P< 1	ND
5	7/21/2010 15:03	LCS	L	1	P 102%	2.55	P 104%	52.24	P 107%	2.68	P 101%	10.05	P 99%	2.48	P 98%	2.45	P 99%	49.42
6	7/21/2010 15:20	LCS DUP	L	1	P 103%	2.56	P 104%	51.84	P 107%	2.67	P 100%	10.02	P 99%	2.47	P 100%	2.49	P 98%	49.06
7	7/21/2010 15:36	L3XQE	L	500	50 G	ND	#VALUE!	57610 #VALUE! 37900	50 G	ND	100	426.30	50 G	ND	50	73.06	#VALUE!	#VALUE!
8	7/21/2010 15:53	L3XQ0	L	500	50 G	ND	#VALUE!	#VALUE!	50 G	ND	100	243.90	50 G	ND	50 G	34.25 B	#VALUE!	#VALUE!
9	7/21/2010 16:09	L4GJG	L	1	0.1	0.0901 B	1	7.38	0.1	ND	0.2	0.0491 B	0.1	ND	0.1	0.21	1	11.70
10	7/21/2010 16:25	L4GJG	L	20	2 G	ND	20 G	7.856 B	2 G	ND	4 G	ND	2 G	ND	2 G	1.018 B	20 G	11.64 B
11	7/21/2010 16:42	L4GJT ORG	L	1	0.1	0.0259 B	1	0.5601 B	0.1	ND	0.2	ND	0.1	ND	0.1	0.0788 B	1	23.58
12	7/21/2010 16:58	L4GJT MS	L	1	P 196%	4.94	P 212%	106.70	P 121%	3.02	P 183%	18.26	P 182%	4.55	P 183%	4.65	P 221%	134.10
13	7/21/2010 17:15	L4GJT	L	5	0.5 G	ND	5 G	3.616 B	0.5 G	ND	1 G	ND	0.5 G	ND	0.5	2.07	5	21.66
14	7/21/2010 17:31	L4GJV	L	1	0.1	0.11	1	0.6852 B	0.1	ND	0.2	ND	0.1	ND	0.1	0.49	1	36.20
15	7/21/2010 17:48	CCV	L	1	P 103%	2.57	P 106%	52.88	P 105%	2.63	P 101%	10.13	P 100%	2.50	P 101%	2.52	P 100%	50.25
16	7/21/2010 18:04	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.1906 B	P< 1	ND
17	7/21/2010 18:20	L4GJ0	L	1	0.1	0.067 B	1	67.20	0.1	ND	0.2	ND	0.1	ND	0.1	0.27	1	67.05
18	7/21/2010 18:37	L4GJ1	L	1	0.1	0.0425 B	1	2.27	0.1	ND	0.2	ND	0.1	ND	0.1	0.20	1	12.34
19	7/21/2010 18:53	L3XQT	L	1	0.1	0.18	1	102.70	0.1	ND	0.2	0.26	0.1	ND	0.1	0.0945 B	1	51.64
20	7/21/2010 19:10	L4G0Q	L	1	0.1	0.0441 B	1	Dil 0X	0.1	ND	0.2	0.34	0.1	1.36	0.1	0.14	1	113.20
21	7/21/2010 19:26	L4G02	L	1	0.1	0.24	1	ND	0.1	ND	0.2	0.1964 B	0.1	ND	0.1	0.0415 B	1	165.70
22	7/21/2010 19:42	L4G04	L	1	0.1	1.26	1	17.47	0.1	0.076 B	0.2	ND	0.1	0.13	0.1	0.0705 B	1	Dil 2X
23	7/21/2010 19:59	L4G05	L	1	0.1	0.11	1	Dil 0X	0.1	ND	0.2	0.40	0.1	1.73	0.1	0.0931 B	1	63.91
24	7/21/2010 20:15	L4G07	L	1	0.1	0.11	1	Dil 0X	0.1	ND	0.2	0.1607 B	0.1	0.11	0.1	0.0706 B	1	45.08
25	7/21/2010 20:32	L4G08 ORG	L	1	0.1	0.10	1	151.40	0.1	ND	0.2	0.46	0.1	0.76	0.1	0.0961 B	1	142.80

G - diluted for another analyte or matrix
B - estimated result, < RL

DX-120 Spreadsheet.xls
VER . 2000 09 05

North Canton

Method: 300, 9056

TestAmerica
North Canton
Ion Chromatography

SEQUENCE: \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m Instrument : ic120.i LEVEL 1_____ DATE:_____ Date Analyzed: 7/21/2010

LEVEL 2_____ DATE:_____ Units: mg/L or mg/Kg

	Inj. Date	Sample ID	Matrix	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
					RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
		RLs:>>			0.1		1		0.1		0.2		0.1		0.1		1	
Injec	7-Jul-10	Highest Cal Std conc & area			10	101242718	200	1.945E+09	10	144268622	40	125641377	10	177415257	10	86187007	200	1.264E+09
26	7/21/2010 20:48	L4G08 MS	L	1	P 216%	5.51	P 215%	Dil 2X	P 120%	2.99	P 175%	17.96	P 184%	5.36	P 291%	7.38	P 244%	Dil 2X
27	7/21/2010 21:04	CCV	L	1	P 104%	2.59	P 107%	53.37	P 103%	2.57	P 98%	9.79	P 99%	2.47	P 107%	2.68	P 101%	50.65
28	7/21/2010 21:21	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.2179 B	P< 1	ND
29	7/21/2010 21:37	L4G1A	L	1	0.1	0.005 B	1	0.0359 B	0.1	ND	0.2	ND	0.1	ND	0.1	0.25	1	ND
30	7/21/2010 21:54	LCS	L	1	P 102%	2.55	P 105%	52.58	P 107%	2.69	P 101%	10.09	P 100%	2.49	P 100%	2.51	P 100%	49.83
31	7/21/2010 22:10	LCS DUP	L	1	P 102%	2.55	P 105%	52.43	P 107%	2.67	P 100%	9.97	P 98%	2.46	P 101%	2.52	P 99%	49.48
32	7/21/2010 22:26	CCV	L	1	P 103%	2.58	P 106%	53.05	P 103%	2.56	P 98%	9.75	P 99%	2.47	P 101%	2.54	P 101%	50.37
33	7/21/2010 22:43	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.1497 B	P< 1	ND
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!

G - diluted for another analyte or matrix
B - estimated result, < RL

Sequence: 072110
Operator: wetchemnc
Printed: 7/22/2010 8:00:44 AM

Title:
Datasource: D2NJR9B1_local
Location: IC120\DX120 DATA 2010\DX120 JULY 2010
Timebase: IC120
#Samples: 34

Created: 7/21/2010 9:49:41 AM by wetchemnc
Last Update: 7/21/2010 4:51:39 PM by wetchemnc

No.	Name	Type	Program	Status	Inj. Date/Time	Comment
1	CE	Unknown	DX120_14min	Finished	7/21/2010 1:58:15 PM	
2	RINSE	Unknown	DX120_14min	Finished	7/21/2010 2:14:39 PM	ELUENT=WR00685
3	CCV,,2	Unknown	DX120_14min	Finished	7/21/2010 2:31:05 PM	CCV=IC0346
4	CCB	Unknown	DX120_14min	Finished	7/21/2010 2:47:30 PM	LCS=IC0347
5	LCS,,3	Spiked	DX120_14min	Finished	7/21/2010 3:03:53 PM	
6	LCS DUP,,3	Spiked	DX120_14min	Finished	7/21/2010 3:20:17 PM	
7	L3XQE,500	Unknown	DX120_14min	Finished	7/21/2010 3:36:43 PM	
8	L3XQ0,500	Unknown	DX120_14min	Finished	7/21/2010 3:53:07 PM	
9	L4GJG	Unknown	DX120_14min	Finished	7/21/2010 4:09:32 PM	
10	L4GJG,20	Unknown	DX120_14min	Finished	7/21/2010 4:25:56 PM	
11	L4GJT ORG	Unknown	DX120_14min	Finished	7/21/2010 4:42:21 PM	
12	L4GJT MS,,3	Unknown	DX120_14min	Finished	7/21/2010 4:58:46 PM	
13	L4GJT,5	Unknown	DX120_14min	Finished	7/21/2010 5:15:11 PM	
14	L4GJV	Unknown	DX120_14min	Finished	7/21/2010 5:31:35 PM	
15	CCV,,2	Unknown	DX120_14min	Finished	7/21/2010 5:48:00 PM	
16	CCB	Unknown	DX120_14min	Finished	7/21/2010 6:04:24 PM	
17	L4GJ0	Unknown	DX120_14min	Finished	7/21/2010 6:20:49 PM	
18	L4GJ1	Unknown	DX120_14min	Finished	7/21/2010 6:37:14 PM	
19	L3XQT	Unknown	DX120_14min	Finished	7/21/2010 6:53:38 PM	
20	L4G0Q	Unknown	DX120_14min	Finished	7/21/2010 7:10:03 PM	
21	L4G02	Unknown	DX120_14min	Finished	7/21/2010 7:26:27 PM	
22	L4G04	Unknown	DX120_14min	Finished	7/21/2010 7:42:52 PM	
23	L4G05	Unknown	DX120_14min	Finished	7/21/2010 7:59:17 PM	
24	L4G07	Unknown	DX120_14min	Finished	7/21/2010 8:15:42 PM	
25	L4G08 ORG	Unknown	DX120_14min	Finished	7/21/2010 8:32:07 PM	
26	L4G08 MS,,3	Unknown	DX120_14min	Finished	7/21/2010 8:48:31 PM	
27	CCV,,2	Unknown	DX120_14min	Finished	7/21/2010 9:04:56 PM	
28	CCB	Unknown	DX120_14min	Finished	7/21/2010 9:21:20 PM	
29	L4G1A	Unknown	DX120_14min	Finished	7/21/2010 9:37:45 PM	
30	LCS,,3	Unknown	DX120_14min	Finished	7/21/2010 9:54:10 PM	
31	LCS DUP,,3	Unknown	DX120_14min	Finished	7/21/2010 10:10:34 PM	
32	CCV,,2	Unknown	DX120_14min	Finished	7/21/2010 10:26:58 PM	
33	CCB	Unknown	DX120_14min	Finished	7/21/2010 10:43:23 PM	
34	Halt	Unknown	DX120_Halt	Finished	7/21/2010 10:59:48 PM	

VJB 7/22/10

Report Date : 22-Jul-2010 08:16

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Last Edit : 22-Jul-2010 08:05 scotts

Calibration File Names:
Level 1: \\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Level 2: \\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Level 3: \\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Level 4: \\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Level 5: \\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Level 6: \\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Level 7: \\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Level 8: \\cansvr11\chem\WET\ic120.i\070710.b\0011.d
Level 9: \\cansvr11\chem\WET\ic120.i\070710.b\0012.d

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
1 Fluoride	836700	854244	878036	884284	945480	979205					
	995521	1064923	1092411				AVRG		947867		9.71921
2 Chloride	6216747	6596759	6748861	7314895	8374022	8858271					
	9115105	9515664	9723584				AVRG		8051545		16.74847
3 Nitrite	10310100	11919216	12493856	12568694	13215152	13343137					
	13612873	13813577	14426862				AVRG		12855941		9.48554

Report Date : 22-Jul-2010 08:16

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Last Edit : 22-Jul-2010 08:05 scotts

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
4 Bromide	2652945	2796529	2643142	2720608	2851080	2893656					
	2943225	2967847	3141034				AVRG		2845563		5.69687
5 Nitrate	16950260	14930548	14814542	15157385	15821698	16167655					
	16489167	16826702	17741526				AVRG		16099942		6.24514
6 Phosphate	57713	73425	151121	314418	774597	1254441					
	1590391	2521439	3684311				QUAD	0.000e+000	3.442e-006	-1.955e-01	0.99979
7 Sulfate	4575817	4672672	4670676	4805781	5166870	5499371					
	5666959	6068592	6319704				AVRG		5271827		12.31838

Report Date : 22-Jul-2010 08:16

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Last Edit : 22-Jul-2010 08:05 scotts

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date: 22-Jul-2010 08:16

Calibration History

Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Start Cal Date: 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Last Cal Level: 9
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
07-JUL-2010 12:52	all	\\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Cal Level: 2 , Cal Amount: 0.25000		
07-JUL-2010 13:08	all	\\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Cal Level: 3 , Cal Amount: 0.50000		
07-JUL-2010 13:25	all	\\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Cal Level: 4 , Cal Amount: 1.00000		
07-JUL-2010 13:41	all	\\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Cal Level: 5 , Cal Amount: 2.50000		
07-JUL-2010 13:58	all	\\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Cal Level: 6 , Cal Amount: 4.00000		
07-JUL-2010 14:14	all	\\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Cal Level: 7 , Cal Amount: 5.00000		
07-JUL-2010 14:30	all	\\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Cal Level: 8 , Cal Amount: 7.50000		

07-JUL-2010 14:47	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0011.d		

Cal Level: 9 , Cal Amount: 10.00000		
07-JUL-2010 15:03	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0012.d		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

21-JUL-2010 22:26	all	
\\cansvr11\chem\WET\ic120.i\072110.b\0032.d		
21-JUL-2010 21:04	all	
\\cansvr11\chem\WET\ic120.i\072110.b\0027.d		
21-JUL-2010 17:48	all	
\\cansvr11\chem\WET\ic120.i\072110.b\0015.d		
21-JUL-2010 14:31	all	
\\cansvr11\chem\WET\ic120.i\072110.b\0003.d		
21-JUL-2010 10:59	all	
\\cansvr11\chem\WET\ic120.i\072110.b\0003.d		

Report Date : 08-Jul-2010 10:13

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Last Edit : 08-Jul-2010 10:07 burnsj

Calibration File Names:
Level 1: \\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Level 2: \\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Level 3: \\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Level 4: \\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Level 5: \\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Level 6: \\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Level 7: \\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Level 8: \\cansvr11\chem\WET\ic120.i\070710.b\0011.d
Level 9: \\cansvr11\chem\WET\ic120.i\070710.b\0012.d

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
1 Fluoride	836700	854244	878036	884284	945480	979205					
	995521	1064923	1092411				AVRG		947867		9.71921
2 Chloride	6216747	6596759	6748861	7314895	8374022	8858271					
	9115105	9515664	9723584				AVRG		8051545		16.74847
3 Nitrite	10310100	11919216	12493856	12568694	13215152	13343137					
	13612873	13813577	14426862				AVRG		12855941		9.48554

Report Date : 08-Jul-2010 10:13

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Last Edit : 08-Jul-2010 10:07 burnsj

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
4 Bromide	2652945	2796529	2643142	2720608	2851080	2893656					
	2943225	2967847	3141034				AVRG		2845563		5.69687
5 Nitrate	16950260	14930548	14814542	15157385	15821698	16167655					
	16489167	16826702	17741526				AVRG		16099942		6.24514
6 Phosphate	57713	73425	151121	314418	774597	1254441					
	1590391	2521439	3684311				QUAD	0.000e+000	3.442e-006	-1.955e-01	0.99979
7 Sulfate	4575817	4672672	4670676	4805781	5166870	5499371					
	5666959	6068592	6319704				AVRG		5271827		12.31838

Report Date : 08-Jul-2010 10:13

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Last Edit : 08-Jul-2010 10:07 burnsj

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date: 08-Jul-2010 10:13

Calibration History

Method : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Start Cal Date: 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Last Cal Level: 9
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
07-JUL-2010 12:52	all	\\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Cal Level: 2 , Cal Amount: 0.25000		
07-JUL-2010 13:08	all	\\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Cal Level: 3 , Cal Amount: 0.50000		
07-JUL-2010 13:25	all	\\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Cal Level: 4 , Cal Amount: 1.00000		
07-JUL-2010 13:41	all	\\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Cal Level: 5 , Cal Amount: 2.50000		
07-JUL-2010 13:58	all	\\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Cal Level: 6 , Cal Amount: 4.00000		
07-JUL-2010 14:14	all	\\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Cal Level: 7 , Cal Amount: 5.00000		
07-JUL-2010 14:30	all	\\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Cal Level: 8 , Cal Amount: 7.50000		

07-JUL-2010 14:47	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0011.d		

Cal Level: 9 , Cal Amount: 10.00000

07-JUL-2010 15:03	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0012.d		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

08-JUL-2010 01:10	all	
\\cansvr11\dd\chem\WET\ic120.i\070710.b\0049.d		
07-JUL-2010 21:53	all	
\\cansvr11\dd\chem\WET\ic120.i\070710.b\0037.d		
07-JUL-2010 18:37	all	
\\cansvr11\dd\chem\WET\ic120.i\070710.b\0025.d		
07-JUL-2010 15:20	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0013.d		
07-JUL-2010 13:58	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0008.d		
07-JUL-2010 15:20	all	
\\cansvr11\dd\chem\WET\ic120.i\070710.b\0013.d		
07-JUL-2010 13:58	all	
\\cansvr11\dd\chem\WET\ic120.i\070710.b\0008.d		
07-JUL-2010 15:20	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0013.d		
07-JUL-2010 13:58	all	
\\cansvr11\chem\WET\ic120.i\070710.b\0008.d		

Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Lab Smp Id: CAL 1
Inj Date : 07-JUL-2010 12:52
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0332
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

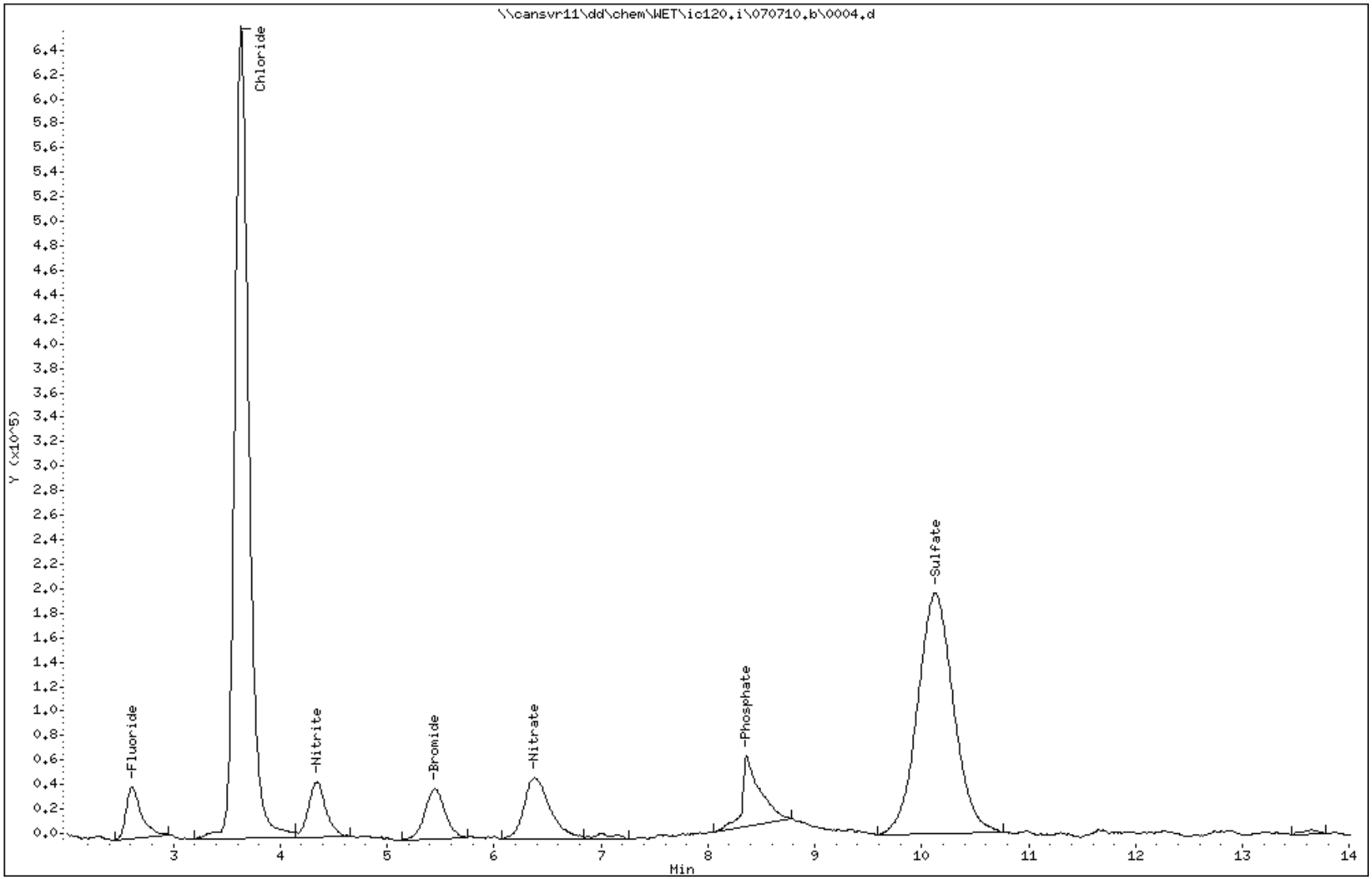
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.616	0.000	41835	0.05000	0.04414(a)
2 Chloride	3.633	3.633	0.000	6216747	1.00000	0.7721(a)
3 Nitrite	4.341	4.341	0.000	515505	0.05000	0.04010(a)
4 Bromide	5.450	5.450	0.000	530589	0.20000	0.1865(a)
5 Nitrate	6.383	6.383	0.000	847513	0.05000	0.05264(a)
6 Phosphate	8.358	8.358	0.000	57713	0.05000	0.1980
7 Sulfate	10.133	10.133	0.000	4575817	1.00000	0.8680(a)

QC Flag Legend

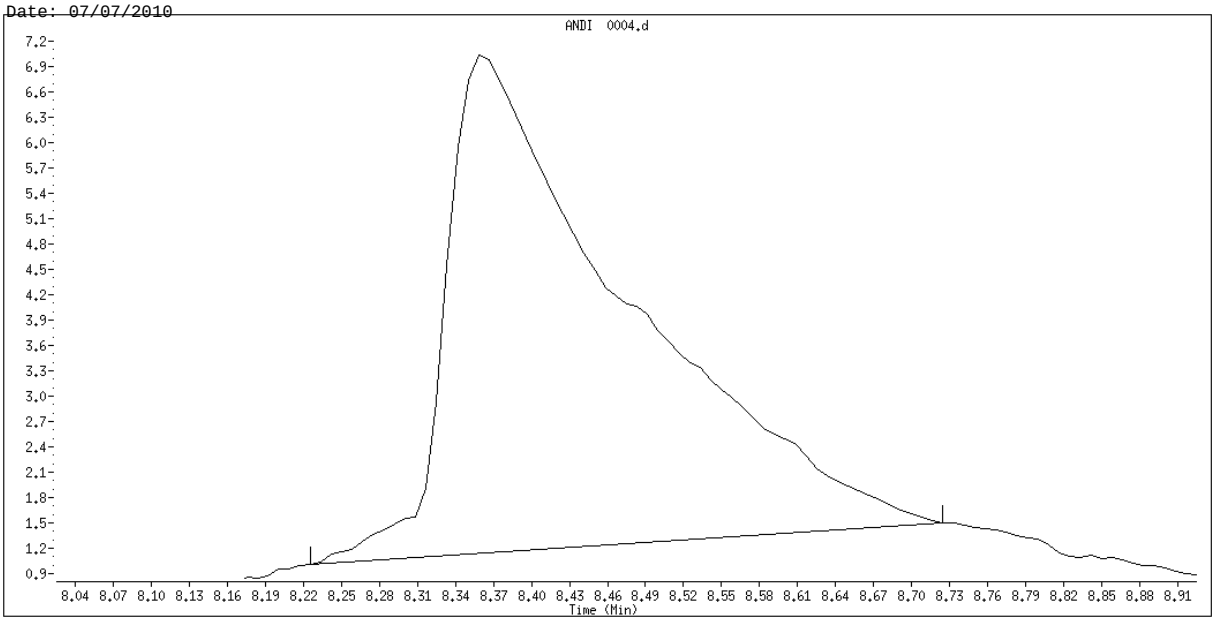
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0004.d
Date : 07-JUL-2010 12:52
Client ID:
Sample Info: IC0332
Purge Volume: 1.0
Column phase: AS14

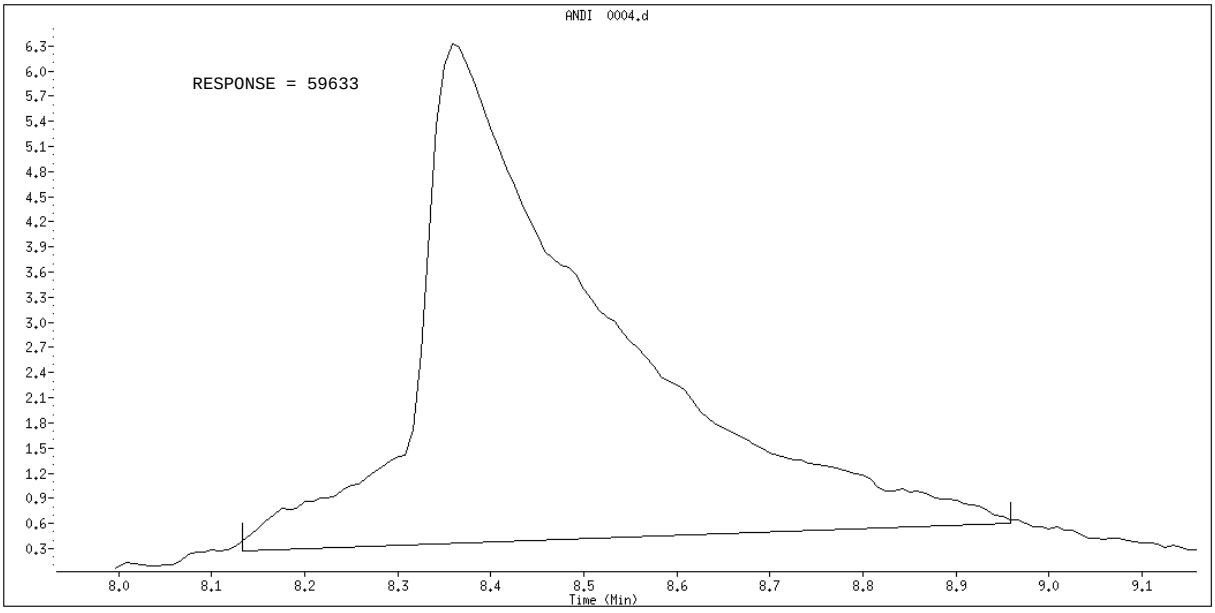
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0004.d
Inj. Date and Time: 07-JUL-2010 12:52
Instrument ID: ic120.i
Client ID:
Compound Name: Phosphate
CAS #: Q551
Report Date: 07/07/2010



Original Integration



Manual Integration

Manually Integrated By: lic
Manual Integration Reason: Unknown

Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

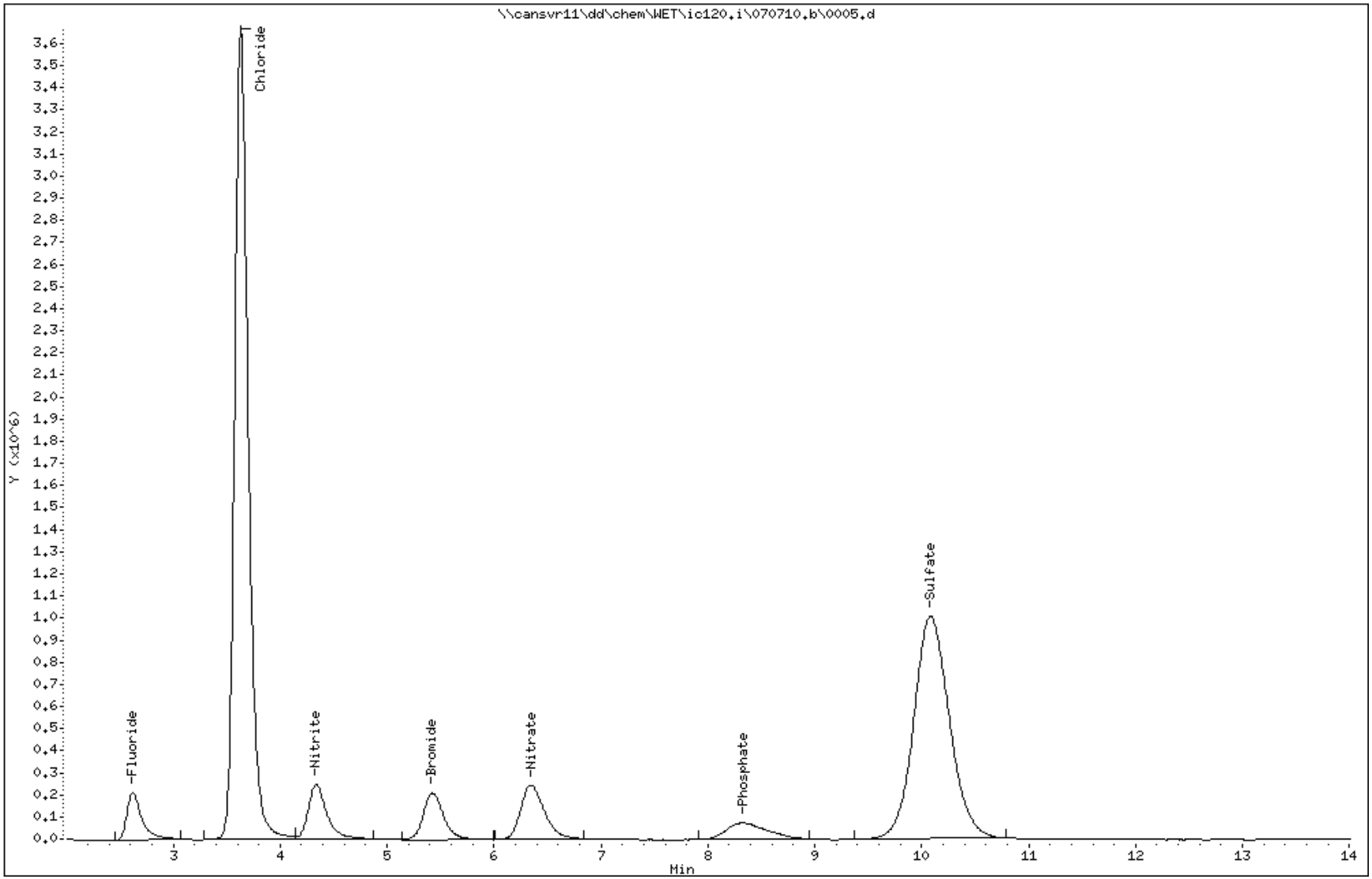
Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Lab Smp Id: CAL 2
Inj Date : 07-JUL-2010 13:08
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0331
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 12:52 Cal File: 0004.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.625	2.625	0.000	213561	0.25000	0.2253
2 Chloride	3.633	3.633	0.000	32983794	5.00000	4.096
3 Nitrite	4.333	4.333	0.000	2979804	0.25000	0.2318
4 Bromide	5.425	5.425	0.000	2796529	1.00000	0.9828
5 Nitrate	6.350	6.350	0.000	3732637	0.25000	0.2318
6 Phosphate	8.333	8.333	0.000	73425	0.25000	0.2517
7 Sulfate	10.083	10.083	0.000	23363359	5.00000	4.432

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0005.d
Date : 07-JUL-2010 13:08
Client ID:
Instrument: ic120.i
Sample Info: IC0331
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

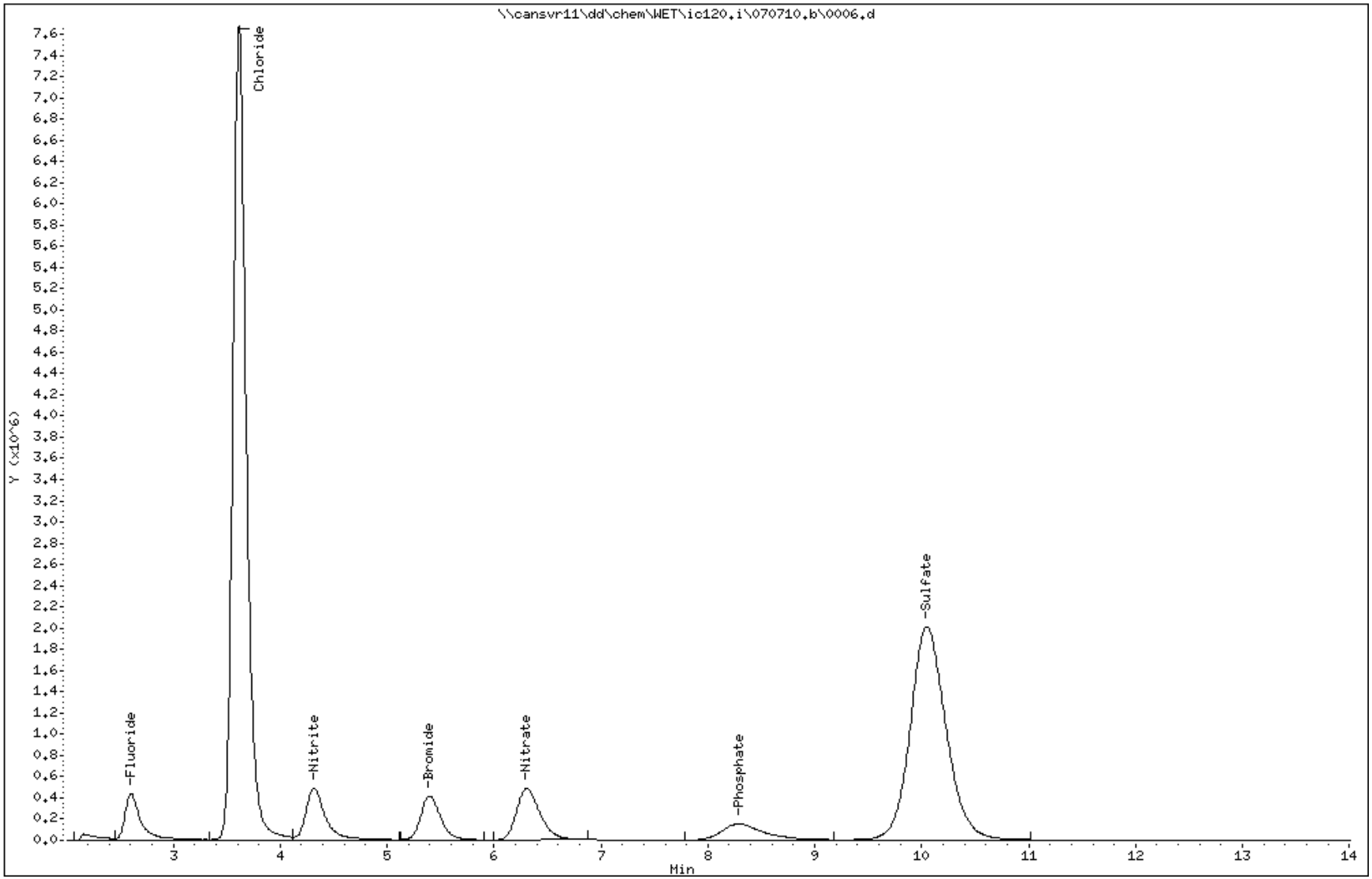
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Lab Smp Id: CAL 3
Inj Date : 07-JUL-2010 13:25
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0330
Misc Info : None
Comment   :
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Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:08 Cal File: 0005.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.608	2.608	0.000	439018	0.50000	0.4632
2 Chloride	3.616	3.616	0.000	67488606	10.0000	8.382
3 Nitrite	4.316	4.316	0.000	6246928	0.50000	0.4859
4 Bromide	5.400	5.400	0.000	5286283	2.00000	1.858
5 Nitrate	6.308	6.308	0.000	7407271	0.50000	0.4601
6 Phosphate	8.291	8.291	0.000	151121	0.50000	0.5158
7 Sulfate	10.050	10.050	0.000	46706761	10.0000	8.860

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0006.d
Date : 07-JUL-2010 13:25
Client ID:
Instrument: ic120.i
Sample Info: IC0330
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Lab Smp Id: CAL 4
Inj Date : 07-JUL-2010 13:41
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0329
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:25 Cal File: 0006.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

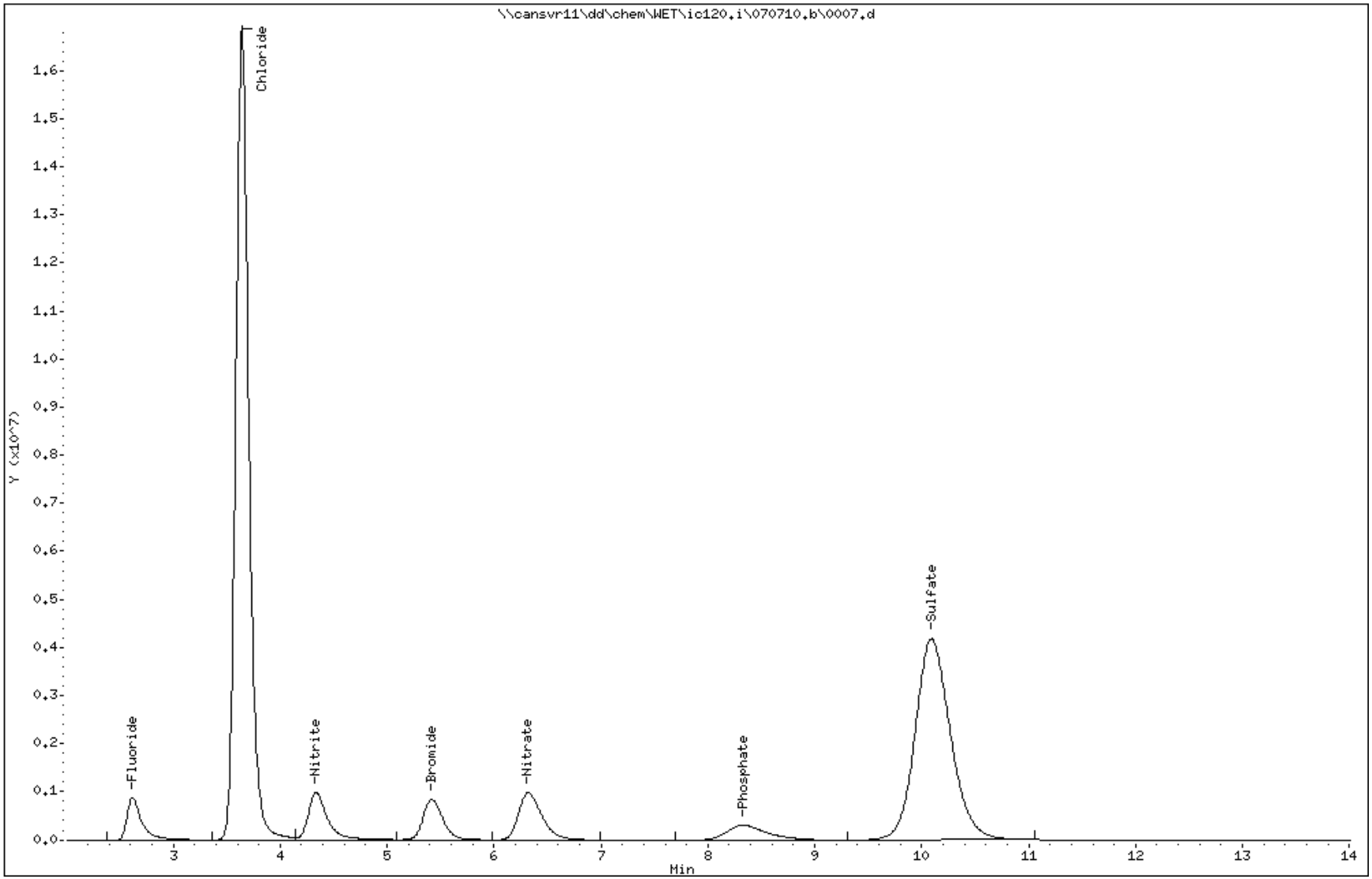
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.616	0.000	884284	1.00000	0.9329
2 Chloride	3.641	3.641	0.000	146297906	20.0000	18.17
3 Nitrite	4.333	4.333	0.000	12568694	1.00000	0.9776
4 Bromide	5.416	5.416	0.000	10882433	4.00000	3.824
5 Nitrate	6.316	6.316	0.000	15157385	1.00000	0.9414
6 Phosphate	8.333	8.333	0.000	314418	1.00000	1.063
7 Sulfate	10.091	10.091	0.000	96115611	20.0000	18.23

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0007.d
Date : 07-JUL-2010 13:41
Client ID:
Sample Info: IC0329
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

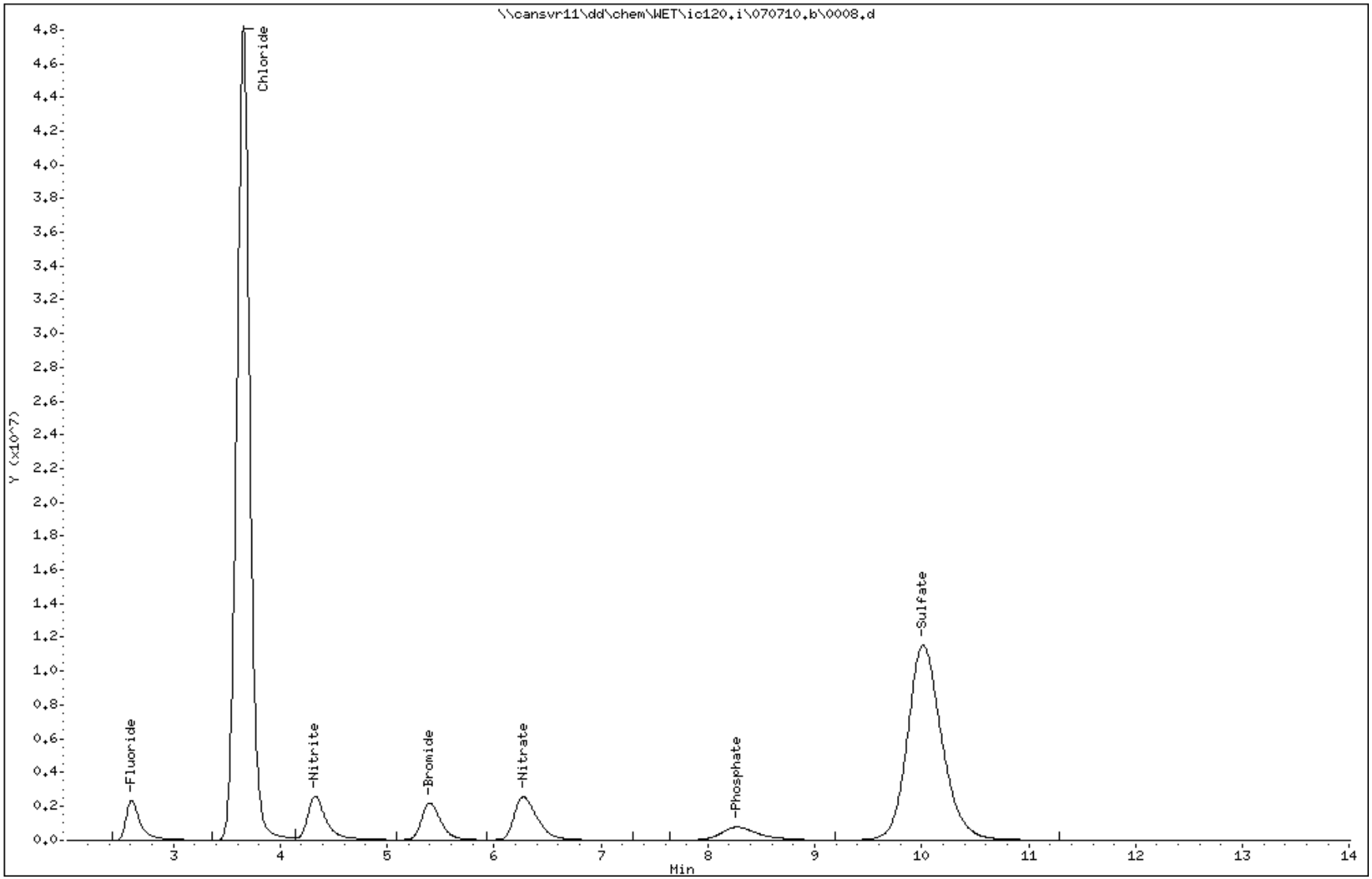
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Lab Smp Id: CAL 5
Inj Date : 07-JUL-2010 13:58
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0328
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:41 Cal File: 0007.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.608	2.608	0.000	2363699	2.50000	2.494
2 Chloride	3.658	3.658	0.000	418701089	50.0000	52.00
3 Nitrite	4.325	4.325	0.000	33037881	2.50000	2.570
4 Bromide	5.400	5.400	0.000	28510798	10.0000	10.02
5 Nitrate	6.275	6.275	0.000	39554244	2.50000	2.457
6 Phosphate	8.275	8.275	0.000	774597	2.50000	2.549
7 Sulfate	10.008	10.008	0.000	258343509	50.0000	49.00

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0008.d
Date : 07-JUL-2010 13:58
Client ID:
Instrument: ic120.i
Sample Info: IC0328
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

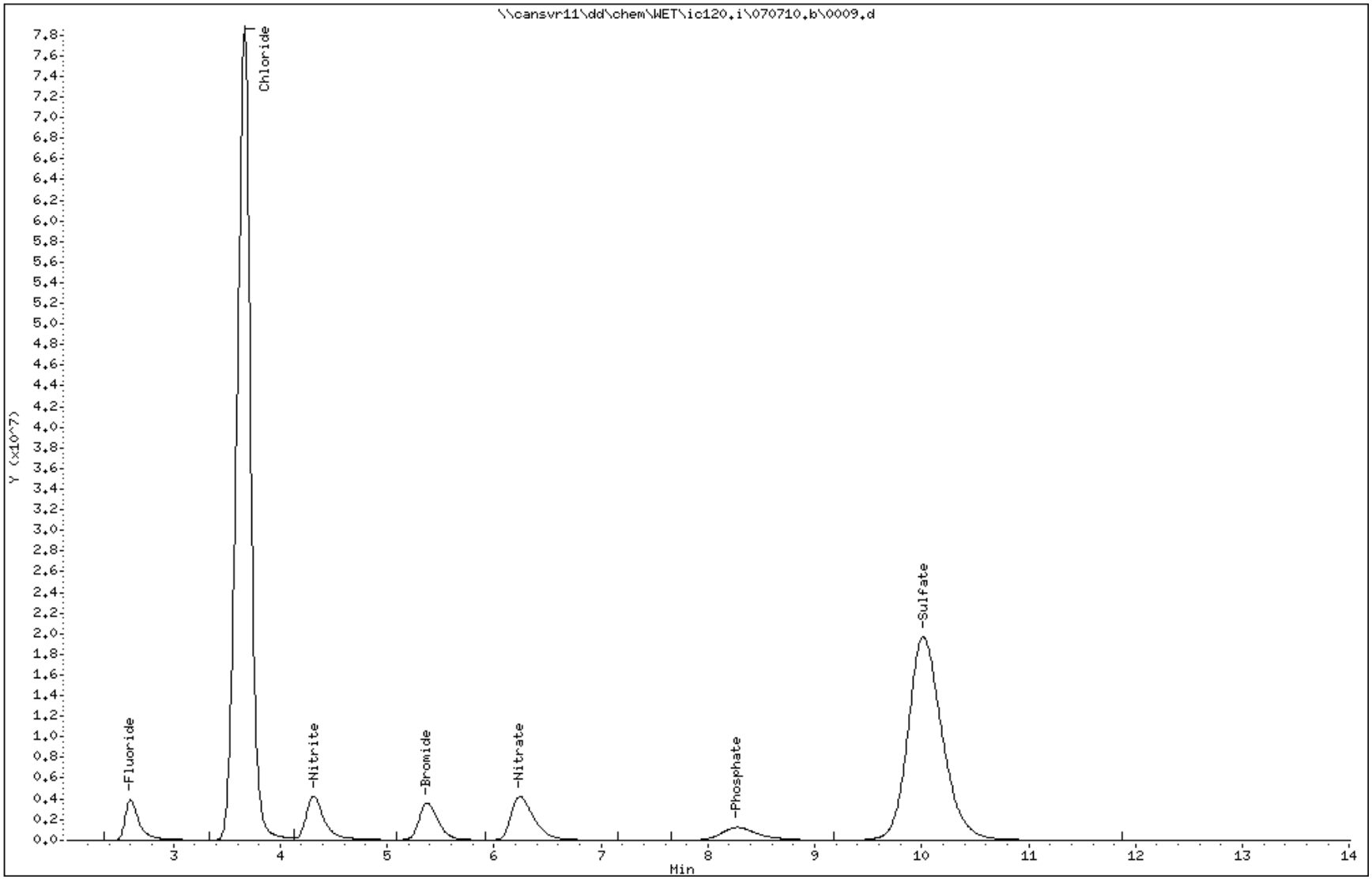
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Lab Smp Id: CAL 6
Inj Date : 07-JUL-2010 14:14
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0327
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:58 Cal File: 0008.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.600	2.600	0.000	3916818	4.00000	4.132
2 Chloride	3.666	3.666	0.000	708661681	80.0000	88.02
3 Nitrite	4.316	4.316	0.000	53372546	4.00000	4.152
4 Bromide	5.375	5.375	0.000	46298496	16.0000	16.27
5 Nitrate	6.241	6.241	0.000	64670621	4.00000	4.017
6 Phosphate	8.275	8.275	0.000	1254441	4.00000	4.011
7 Sulfate	10.016	10.016	0.000	439949712	80.0000	83.45

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0009.d
Date : 07-JUL-2010 14:14
Client ID:
Instrument: ic120.i
Sample Info: IC0327
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Report Date: 08-Jul-2010 09:28

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Lab Smp Id: CAL 7
Inj Date : 07-JUL-2010 14:30
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0326
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 14:14 Cal File: 0009.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

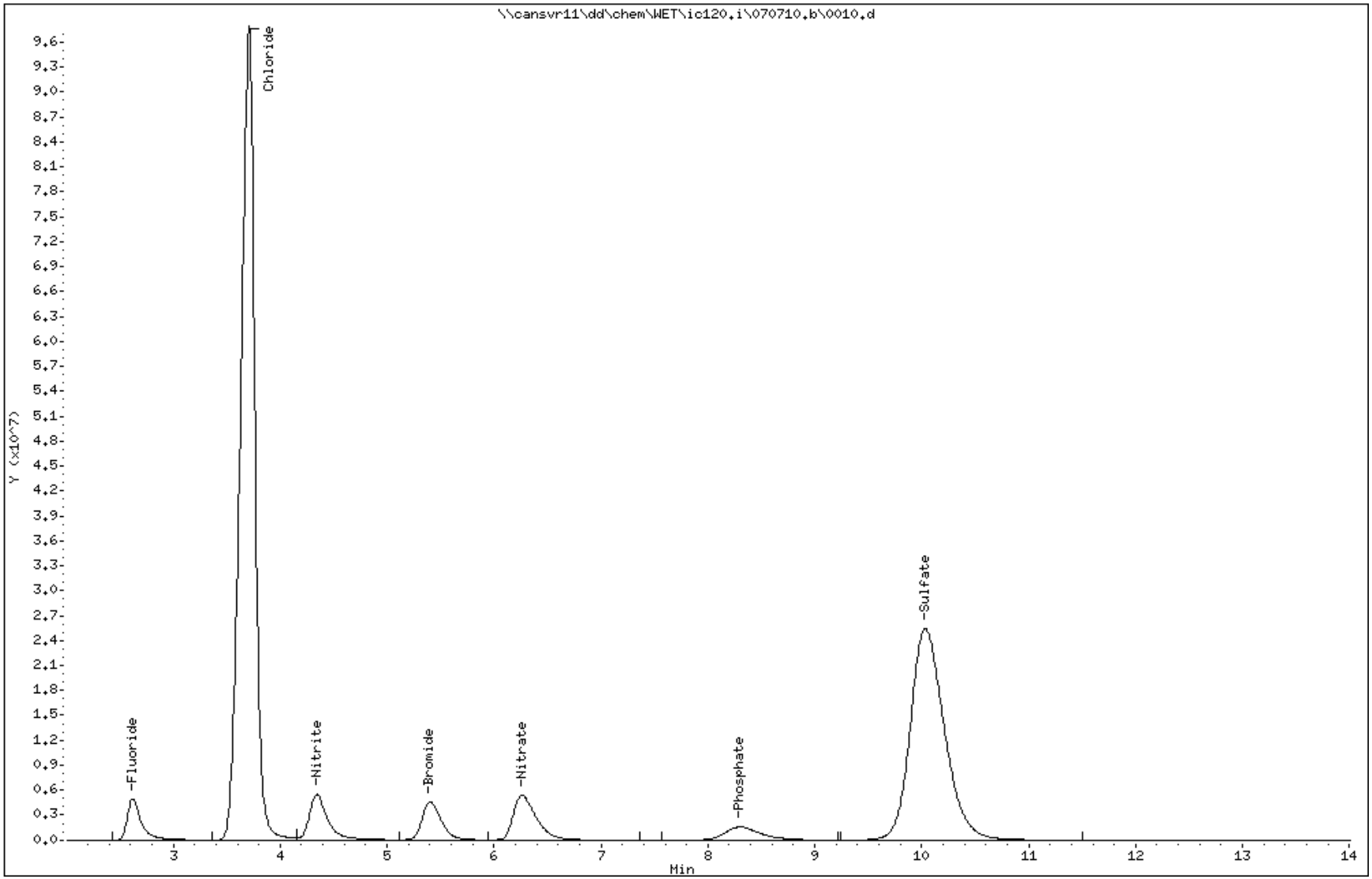
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.625	2.625	0.000	4977606	5.00000	5.251
2 Chloride	3.708	3.708	0.000	911510480	100.000	113.2
3 Nitrite	4.341	4.341	0.000	68064365	5.00000	5.294
4 Bromide	5.400	5.400	0.000	58864501	20.0000	20.69
5 Nitrate	6.258	6.258	0.000	82445834	5.00000	5.121
6 Phosphate	8.300	8.300	0.000	1590391	5.00000	4.980
7 Sulfate	10.033	10.033	0.000	566695874	100.000	107.5

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0010.d
Date : 07-JUL-2010 14:30
Client ID:
Sample Info: IC0326
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0011.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0011.d
Lab Smp Id: CAL 8
Inj Date : 07-JUL-2010 14:47
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0325
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 14:30 Cal File: 0010.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

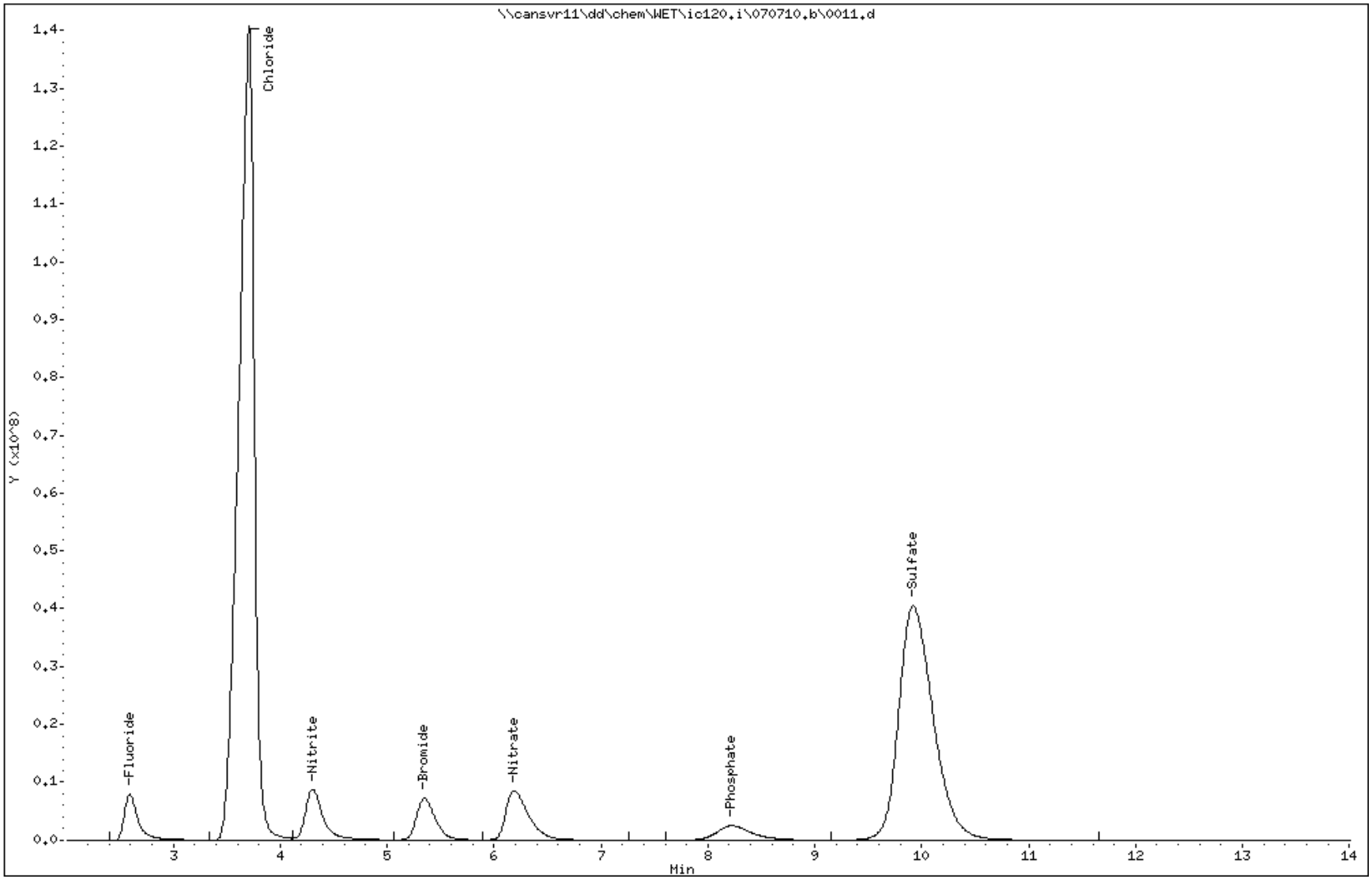
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	7986925	7.50000	8.426
2 Chloride	3.708	3.708	0.000	1427349574	150.000	177.3
3 Nitrite	4.308	4.308	0.000	103601829	7.50000	8.059
4 Bromide	5.350	5.350	0.000	89035396	30.0000	31.29
5 Nitrate	6.191	6.191	0.000	126200265	7.50000	7.838
6 Phosphate	8.225	8.225	0.000	2521439	7.50000	7.437
7 Sulfate	9.925	9.925	0.000	910288772	150.000	172.7

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0011.d
Date : 07-JUL-2010 14:47
Client ID:
Sample Info: IC0325
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0012.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0012.d
Lab Smp Id: CAL9
Inj Date : 07-JUL-2010 15:03
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0324
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 14:47 Cal File: 0011.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

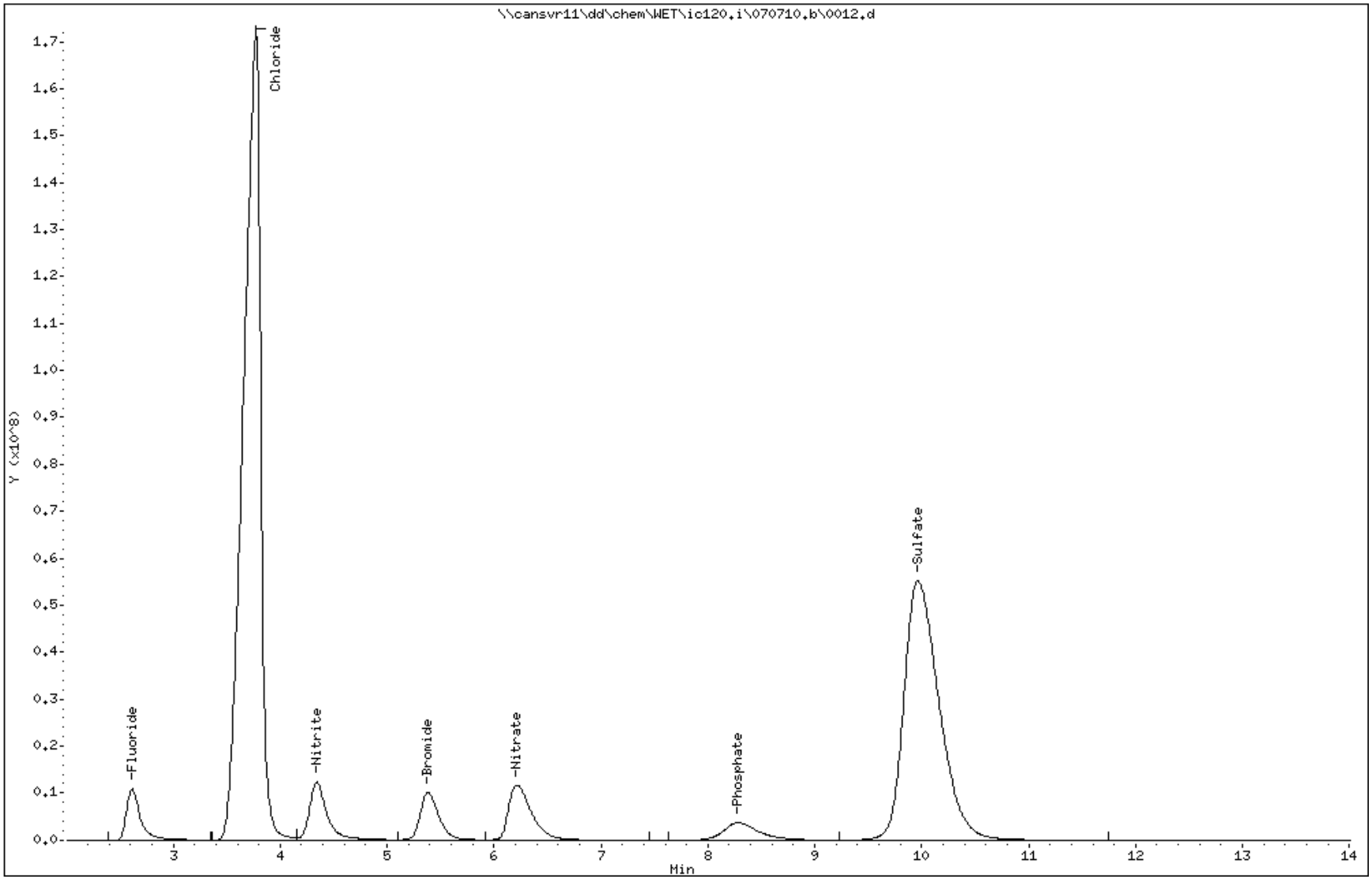
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.616	0.000	10924112	10.0000	11.52(A)
2 Chloride	3.775	3.775	0.000	1944716861	200.000	241.5(A)
3 Nitrite	4.341	4.341	0.000	144268622	10.0000	11.22(A)
4 Bromide	5.383	5.383	0.000	125641377	40.0000	44.15(A)
5 Nitrate	6.216	6.216	0.000	177415257	10.0000	11.02(A)
6 Phosphate	8.283	8.283	0.000	3684311	10.0000	10.03(A)
7 Sulfate	9.966	9.966	0.000	1263940876	200.000	239.8(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0012.d
Date : 07-JUL-2010 15:03
Client ID:
Instrument: ic120.i
Sample Info: IC0324
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0001.d
Report Date: 22-Jul-2010 08:04

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ION CHROMATOGRAPHY

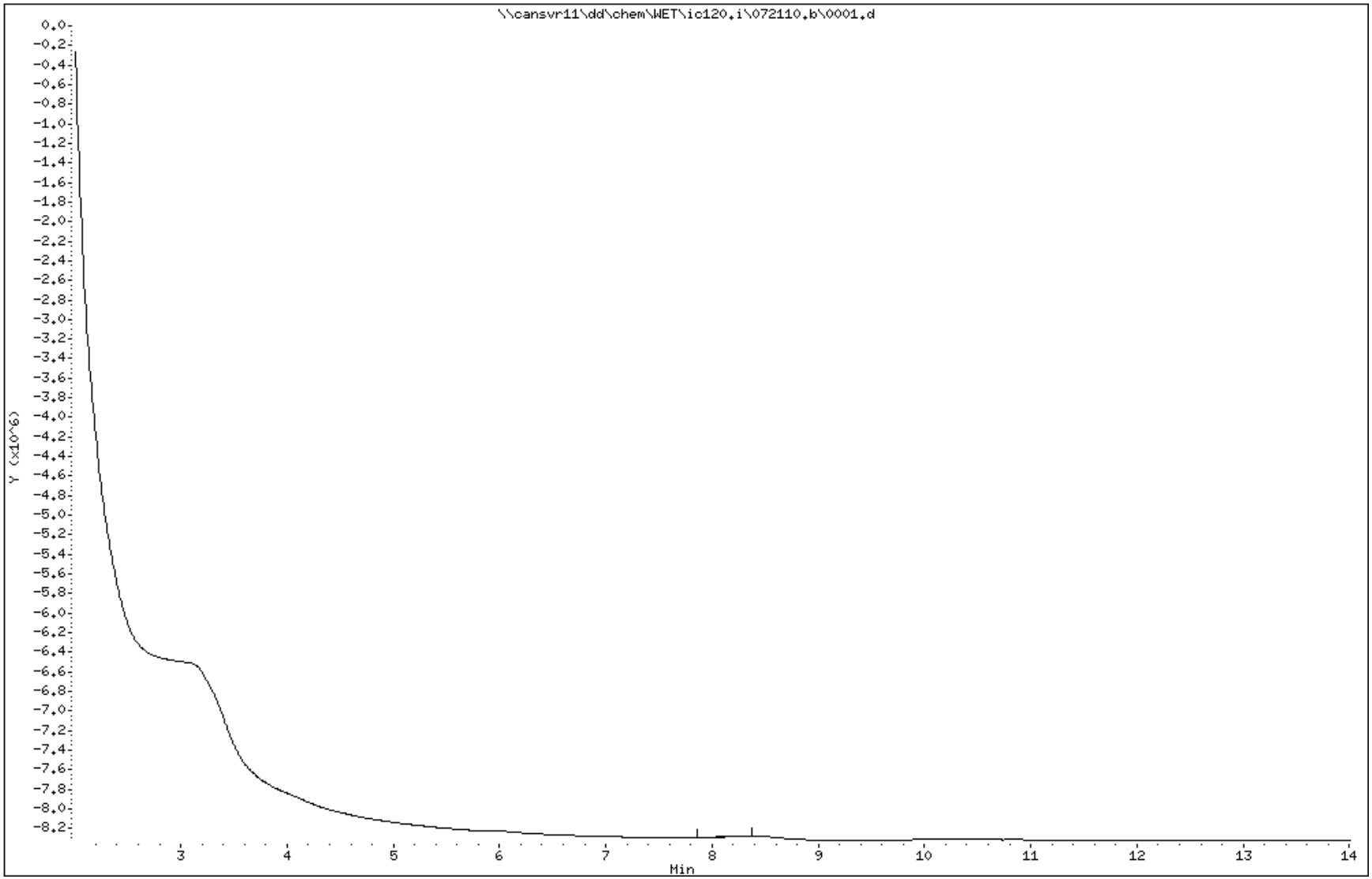
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Lab Smp Id: CE
Inj Date : 21-JUL-2010 13:58
Operator : 001754 Inst ID: ic120.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 21-Jul-2010 12:17 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0001.d
Date : 21-JUL-2010 13:58
Client ID:
Instrument: ic120.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0002.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0002.d
Lab Smp Id: RINSE
Inj Date : 21-JUL-2010 14:14
Operator : 001754 Inst ID: ic120.i
Smp Info : RINSE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 21-Jul-2010 12:17 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

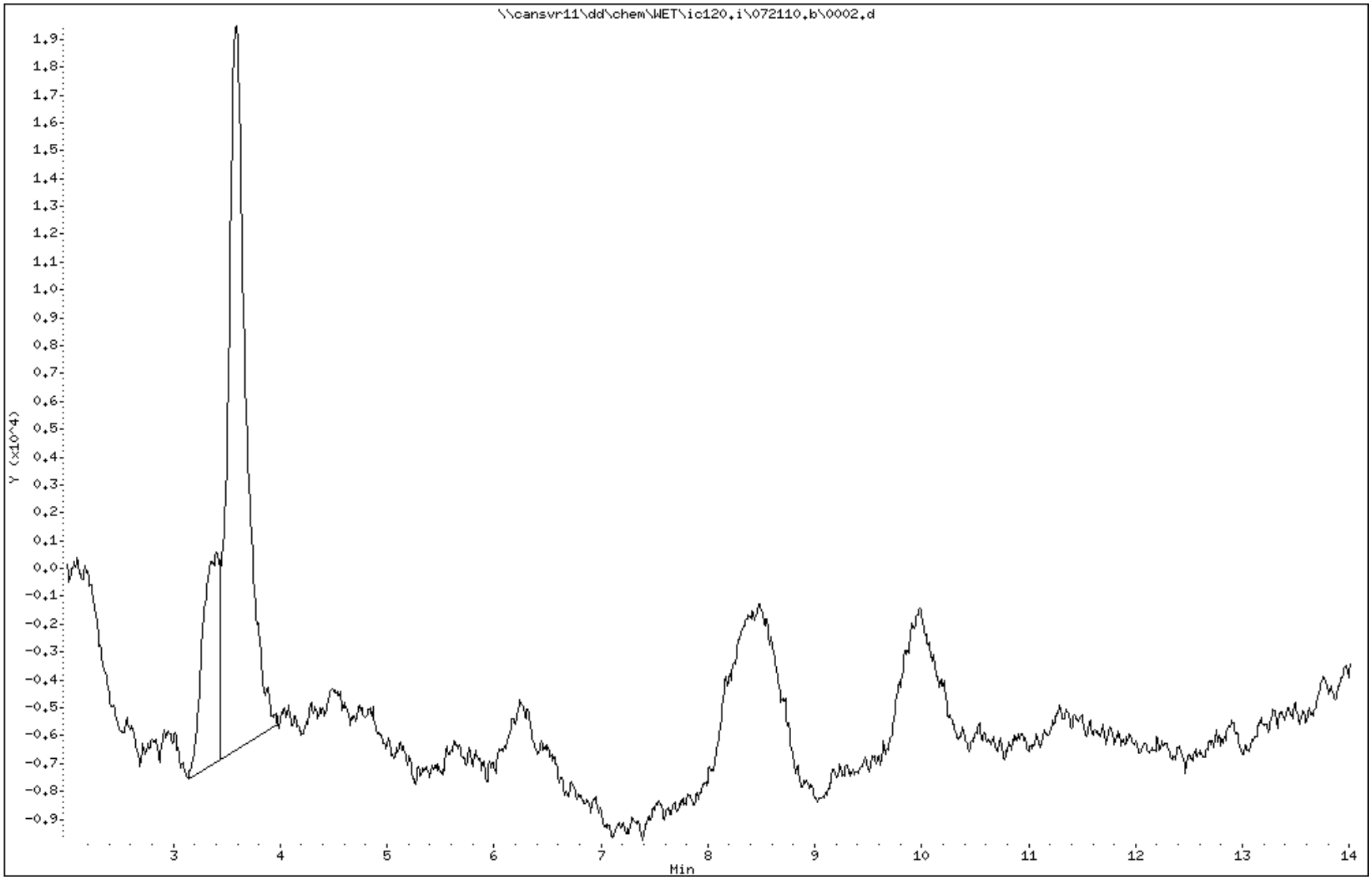
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0002.d
Date : 21-JUL-2010 14:14
Client ID:
Sample Info: RINSE
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0003.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 21-JUL-2010 14:31
Lab File ID: 0003.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	964024	964024	0.010	-1.70460	10.00000	Averaged
2 Chloride	8051545	8458954	8458954	0.010	-5.06000	10.00000	Averaged
3 Nitrite	12855941	13454240	13454240	0.010	-4.65387	10.00000	Averaged
4 Bromide	2845563	2875180	2875180	0.010	-1.04082	10.00000	Averaged
5 Nitrate	16099942	15969513	15969513	0.010	0.81012	10.00000	Averaged
6 Phosphate	2.50000	2.44167	296166	0.010	2.33310	10.00000	Quadratic
7 Sulfate	5271827	5241456	5241456	0.010	0.57610	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0003.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0003.d
Lab Smp Id: CCV
Inj Date : 21-JUL-2010 14:31
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

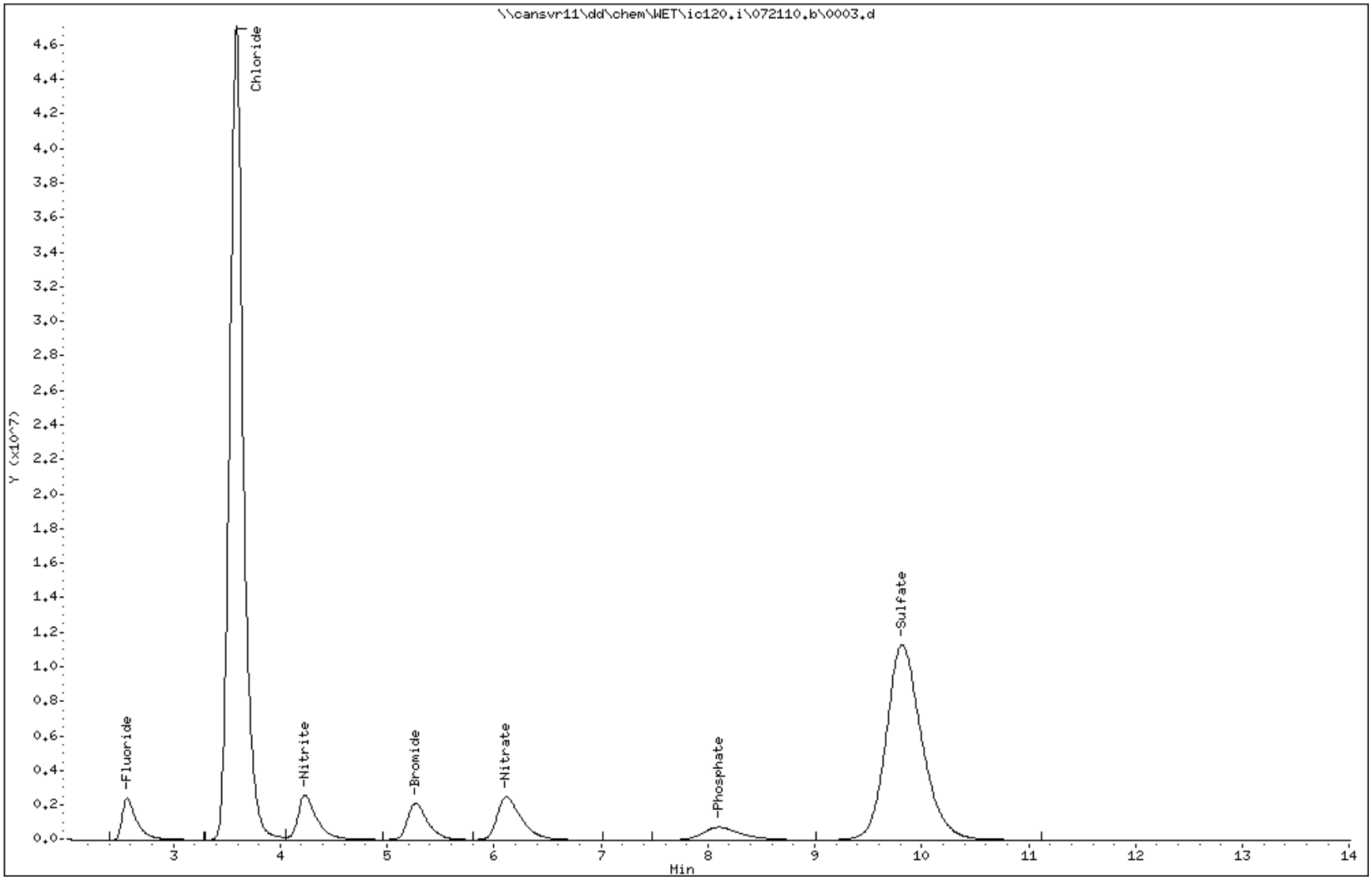
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.566	2.566	0.000	2410061	2.50000	2.543
2 Chloride	3.591	3.591	0.000	422947693	50.0000	52.53
3 Nitrite	4.233	4.233	0.000	33635600	2.50000	2.616
4 Bromide	5.266	5.266	0.000	28751799	10.0000	10.10
5 Nitrate	6.116	6.116	0.000	39923783	2.50000	2.480
6 Phosphate	8.100	8.100	0.000	740416	2.50000	2.442
7 Sulfate	9.816	9.816	0.000	262072783	50.0000	49.71

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0003.d
Date : 21-JUL-2010 14:31
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0004.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0004.d
Lab Smp Id: CCB
Inj Date : 21-JUL-2010 14:47
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

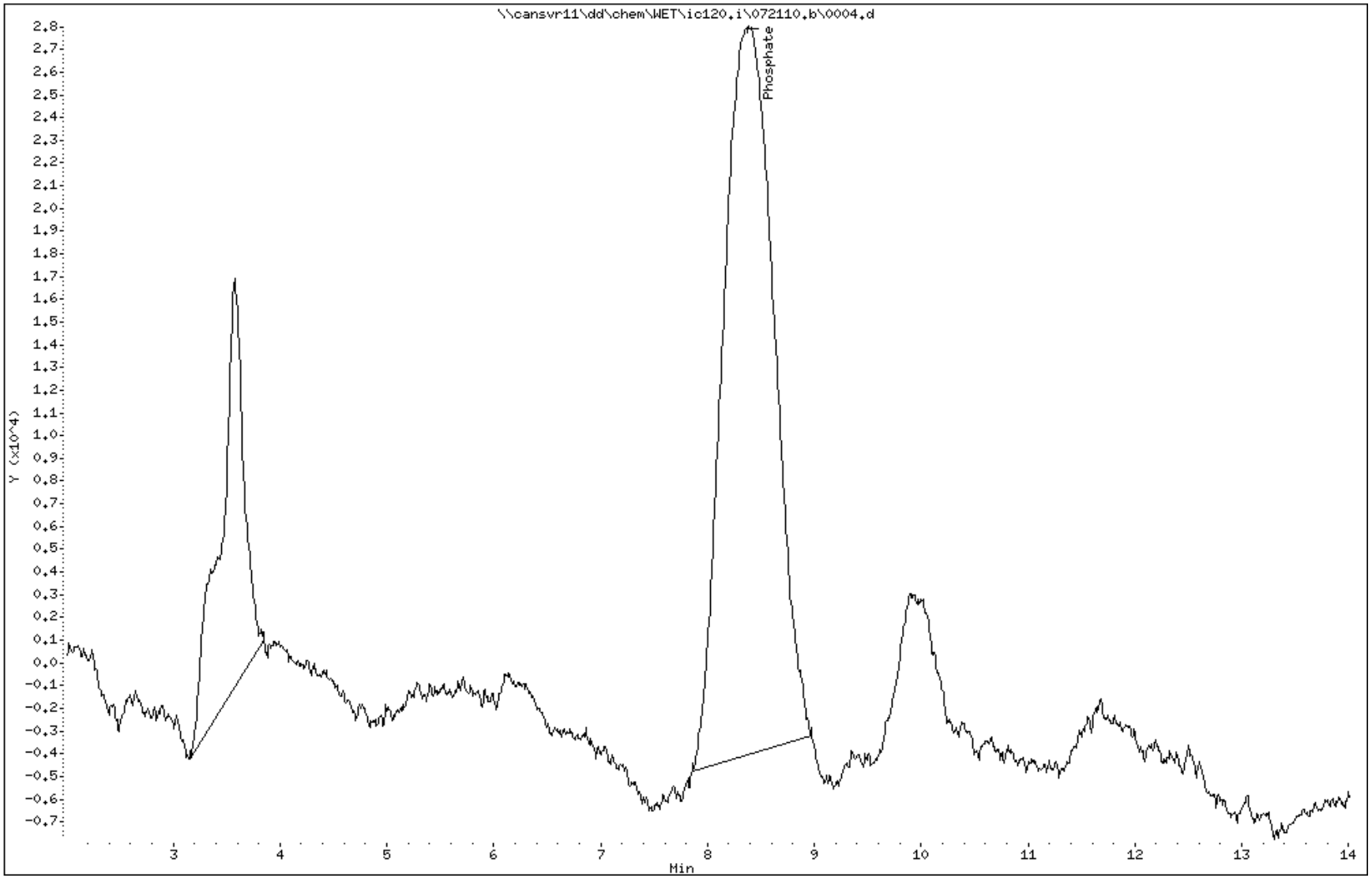
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.391	8.100	0.291	32070	0.11020	0.1102
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0004.d
Date : 21-JUL-2010 14:47
Client ID:
Sample Info: CCB
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0005.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

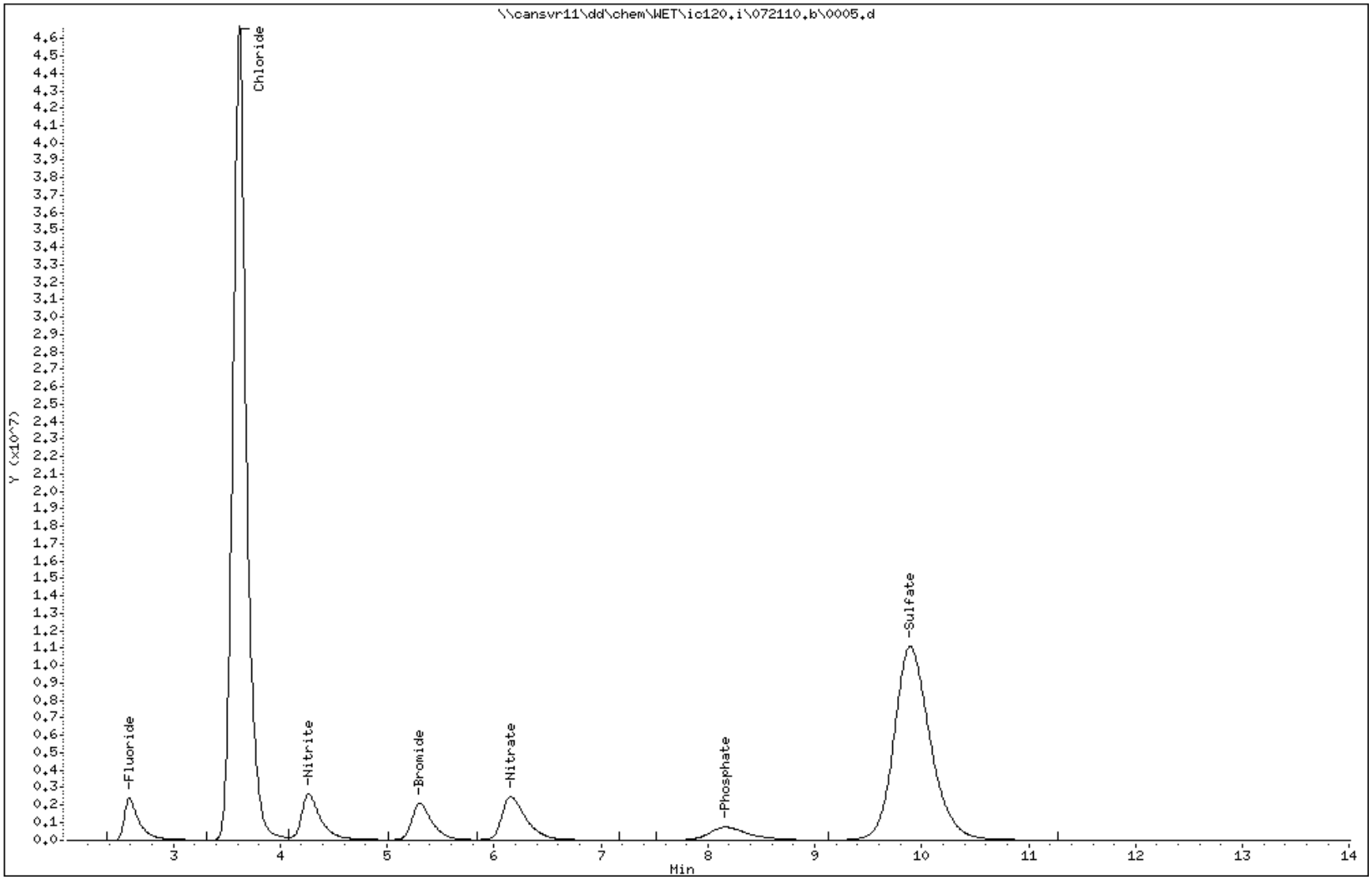
Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0005.d
Lab Smp Id: LCS
Inj Date : 21-JUL-2010 15:03
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.566	0.025	2417020	2.54996	2.550
2 Chloride	3.616	3.591	0.025	420628878	52.2420	52.24
3 Nitrite	4.266	4.233	0.033	34476253	2.68174	2.682
4 Bromide	5.308	5.266	0.042	28592118	10.0480	10.05
5 Nitrate	6.158	6.116	0.042	39986461	2.48364	2.484
6 Phosphate	8.166	8.100	0.066	742469	2.44814	2.448
7 Sulfate	9.891	9.816	0.075	260517848	49.4170	49.42

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0005.d
Date : 21-JUL-2010 15:03
Client ID:
Instrument: ic120.i
Sample Info: LCS,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0006.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0006.d
Lab Smp Id: LCS DUP
Inj Date : 21-JUL-2010 15:20
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS DUP,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

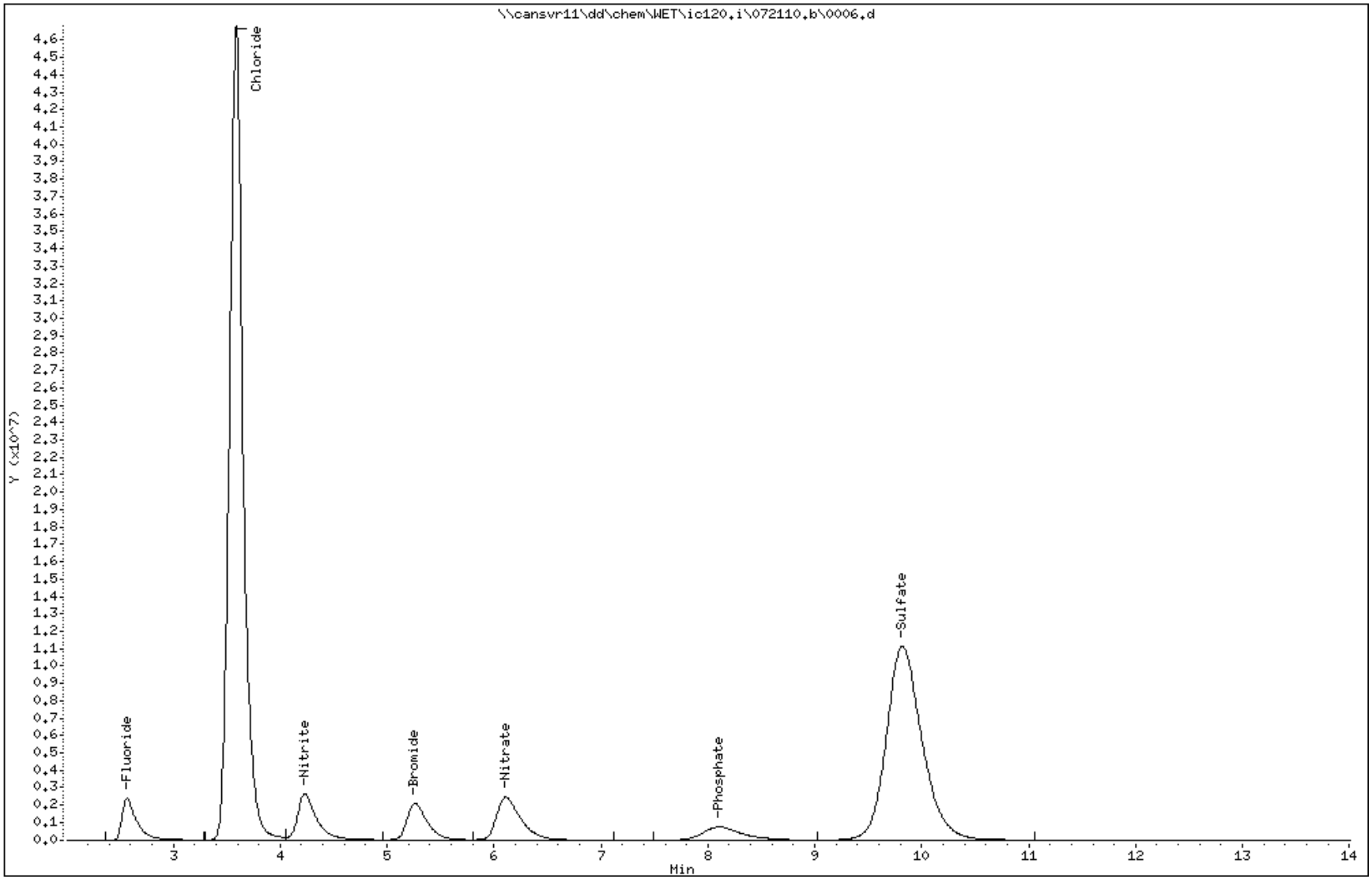
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.566	2.566	0.000	2430039	2.56369	2.564
2 Chloride	3.591	3.591	0.000	417353853	51.8352	51.84
3 Nitrite	4.233	4.233	0.000	34316081	2.66928	2.669
4 Bromide	5.258	5.266	-0.008	28524337	10.0241	10.02
5 Nitrate	6.108	6.116	-0.008	39726870	2.46752	2.468
6 Phosphate	8.100	8.100	0.000	755838	2.49025	2.490
7 Sulfate	9.816	9.816	0.000	258619560	49.0569	49.06

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0006.d
Date : 21-JUL-2010 15:20
Client ID:
Sample Info: LCS DUP,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0007.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0007.d
Lab Smp Id: L3XQE
Inj Date : 21-JUL-2010 15:36
Operator : 001754 Inst ID: ic120.i
Smp Info : L3XQE,500
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 500.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

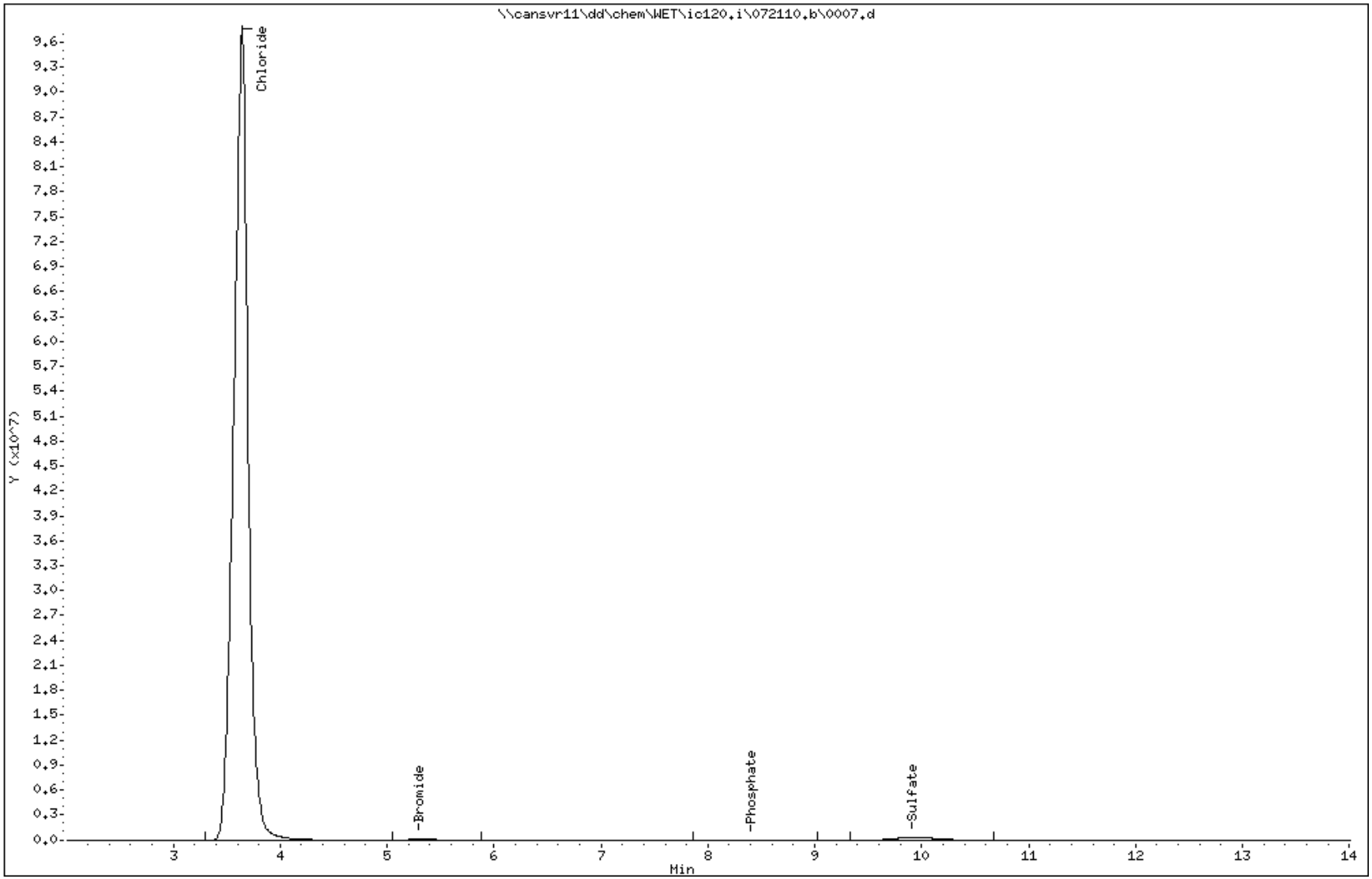
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	500.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.641	3.591	0.050	927634934	115.212	57610
3 Nitrite	Compound Not Detected.					
4 Bromide	5.300	5.266	0.034	2426219	0.85263	426.3
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.408	8.100	0.308	42550	0.14612	73.06
7 Sulfate	9.925	9.816	0.109	8799220	1.66910	834.6

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0007.d
Date : 21-JUL-2010 15:36
Client ID:
Sample Info: L3XQE,500
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0008.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0008.d
Lab Smp Id: L3XQ0
Inj Date : 21-JUL-2010 15:53
Operator : 001754 Inst ID: ic120.i
Smp Info : L3XQ0,500
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 500.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	500.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

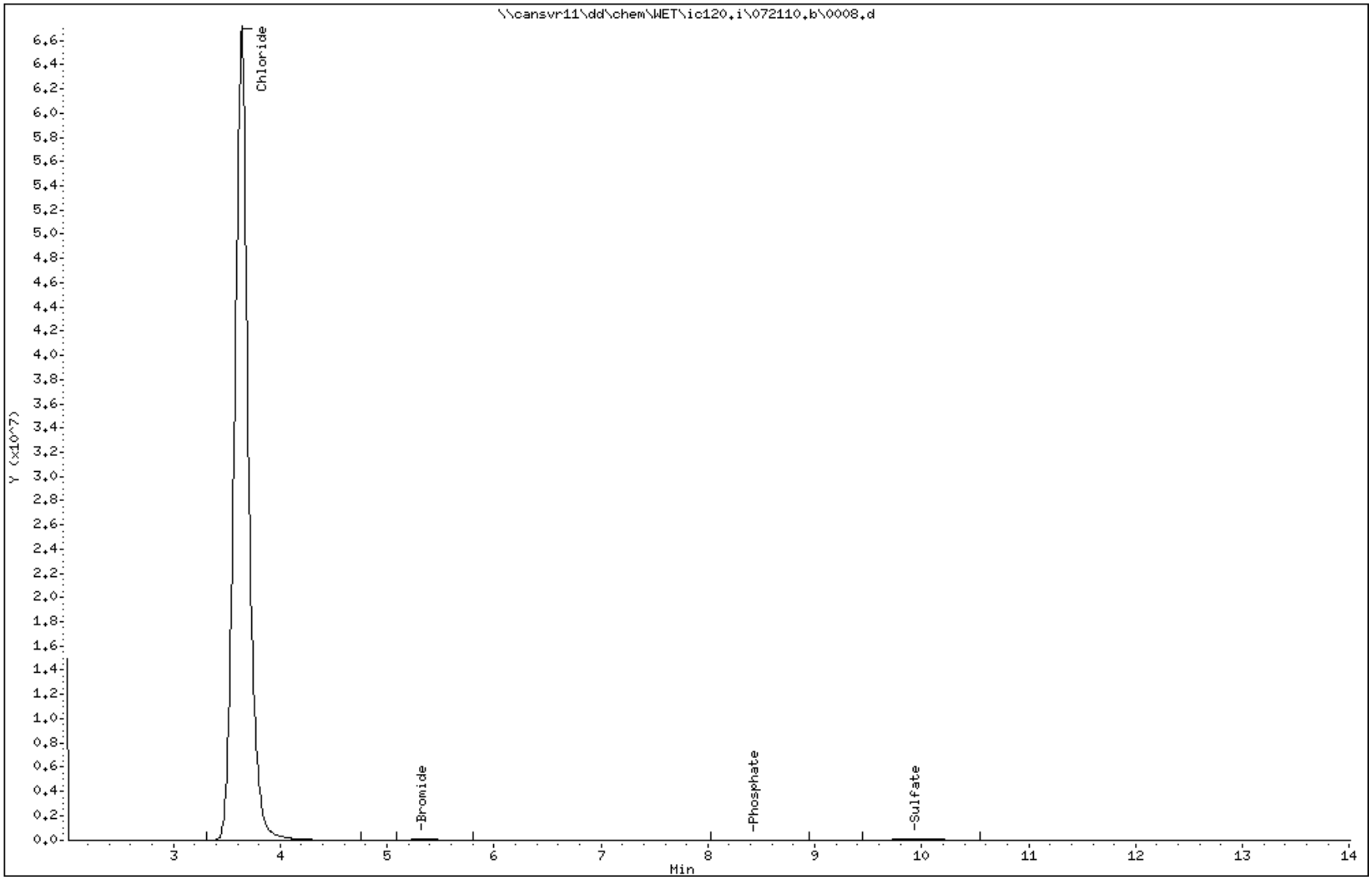
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.641	3.591	0.050	610338824	75.8039	37900
3 Nitrite	Compound Not Detected.					
4 Bromide	5.333	5.266	0.067	1388142	0.48783	243.9
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.441	8.100	0.341	19920	0.06850	34.25
7 Sulfate	9.950	9.816	0.134	3224981	0.61174	305.9(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0008.d
Date : 21-JUL-2010 15:53
Client ID:
Sample Info: L3XQ0,500
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0009.d
Report Date: 22-Jul-2010 08:09

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0009.d
Lab Smp Id: L4GJG
Inj Date : 21-JUL-2010 16:09
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJG
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

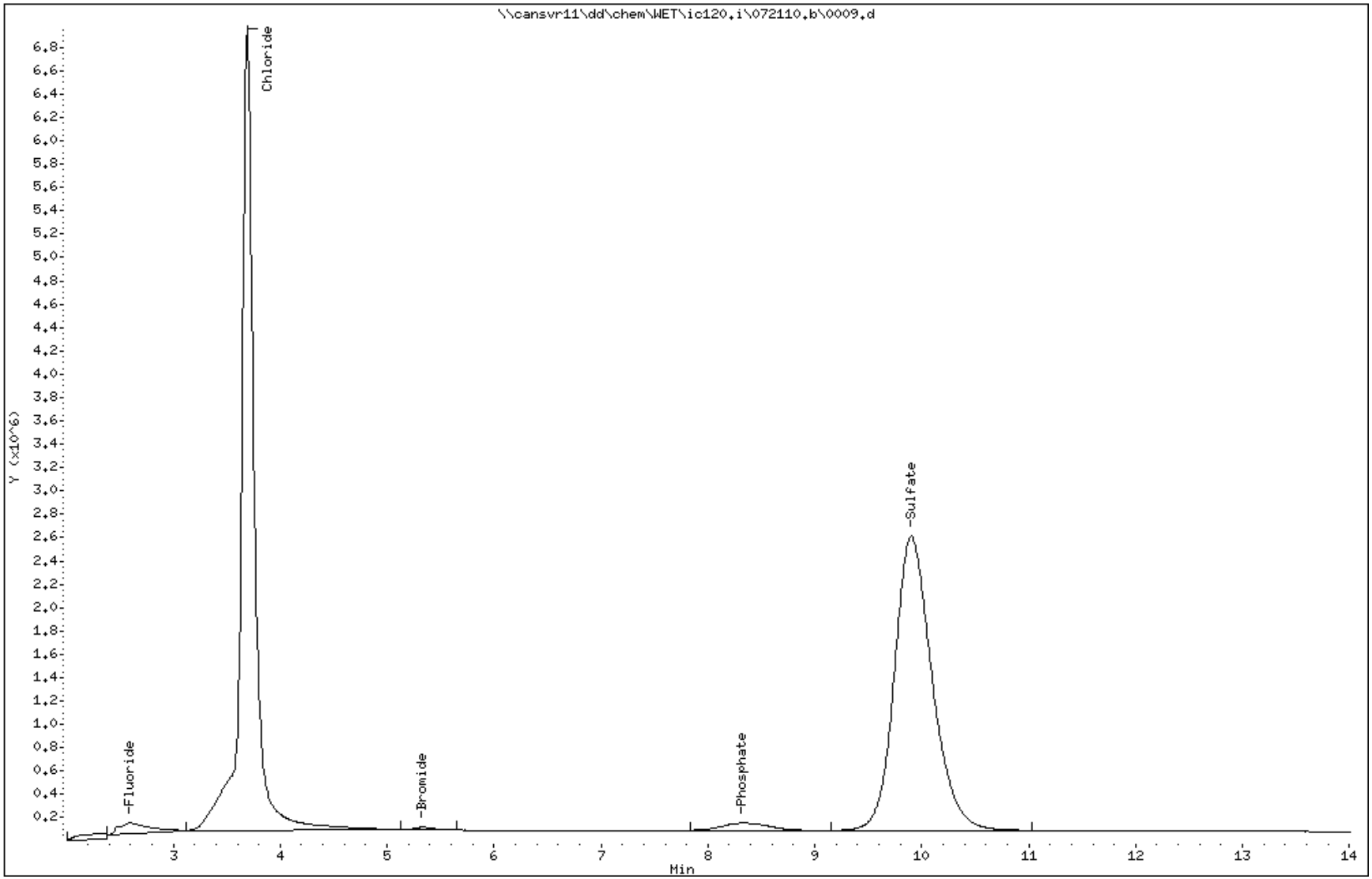
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.591	2.575	0.016	85417	0.09011	0.09011(M)
2 Chloride	3.691	3.600	0.091	59387507	7.37591	7.376(M)
3 Nitrite	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.325	8.116	0.209	61292	0.21026	0.2103
7 Sulfate	9.900	9.841	0.059	61658345	11.6958	11.70

QC Flag Legend

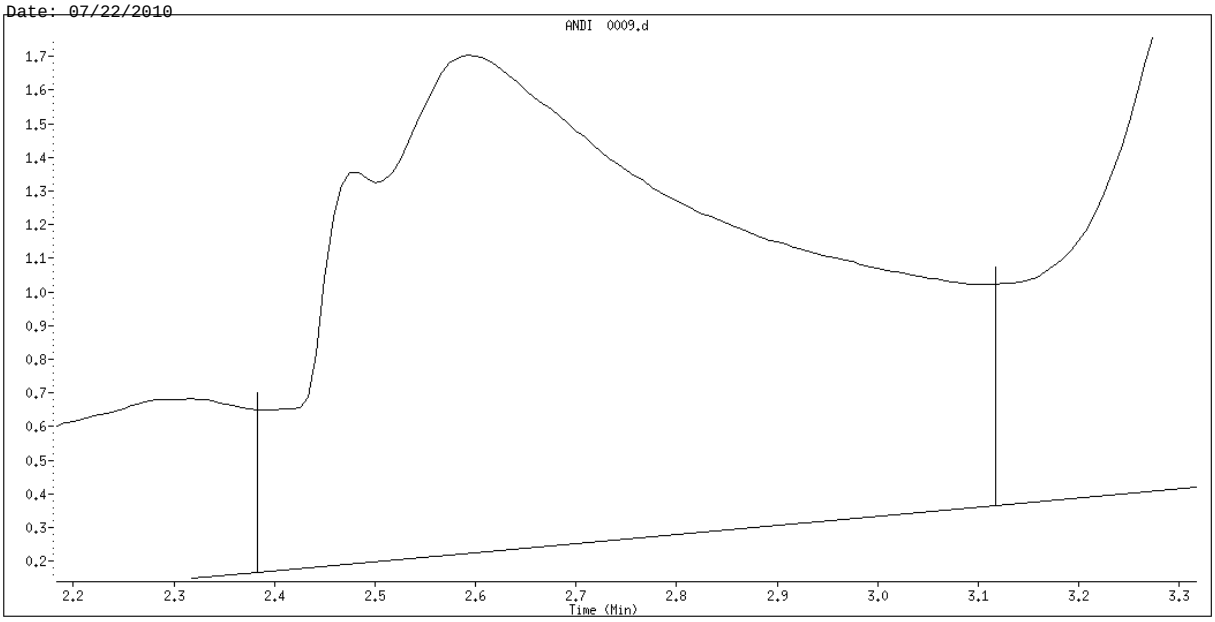
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0009.d
Date : 21-JUL-2010 16:09
Client ID:
Sample Info: L4GJG
Purge Volume: 1.0
Column phase: AS14

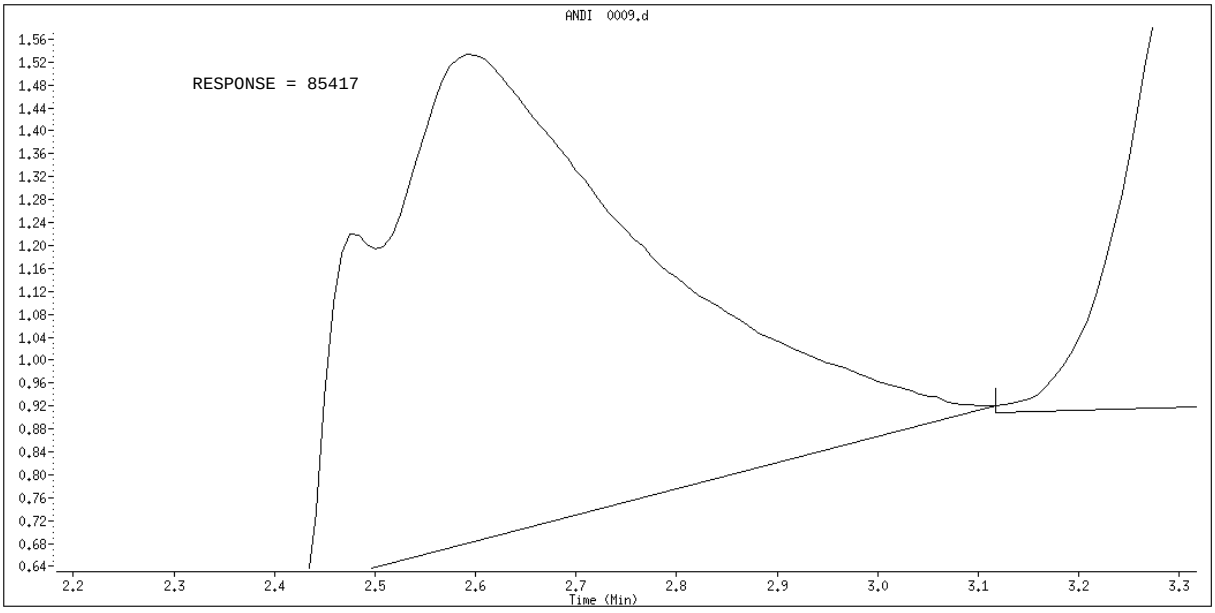
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0009.d
Inj. Date and Time: 21-JUL-2010 16:09
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/22/2010



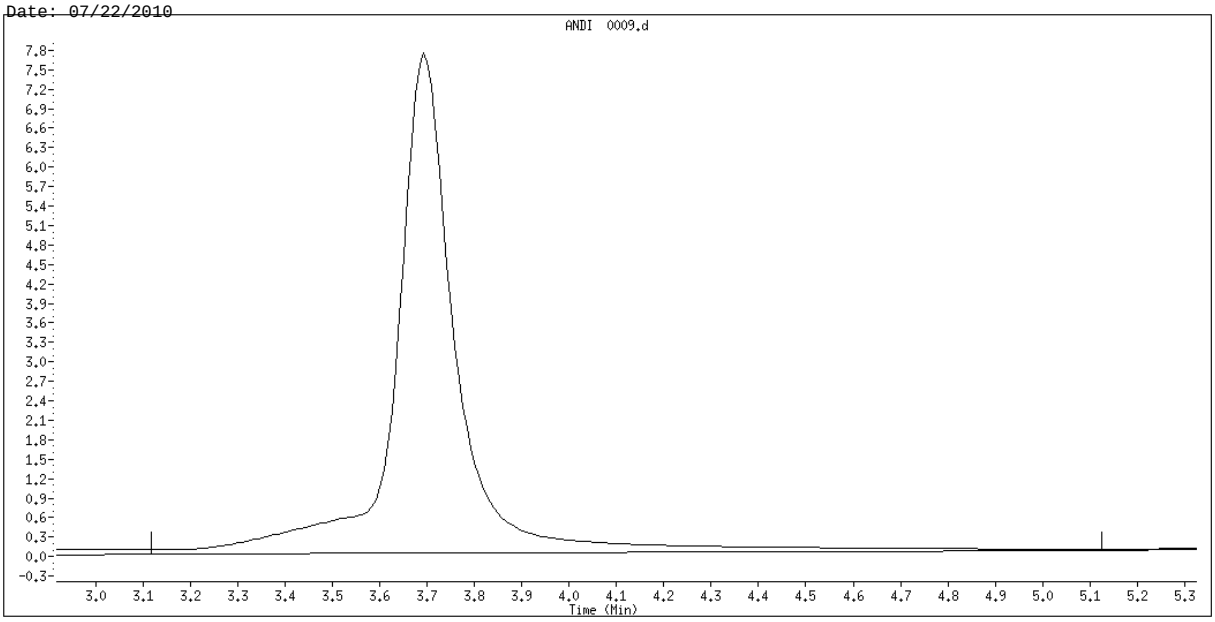
Original Integration



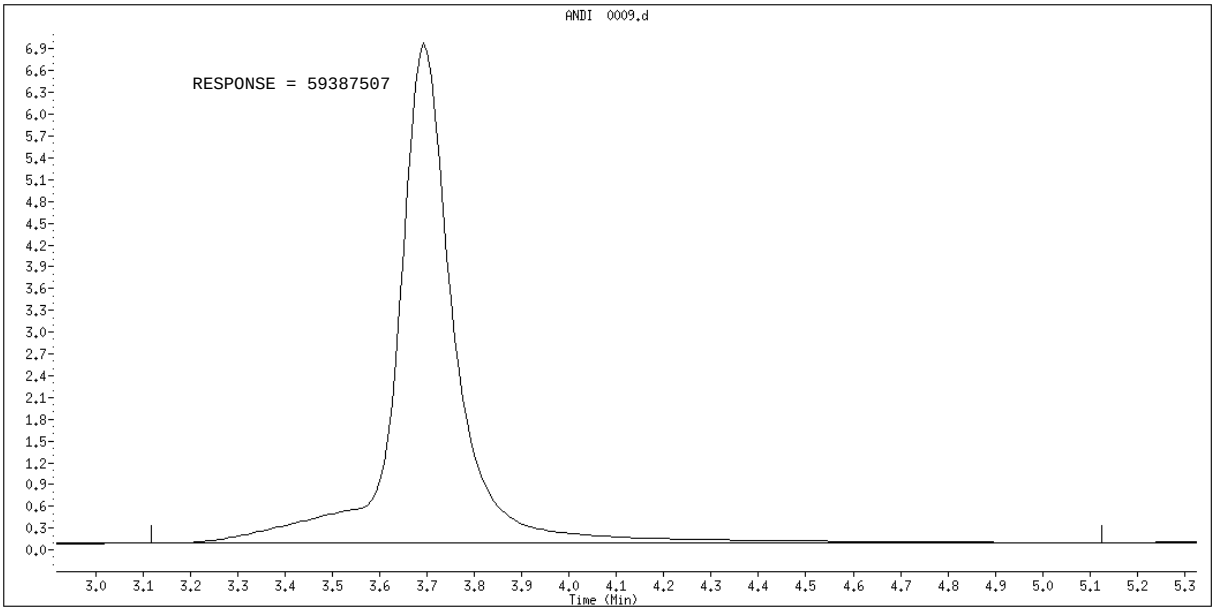
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0009.d
Inj. Date and Time: 21-JUL-2010 16:09
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/22/2010



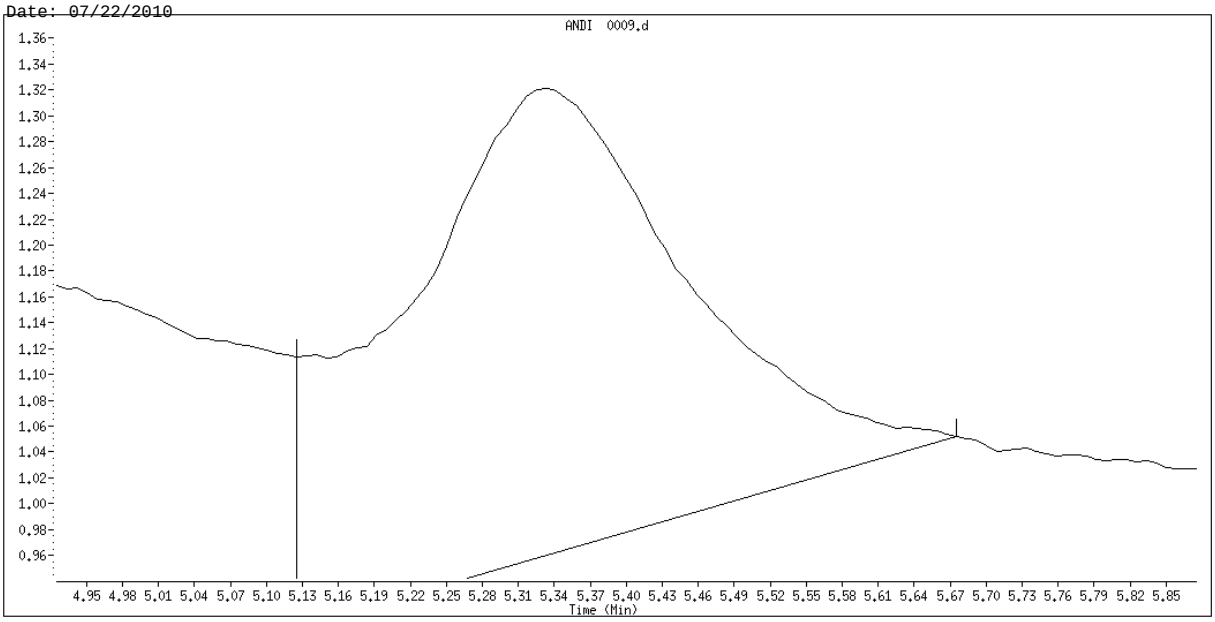
Original Integration



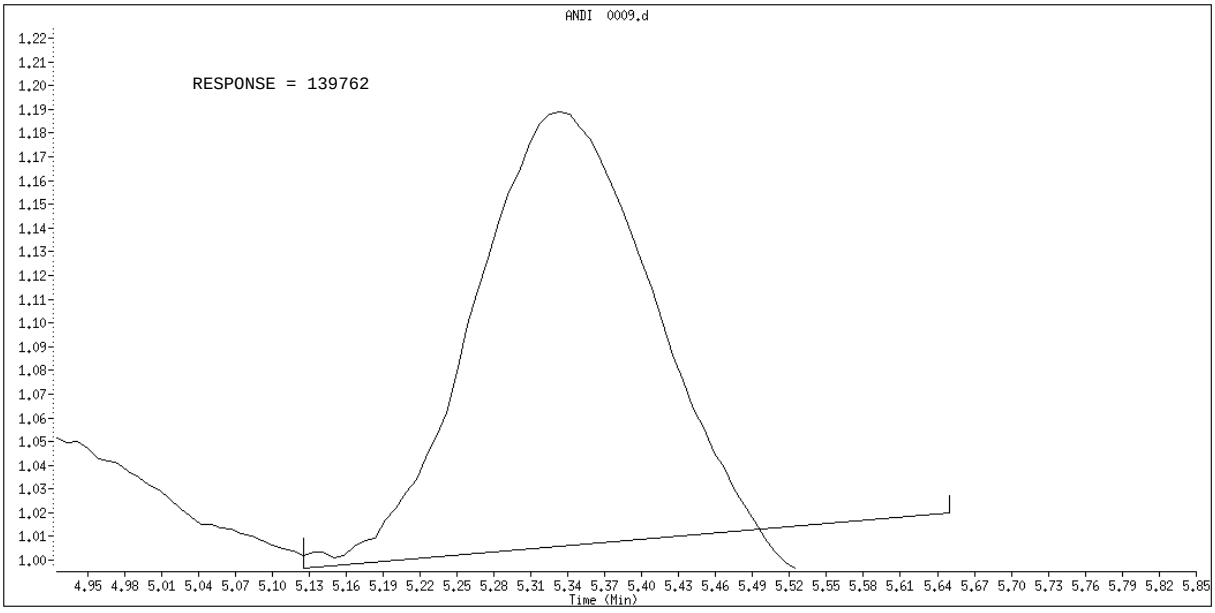
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0009.d
Inj. Date and Time: 21-JUL-2010 16:09
Instrument ID: ic120.i
Client ID:
Compound Name: Bromide
CAS #: Q85
Report Date: 07/22/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0010.d
Report Date: 22-Jul-2010 08:04

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0010.d
Lab Smp Id: L4GJG
Inj Date : 21-JUL-2010 16:25
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJG,20
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

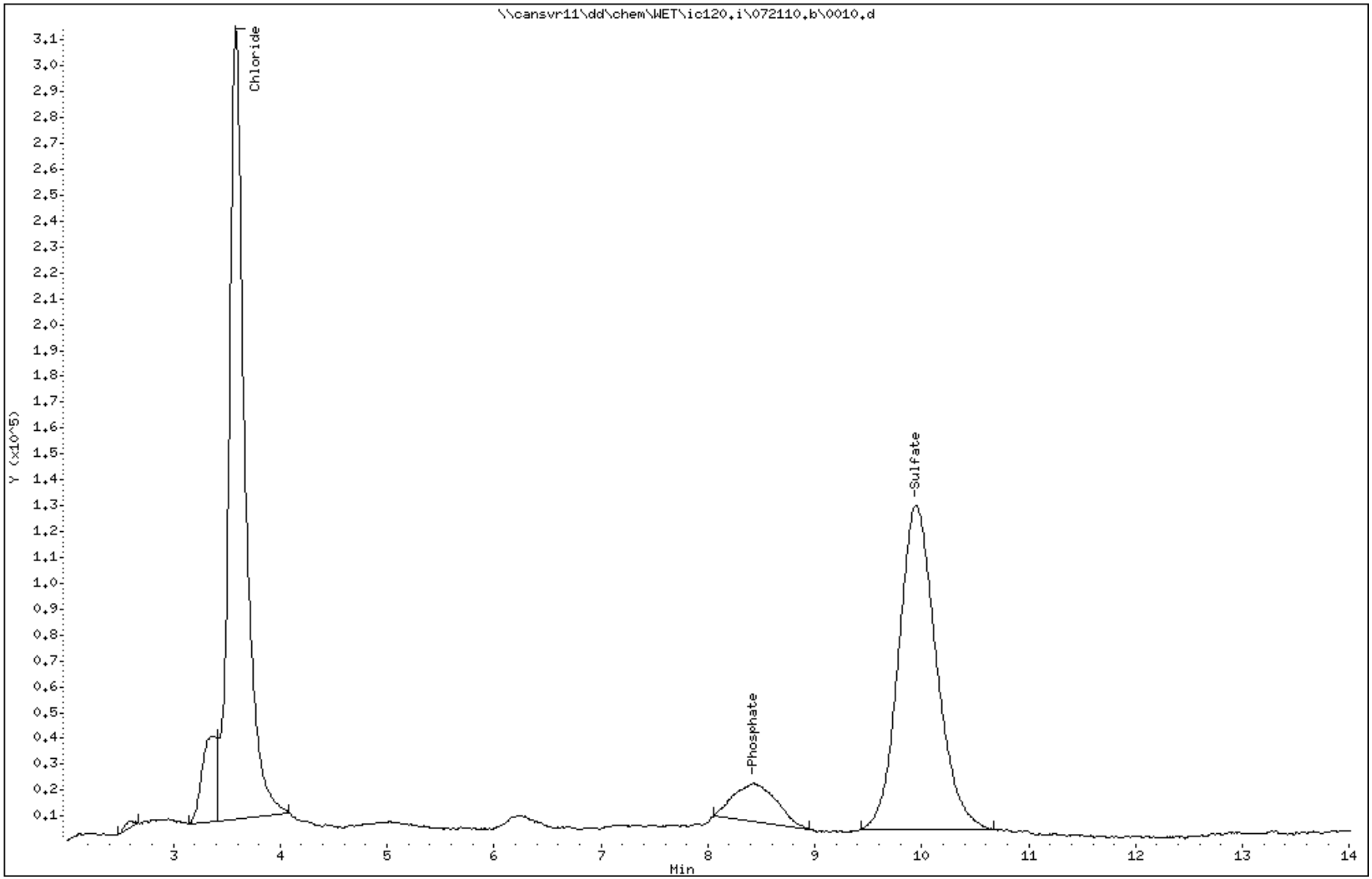
						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1	Fluoride	Compound Not Detected.					
2	Chloride	3.583	3.591	-0.008	3162467	0.39278	7.856(a)
3	Nitrite	Compound Not Detected.					
4	Bromide	Compound Not Detected.					
5	Nitrate	Compound Not Detected.					
6	Phosphate	8.425	8.100	0.325	14799	0.05090	1.018
7	Sulfate	9.950	9.816	0.134	3067306	0.58183	11.64(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0010.d
Date : 21-JUL-2010 16:25
Client ID:
Sample Info: L4GJG,20
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0011.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0011.d
Lab Smp Id: L4GJT ORG
Inj Date : 21-JUL-2010 16:42
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJT ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

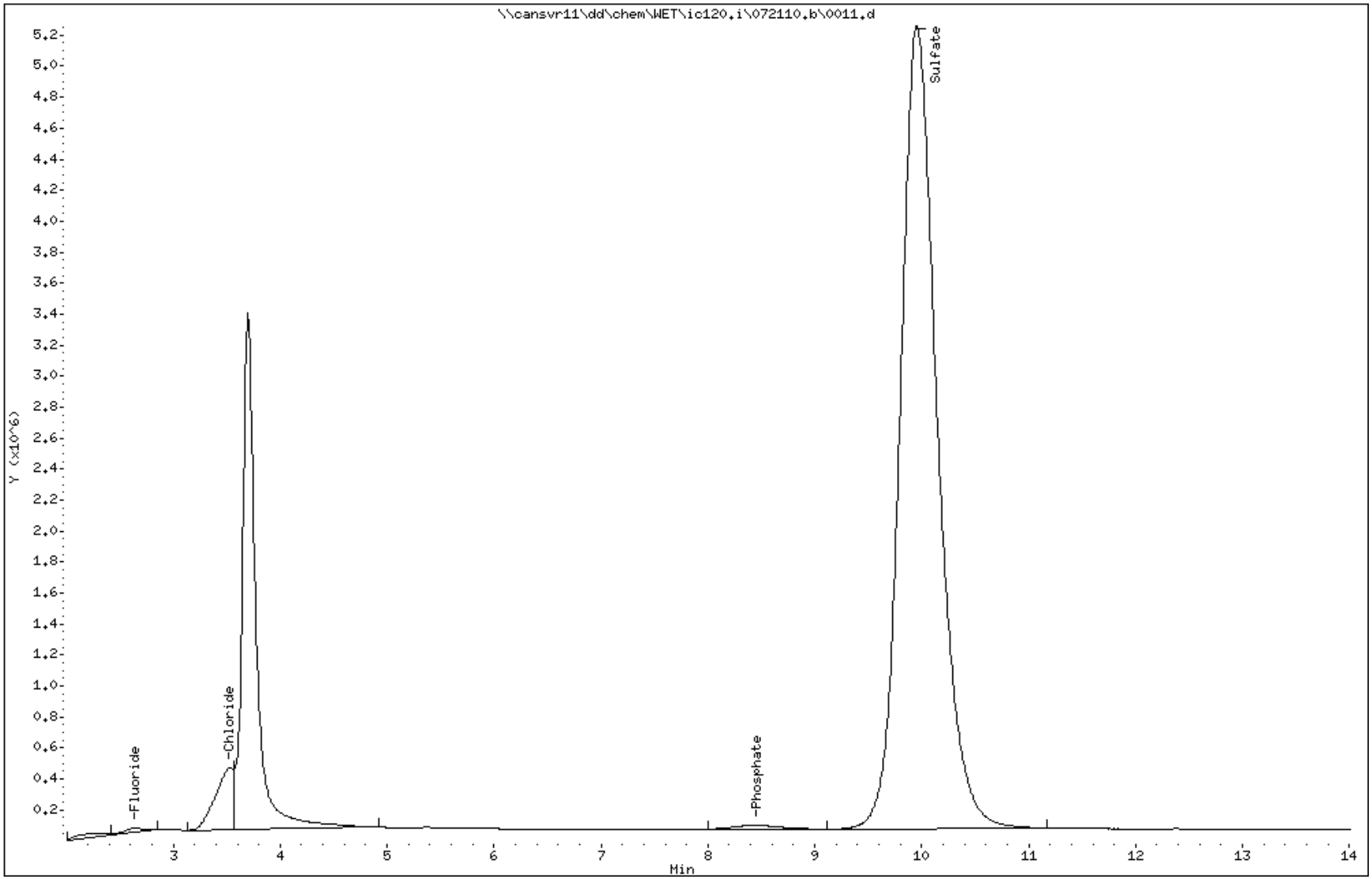
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.641	2.566	0.075	24582	0.02593	0.02593(a)
2 Chloride	3.525	3.591	-0.066	4509452	0.56007	0.5601(a)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.466	8.100	0.366	22932	0.07884	0.07884
7 Sulfate	9.950	9.816	0.134	124295123	23.5772	23.58

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0011.d
Date : 21-JUL-2010 16:42
Client ID:
Sample Info: L4GJT ORG
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0012.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0012.d
Lab Smp Id: L4GJT MS
Inj Date : 21-JUL-2010 16:58
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJT MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

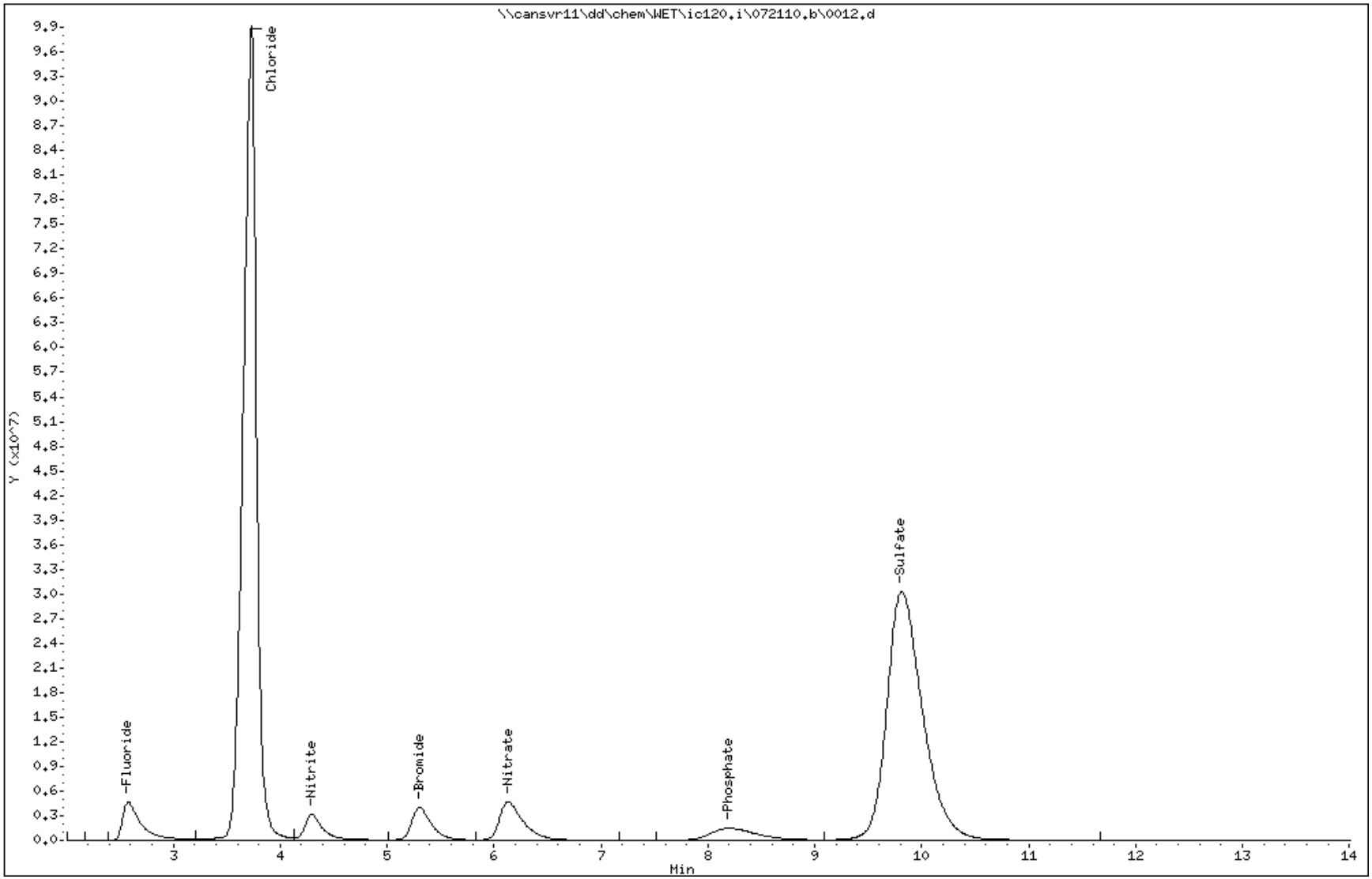
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.575	2.566	0.009	4679378	4.93674	4.937(R)
2 Chloride	3.733	3.591	0.142	858790077	106.662	106.7(R)
3 Nitrite	4.300	4.233	0.067	38800582	3.01811	3.018(R)
4 Bromide	5.308	5.266	0.042	51962648	18.2609	18.26(R)
5 Nitrate	6.133	6.116	0.017	73208206	4.54711	4.547(R)
6 Phosphate	8.200	8.100	0.100	1473662	4.64844	4.648(R)
7 Sulfate	9.808	9.816	-0.008	707037252	134.116	134.1(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0012.d
Date : 21-JUL-2010 16:58
Client ID:
Sample Info: L4GJT MS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0013.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0013.d
Lab Smp Id: L4GJT
Inj Date : 21-JUL-2010 17:15
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJT,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

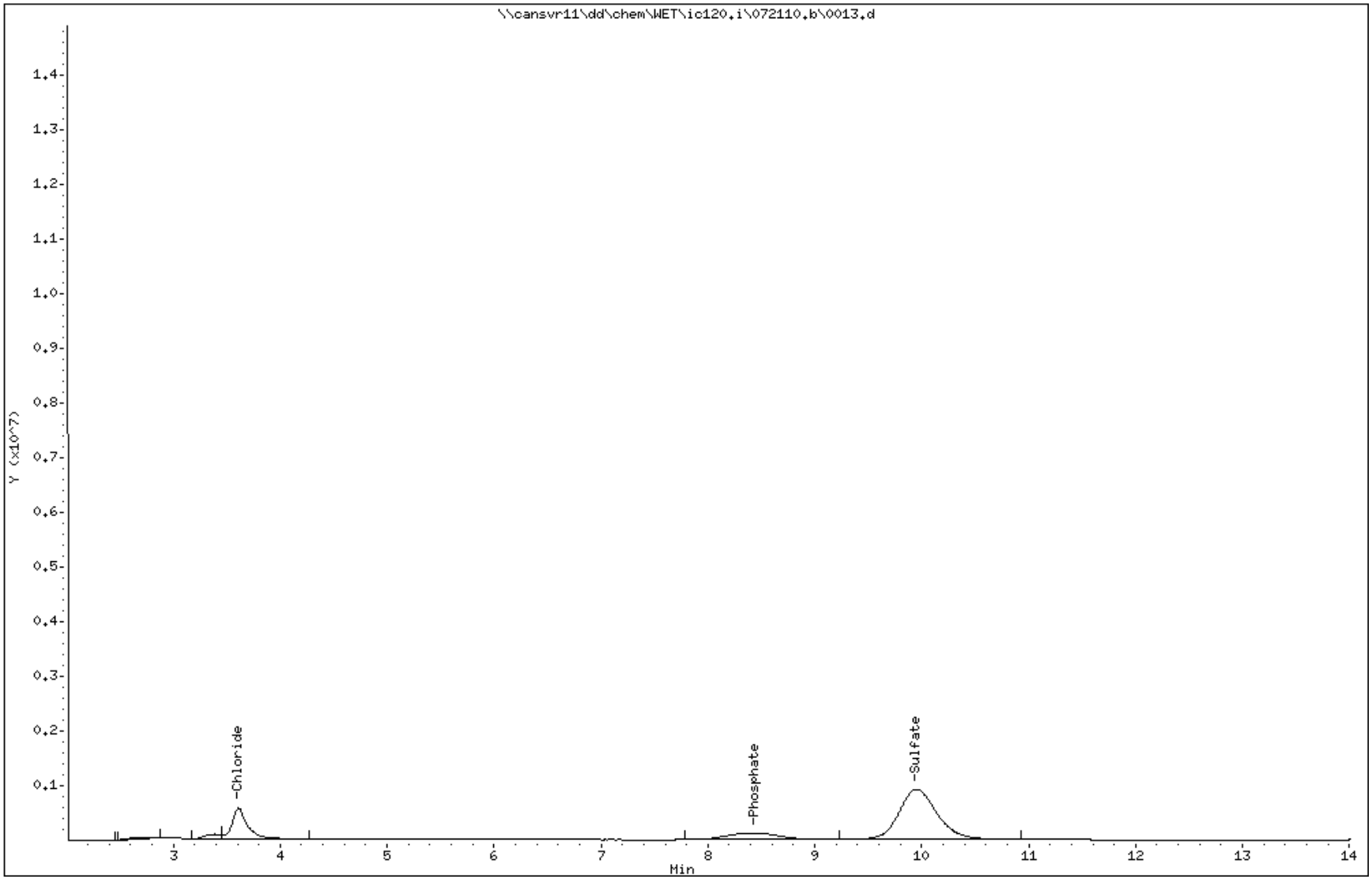
Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.608	3.591	0.017	5823443	0.72327	3.616(a)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.433	8.100	0.333	120933	0.41345	2.067
7 Sulfate	9.950	9.816	0.134	22839189	4.33231	21.66

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0013.d
Date : 21-JUL-2010 17:15
Client ID:
Instrument: ic120.i
Sample Info: L4GJT,5
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0014.d
Report Date: 22-Jul-2010 08:10

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0014.d
Lab Smp Id: L4GJV
Inj Date : 21-JUL-2010 17:31
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJV
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

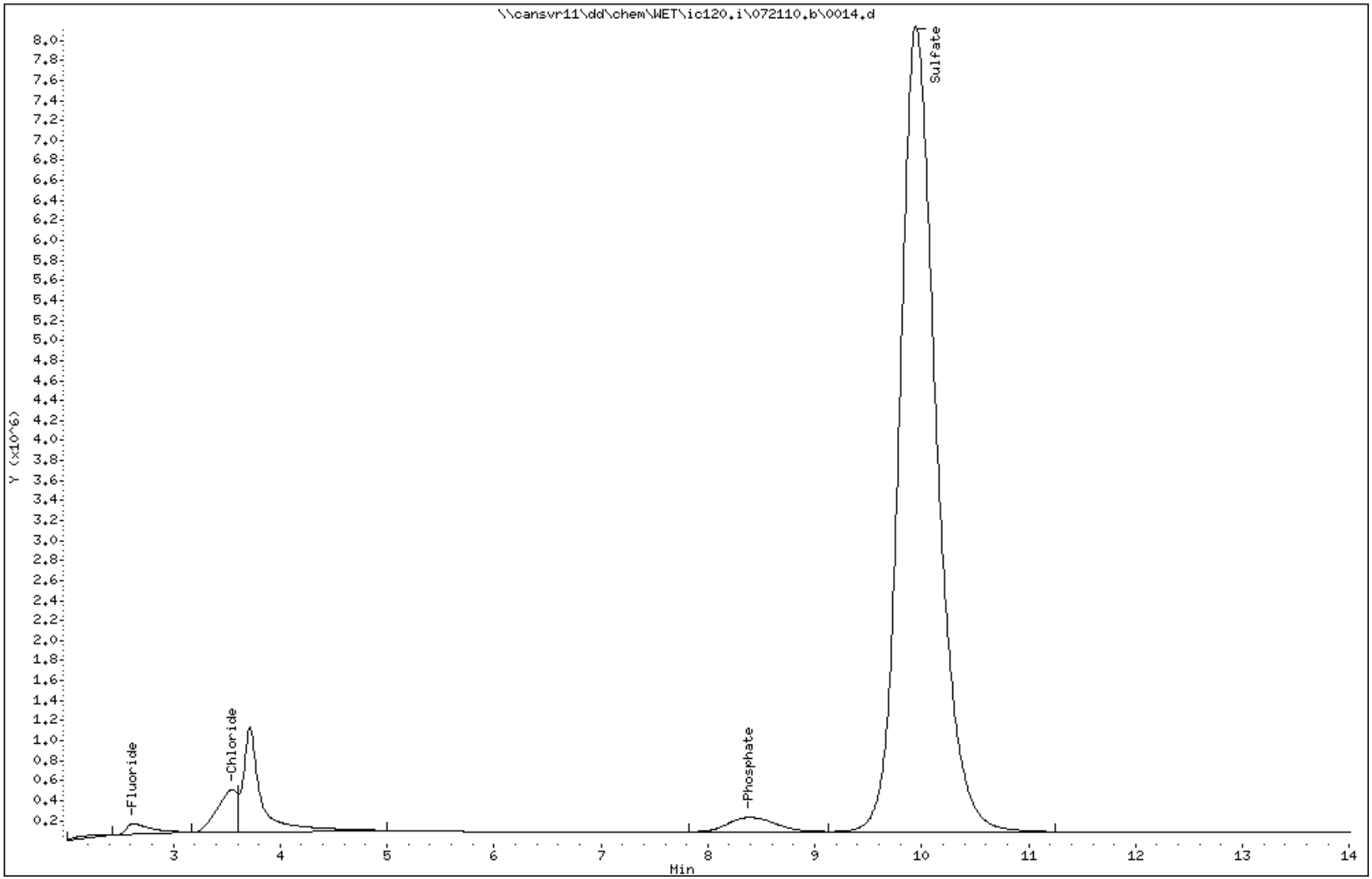
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.625	2.575	0.050	105260	0.11105	0.1110(M)
2 Chloride	3.550	3.600	-0.050	5516683	0.68517	0.6852(aM)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.391	8.116	0.275	142586	0.48687	0.4869
7 Sulfate	9.941	9.841	0.100	190825366	36.1972	36.20

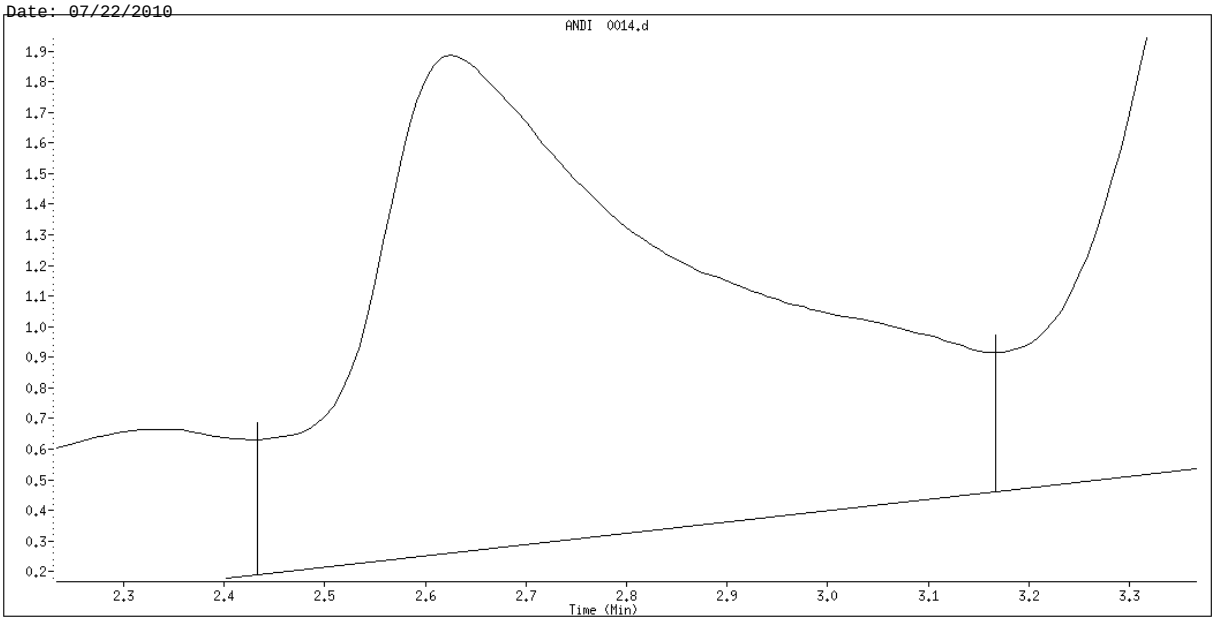
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

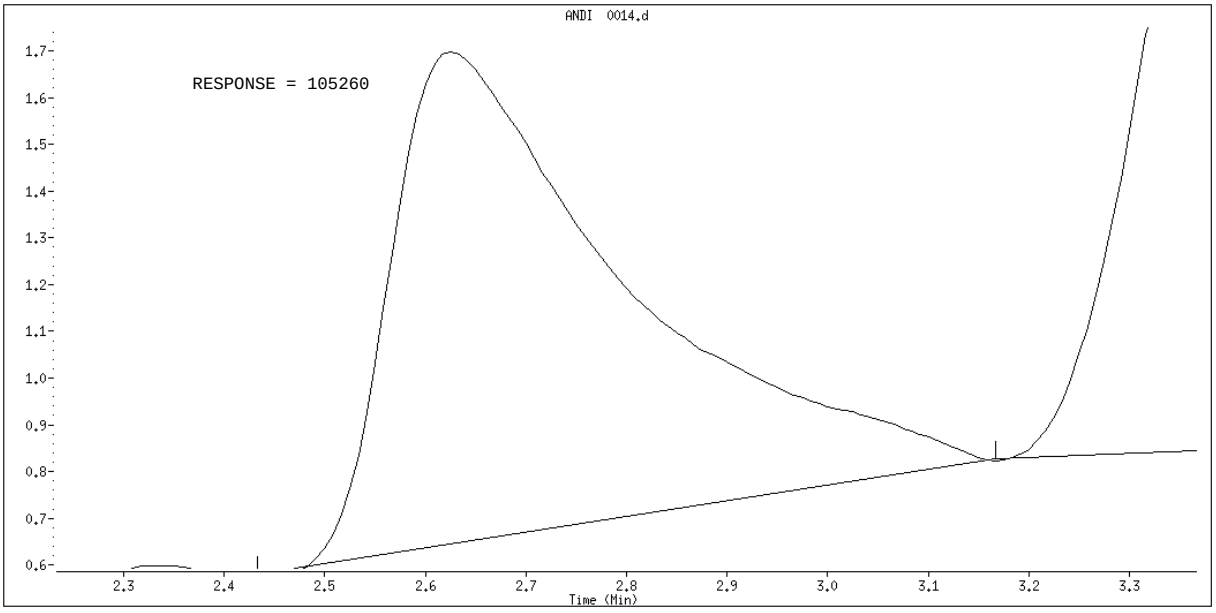
Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0014.d
Date : 21-JUL-2010 17:31
Client ID:
Instrument: ic120.i
Sample Info: L4GJV
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0014.d
Inj. Date and Time: 21-JUL-2010 17:31
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/22/2010



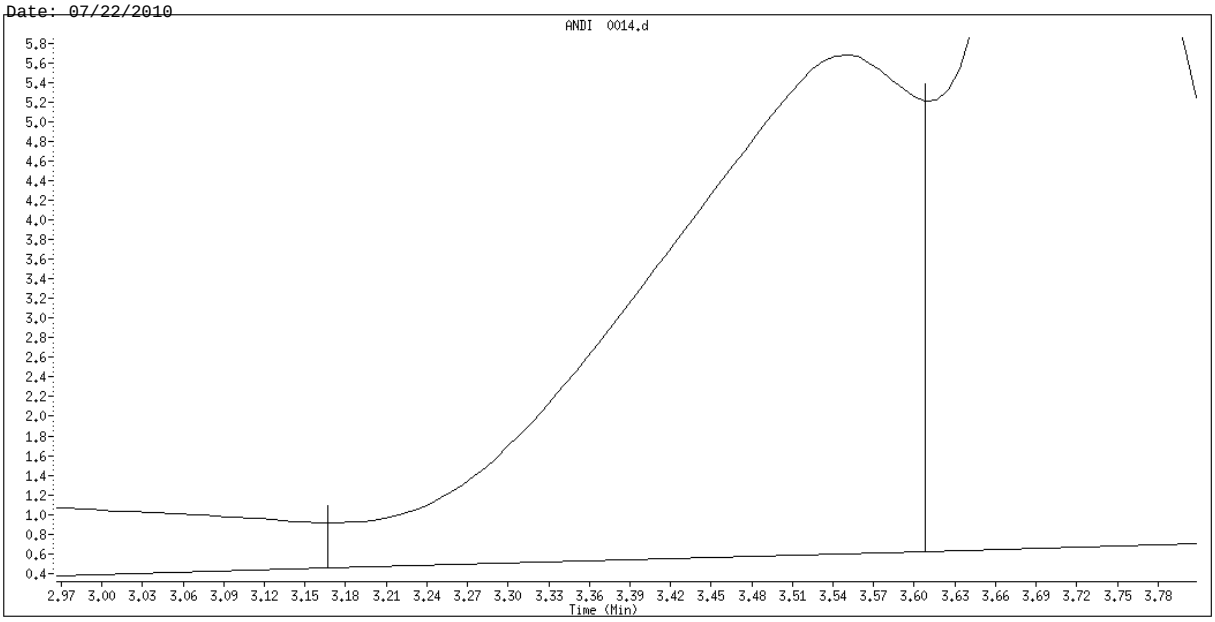
Original Integration



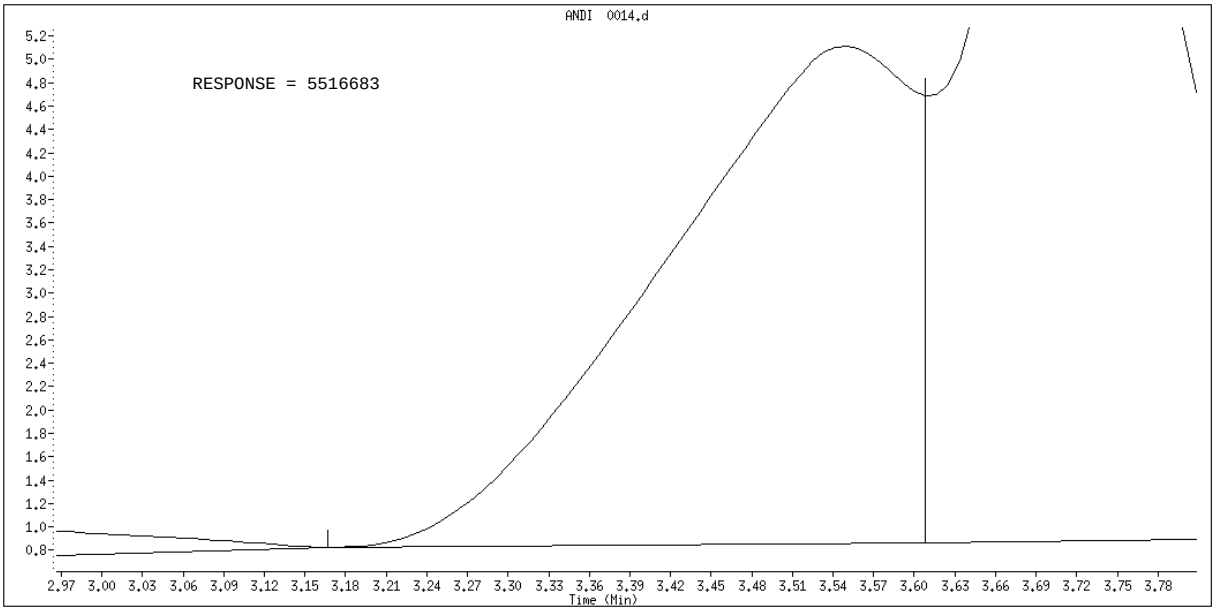
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0014.d
Inj. Date and Time: 21-JUL-2010 17:31
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/22/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0015.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 21-JUL-2010 17:48
Lab File ID: 0015.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	974191	974191	0.010	-2.77715	10.00000	Averaged
2 Chloride	8051545	8516164	8516164	0.010	-5.77055	10.00000	Averaged
3 Nitrite	12855941	13499959	13499959	0.010	-5.00950	10.00000	Averaged
4 Bromide	2845563	2882130	2882130	0.010	-1.28504	10.00000	Averaged
5 Nitrate	16099942	16107949	16107949	0.010	-0.04973	10.00000	Averaged
6 Phosphate	2.50000	2.52430	306666	0.010	-0.97185	10.00000	Quadratic
7 Sulfate	5271827	5297965	5297965	0.010	-0.49580	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0015.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0015.d
Lab Smp Id: CCV
Inj Date : 21-JUL-2010 17:48
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

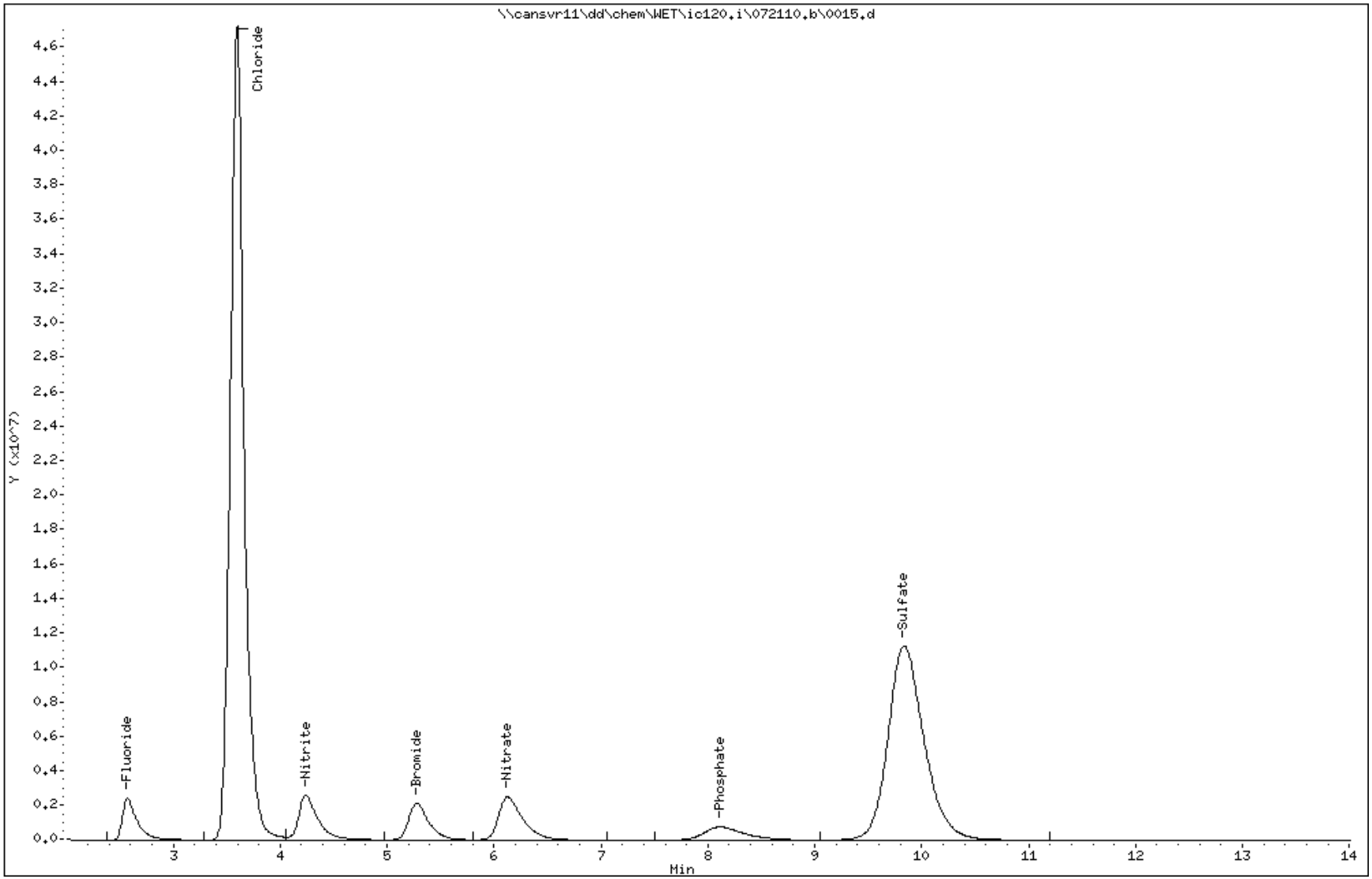
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.575	2.575	0.000	2435477	2.50000	2.569
2 Chloride	3.600	3.600	0.000	425808196	50.0000	52.88
3 Nitrite	4.241	4.241	0.000	33749898	2.50000	2.625
4 Bromide	5.275	5.275	0.000	28821296	10.0000	10.13
5 Nitrate	6.125	6.125	0.000	40269873	2.50000	2.501
6 Phosphate	8.116	8.116	0.000	766664	2.50000	2.524
7 Sulfate	9.833	9.833	0.000	264898231	50.0000	50.25

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0015.d
Date : 21-JUL-2010 17:48
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0016.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

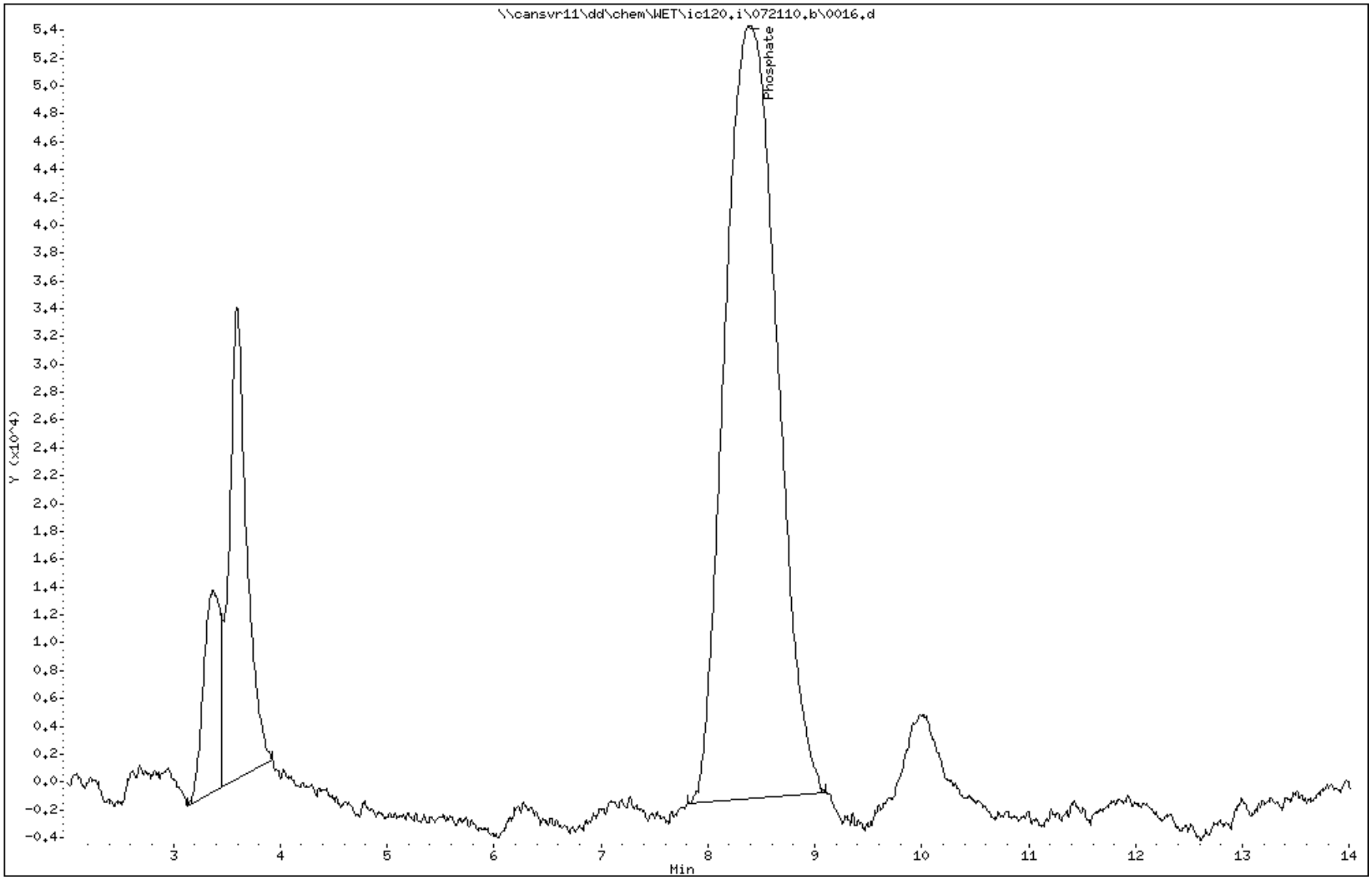
Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0016.d
Lab Smp Id: CCB
Inj Date : 21-JUL-2010 18:04
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	Compound Not Detected.						
2 Chloride	Compound Not Detected.						
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	8.383	8.116	0.267	55528		0.19055	0.1906
7 Sulfate	Compound Not Detected.						

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0016.d
Date : 21-JUL-2010 18:04
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0017.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0017.d
Lab Smp Id: L4GJ0
Inj Date : 21-JUL-2010 18:20
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJ0
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

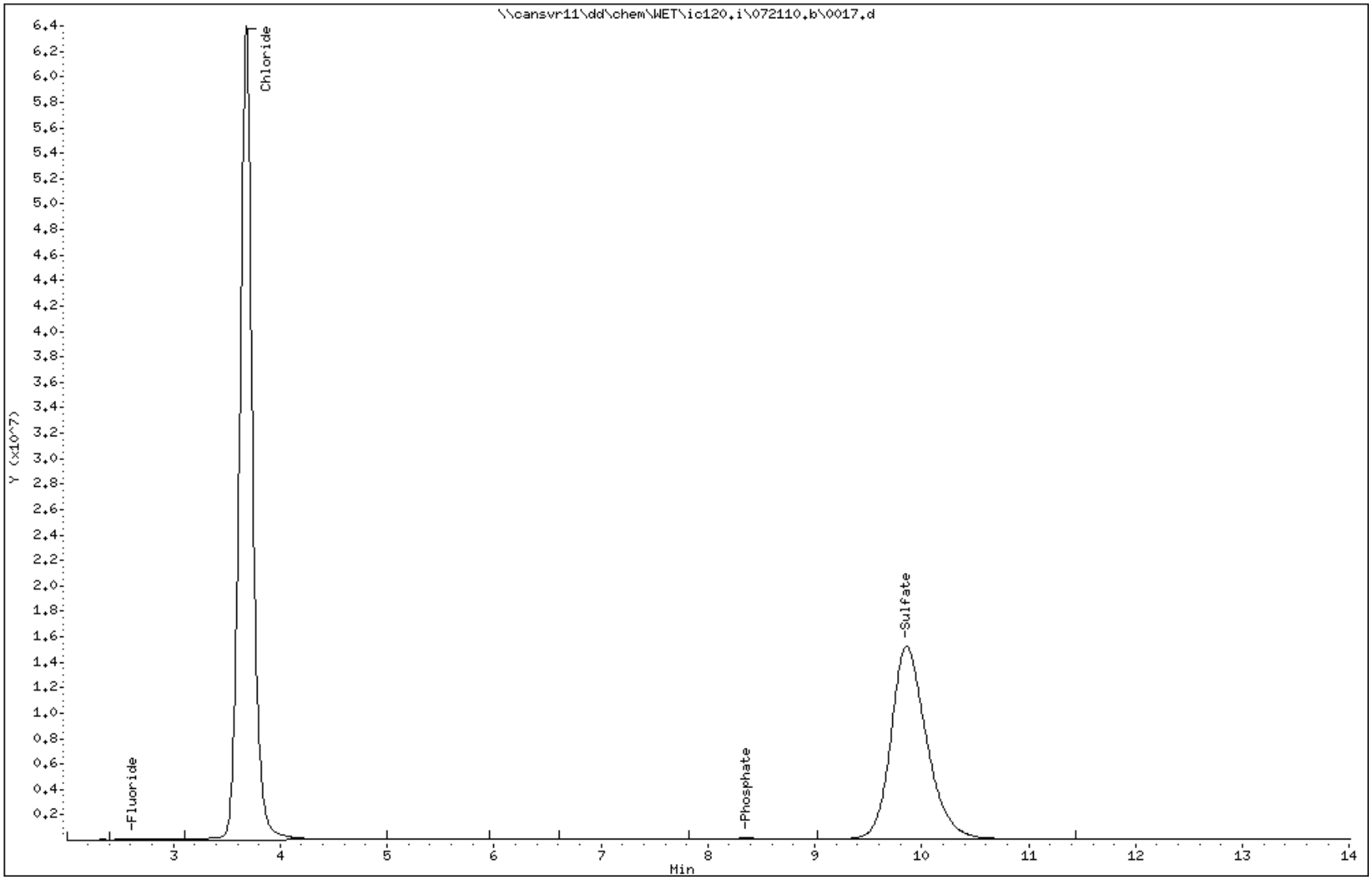
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.625	2.575	0.050	63545	0.06704	0.06704
2 Chloride	3.683	3.600	0.083	541035280	67.1965	67.20
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.358	8.116	0.242	78916	0.27045	0.2704
7 Sulfate	9.858	9.833	0.025	353461708	67.0473	67.05

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0017.d
Date : 21-JUL-2010 18:20
Client ID:
Sample Info: L4GJ0
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0018.d
Report Date: 22-Jul-2010 08:11

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0018.d
Lab Smp Id: L4GJ1
Inj Date : 21-JUL-2010 18:37
Operator : 001754 Inst ID: ic120.i
Smp Info : L4GJ1
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

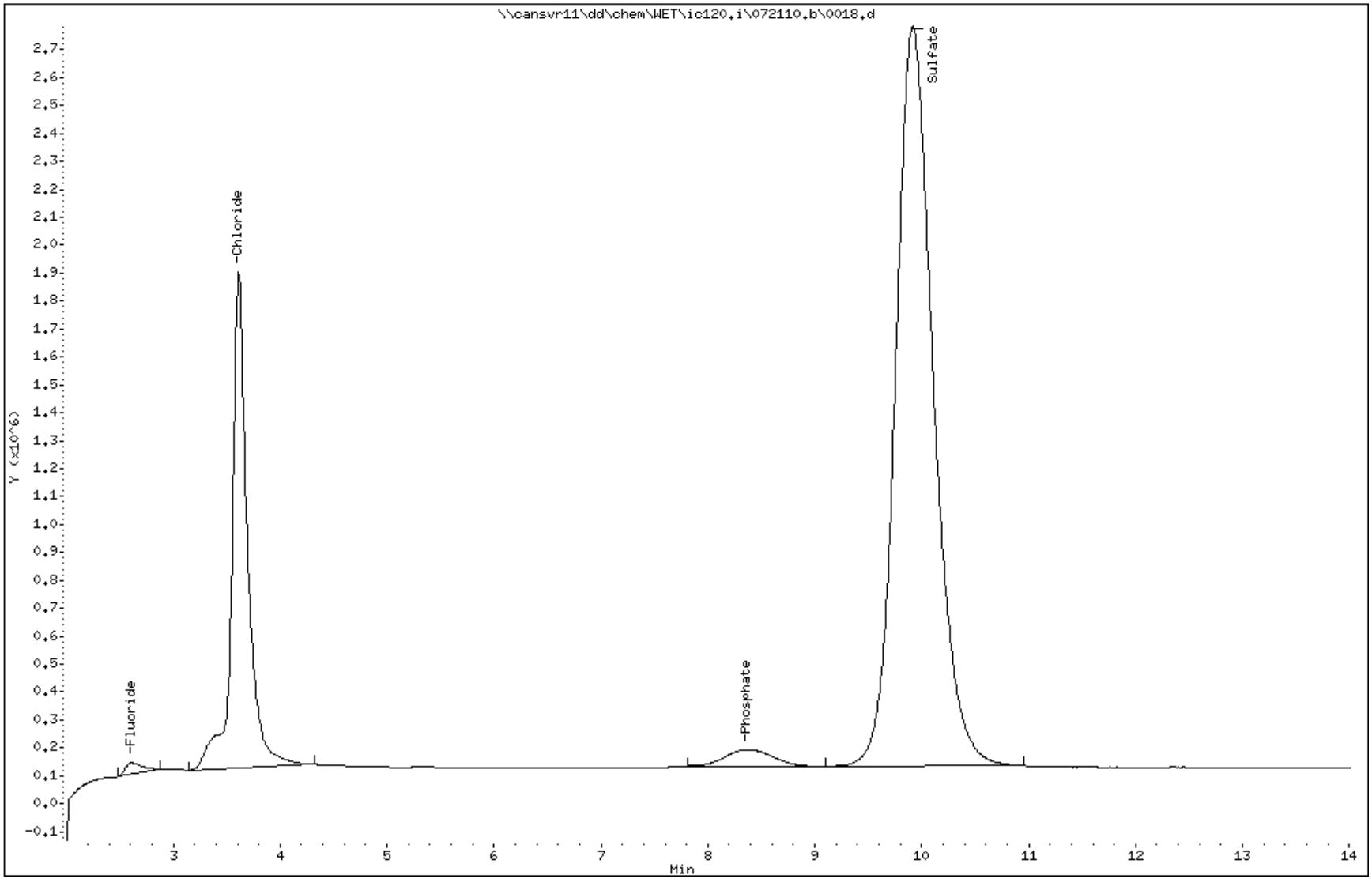
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.608	2.575	0.033	40324	0.04254	0.04254(aM)
2 Chloride	3.608	3.600	0.008	18306345	2.27364	2.274
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.358	8.116	0.242	59035	0.20254	0.2025
7 Sulfate	9.916	9.841	0.075	65081897	12.3452	12.34

QC Flag Legend

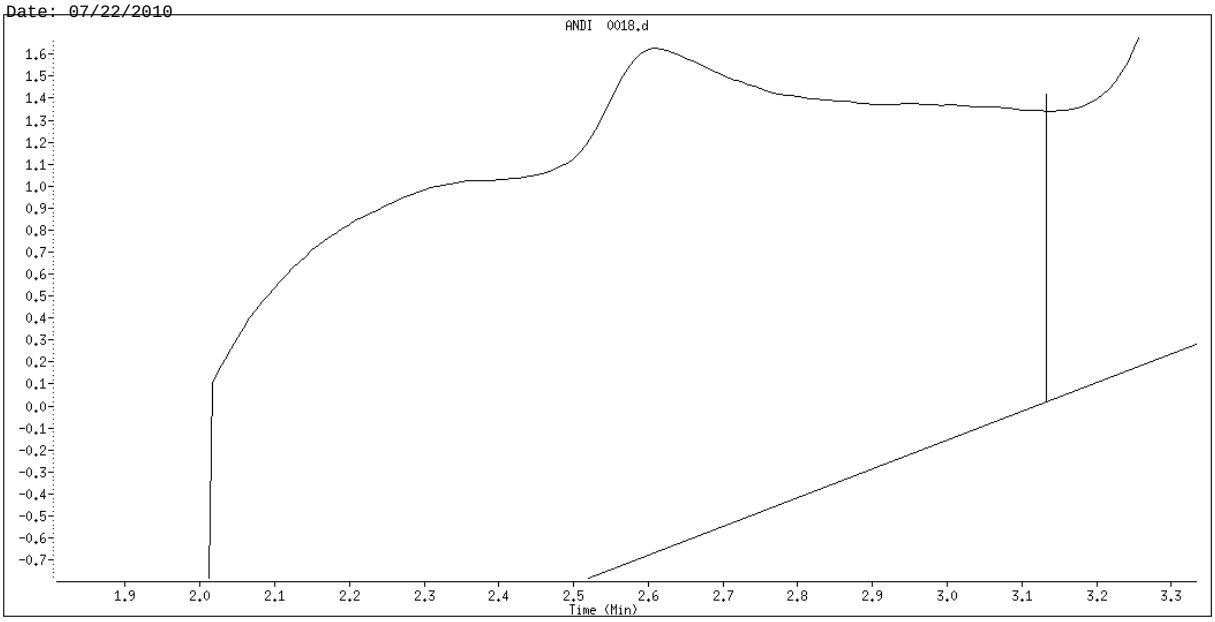
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0018.d
Date : 21-JUL-2010 18:37
Client ID:
Sample Info: L4GJ1
Purge Volume: 1.0
Column phase: AS14

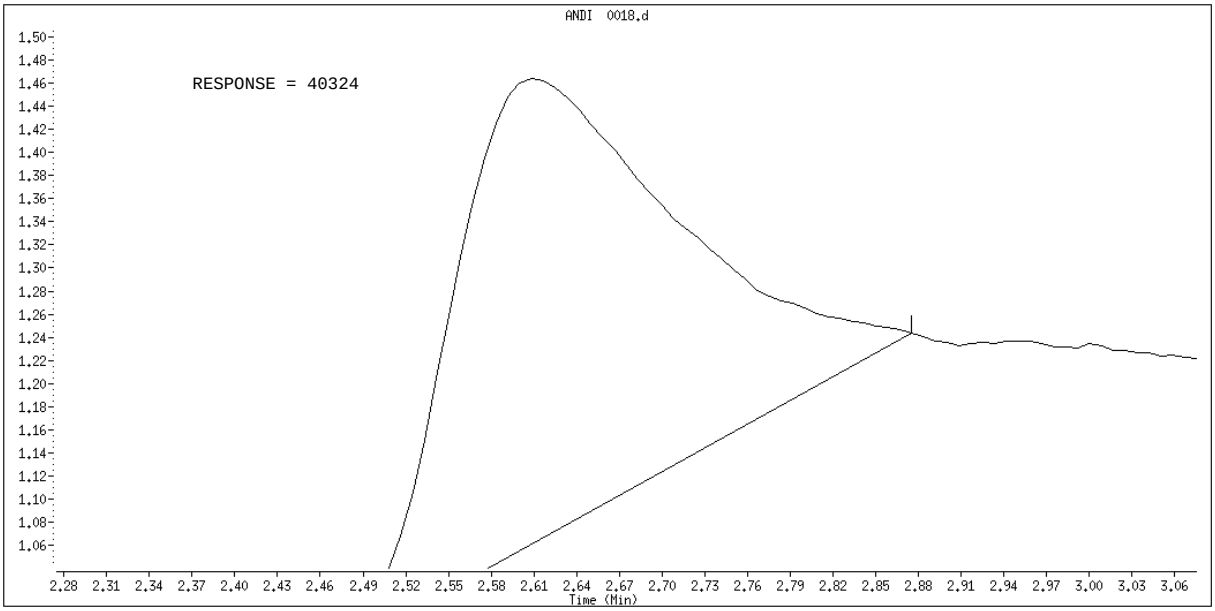
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0018.d
Inj. Date and Time: 21-JUL-2010 18:37
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/22/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0019.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0019.d
Lab Smp Id: L3XQT
Inj Date : 21-JUL-2010 18:53
Operator : 001754 Inst ID: ic120.i
Smp Info : L3XQT
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

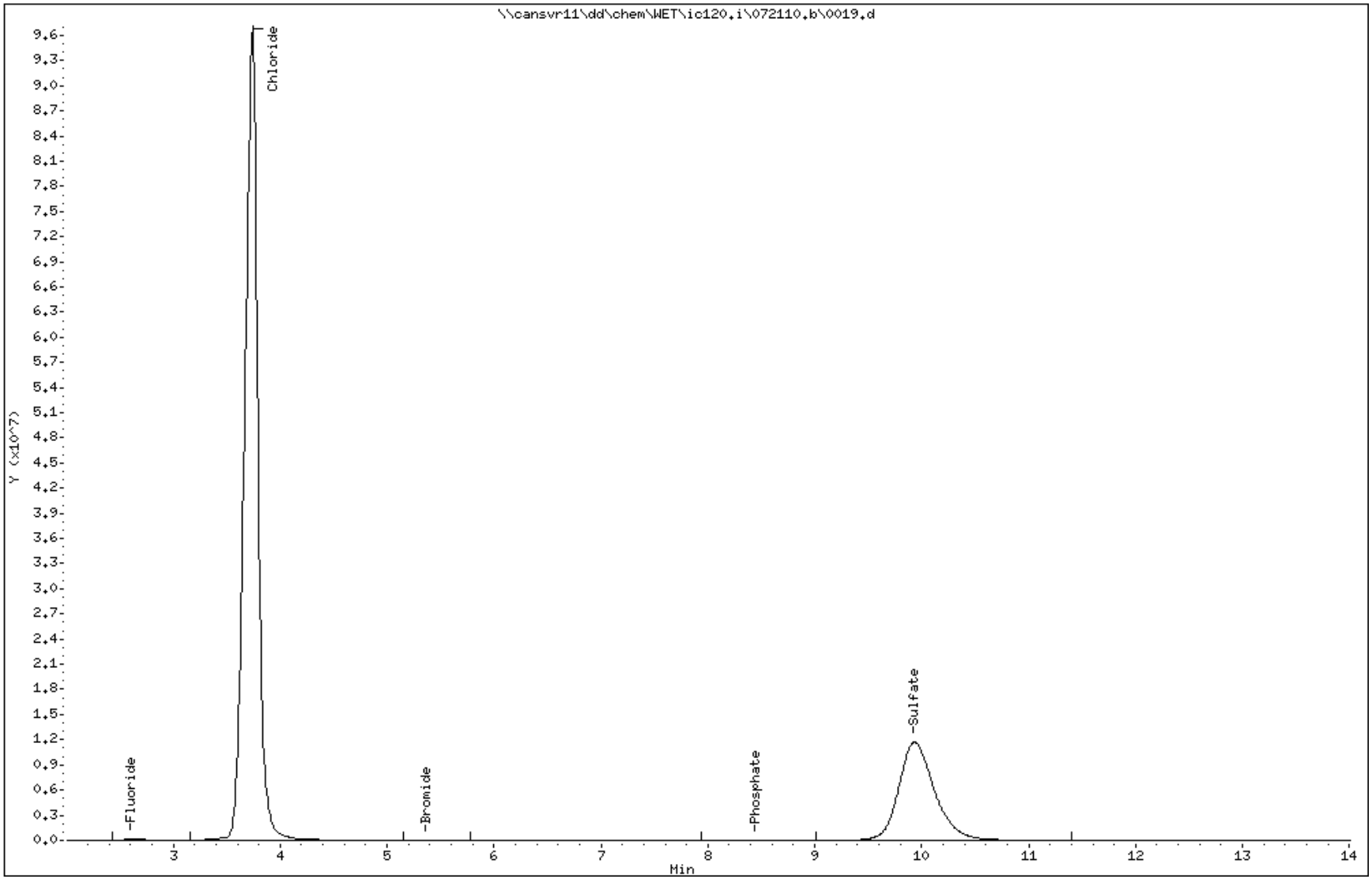
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.608	2.575	0.033	173614		0.18316	0.1832
2 Chloride	3.741	3.600	0.141	826930674		102.705	102.7
3 Nitrite	Compound Not Detected.						
4 Bromide	5.366	5.275	0.091	744793		0.26174	0.2617
5 Nitrate	Compound Not Detected.						
6 Phosphate	8.450	8.116	0.334	27500		0.09452	0.09452
7 Sulfate	9.933	9.833	0.100	272266475		51.6456	51.64

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0019.d
Date : 21-JUL-2010 18:53
Client ID:
Sample Info: L3XQT
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0020.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0020.d
Lab Smp Id: L4G0Q
Inj Date : 21-JUL-2010 19:10
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G0Q
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

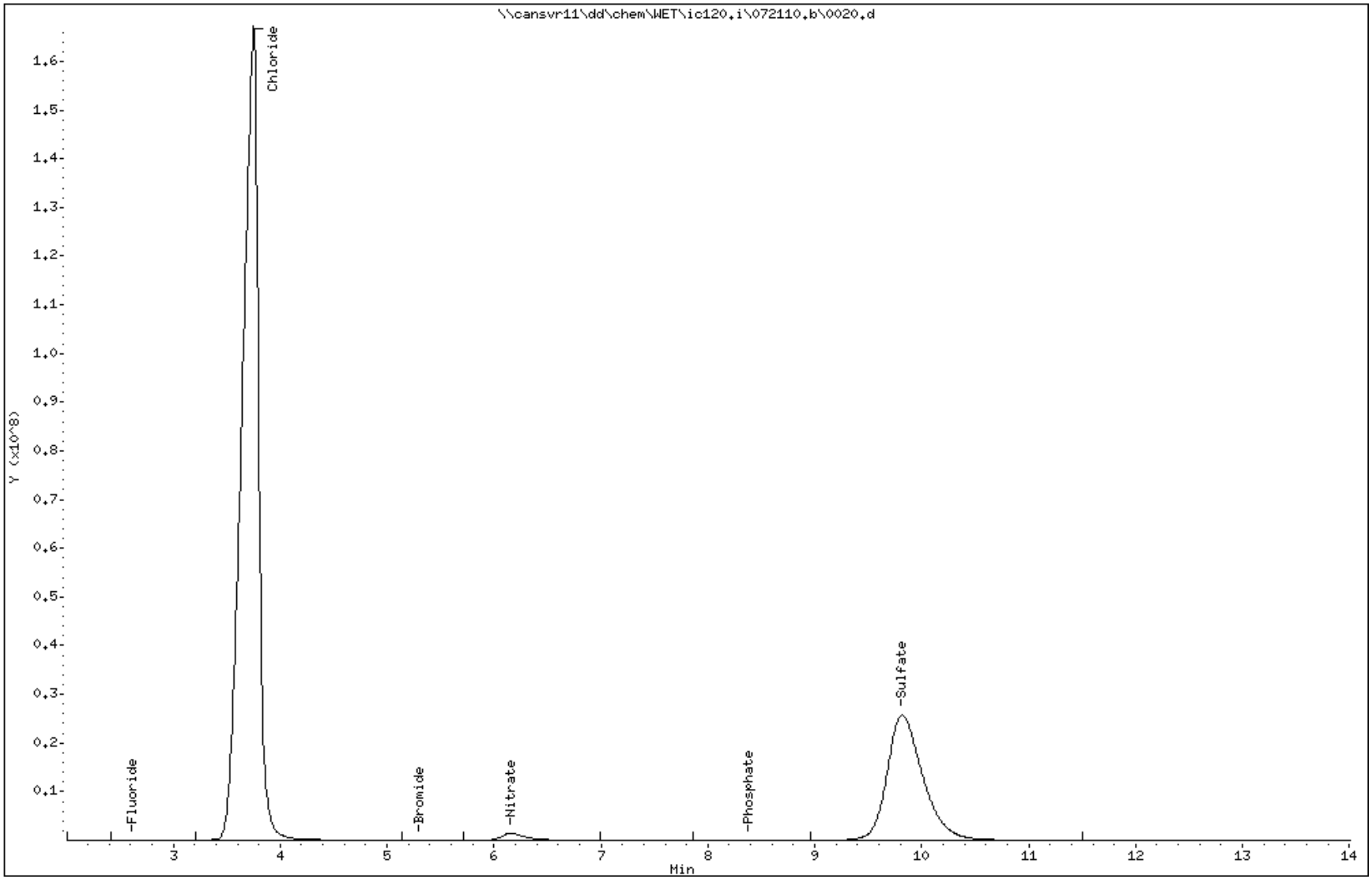
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.616	2.575	0.041	41832	0.04413	0.04413(a)
2 Chloride	3.750	3.600	0.150	1788629246	222.147	222.1(A)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.308	5.275	0.033	973558	0.34213	0.3421
5 Nitrate	6.158	6.125	0.033	21882442	1.35916	1.359
6 Phosphate	8.383	8.116	0.267	41484	0.14247	0.1425
7 Sulfate	9.816	9.833	-0.017	596831708	113.212	113.2

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0020.d
Date : 21-JUL-2010 19:10
Client ID:
Sample Info: L4G0Q
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0021.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0021.d
Lab Smp Id: L4G02
Inj Date : 21-JUL-2010 19:26
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G02
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

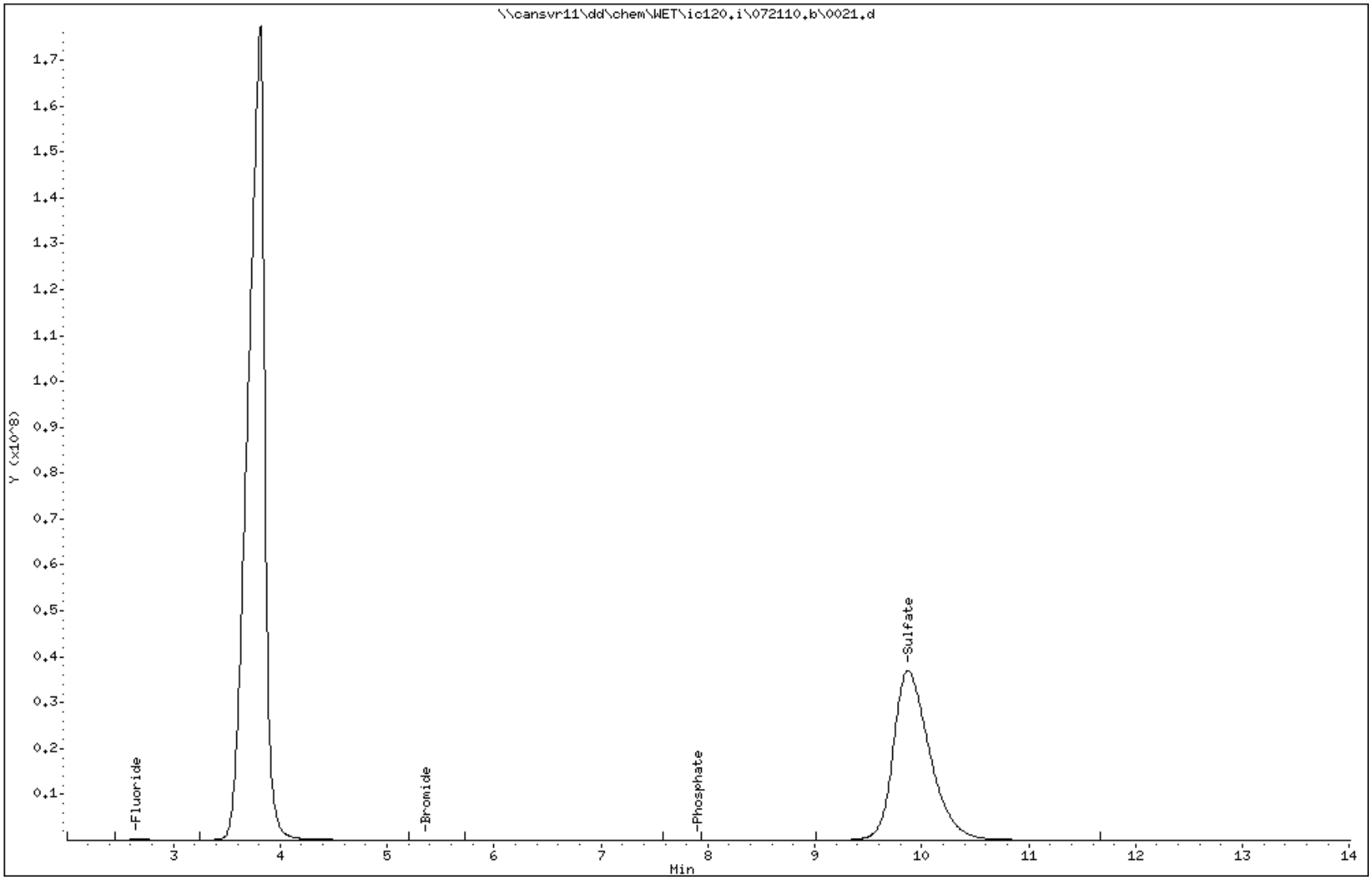
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.658	2.575	0.083	228017	0.24056	0.2406
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	5.366	5.275	0.091	558972	0.19644	0.1964(a)
5 Nitrate	Compound Not Detected.					
6 Phosphate	7.916	8.116	-0.200	12079	0.04155	0.04155(a)
7 Sulfate	9.875	9.833	0.042	873633388	165.717	165.7

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0021.d
Date : 21-JUL-2010 19:26
Client ID:
Sample Info: L4G02
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0022.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0022.d
Lab Smp Id: L4G04
Inj Date : 21-JUL-2010 19:42
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G04
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

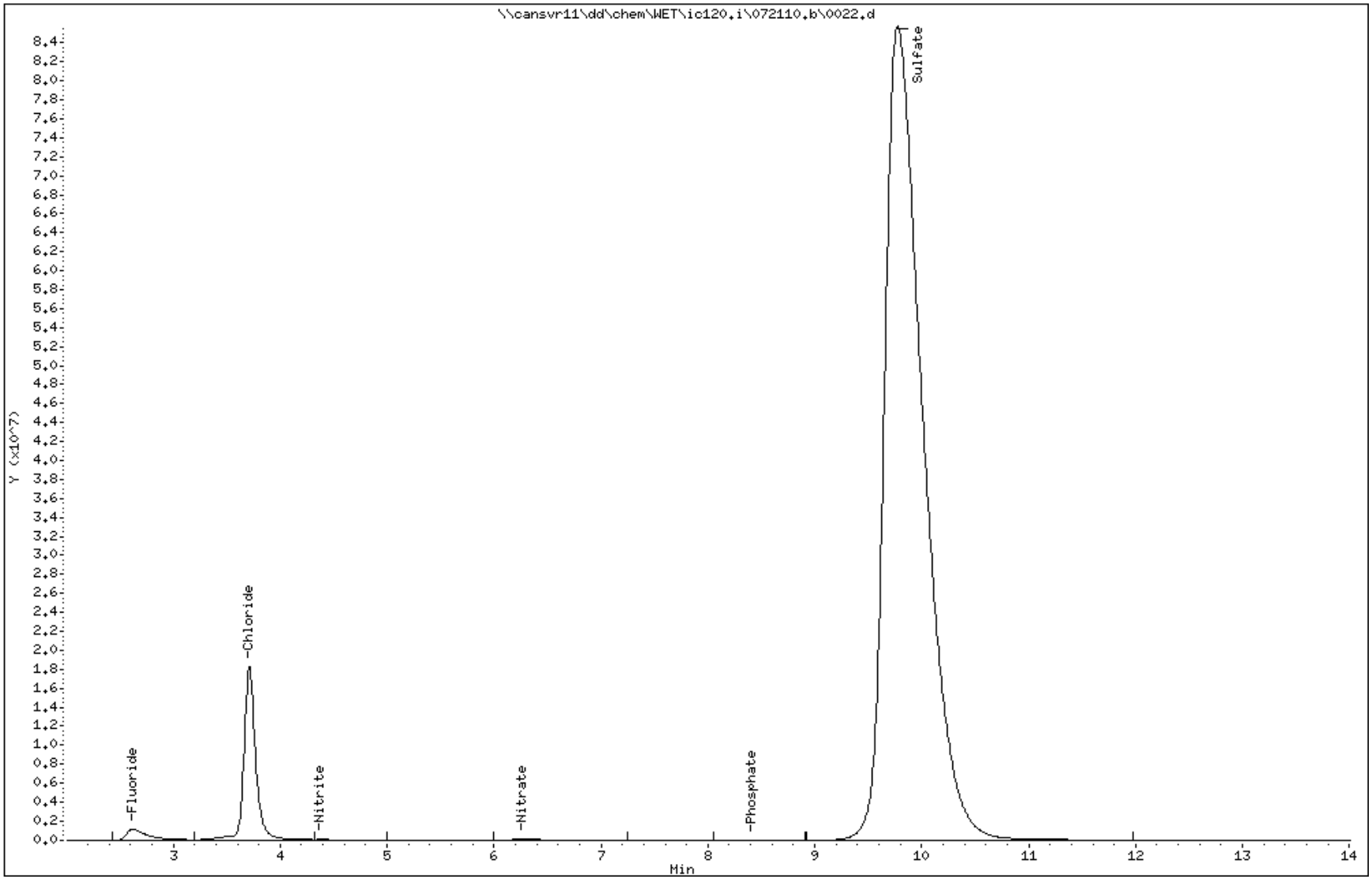
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.575	0.041	1195711	1.26148	1.261
2 Chloride	3.708	3.600	0.108	140643315	17.4679	17.47
3 Nitrite	4.366	4.241	0.125	977141	0.07601	0.07601
4 Bromide	Compound Not Detected.					
5 Nitrate	6.258	6.125	0.133	2032926	0.12627	0.1263
6 Phosphate	8.408	8.116	0.292	20511	0.07053	0.07053
7 Sulfate	9.775	9.833	-0.058	2131046552	404.233	404.2(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0022.d
Date : 21-JUL-2010 19:42
Client ID:
Sample Info: L4G04
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0023.d
Report Date: 22-Jul-2010 08:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0023.d
Lab Smp Id: L4G05
Inj Date : 21-JUL-2010 19:59
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G05
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

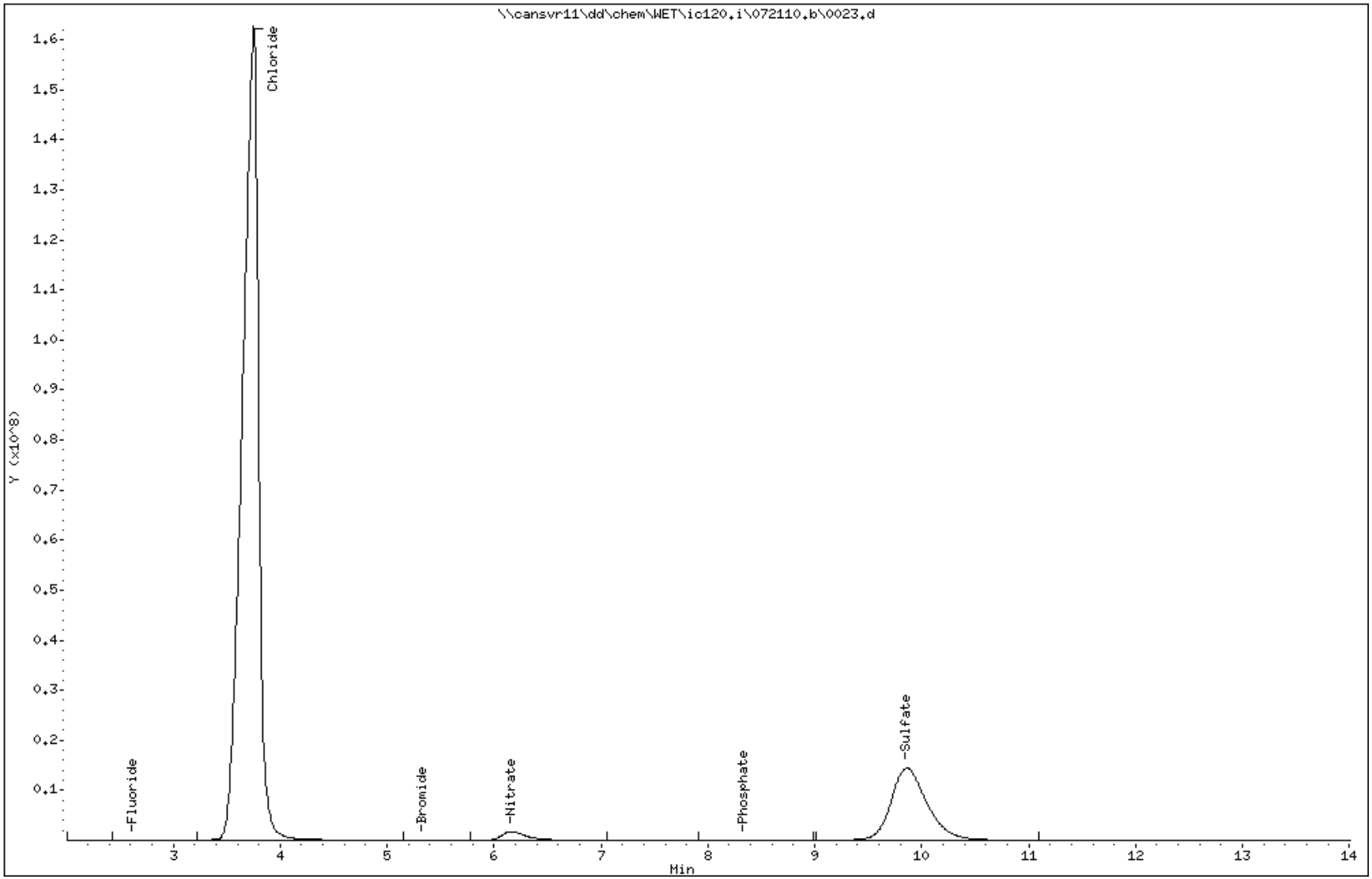
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1	Fluoride	2.616	2.575	0.041	107684	0.11361	0.1136
2	Chloride	3.750	3.600	0.150	1717912102	213.364	213.4(A)
3	Nitrite	Compound Not Detected.					
4	Bromide	5.325	5.275	0.050	1134392	0.39865	0.3986
5	Nitrate	6.158	6.125	0.033	27911345	1.73363	1.734
6	Phosphate	8.333	8.116	0.217	27075	0.09306	0.09306
7	Sulfate	9.858	9.833	0.025	336914389	63.9085	63.91

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0023.d
Date : 21-JUL-2010 19:59
Client ID:
Sample Info: L4G05
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0024.d
Report Date: 22-Jul-2010 08:11

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0024.d
Lab Smp Id: L4G07
Inj Date : 21-JUL-2010 20:15
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G07
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

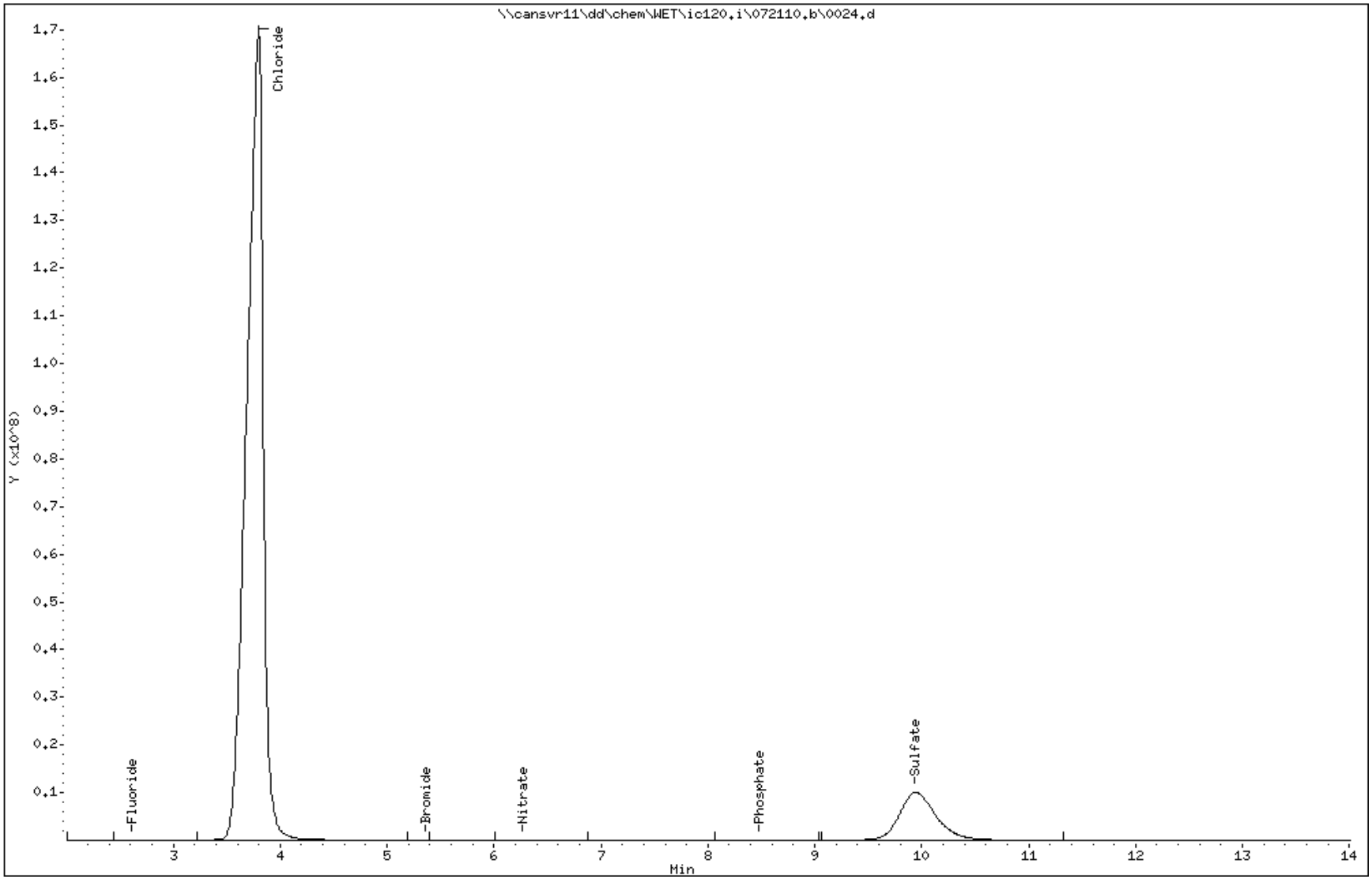
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.575	0.041	103304	0.10899	0.1090
2 Chloride	3.800	3.600	0.200	1840338323	228.570	228.6(AM)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.375	5.275	0.100	457194	0.16067	0.1607(a)
5 Nitrate	6.275	6.125	0.150	1828086	0.11355	0.1135
6 Phosphate	8.483	8.116	0.367	20523	0.07057	0.07057
7 Sulfate	9.941	9.841	0.100	237628063	45.0751	45.08

QC Flag Legend

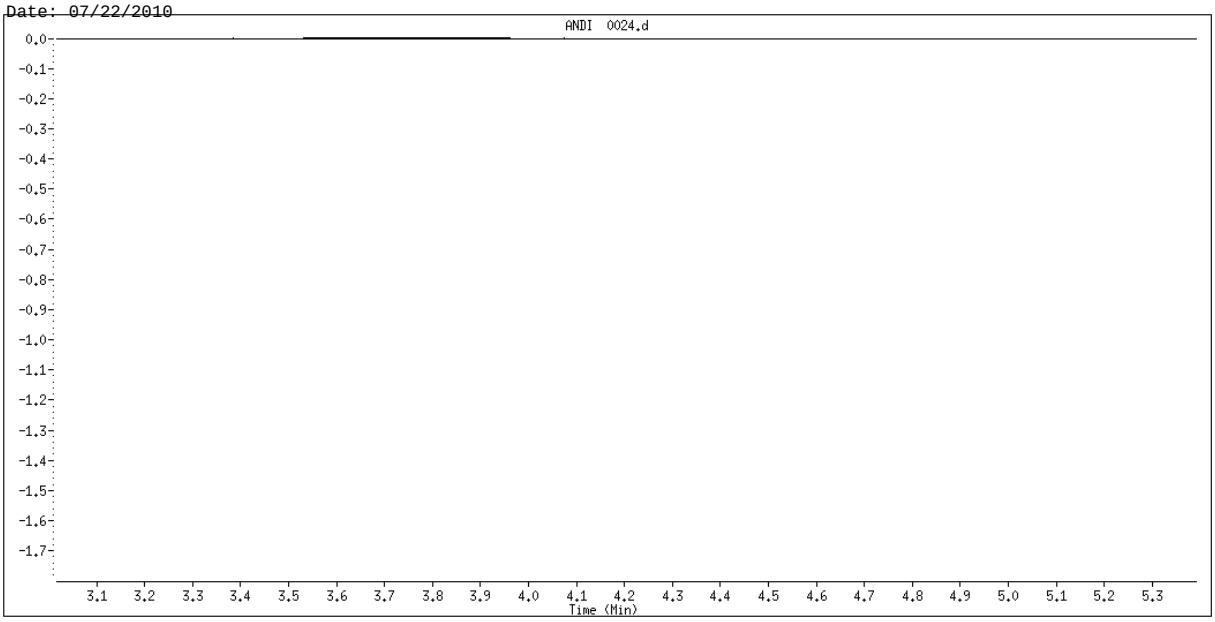
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0024.d
Date : 21-JUL-2010 20:15
Client ID:
Sample Info: L4G07
Purge Volume: 1.0
Column phase: AS14

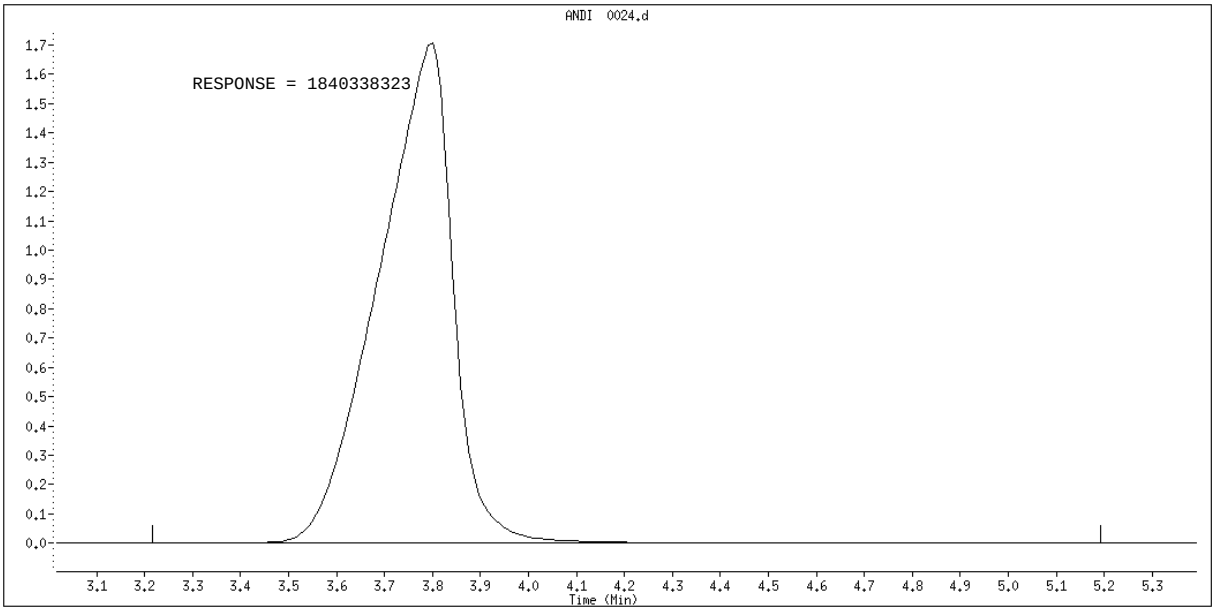
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0024.d
Inj. Date and Time: 21-JUL-2010 20:15
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/22/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0025.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0025.d
Lab Smp Id: L4G08 ORG
Inj Date : 21-JUL-2010 20:32
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G08 ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

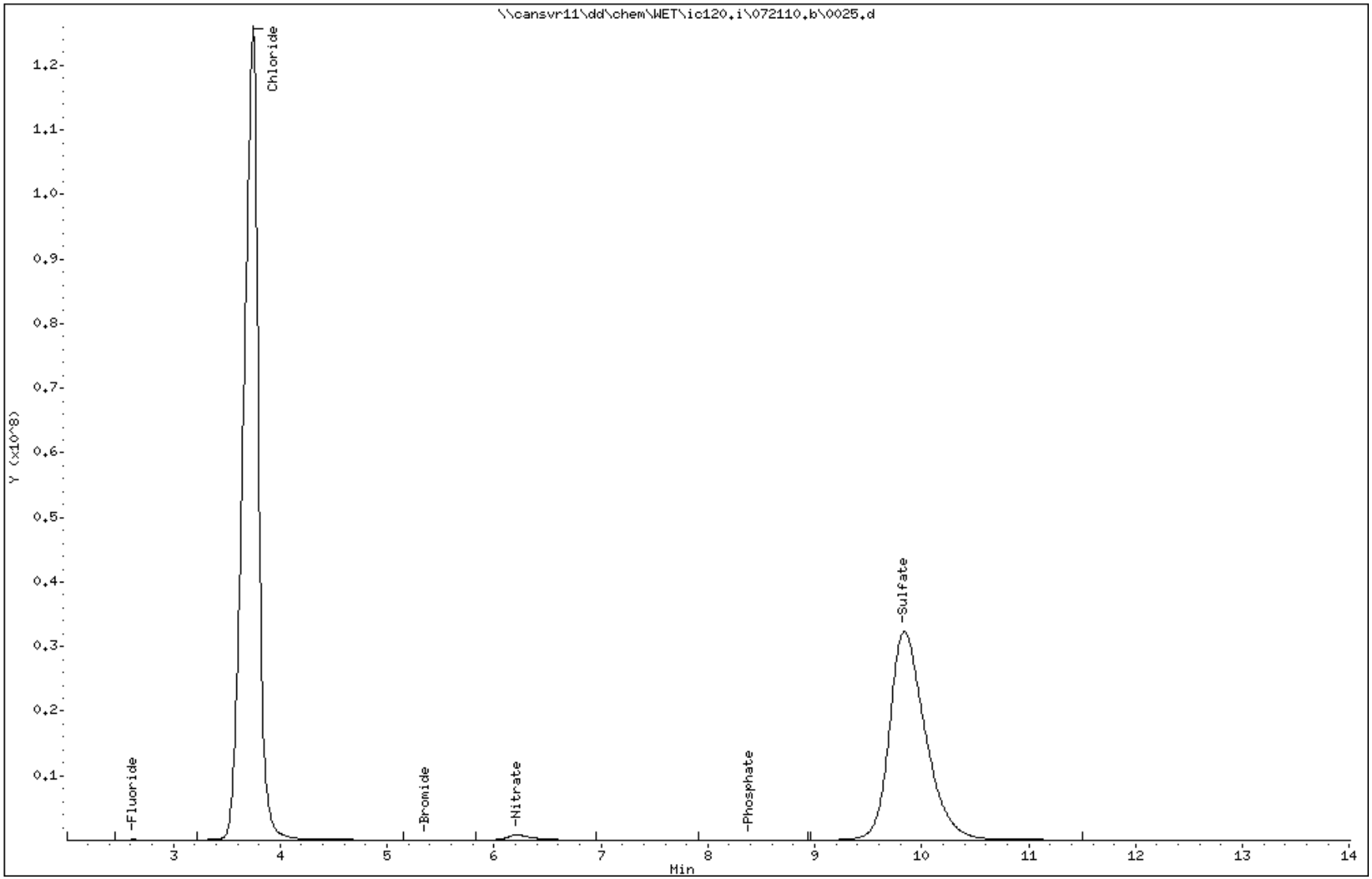
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1	Fluoride	2.625	2.575	0.050	98781	0.10421	0.1042
2	Chloride	3.750	3.600	0.150	1218774808	151.372	151.4
3	Nitrite	Compound Not Detected.					
4	Bromide	5.358	5.275	0.083	1311370	0.46085	0.4608
5	Nitrate	6.216	6.125	0.091	12279453	0.76270	0.7627
6	Phosphate	8.391	8.116	0.275	27968	0.09613	0.09612
7	Sulfate	9.833	9.833	0.000	752958141	142.827	142.8

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0025.d
Date : 21-JUL-2010 20:32
Client ID:
Sample Info: L4G08 ORG
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0026.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0026.d
Lab Smp Id: L4G08 MS
Inj Date : 21-JUL-2010 20:48
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G08 MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:04 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

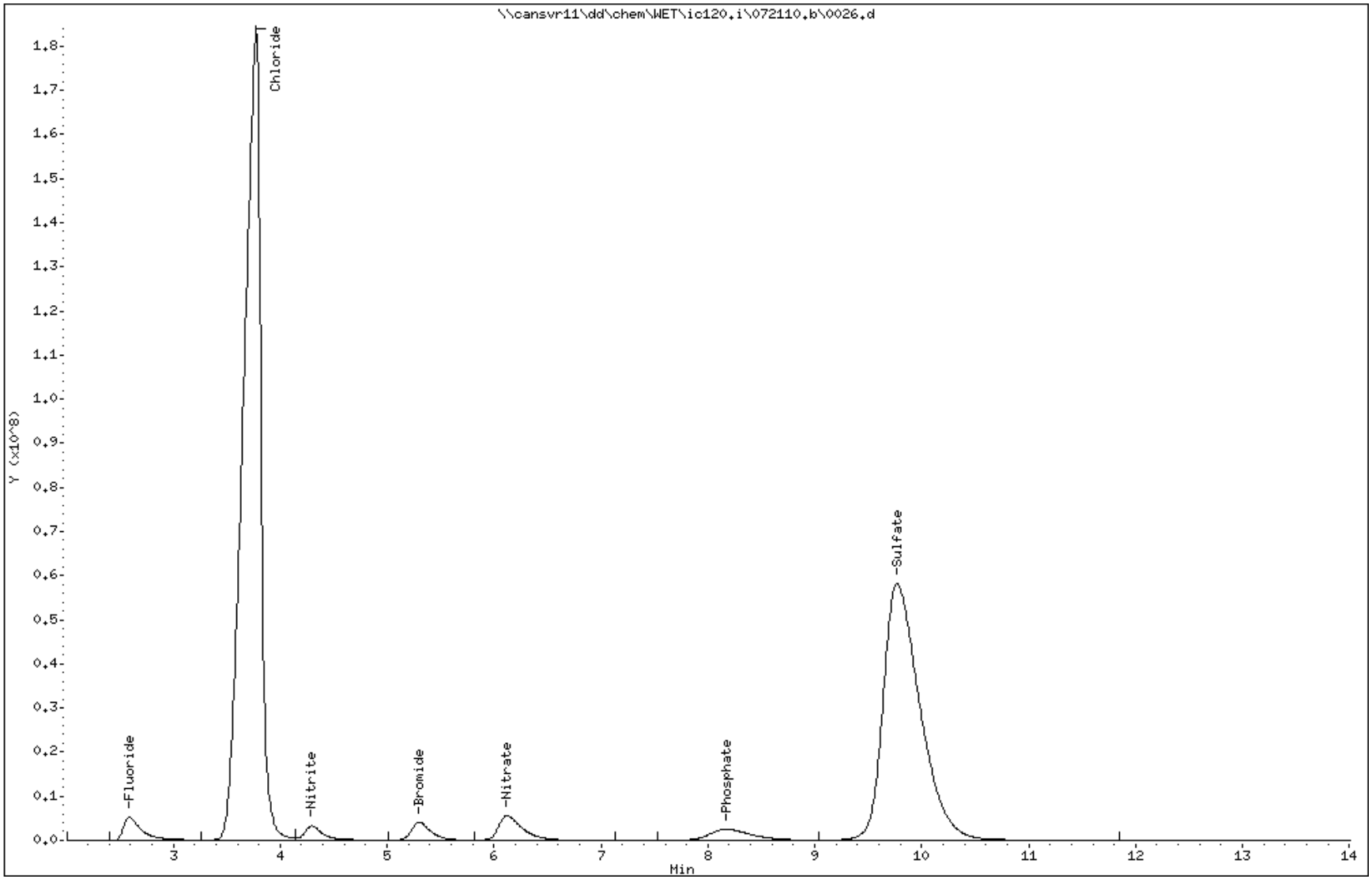
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.591	2.575	0.016	5222510	5.50975	5.510(R)
2 Chloride	3.775	3.600	0.175	2085217526	258.984	259.0(AR)
3 Nitrite	4.291	4.241	0.050	38495692	2.99439	2.994(R)
4 Bromide	5.300	5.275	0.025	51105118	17.9596	17.96(R)
5 Nitrate	6.125	6.125	0.000	86223826	5.35554	5.356(R)
6 Phosphate	8.175	8.116	0.059	2499093	7.38199	7.382(R)
7 Sulfate	9.775	9.833	-0.058	1395056267	264.625	264.6(AR)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0026.d
Date : 21-JUL-2010 20:48
Client ID:
Sample Info: L4G08 MS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0027.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 21-JUL-2010 21:04
Lab File ID: 0027.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	982364	982364	0.010	-3.63942	10.00000	Averaged
2 Chloride	8051545	8594461	8594461	0.010	-6.74300	10.00000	Averaged
3 Nitrite	12855941	13207700	13207700	0.010	-2.73616	10.00000	Averaged
4 Bromide	2845563	2784361	2784361	0.010	2.15080	10.00000	Averaged
5 Nitrate	16099942	15901865	15901865	0.010	1.23030	10.00000	Averaged
6 Phosphate	2.50000	2.68268	326888	0.010	-7.30712	10.00000	Quadratic
7 Sulfate	5271827	5340782	5340782	0.010	-1.30799	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0027.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0027.d
Lab Smp Id: CCV
Inj Date : 21-JUL-2010 21:04
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

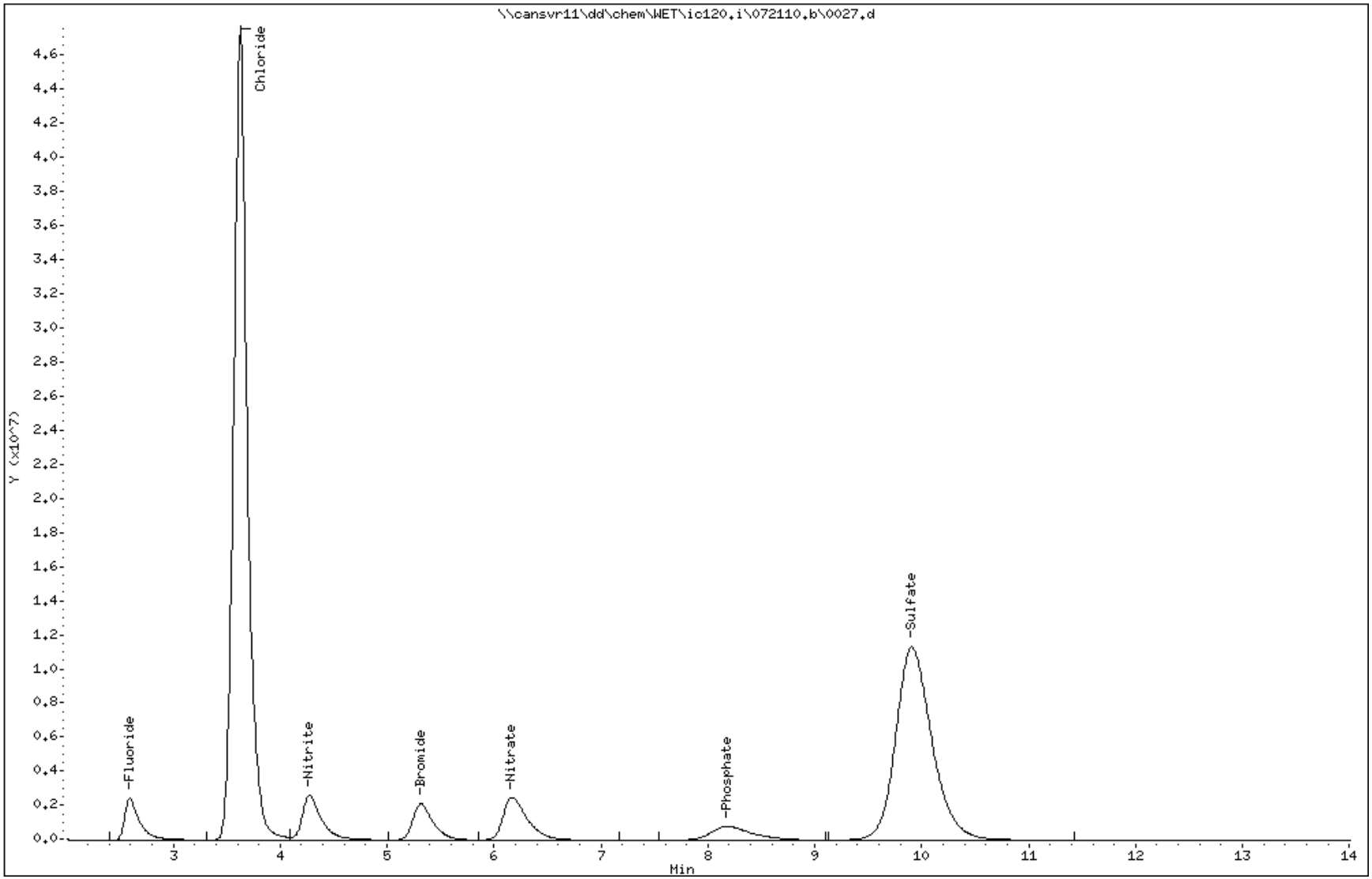
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	2455910	2.50000	2.591
2 Chloride	3.625	3.625	0.000	429723040	50.0000	53.37
3 Nitrite	4.275	4.275	0.000	33019250	2.50000	2.568
4 Bromide	5.316	5.316	0.000	27843605	10.0000	9.785
5 Nitrate	6.166	6.166	0.000	39754663	2.50000	2.469
6 Phosphate	8.183	8.183	0.000	817220	2.50000	2.683
7 Sulfate	9.908	9.908	0.000	267039096	50.0000	50.65

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0027.d
Date : 21-JUL-2010 21:04
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0028.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

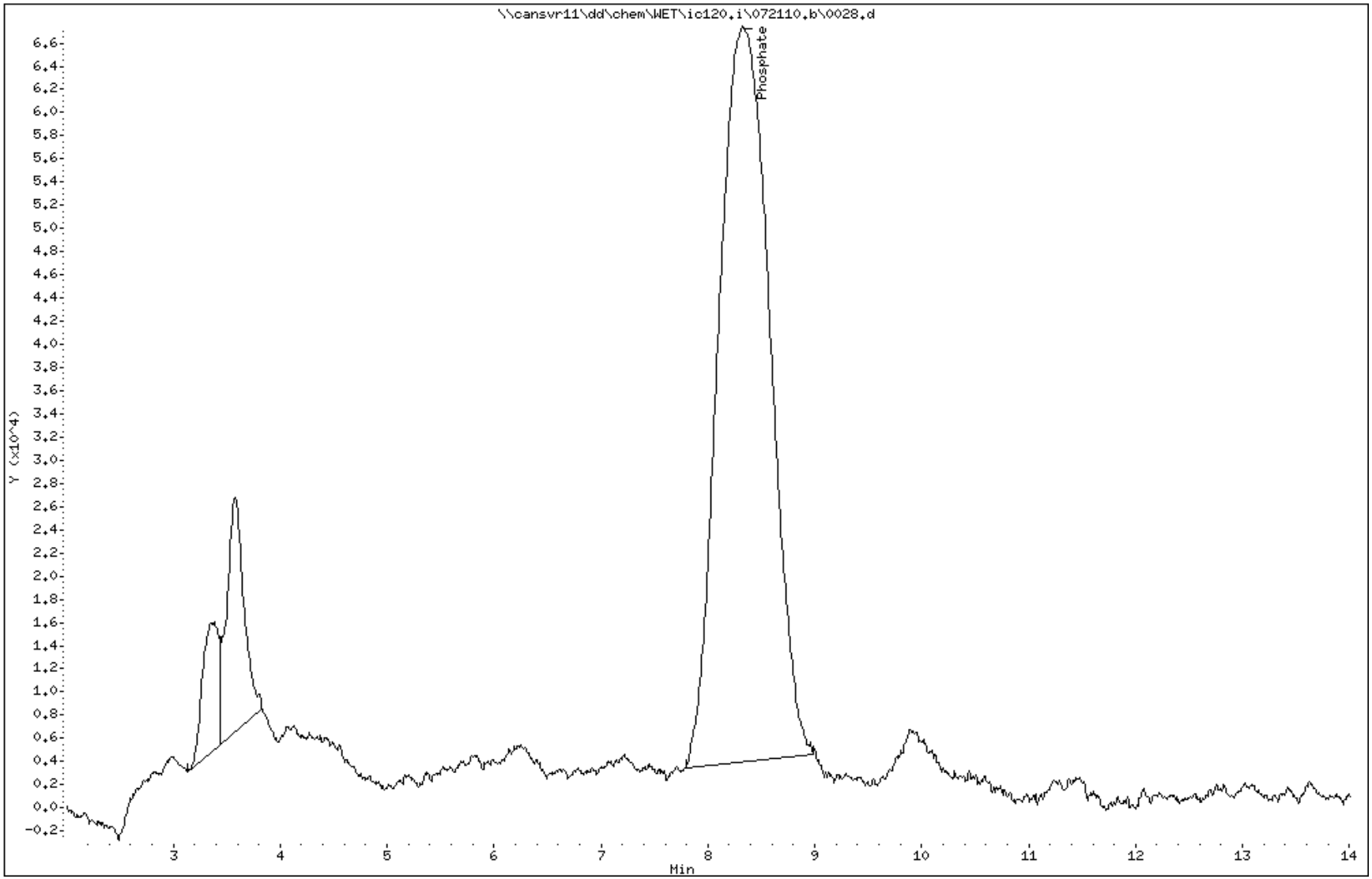
Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0028.d
Lab Smp Id: CCB
Inj Date : 21-JUL-2010 21:21
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.325	8.183	0.142	63516	0.21786	0.2179
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0028.d
Date : 21-JUL-2010 21:21
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0029.d
Report Date: 22-Jul-2010 08:16

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0029.d
Lab Smp Id: L4G1A
Inj Date : 21-JUL-2010 21:37
Operator : 001754 Inst ID: ic120.i
Smp Info : L4G1A
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

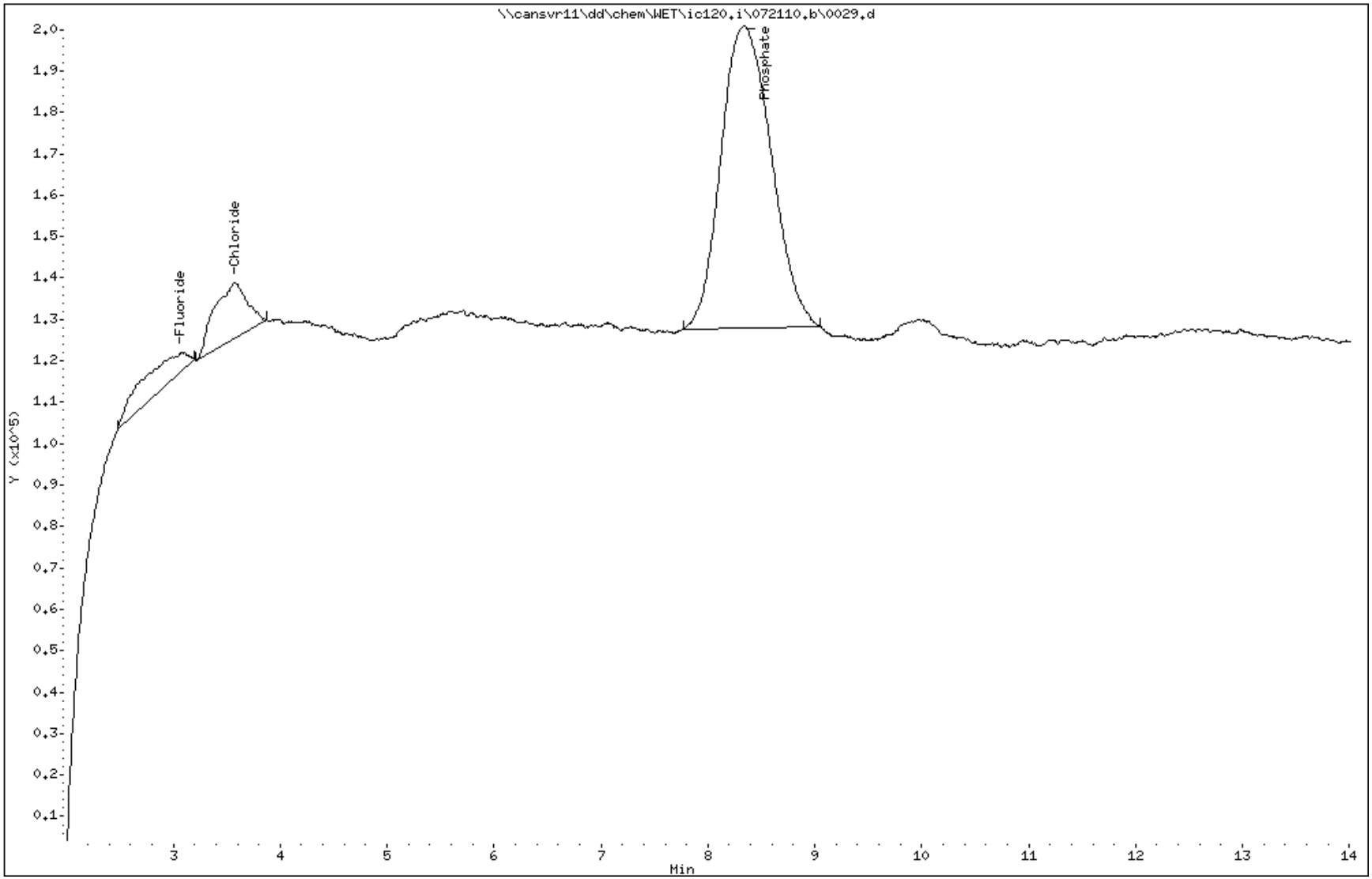
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

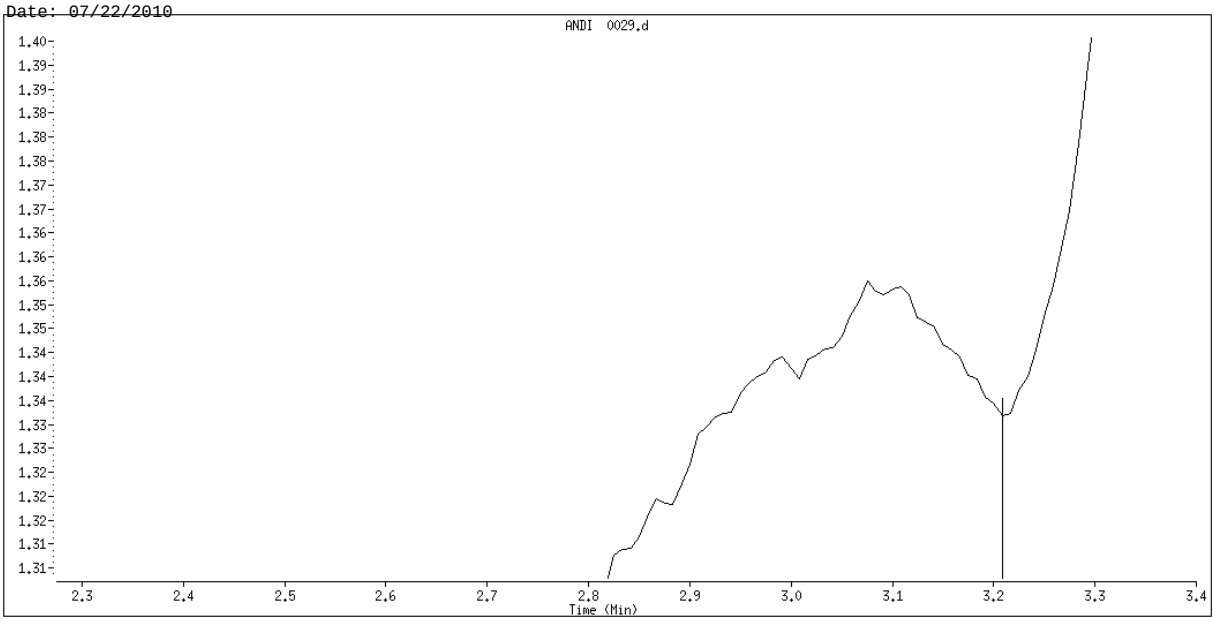
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.341	8.116	0.225	72967	0.25015	0.2501
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0029.d
Date : 21-JUL-2010 21:37
Client ID:
Sample Info: L4G1A
Purge Volume: 1.0
Column phase: AS14

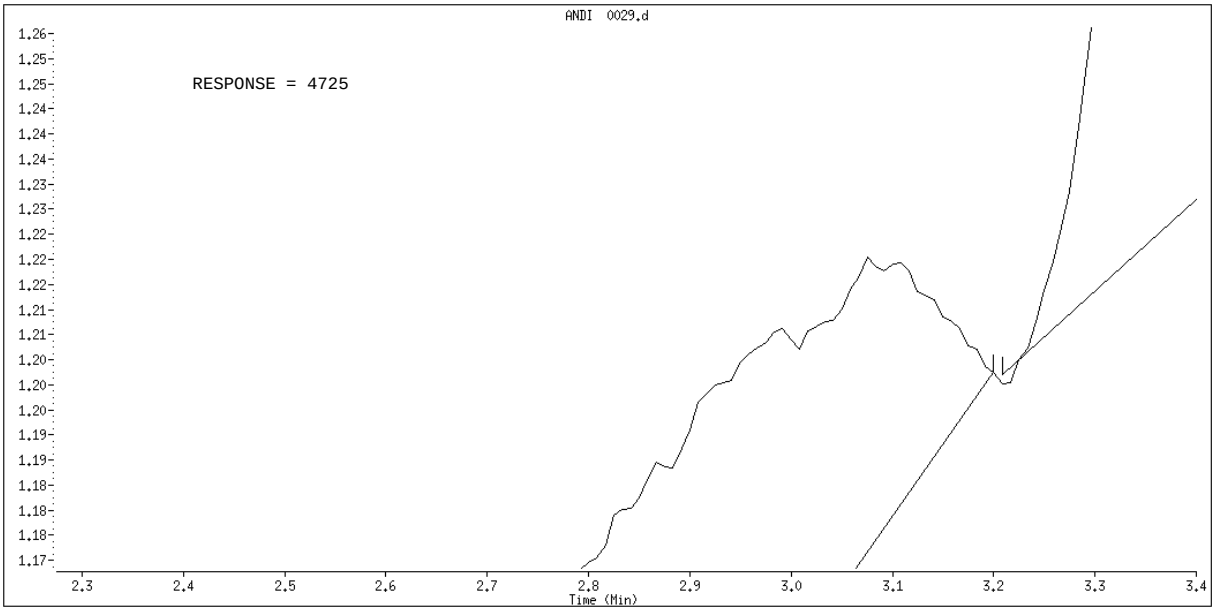
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0029.d
Inj. Date and Time: 21-JUL-2010 21:37
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/22/2010



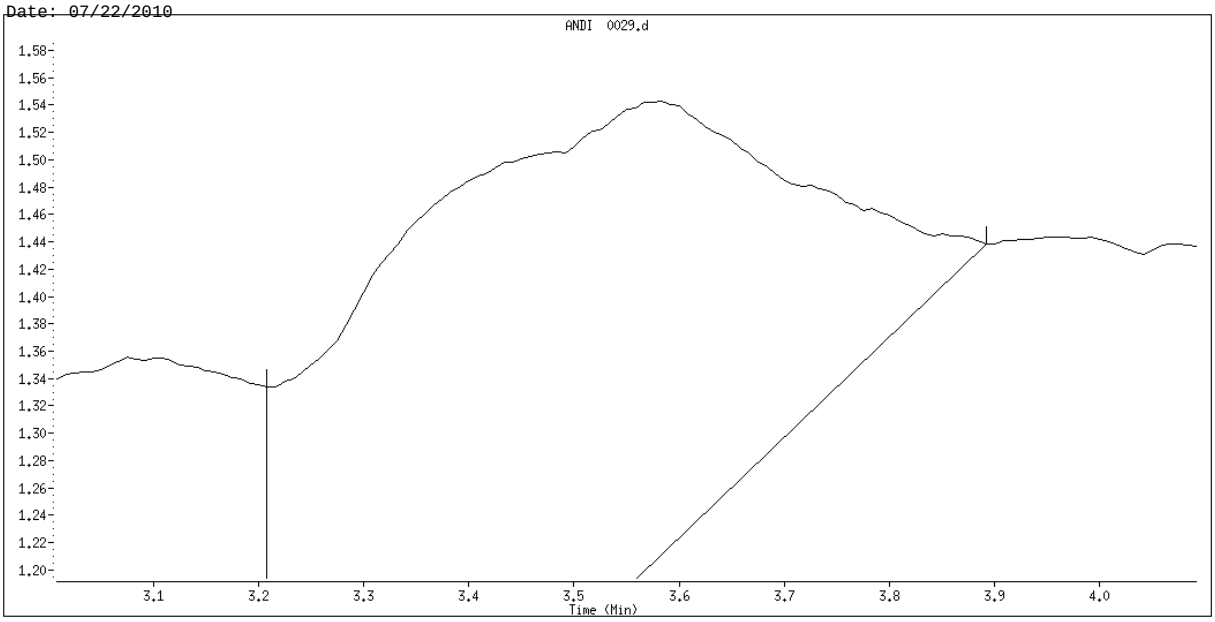
Original Integration



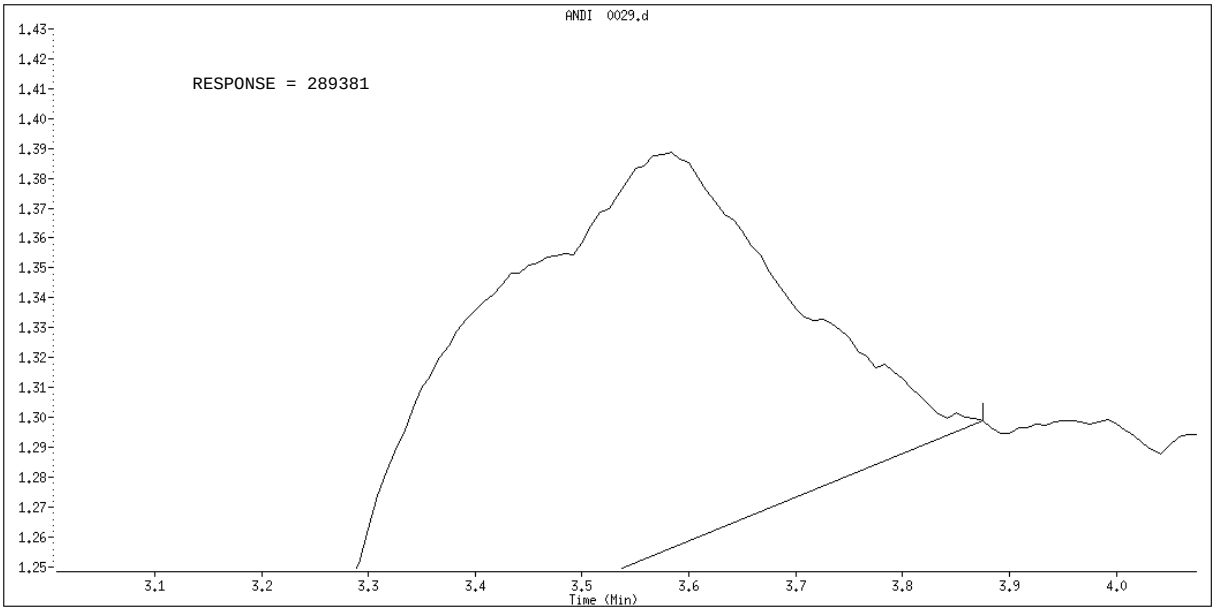
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File Name: 0029.d
Inj. Date and Time: 21-JUL-2010 21:37
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/22/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0030.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

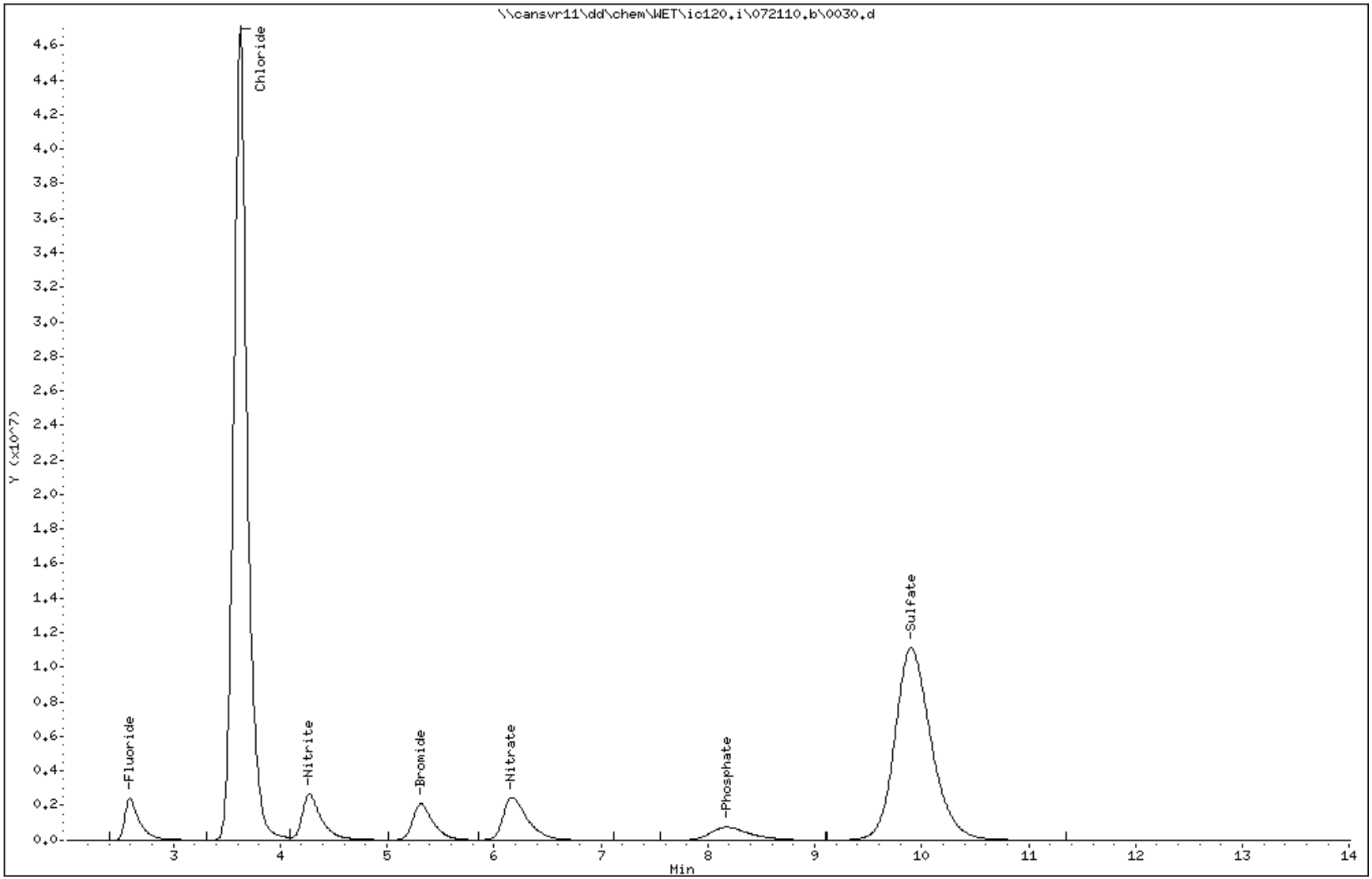
Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0030.d
Lab Smp Id: LCS
Inj Date : 21-JUL-2010 21:54
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	2420571	2.55370	2.554
2 Chloride	3.625	3.625	0.000	423340595	52.5788	52.58
3 Nitrite	4.275	4.275	0.000	34522513	2.68534	2.685
4 Bromide	5.316	5.316	0.000	28711019	10.0898	10.09
5 Nitrate	6.166	6.166	0.000	40072736	2.48900	2.489
6 Phosphate	8.175	8.183	-0.008	762003	2.50964	2.510
7 Sulfate	9.900	9.908	-0.008	262681036	49.8273	49.83

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0030.d
Date : 21-JUL-2010 21:54
Client ID:
Instrument: ic120.i
Sample Info: LCS,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0031.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

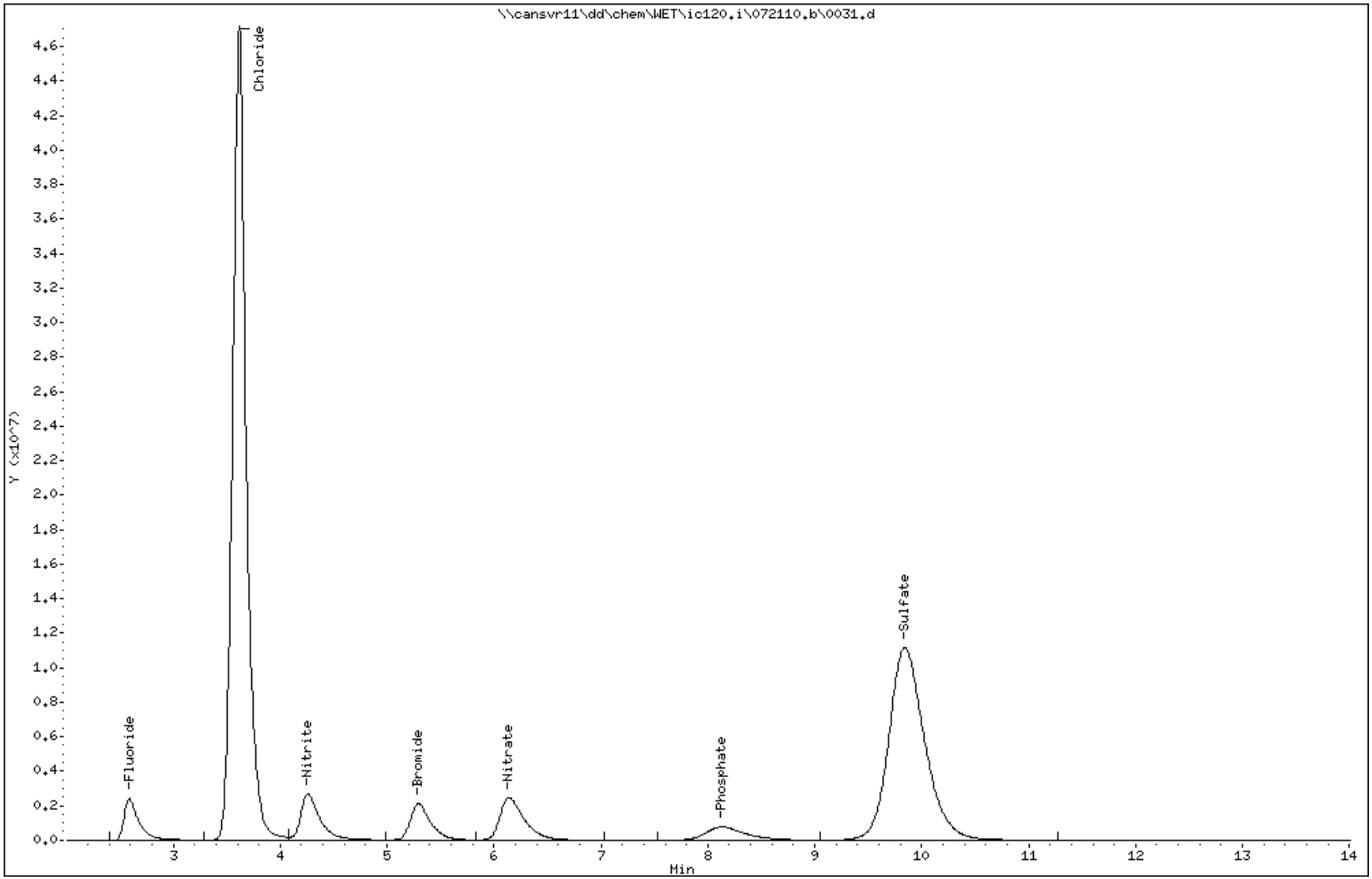
Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0031.d
Lab Smp Id: LCS DUP
Inj Date : 21-JUL-2010 22:10
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS DUP,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.591	2.591	0.000	2421139	2.55430	2.554
2 Chloride	3.616	3.625	-0.009	422122056	52.4275	52.43
3 Nitrite	4.258	4.275	-0.017	34256748	2.66466	2.665
4 Bromide	5.291	5.316	-0.025	28358195	9.96576	9.966
5 Nitrate	6.141	6.166	-0.025	39560077	2.45716	2.457
6 Phosphate	8.133	8.183	-0.050	766246	2.52298	2.523
7 Sulfate	9.841	9.908	-0.067	260862569	49.4824	49.48

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0031.d
Date : 21-JUL-2010 22:10
Client ID:
Instrument: ic120.i
Sample Info: LCS DUP,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0032.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 21-JUL-2010 22:26
Lab File ID: 0032.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	979552	979552	0.010	-3.34280	10.00000	Averaged
2 Chloride	8051545	8543076	8543076	0.010	-6.10480	10.00000	Averaged
3 Nitrite	12855941	13187528	13187528	0.010	-2.57925	10.00000	Averaged
4 Bromide	2845563	2774629	2774629	0.010	2.49281	10.00000	Averaged
5 Nitrate	16099942	15894707	15894707	0.010	1.27476	10.00000	Averaged
6 Phosphate	2.50000	2.53522	308057	0.010	-1.40897	10.00000	Quadratic
7 Sulfate	5271827	5310460	5310460	0.010	-0.73283	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0032.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0032.d
Lab Smp Id: CCV
Inj Date : 21-JUL-2010 22:26
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

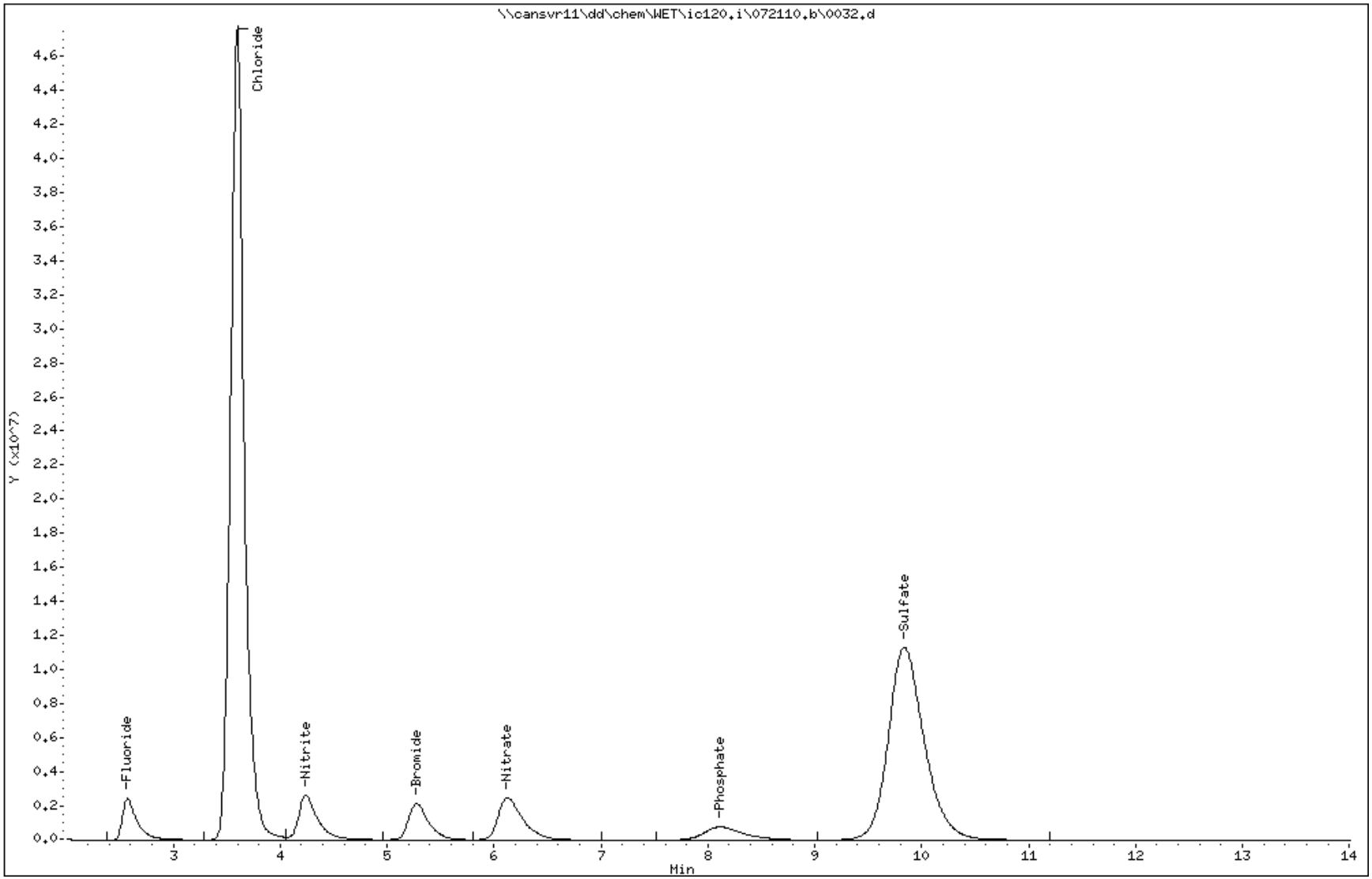
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.575	2.575	0.000	2448881	2.50000	2.584
2 Chloride	3.600	3.600	0.000	427153816	50.0000	53.05
3 Nitrite	4.241	4.241	0.000	32968820	2.50000	2.564
4 Bromide	5.275	5.275	0.000	27746285	10.0000	9.751
5 Nitrate	6.125	6.125	0.000	39736767	2.50000	2.468
6 Phosphate	8.116	8.116	0.000	770142	2.50000	2.535
7 Sulfate	9.841	9.841	0.000	265523012	50.0000	50.37

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0032.d
Date : 21-JUL-2010 22:26
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072110.b\0033.d
Report Date: 22-Jul-2010 08:05

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072110.b\0033.d
Lab Smp Id: CCB
Inj Date : 21-JUL-2010 22:43
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072110.b\DX120.m
Meth Date : 22-Jul-2010 08:05 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

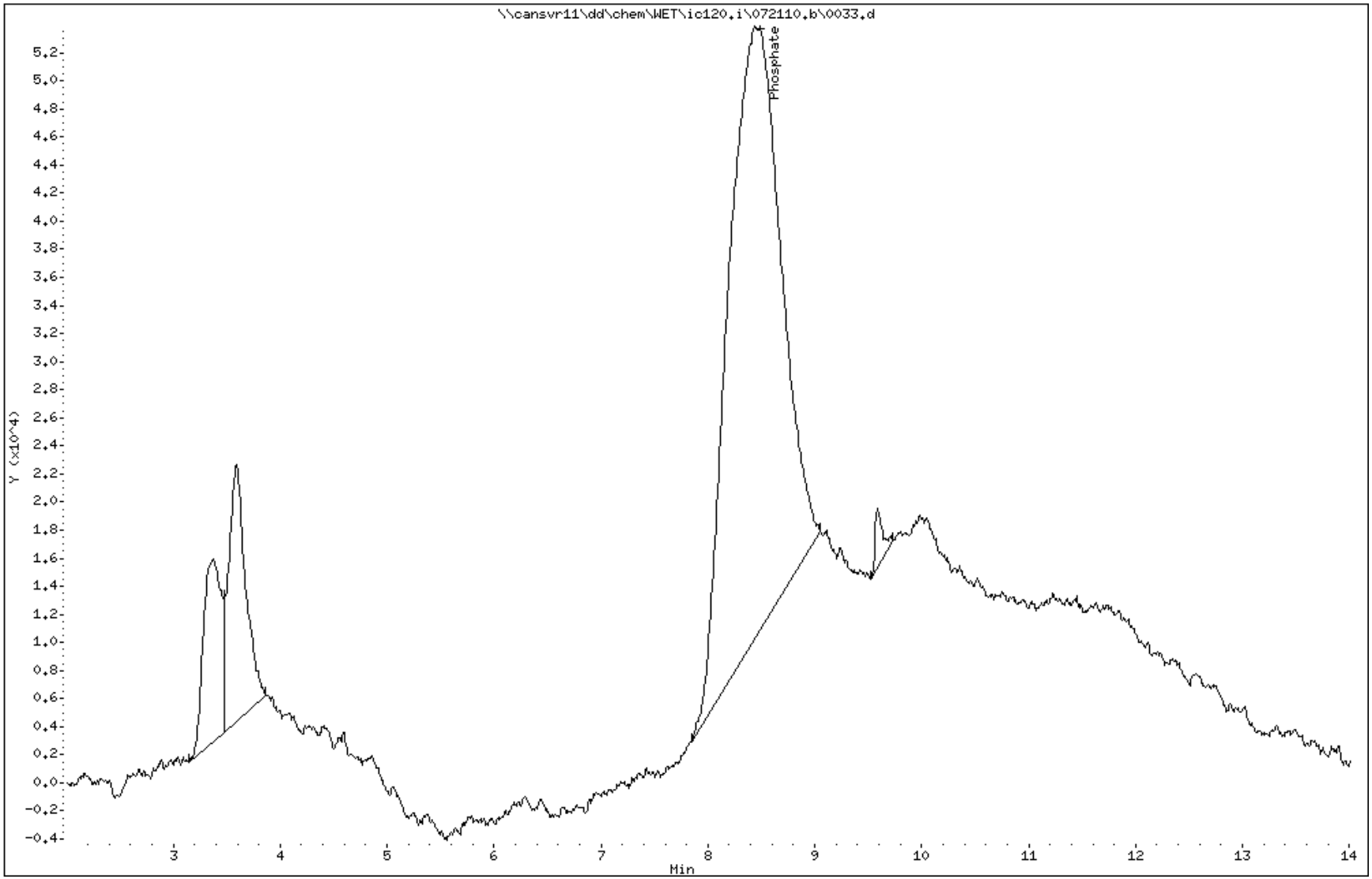
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.441	8.116	0.325	43602	0.14973	0.1497
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072110.b\0033.d
Date : 21-JUL-2010 22:43
Client ID:
Sample Info: CCB
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): TOC

Batch(es): 0203226, 9, 30, 31

Method #/SOP#: 415.1, 9060, 5310C

Review Items	Level II Review			Level I Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓					
2. Calibration curve consist of the minimum number of calibration standards?	✓					
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓					
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓					
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓					
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?	✓					
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			
2. All reported results bracketed by in control QC ?	✓					
3. Sample analyses done within holding time ?	✓					
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓					
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓					
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓					
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			
E. Titrant						
1. Titrant standardized?			✓			
2. If no, standardization expires			✓			
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			
2. Calculations checked for error ?	✓					
3. Transcriptions checked for error ?	✓					
4. All client/project specific requirements met ?	✓					
5. Date/time of preparation and analysis verified as correct ?	✓					
6. Units verified as correct?	✓					
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			
8. SOP followed?	✓					
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓					
10. All reagent and standard numbers recorded in logbook?	✓					
11. Edits dated and initialed	✓					

Comment on any "NO" response(s): _____

Level I reviewer: Tom Hartman Date: 7/23/10

Level II Reviewer: _____ Date: _____

0203226, 9.30, 31
415.1 9060
5310 C

```
**********************************************************************
**              OI Analytical Model 1010 TOC                **
**                    RUN SETUP                             **
**********************************************************************

Operator:  Unknown
Data Path:  C:\PROGRA~1\OIANAL~2\TOCREP~1\DATA10\072210
WinTOC Version:  5.2                  Firmware Version:  5.2
WinTOC Revision:  rev 241             Firmware Revision:  rev 364

Report To File:  Enabled              Naming Mode:  Automatic
Prefix:  0722  Index:  0

**********************************************************************
**                    CONFIGURATION                         **
**********************************************************************

Analysis Mode:  TOC       Spl Intro:  Autosampler 53
Remote Start :  OFF

Loop Size:  1 mL      Actual Volume  1mL  5mL  10mL  25mL
                    ------------- ---- ---- ----- -----
                    Loop A (uL):  1000  5000  10000  25000
                    Loop B (uL):  1000  5000  10000  25000

Tray Type:            53 Vial  Vial Option:       Septum Piercing
Needle Depth:         95 %     Preacid Volume (uL):        200
Wash Needle Depth:    94 %     Preacid Purge Time (min:sec):  0:30

          TIC   TOC   TC
Blank     ----  ----  ----        Linearization Coeff:  61000
Average:  300   707   260

                    Sample Transfer Times (sec)
        Initial Fill    |      Loop Fill      | Sample Inject
    Non-AS   AS  AS w/Sep | Non-AS   AS  AS w/Sep |   (all)
    ------ ----- -------- |------ ----- -------- |----------
1mL:   6.0   4.5    4.0  |  1.2   1.2    1.2  |    4.5
5mL:   8.1   7.2    6.8  |  5.1   5.1    4.2  |    9.3
10mL: 14.2  12.2   11.0  | 10.5  10.5   11.0  |   16.5
25mL: 35.0  35.0   32.0  |  n/a   n/a    n/a  |   38.0

Analog Concentration Signal indicates TOC
Analog Conc. Signal Timer is OFF, Timer duration (h:m:s):  00:00:00
Min Signal Range:  0.000 ppmC,  Max Signal Range:  0.000 ppmC

Alarms DISABLED
Alarm Relay Timer is OFF, Timer duration (h:m:s):  00:00:00
      Conc. Alarm Setpoints (ppm C)
        Low     |  High
     ---------- |----------
TIC:    0.000        0.000
TOC:    0.000        0.000
TC:     0.000        0.000

**********************************************************************
**                    CALIBRATION                           **
**********************************************************************

061610  Fri Jun 18 08:16:43.2010
```

Phosphoric Acid WR00451
Sodium persulfate WR00452
LCS P153-516
CCV TC 0044

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): TOC

Batch(es): 0203226, 9, 30, 31

Method #/SOP#: 415.1, 9060, 5310C

Review Items	Level II Review			Level I Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓					
2. Calibration curve consist of the minimum number of calibration standards?	✓					
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓					
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓					
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓					
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?	✓					
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			
2. All reported results bracketed by in control QC ?	✓					
3. Sample analyses done within holding time ?	✓					
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓					
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓					
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓					
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			
E. Titrant						
1. Titrant standardized?			✓			
2. If no, standardization expires			✓			
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			
2. Calculations checked for error ?	✓					
3. Transcriptions checked for error ?	✓					
4. All client/project specific requirements met ?	✓					
5. Date/time of preparation and analysis verified as correct ?	✓					
6. Units verified as correct?	✓					
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			
8. SOP followed?	✓					
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓					
10. All reagent and standard numbers recorded in logbook?	✓					
11. Edits dated and initialed	✓					

Comment on any "NO" response(s): _____

Level I reviewer: Tom Hartman Date: 7/23/10

Level II Reviewer: _____ Date: _____

0203226, 9.30, 31
415.1 9060
5310 C

```
**********************************************************************
**              OI Analytical Model 1010 TOC                **
**                    RUN SETUP                             **
**********************************************************************

Operator:  Unknown
Data Path:  C:\PROGRA~1\OIANAL~2\TOCREP~1\DATA10\072210
WinTOC Version:  5.2                  Firmware Version:  5.2
WinTOC Revision:  rev 241             Firmware Revision:  rev 364

Report To File:  Enabled              Naming Mode:  Automatic
Prefix:  0722  Index:  0

**********************************************************************
**                    CONFIGURATION                           **
**********************************************************************

Analysis Mode:  TOC       Spl Intro:  Autosampler 53
Remote Start :  OFF

Loop Size:  1 mL      Actual Volume  1mL  5mL  10mL  25mL
                    ------------- ---- ---- ----- -----
                    Loop A (uL):  1000  5000  10000  25000
                    Loop B (uL):  1000  5000  10000  25000

Tray Type:          53 Vial  Vial Option:       Septum Piercing
Needle Depth:       95 %     Preacid Volume (uL):        200
Wash Needle Depth:  94 %     Preacid Purge Time (min:sec):  0:30

          TIC   TOC   TC
Blank     ----  ----  ----        Linearization Coeff:  61000
Average:  300   707   260

                    Sample Transfer Times (sec)
        Initial Fill     |      Loop Fill      | Sample Inject
    Non-AS   AS  AS w/Sep | Non-AS   AS  AS w/Sep |   (all)
    ------ ----- -------- |------ ----- -------- |----------
1mL:  6.0   4.5    4.0   |  1.2   1.2    1.2   |    4.5
5mL:  8.1   7.2    6.8   |  5.1   5.1    4.2   |    9.3
10mL: 14.2  12.2   11.0   |  10.5  10.5   11.0   |   16.5
25mL: 35.0  35.0   32.0   |  n/a   n/a    n/a   |   38.0

Analog Concentration Signal indicates TOC
Analog Conc. Signal Timer is OFF, Timer duration (h:m:s):  00:00:00
Min Signal Range:  0.000 ppmC,  Max Signal Range:  0.000 ppmC

Alarms DISABLED
Alarm Relay Timer is OFF, Timer duration (h:m:s):  00:00:00
      Conc. Alarm Setpoints (ppm C)
        Low     |  High
      ----------|----------
TIC:    0.000       0.000
TOC:    0.000       0.000
TC:     0.000       0.000

**********************************************************************
**                    CALIBRATION                             **
**********************************************************************

061610  Fri Jun 18 08:16:43.2010
```

Phosphoric Acid WR00451
Sodium persulfate WR00452
LCS P153-516
CCV TC 0044

Std. #	Used	Conc. (ppm)	Volume (mL)		
1	Yes	0.050	2.000	RF (ugC/k-cts):	1.374
2	Yes	5.000	2.000	R-Squared:	0.9959
3	Yes	10.000	2.000	Offset (cts):	-726
4	Yes	25.000	2.000	Offset (ugC):	0.999
5	Yes	50.000	2.000	Calibration Mode:	TOC
				Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	808	4625	15692	33601	72696	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

****
** METHODS **
****

TOC Thu Jul 01 10:32:27 2010
Acid Volume: 200 uL Rinse Volume (mL): 20
Oxidant Volume: 1000 uL Rinses Per Rep: 1
Auto-Repeat Time: 00:00:00 (hr:min:sec) Rinses Per Sample: 1

	TIC	TOC	TC
React: (min:sec):	02:00	02:30	00:30
Detect: (min:sec):	01:15	01:30	00:45

****
** SEQUENCE **
****

072210 Thu Jul 22 07:36:54 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 5

Pos/ Vial	Sample Name	Method Type	Run	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr	Rng	Remarks
1	ZZZZZ	toc	Sample	1	2.000	0	1.00	No		
2	CCV	toc	Sample	1	2.000	0	1.00	No		TV=25 P
3	CCB	toc	Sample	1	2.000	0	1.00	No		
4	LCS-2X	toc	Sample	1	2.000	0	1.00	No		P153-51
5	LCS2-2X	toc	Sample	1	2.000	0	1.00	No		P153-51

Pos#	Remarks
2	TV=25 PPM Range-90-110%
4	P153-516 TV=69.4 @ 2X
5	P153-516 TV=69.4 @ 2X
6	P153-516 TV=69.4 @ 2X

****
** RESULTS - 072210 **
****

Pos/Vial: 1 Name: ZZZZZ Analyzed: 22Jul2010 08:25
Run ID: 0 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722000	22Jul2010 08:25	-	-	-	773	0.091	0.045	-	-	-

Pos/Vial: 2 Name: CCV Analyzed: 22Jul2010 08:36
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: TV=25 PPM Range-90-110%

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722001	22Jul2010 08:36	-	-	-	38082	51.361	25.681	-	-	-

Pos/Vial: 3 Name: CCB Analyzed: 22Jul2010 08:47
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722002	22Jul2010 08:47	-	-	-	781	0.102	0.051	-	-	-

0203226.30

Pos/Vial: 4 Name: LCS-2X Analyzed: 22Jul2010 08:57
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722003	22Jul2010 08:57	-	-	-	49448	66.981	33.490	-	-	-

0203226.30

66.98

Pos/Vial: 5 Name: LCS2-2X Analyzed: 22Jul2010 09:08
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722004	22Jul2010 09:08	-	-	-	49960	67.684	33.842	-	-	-

****
** SEQUENCE **
****

676.84 0203229/31

TV 69.4

072210A Thu Jul 22 09:36:27 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 19

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4GJG	toc	Sample	1	2.000	0	1.00	No	
2	L4GJG-MS	toc	Sample	1	2.000	0	1.00	No	
3	L4GJG-MSD	toc	Sample	1	2.000	0	1.00	No	
4	L4G39	toc	Sample	1	2.000	0	1.00	No	
5	L4G39-MS	toc	Sample	1	2.000	0	1.00	No	
6	L4G39-MSD	toc	Sample	1	2.000	0	1.00	No	
7	L3DKW	toc	Sample	1	2.000	0	1.00	No	
8	CCV	toc	Sample	1	2.000	0	1.00	No	
9	CCB	toc	Sample	1	2.000	0	1.00	No	
10	L-BLK 7-21	toc	Sample	4	2.000	0	1.00	No	
11	L4FE6	toc	Sample	4	2.000	0	1.00	No	
12	L4FE6-MS	toc	Sample	1	2.000	0	1.00	No	
13	L4FE6-MSD	toc	Sample	1	2.000	0	1.00	No	
14	L-BLK 7-22	toc	Sample	1	2.000	0	1.00	No	
15	L4GV7	toc	Sample	1	2.000	0	1.00	No	
16	L4GV7-MS	toc	Sample	1	2.000	0	1.00	No	
17	L4GV7-MSD	toc	Sample	1	2.000	0	1.00	No	
18	CCV	toc	Sample	1	2.000	0	1.00	No	
19	CCB	toc	Sample	1	2.000	0	1.00	No	

****
** RESULTS - 072210A **
****

Pos/Vial: 1 Name: L4GJG Analyzed: 22Jul2010 09:47
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722005	22Jul2010 09:47	-	-	-	6410	7.837	3.919	-	-	-

Pos/Vial: 2 Name: L4GJG-MS Analyzed: 22Jul2010 09:58
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722006	22Jul2010 09:58	-	-	-	23418	31.210	15.605	-	-	-

31.21

Pos/Vial: 3 Name: L4GJG-MSD Analyzed: 22Jul2010 10:09
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722007	22Jul2010 10:09	-	-	-	24068	32.103	16.052	-	-	-

32.104

Pos/Vial: 4 Name: L4G39 Analyzed: 22Jul2010 10:19

Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722008	22Jul2010 10:19	-	-	-	2674	2.703	1.352	-	-	-

L4G39

Pos/Vial: 5 Name: L4G39-MS Analyzed: 22Jul2010 10:30
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722009	22Jul2010 10:30	-	-	-	20370	27.021	13.511	-	-	-

27.022

Pos/Vial: 6 Name: L4G39-MSD Analyzed: 22Jul2010 10:40
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722010	22Jul2010 10:40	-	-	-	20219	26.814	13.407	-	-	-

26.814

Pos/Vial: 7 Name: L3DKW Analyzed: 22Jul2010 10:51
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722011	22Jul2010 10:51	-	-	-	10561	13.542	6.771	-	-	-

Pos/Vial: 8 Name: CCV Analyzed: 22Jul2010 11:01
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722012	22Jul2010 11:01	-	-	-	36102	48.640	24.320	-	-	-

97%

Pos/Vial: 9 Name: CCB Analyzed: 22Jul2010 11:12
Run ID: 8 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

~~0203229.31~~ TH 7/23/10

1	0722013	22Jul2010	11:12	-	-	-	640	0.000	0.000	-	-	-

Pos/Vial: 10 Name: L-BLK 7-21 Analyzed: 22Jul2010 11:22
Run ID: 9 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722014	22Jul2010	11:22	-	-	-	1822	1.532	0.766	-	-	-
2	0722014	22Jul2010	11:32	-	-	-	1677	1.333	0.666	-	-	-
3	0722014	22Jul2010	11:42	-	-	-	1755	1.440	0.720	-	-	-
4	0722014	22Jul2010	11:52	-	-	-	1766	1.455	0.728	-	-	-
Avg							1755	1.440	0.720			
Std.Dev.							59.705					
RSD (%)							3.40					

TH 7/23/10
0203229.31
7.20

Pos/Vial: 11 Name: L4FE6 Analyzed: 22Jul2010 12:02
Run ID: 10 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722015	22Jul2010	12:02	-	-	-	4421	5.104	2.552	-	-	-
2	0722015	22Jul2010	12:12	-	-	-	4265	4.889	2.445	-	-	-
3	0722015	22Jul2010	12:22	-	-	-	4080	4.635	2.318	-	-	-
4	0722015	22Jul2010	12:32	-	-	-	4103	4.667	2.333	-	-	-
Avg							4217	4.824	2.412			
Std.Dev.							158.834					
RSD (%)							3.77					

24.12

Pos/Vial: 12 Name: L4FE6-MS Analyzed: 22Jul2010 12:43
Run ID: 11 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722016	22Jul2010	12:43	-	-	-	21126	28.060	14.030	-	-	-

280.6

Pos/Vial: 13 Name: L4FE6-MSD Analyzed: 22Jul2010 12:53
Run ID: 12 Meth: toc Vol (mL): 2.000
Remarks: <none>

TV
250

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722017	22Jul2010	12:53	-	-	-	20829	27.652	13.826	-	-	-

276.52

Pos/Vial: 14 Name: L-BLK 7-22 Analyzed: 22Jul2010 13:04

Run ID: 13 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722018	22Jul2010 13:04	-	-	-	1591	1.215	0.607	-	-	-

CBLK 0203229
6.07

Pos/Vial: 15 Name: L4GV7 Analyzed: 22Jul2010 13:14
Run ID: 14 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722019	22Jul2010 13:14	-	-	-	24047	32.074	16.037	-	-	-

160.37

Pos/Vial: 16 Name: L4GV7-MS Analyzed: 22Jul2010 13:25
Run ID: 15 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722020	22Jul2010 13:25	-	-	-	29353	39.366	19.683	-	-	-

393.66

Pos/Vial: 17 Name: L4GV7-MSD Analyzed: 22Jul2010 13:35
Run ID: 16 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722021	22Jul2010 13:35	-	-	-	30912	41.508	20.754	-	-	-

415.08

Pos/Vial: 18 Name: CCV Analyzed: 22Jul2010 13:46
Run ID: 17 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722022	22Jul2010 13:46	-	-	-	36501	49.189	24.594	-	-	-

98%

Pos/Vial: 19 Name: CCB Analyzed: 22Jul2010 13:56
Run ID: 18 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

CCB

1 0722023 22Jul2010 13:56 - - - 559 0.000 0.000 - - -

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** SEQUENCE **

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072210B Thu Jul 22 14:14:44 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 21

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4GJT	toc	Sample	1	2.000	0	1.00	No	
2	L4GJV	toc	Sample	1	2.000	0	1.00	No	
3	L3GJ0	toc	Sample	1	2.000	0	1.00	No	
4	L3GJ1	toc	Sample	1	2.000	0	1.00	No	
5	L4ELT	toc	Sample	1	2.000	0	1.00	No	
6	L4EL1	toc	Sample	1	2.000	0	1.00	No	
7	L4EL2	toc	Sample	1	2.000	0	1.00	No	
8	L4EL3	toc	Sample	1	2.000	0	1.00	No	
9	L4EL4	toc	Sample	1	2.000	0	1.00	No	
10	L45GE	toc	Sample	1	2.000	0	1.00	No	
11	CCV	toc	Sample	1	2.000	0	1.00	No	
12	CCB	toc	Sample	1	2.000	0	1.00	No	
13	L4G5P	toc	Sample	1	2.000	0	1.00	No	
14	L4G51	toc	Sample	1	2.000	0	1.00	No	
15	L4G54	toc	Sample	1	2.000	0	1.00	No	
16	L4G56	toc	Sample	1	2.000	0	1.00	No	
17	L4G6A	toc	Sample	1	2.000	0	1.00	No	
18	L4G6F	toc	Sample	1	2.000	0	1.00	No	
19	L4G6J	toc	Sample	1	2.000	0	1.00	No	
20	CCV	toc	Sample	1	2.000	0	1.00	No	
21	CCB	toc	Sample	1	2.000	0	1.00	No	

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** RESULTS - 072210B **

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Pos/Vial: 1 Name: L4GJT Analyzed: 22Jul2010 14:25
Run ID: 19 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0722024	22Jul2010	14:25	-	-	-	5138	6.089	3.045	-	-	-

Pos/Vial: 2 Name: L4GJV Analyzed: 22Jul2010 14:36
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0722025	22Jul2010	14:36	-	-	-	4801	5.626	2.813	-	-	-

Pos/Vial: 3 Name: L3GJ0 Analyzed: 22Jul2010 14:46

Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722026	22Jul2010 14:46	-	-	-	2986	3.132	1.566	-	-	-

L3GJ0

Pos/Vial: 4 Name: L3GJ1 Analyzed: 22Jul2010 14:57
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722027	22Jul2010 14:57	-	-	-	1350	0.884	0.442	-	-	-

Pos/Vial: 5 Name: L4ELT Analyzed: 22Jul2010 15:07
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722028	22Jul2010 15:07	-	-	-	1883	1.616	0.808	-	-	-

Pos/Vial: 6 Name: L4EL1 Analyzed: 22Jul2010 15:18
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722029	22Jul2010 15:18	-	-	-	1771	1.462	0.731	-	-	-

Pos/Vial: 7 Name: L4EL2 Analyzed: 22Jul2010 15:28
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722030	22Jul2010 15:28	-	-	-	1141	0.596	0.298	-	-	-

Pos/Vial: 8 Name: L4EL3 Analyzed: 22Jul2010 15:39
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									

L4EL3

1 0722031 22Jul2010 15:39 - - - 1779 1.473 0.737 - - -

Pos/Vial: 9 Name: L4EL4 Analyzed: 22Jul2010 15:49
Run ID: 8 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722032	22Jul2010 15:49	-	-	-	1179	0.649	0.324	-	-	-

G5
Pos/Vial: 10 Name: L45GE Analyzed: 22Jul2010 16:00
Run ID: 9 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722033	22Jul2010 16:00	-	-	-	2583	2.578	1.289	-	-	-

Pos/Vial: 11 Name: CCV Analyzed: 22Jul2010 16:10
Run ID: 10 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722034	22Jul2010 16:10	-	-	-	36168	48.731	24.365	-	-	-

97%

Pos/Vial: 12 Name: CCB Analyzed: 22Jul2010 16:21
Run ID: 11 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722035	22Jul2010 16:21	-	-	-	532	0.000	0.000	-	-	-

Pos/Vial: 13 Name: L4G5P Analyzed: 22Jul2010 16:31
Run ID: 12 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722036	22Jul2010 16:31	-	-	-	1023	0.434	0.217	-	-	-

Pos/Vial: 14 Name: L4G51 Analyzed: 22Jul2010 16:42
Run ID: 13 Meth: toc Vol (mL): 2.000
Remarks: <none>

L4G51

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722037	22Jul2010 16:42	-	-	-	2989	3.136	1.568	-	-	-

Pos/Vial: 15 Name: L4G54 Analyzed: 22Jul2010 16:52
Run ID: 14 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722038	22Jul2010 16:52	-	-	-	3080	3.261	1.630	-	-	-

Pos/Vial: 16 Name: L4G56 Analyzed: 22Jul2010 17:03
Run ID: 15 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722039	22Jul2010 17:03	-	-	-	3399	3.699	1.850	-	-	-

Pos/Vial: 17 Name: L4G6A Analyzed: 22Jul2010 17:13
Run ID: 16 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722040	22Jul2010 17:13	-	-	-	3359	3.644	1.822	-	-	-

Pos/Vial: 18 Name: L4G6F Analyzed: 22Jul2010 17:24
Run ID: 17 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722041	22Jul2010 17:24	-	-	-	2369	2.284	1.142	-	-	-

Pos/Vial: 19 Name: L4G6J Analyzed: 22Jul2010 17:34
Run ID: 18 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722042	22Jul2010 17:34	-	-	-	3903	4.392	2.196	-	-	-

Pos/Vial: 20 Name: CCV Analyzed: 22Jul2010 17:45
Run ID: 19 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722043	22Jul2010 17:45	-	-	-	35741	48.144	24.072	-	-	-

96 Z

Pos/Vial: 21 Name: CCB Analyzed: 22Jul2010 17:55
Run ID: 20 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722044	22Jul2010 17:55	-	-	-	524	0.000	0.000	-	-	-

TESTAMERICA NORTH CANTON
D.I. LEACH LOGSHEET

Prep Date 7/22/10 Batch

Analyst(s) TH Start Time 815

Analysis TOC (415.1) End Time 915

Sample	Sample Amount (g)	D.I. Water Volume (mL)	Comments
2-BLK	0	200	
24GV7	19.98	200	

TH 7/22/10

N:\QAQC\LAB_FORM\Wet Chem DI Leach Log.doc

TESTAMERICA NORTH CANTON
D.I. LEACH LOGSHEET

Prep Date 7/22/10 Batch

Analyst(s) TH Start Time 815

Analysis TOC (415.1) End Time 915

Sample	Sample Amount (g)	D.I. Water Volume (mL)	Comments
2-BLK	0	200	
24GV7	19.98	200	

TH 7/22/10

N:\QAQC\LAB_FORM\Wet Chem DI Leach Log.doc

Std. #	Used	Conc. (ppm)	Volume (mL)	
1	Yes	0.050	2.000	RF (ugC/k-cts): 1.374
2	Yes	5.000	2.000	R-Squared: 0.9959
3	Yes	10.000	2.000	Offset (cts): -726
4	Yes	25.000	2.000	Offset (ugC): 0.999
5	Yes	50.000	2.000	Calibration Mode: TOC
				Allow Editing: No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	808	4625	15692	33601	72696	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

****
** METHODS **
****

TOC Thu Jul 01 10:32:27 2010
Acid Volume: 200 uL Rinse Volume (mL): 20
Oxidant Volume: 1000 uL Rinses Per Rep: 1
Auto-Repeat Time: 00:00:00 (hr:min:sec) Rinses Per Sample: 1

	TIC	TOC	TC
React: (min:sec):	02:00	02:30	00:30
Detect: (min:sec):	01:15	01:30	00:45

****
** SEQUENCE **
****

072210 Thu Jul 22 07:36:54 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 5

Pos/ Vial	Sample Name	Method Type	Run	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr	Rng	Remarks
1	ZZZZZ	toc	Sample	1	2.000	0	1.00	No		
2	CCV	toc	Sample	1	2.000	0	1.00	No		TV=25 P
3	CCB	toc	Sample	1	2.000	0	1.00	No		
4	LCS-2X	toc	Sample	1	2.000	0	1.00	No		P153-51
5	LCS2-2X	toc	Sample	1	2.000	0	1.00	No		P153-51

Pos#	Remarks
2	TV=25 PPM Range-90-110%
4	P153-516 TV=69.4 @ 2X
5	P153-516 TV=69.4 @ 2X
6	P153-516 TV=69.4 @ 2X

****
** RESULTS - 072210 **
****

Pos/Vial: 1 Name: ZZZZZ Analyzed: 22Jul2010 08:25
Run ID: 0 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722000	22Jul2010 08:25	-	-	-	773	0.091	0.045	-	-	-

Pos/Vial: 2 Name: CCV Analyzed: 22Jul2010 08:36
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: TV=25 PPM Range-90-110%

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722001	22Jul2010 08:36	-	-	-	38082	51.361	25.681	-	-	-

Pos/Vial: 3 Name: CCB Analyzed: 22Jul2010 08:47
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722002	22Jul2010 08:47	-	-	-	781	0.102	0.051	-	-	-

0203226.30

Pos/Vial: 4 Name: LCS-2X Analyzed: 22Jul2010 08:57
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722003	22Jul2010 08:57	-	-	-	49448	66.981	33.490	-	-	-

0203226.30

66.98

Pos/Vial: 5 Name: LCS2-2X Analyzed: 22Jul2010 09:08
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722004	22Jul2010 09:08	-	-	-	49960	67.684	33.842	-	-	-

****
** SEQUENCE **
****

676.84 0203229/31

TV 69.4

072210A Thu Jul 22 09:36:27 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 19

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4GJG	toc	Sample	1	2.000	0	1.00	No	
2	L4GJG-MS	toc	Sample	1	2.000	0	1.00	No	
3	L4GJG-MSD	toc	Sample	1	2.000	0	1.00	No	
4	L4G39	toc	Sample	1	2.000	0	1.00	No	
5	L4G39-MS	toc	Sample	1	2.000	0	1.00	No	
6	L4G39-MSD	toc	Sample	1	2.000	0	1.00	No	
7	L3DKW	toc	Sample	1	2.000	0	1.00	No	
8	CCV	toc	Sample	1	2.000	0	1.00	No	
9	CCB	toc	Sample	1	2.000	0	1.00	No	
10	L-BLK 7-21	toc	Sample	4	2.000	0	1.00	No	
11	L4FE6	toc	Sample	4	2.000	0	1.00	No	
12	L4FE6-MS	toc	Sample	1	2.000	0	1.00	No	
13	L4FE6-MSD	toc	Sample	1	2.000	0	1.00	No	
14	L-BLK 7-22	toc	Sample	1	2.000	0	1.00	No	
15	L4GV7	toc	Sample	1	2.000	0	1.00	No	
16	L4GV7-MS	toc	Sample	1	2.000	0	1.00	No	
17	L4GV7-MSD	toc	Sample	1	2.000	0	1.00	No	
18	CCV	toc	Sample	1	2.000	0	1.00	No	
19	CCB	toc	Sample	1	2.000	0	1.00	No	

****
** RESULTS - 072210A **
****

Pos/Vial: 1 Name: L4GJG Analyzed: 22Jul2010 09:47
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722005	22Jul2010 09:47	-	-	-	6410	7.837	3.919	-	-	-

Pos/Vial: 2 Name: L4GJG-MS Analyzed: 22Jul2010 09:58
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722006	22Jul2010 09:58	-	-	-	23418	31.210	15.605	-	-	-

31.21

Pos/Vial: 3 Name: L4GJG-MSD Analyzed: 22Jul2010 10:09
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722007	22Jul2010 10:09	-	-	-	24068	32.103	16.052	-	-	-

32.104

Pos/Vial: 4 Name: L4G39 Analyzed: 22Jul2010 10:19

Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722008	22Jul2010	10:19	-	-	-	2674	2.703	1.352	-	-	-

L4G39

Pos/Vial: 5 Name: L4G39-MS Analyzed: 22Jul2010 10:30
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722009	22Jul2010	10:30	-	-	-	20370	27.021	13.511	-	-	-

27.022

Pos/Vial: 6 Name: L4G39-MSD Analyzed: 22Jul2010 10:40
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722010	22Jul2010	10:40	-	-	-	20219	26.814	13.407	-	-	-

26.814

Pos/Vial: 7 Name: L3DKW Analyzed: 22Jul2010 10:51
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722011	22Jul2010	10:51	-	-	-	10561	13.542	6.771	-	-	-

Pos/Vial: 8 Name: CCV Analyzed: 22Jul2010 11:01
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722012	22Jul2010	11:01	-	-	-	36102	48.640	24.320	-	-	-

97%

Pos/Vial: 9 Name: CCB Analyzed: 22Jul2010 11:12
Run ID: 8 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

~~02032231~~ TH 7/23/10

1 0722013 22Jul2010 11:12 - - - 640 0.000 0.000 - - -

Pos/Vial: 10 Name: L-BLK 7-21 Analyzed: 22Jul2010 11:22
Run ID: 9 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722014	22Jul2010 11:22	-	-	-	1822	1.532	0.766	-	-	-
2	0722014	22Jul2010 11:32	-	-	-	1677	1.333	0.666	-	-	-
3	0722014	22Jul2010 11:42	-	-	-	1755	1.440	0.720	-	-	-
4	0722014	22Jul2010 11:52	-	-	-	1766	1.455	0.728	-	-	-
Avg						1755	1.440	0.720			
Std.Dev.						59.705					
RSD (%)						3.40					

TH 7/23/10
02032231.31
7.20

Pos/Vial: 11 Name: L4FE6 Analyzed: 22Jul2010 12:02
Run ID: 10 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722015	22Jul2010 12:02	-	-	-	4421	5.104	2.552	-	-	-
2	0722015	22Jul2010 12:12	-	-	-	4265	4.889	2.445	-	-	-
3	0722015	22Jul2010 12:22	-	-	-	4080	4.635	2.318	-	-	-
4	0722015	22Jul2010 12:32	-	-	-	4103	4.667	2.333	-	-	-
Avg						4217	4.824	2.412			
Std.Dev.						158.834					
RSD (%)						3.77					

24.12

Pos/Vial: 12 Name: L4FE6-MS Analyzed: 22Jul2010 12:43
Run ID: 11 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722016	22Jul2010 12:43	-	-	-	21126	28.060	14.030	-	-	-

280.6

TV
250

Pos/Vial: 13 Name: L4FE6-MSD Analyzed: 22Jul2010 12:53
Run ID: 12 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722017	22Jul2010 12:53	-	-	-	20829	27.652	13.826	-	-	-

276.52

Pos/Vial: 14 Name: L-BLK 7-22 Analyzed: 22Jul2010 13:04

Run ID: 13 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722018	22Jul2010 13:04	-	-	-	1591	1.215	0.607	-	-	-

CBLK 0203229
6.07

Pos/Vial: 15 Name: L4GV7 Analyzed: 22Jul2010 13:14
Run ID: 14 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722019	22Jul2010 13:14	-	-	-	24047	32.074	16.037	-	-	-

160.37

Pos/Vial: 16 Name: L4GV7-MS Analyzed: 22Jul2010 13:25
Run ID: 15 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722020	22Jul2010 13:25	-	-	-	29353	39.366	19.683	-	-	-

393.66

Pos/Vial: 17 Name: L4GV7-MSD Analyzed: 22Jul2010 13:35
Run ID: 16 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722021	22Jul2010 13:35	-	-	-	30912	41.508	20.754	-	-	-

415.08

Pos/Vial: 18 Name: CCV Analyzed: 22Jul2010 13:46
Run ID: 17 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722022	22Jul2010 13:46	-	-	-	36501	49.189	24.594	-	-	-

98%

Pos/Vial: 19 Name: CCB Analyzed: 22Jul2010 13:56
Run ID: 18 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

CCB

1 0722023 22Jul2010 13:56 - - - 559 0.000 0.000 - - -

****

** SEQUENCE **

****

072210B Thu Jul 22 14:14:44 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 21

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4GJT	toc	Sample	1	2.000	0	1.00	No	
2	L4GJV	toc	Sample	1	2.000	0	1.00	No	
3	L3GJ0	toc	Sample	1	2.000	0	1.00	No	
4	L3GJ1	toc	Sample	1	2.000	0	1.00	No	
5	L4ELT	toc	Sample	1	2.000	0	1.00	No	
6	L4EL1	toc	Sample	1	2.000	0	1.00	No	
7	L4EL2	toc	Sample	1	2.000	0	1.00	No	
8	L4EL3	toc	Sample	1	2.000	0	1.00	No	
9	L4EL4	toc	Sample	1	2.000	0	1.00	No	
10	L45GE	toc	Sample	1	2.000	0	1.00	No	
11	CCV	toc	Sample	1	2.000	0	1.00	No	
12	CCB	toc	Sample	1	2.000	0	1.00	No	
13	L4G5P	toc	Sample	1	2.000	0	1.00	No	
14	L4G51	toc	Sample	1	2.000	0	1.00	No	
15	L4G54	toc	Sample	1	2.000	0	1.00	No	
16	L4G56	toc	Sample	1	2.000	0	1.00	No	
17	L4G6A	toc	Sample	1	2.000	0	1.00	No	
18	L4G6F	toc	Sample	1	2.000	0	1.00	No	
19	L4G6J	toc	Sample	1	2.000	0	1.00	No	
20	CCV	toc	Sample	1	2.000	0	1.00	No	
21	CCB	toc	Sample	1	2.000	0	1.00	No	

****

** RESULTS - 072210B **

****

Pos/Vial: 1 Name: L4GJT Analyzed: 22Jul2010 14:25
Run ID: 19 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0722024	22Jul2010	14:25	-	-	-	5138	6.089	3.045	-	-	-

Pos/Vial: 2 Name: L4GJV Analyzed: 22Jul2010 14:36
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0722025	22Jul2010	14:36	-	-	-	4801	5.626	2.813	-	-	-

Pos/Vial: 3 Name: L3GJ0 Analyzed: 22Jul2010 14:46

Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722026	22Jul2010 14:46	-	-	-	2986	3.132	1.566	-	-	-

L3GJ0

Pos/Vial: 4 Name: L3GJ1 Analyzed: 22Jul2010 14:57
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722027	22Jul2010 14:57	-	-	-	1350	0.884	0.442	-	-	-

Pos/Vial: 5 Name: L4ELT Analyzed: 22Jul2010 15:07
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722028	22Jul2010 15:07	-	-	-	1883	1.616	0.808	-	-	-

Pos/Vial: 6 Name: L4EL1 Analyzed: 22Jul2010 15:18
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722029	22Jul2010 15:18	-	-	-	1771	1.462	0.731	-	-	-

Pos/Vial: 7 Name: L4EL2 Analyzed: 22Jul2010 15:28
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									
1	0722030	22Jul2010 15:28	-	-	-	1141	0.596	0.298	-	-	-

Pos/Vial: 8 Name: L4EL3 Analyzed: 22Jul2010 15:39
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
Rep	Datafile	Date Time									

L4EL3

1 0722031 22Jul2010 15:39 - - - 1779 1.473 0.737 - - -

Pos/Vial: 9 Name: L4EL4 Analyzed: 22Jul2010 15:49
Run ID: 8 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722032	22Jul2010 15:49	-	-	-	1179	0.649	0.324	-	-	-

G5
Pos/Vial: 10 Name: L45GE Analyzed: 22Jul2010 16:00
Run ID: 9 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722033	22Jul2010 16:00	-	-	-	2583	2.578	1.289	-	-	-

Pos/Vial: 11 Name: CCV Analyzed: 22Jul2010 16:10
Run ID: 10 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722034	22Jul2010 16:10	-	-	-	36168	48.731	24.365	-	-	-

97%

Pos/Vial: 12 Name: CCB Analyzed: 22Jul2010 16:21
Run ID: 11 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722035	22Jul2010 16:21	-	-	-	532	0.000	0.000	-	-	-

Pos/Vial: 13 Name: L4G5P Analyzed: 22Jul2010 16:31
Run ID: 12 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0722036	22Jul2010 16:31	-	-	-	1023	0.434	0.217	-	-	-

Pos/Vial: 14 Name: L4G51 Analyzed: 22Jul2010 16:42
Run ID: 13 Meth: toc Vol (mL): 2.000
Remarks: <none>

L4G51

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722037	22Jul2010 16:42	-	-	-	2989	3.136	1.568	-	-	-

Pos/Vial: 15 Name: L4G54 Analyzed: 22Jul2010 16:52
Run ID: 14 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722038	22Jul2010 16:52	-	-	-	3080	3.261	1.630	-	-	-

Pos/Vial: 16 Name: L4G56 Analyzed: 22Jul2010 17:03
Run ID: 15 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722039	22Jul2010 17:03	-	-	-	3399	3.699	1.850	-	-	-

Pos/Vial: 17 Name: L4G6A Analyzed: 22Jul2010 17:13
Run ID: 16 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722040	22Jul2010 17:13	-	-	-	3359	3.644	1.822	-	-	-

Pos/Vial: 18 Name: L4G6F Analyzed: 22Jul2010 17:24
Run ID: 17 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722041	22Jul2010 17:24	-	-	-	2369	2.284	1.142	-	-	-

Pos/Vial: 19 Name: L4G6J Analyzed: 22Jul2010 17:34
Run ID: 18 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722042	22Jul2010 17:34	-	-	-	3903	4.392	2.196	-	-	-

Pos/Vial: 20 Name: CCV Analyzed: 22Jul2010 17:45
Run ID: 19 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722043	22Jul2010	17:45	-	-	-	35741	48.144	24.072	-	-	-

96 Z

Pos/Vial: 21 Name: CCB Analyzed: 22Jul2010 17:55
Run ID: 20 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0722044	22Jul2010	17:55	-	-	-	524	0.000	0.000	-	-	-

TESTAMERICA NORTH CANTON
D.I. LEACH LOGSHEET

Prep Date 7/22/10 Batch

Analyst(s) TH Start Time 815

Analysis TOC (415.1) End Time 915

Sample	Sample Amount (g)	D.I. Water Volume (mL)	Comments
2-BLK	0	200	
24GV7	19.98	200	

TH 7/22/10

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TESTAMERICA NORTH CANTON
D.I. LEACH LOGSHEET

Prep Date 7/22/10 Batch

Analyst(s) TH Start Time 815

Analysis TOC (415.1) End Time 915

Sample	Sample Amount (g)	D.I. Water Volume (mL)	Comments
2-BLK	0	200	
24GV7	19.98	200	

TH 7/22/10

N:\QAQC\LAB_FORM\Wet Chem DI Leach Log.doc

	TestAmerica, North Canton				
	376.1 / 4500-S2-E Sulfide Logsheet				
Prep Date	07/27/10		Batch	0208313/4	
Anal Date	07/27/10				
			Lcs No.	SD0008	
Analyst	BW		Prep Date	06/28/10	
Titrant	Sodium		**WR00613**		
Name	Thiosulfate		Iodine	**WR00446**	
Normality	0.0254		Normality	0.0281	
Standardization	06/28/10		Date	07/27/10	
Intials	JB		Intials	BW	
Sample No.	Sample Vol	dil	Titrant Vol (ml)	Final Conc mg/L or mg/kg	Time
BLK	250	1	22.2	-0.12	15:13
LCS	250	1	11.8	16.79	15:14
LCS DUP	250	1	11.8	16.79	15:14
LCS 3	250	1	12.0	16.46	15:14
L4G3P	250	1	19.7	3.94	15:14
L4G3W	250	1	20.0	3.46	15:14
L4G3X	250	1	18.5	5.89	15:14
L4G30	250	1	19.4	4.43	15:14
L4G31	250	1	21.6	0.86	15:14
L4J2C	250	1	21.6	0.86	15:14
L4J2L	250	1	21.5	1.02	15:14
L4J2X	250	1	21.5	1.02	15:14
L4J28	250	1	21.6	0.86	15:14
L4J3D	250	1	21.6	0.86	15:14
L4GJG	250	1	22	0.20	15:14
L4GJT	250	1	23.2	-1.75	15:14
L4GJV	250	1	22.8	-1.10	15:14
L4GJ0	250	1	22.8	-1.10	15:14
L4GJ1	250	1	23	-1.42	15:14
				#DIV/0!	
BLK 1	250	1	22.2	-0.12	15:12
BLK 2	250	1	22	0.20	15:12
BLK 3	250	1	22	0.20	15:12
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	

Starch **WR00719**

QC/Calc

TV=16.68

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): T ALK, B ALK, C ALK

Batch(es): 020780/24/5

Method #/SOP#: 310.1

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓			✓		
2. Calibration curve consist of the minimum number of calibration standards?	✓			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓			# OC 7/28/10		✓
B. Continuing Calibration	✓					
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?			✓			✓
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			✓
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓			✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?	✓			✓		
E. Titrant		✓	~~✓~~ KH	7-26-10	✓	
1. Titrant standardized?						
2. If no, standardization expires 8-8-10	✓					
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			✓
2. Calculations checked for error ?	✓			✓		
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?	✓			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			✓
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓			✓		
10. All reagent and standard numbers recorded in logbook?	✓			✓		
11. Edits dated and initialed	✓			✓		

Comment on any "NO" response(s):

Level I reviewer: [signature] **Date:** 7-28-10

Level II Reviewer: OC **Date:** 7/28/10

N:\Inorganics\spreadsheets2\Use This Wet Chem_Level I.doc
Corporate Policy, QA-012
Revision date: 08/25/00

Test America

Analyst_____
LCS _____
Date _____

KH 8-26-10
Already reported

0207280/2 84 85

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4A8G	7/23/10	10:37 AM	0000.00	9.5799	320.7730	1409.2607	767.7147	641.5461	0.0000	0.0000	.00	.00
L4A8H	7/23/10	11:25 AM	0000.00	10.8592	1154.0546	2026.1444	0.0000	1744.1797	281.9647	0.0000	.00	.00
L4A8K	7/23/10	11:44 AM	0000.00	7.8796	0.0000	519.3306	519.3306	0.0000	0.0000	0.0000	.00	.00
PH 7-7	7/23/10	11:49 AM	0000.00	6.9992	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00

Test America

310.1

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
PH 7	7/23/10	9:19 AM	0000.00	7.0095	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
LCS P179506TV=111	7/23/10	9:31 AM	0000.00	9.0561	59.1530	109.3824	0.0000	100.4588	8.9236	0.0000	.00	.00
BLANK	7/23/10	9:40 AM	0000.00	6.4924	0.0000	2.9511	2.9511	0.0000	0.0000	0.0000	.00	.00
PH 7 1	7/23/10	9:45 AM	0000.00	7.0034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00

Test America

Analyst_____
LCS _____
Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4A8J	7/23/10	2:05 PM	0000.00	10.4258	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4A8L	7/23/10	2:52 PM	0000.00	10.9107	1139.9413	2014.2261	0.0000	1748.5696	265.6565	0.0000	.00	.00
L4A8L X	7/23/10	3:38 PM	0000.00	10.8742	1136.1952	2009.7378	0.0000	1747.0852	262.6526	0.0000	.00	.00
~~L3AH8~~	7/23/10	3:53 PM	0000.00	7.8776	0.0000	290.1925	290.1925	0.0000	0.0000	0.0000	.00	.00
~~L3AH8~~ MS	7/23/10	4:13 PM	0000.00	9.6590	147.5421	637.7001	342.6158	295.0843	0.0000	0.0000	.00	.00
~~L3AH8~~ MSD	7/23/10	4:33 PM	0000.00	9.6651	152.8637	637.7140	331.9866	305.7274	0.0000	0.0000	.00	.00
L38KC	7/23/10	4:51 PM	0000.00	7.5125	0.0000	494.0922	494.0922	0.0000	0.0000	0.0000	.00	.00
L4ARL	7/23/10	5:30 PM	0000.00	7.6646	0.0000	458.5639	458.5639	0.0000	0.0000	0.0000	.00	.00
L4ATK	7/23/10	5:47 PM	0000.00	7.7194	0.0000	457.0056	457.0056	0.0000	0.0000	0.0000	.00	.00
L4EGH	7/23/10	6:11 PM	0000.00	7.1373	0.0000	812.1848	812.1848	0.0000	0.0000	0.0000	.00	.00
PH 7-2	7/23/10	6:16 PM	0000.00	6.9952	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4EKV	7/23/10	6:42 PM	0000.00	7.1027	0.0000	889.2652	889.2652	0.0000	0.0000	0.0000	.00	.00
L4EKW	7/23/10	7:00 PM	0000.00	7.4009	0.0000	524.7201	524.7201	0.0000	0.0000	0.0000	.00	.00
L4EKX	7/23/10	7:24 PM	0000.00	7.3867	0.0000	796.0722	796.0722	0.0000	0.0000	0.0000	.00	.00
L4EK0	7/23/10	7:47 PM	0000.00	7.3705	0.0000	742.3951	742.3951	0.0000	0.0000	0.0000	.00	.00
L4EK2	7/23/10	8:17 PM	0000.00	7.2244	0.0000	1172.8342	1172.8342	0.0000	0.0000	0.0000	.00	.00
L4EK4	7/23/10	8:39 PM	0000.00	7.3299	0.0000	682.6369	682.6369	0.0000	0.0000	0.0000	.00	.00
L4ELC	7/23/10	8:47 PM	0000.00	6.0827	0.0000	2.6562	2.6562	0.0000	0.0000	0.0000	.00	.00
L4ELG	7/23/10	9:11 PM	0000.00	7.2995	0.0000	802.8000	802.8000	0.0000	0.0000	0.0000	.00	.00
L4F4M	7/23/10	9:32 PM	0000.00	7.5491	0.0000	605.9637	605.9637	0.0000	0.0000	0.0000	.00	.00

L38H8 KH 7-26-10

Analyst_____
LCS _____
Date _____

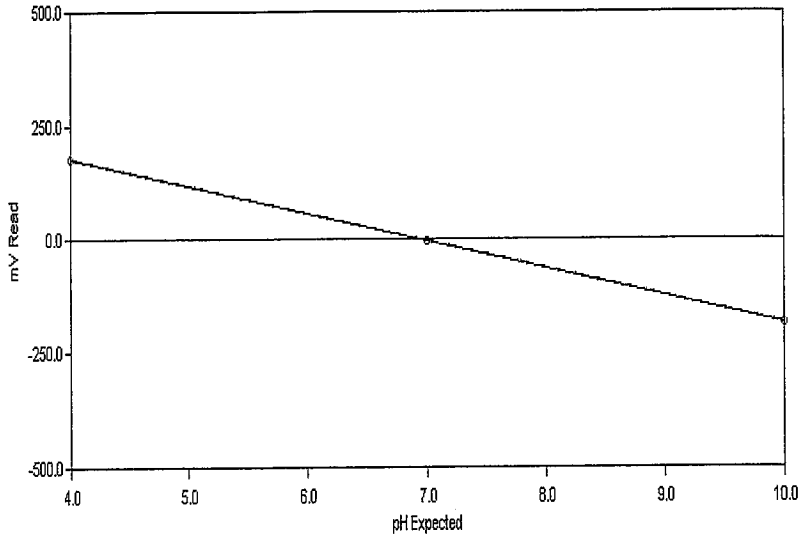
Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4F49	7/23/10	9:53 PM	0000.00	7.6544	0.0000	681.6354	681.6354	0.0000	0.0000	0.0000	.00	.00
PH 7-3	7/23/10	9:58 PM	0000.00	6.9952	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4F5A	7/23/10	10:17 PM	0000.00	7.5064	0.0000	586.2983	586.2983	0.0000	0.0000	0.0000	.00	.00
LCSP179506TV=111	7/23/10	10:30 PM	0000.00	9.0237	57.9480	120.0990	4.2030	115.8959	0.0000	0.0000	.00	.00
BLANK 2	7/23/10	10:38 PM	0000.00	6.1151	0.0000	2.3112	2.3112	0.0000	0.0000	0.0000	.00	.00
L4F5D	7/23/10	11:07 PM	0000.00	7.3847	0.0000	1044.3595	1044.3595	0.0000	0.0000	0.0000	.00	.00
L4F5E	7/23/10	11:35 PM	0000.00	7.5390	0.0000	1061.9531	1061.9531	0.0000	0.0000	0.0000	.00	.00
L4F5E MS	7/24/10	12:09 AM	0000.00	8.0217	0.0000	1326.7913	1326.7913	0.0000	0.0000	0.0000	.00	.00
L4F5E MSD	7/24/10	12:42 AM	0000.00	8.0377	0.0000	1302.4415	1302.4415	0.0000	0.0000	0.0000	.00	.00
L4F5F	7/24/10	1:12 AM	0000.00	7.4314	0.0000	1077.8510	1077.8510	0.0000	0.0000	0.0000	.00	.00
L4F5H	7/24/10	1:45 AM	0000.00	7.3259	0.0000	1334.6460	1334.6460	0.0000	0.0000	0.0000	.00	.00
PH7 5	7/24/10	1:50 AM	0000.00	6.9891	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4F5J	7/24/10	2:21 AM	0000.00	7.3096	0.0000	1149.3752	1149.3752	0.0000	0.0000	0.0000	.00	.00
L4F5K	7/24/10	2:29 AM	0000.00	6.0422	0.0000	2.3017	2.3017	0.0000	0.0000	0.0000	.00	.00
L4F5L	7/24/10	2:51 AM	0000.00	7.7213	0.0000	681.2530	681.2530	0.0000	0.0000	0.0000	.00	.00
L4J1J	7/24/10	3:06 AM	0000.00	8.0520	0.0000	358.5486	358.5486	0.0000	0.0000	0.0000	.00	.00
L4GHT	7/24/10	3:23 AM	0000.00	7.1494	0.0000	446.8783	446.8783	0.0000	0.0000	0.0000	.00	.00
L4GHX	7/24/10	3:35 AM	0000.00	6.7419	0.0000	138.7277	138.7277	0.0000	0.0000	0.0000	.00	.00
L4GH4	7/24/10	3:43 AM	0000.00	5.7805	0.0000	8.3937	8.3937	0.0000	0.0000	0.0000	.00	.00
L4GJG	7/24/10	3:56 AM	0000.00	7.0197	0.0000	219.5930	219.5930	0.0000	0.0000	0.0000	.00	.00
L4GJT	7/24/10	4:09 AM	0000.00	7.2772	0.0000	261.7990	261.7990	0.0000	0.0000	0.0000	.00	.00
L4GJV	7/24/10	4:23 AM	0000.00	6.9467	0.0000	249.9059	249.9059	0.0000	0.0000	0.0000	.00	.00
PH 7	7/24/10	4:29 AM	0000.00	6.9871	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4GJ0	7/24/10	4:40 AM	0000.00	7.0865	0.0000	105.8118	105.8118	0.0000	0.0000	0.0000	.00	.00
L4GJ1	7/24/10	4:50 AM	0000.00	7.0966	0.0000	52.5773	52.5773	0.0000	0.0000	0.0000	.00	.00

Analyst_____
LCS _____
Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4JAH	7/24/10	5:08 AM	0000.00	7.6017	0.0000	472.9201	472.9201	0.0000	0.0000	0.0000	.00	.00
L4JAM	7/24/10	5:32 AM	0000.00	7.1169	0.0000	790.1774	790.1774	0.0000	0.0000	0.0000	.00	.00
PH7-7	7/24/10	5:38 AM	0000.00	6.9912	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
SOAK-2	7/24/10	6:10 AM	0000.00	6.8392	0.0000	1311.3005	1311.3005	0.0000	0.0000	0.0000	.00	.00

Calibration Report

Calibration Record # 4264



Calibration Settings

Calibration ID	PH CAL 4-7-10 ALK	Date	7/23/10
Channel	1	Time	9:14 AM
Probe Type	pH	Temperature	298.58 K 25.43 C
Probe ID	PH ELECTRODE WCP56	Analysis Type	Single Line Fit

Calibration Results

Slope	-60.178	CorrCoeff	1.0000
Intercept	-2.967	Equation: Y = (-60.178) X + (-2.967)	

Calibration Validity True Operator A

	Result	Minimum	Maximum
Slope	-60.178	-85.00	-45.00
Intercept	-2.967	-100.00	100.00
Correlation Coefficient	1.0000	1.00	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	**Standard**	**Reading**
	4.00 H46511	177.24
	7.00 J05518	-2.31
	10.00 J04532	-183.83

Low
H_2SO_4 .02N WR00667 exp. 8/8/10
LCS TV=111 P179-506
MS/MSD 1 ml of AL9002 into 50 TV = 500 mg/L

CALRPRT.SRW

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	TestAmerica, North Canton				
	376.1 / 4500-S2-E Sulfide Logsheet				
Prep Date	07/27/10		Batch	0208313/4	
Anal Date	07/27/10				
			Lcs No.	SD0008	
Analyst	BW		Prep Date	06/28/10	
Titrant	Sodium		**WR00613**		
Name	Thiosulfate		Iodine	**WR00446**	
Normality	0.0254		Normality	0.0281	
Standardization	06/28/10		Date	07/27/10	
Intials	JB		Intials	BW	
Sample No.	Sample Vol	dil	Titrant Vol (ml)	Final Conc mg/L or mg/kg	Time
BLK	250	1	22.2	-0.12	15:13
LCS	250	1	11.8	16.79	15:14
LCS DUP	250	1	11.8	16.79	15:14
LCS 3	250	1	12.0	16.46	15:14
L4G3P	250	1	19.7	3.94	15:14
L4G3W	250	1	20.0	3.46	15:14
L4G3X	250	1	18.5	5.89	15:14
L4G30	250	1	19.4	4.43	15:14
L4G31	250	1	21.6	0.86	15:14
L4J2C	250	1	21.6	0.86	15:14
L4J2L	250	1	21.5	1.02	15:14
L4J2X	250	1	21.5	1.02	15:14
L4J28	250	1	21.6	0.86	15:14
L4J3D	250	1	21.6	0.86	15:14
L4GJG	250	1	22	0.20	15:14
L4GJT	250	1	23.2	-1.75	15:14
L4GJV	250	1	22.8	-1.10	15:14
L4GJ0	250	1	22.8	-1.10	15:14
L4GJ1	250	1	23	-1.42	15:14
				#DIV/0!	
BLK 1	250	1	22.2	-0.12	15:12
BLK 2	250	1	22	0.20	15:12
BLK 3	250	1	22	0.20	15:12
				#DIV/0!	
				#DIV/0!	
				#DIV/0!	

Starch **WR00719**

QC/Calc

TV=16.68

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0G210469	1		L4GJG1AD	Sulfide (376.1)	07/27/10	Bruce Woodward	07/27/10	Bruce Woodward
A0G210469	1		L4GJG1AF	Sulfate (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	1		L4GJG1AG	Chloride (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	1		L4GJG1AK	Nitrate as N (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	1		L4GJG1AA	Alkalinity, Total (310.1)	07/24/10	Kyle Henry	07/24/10	Kyle Henry
A0G210469	1		L4GJG1AC	Carbon, Total Organic "TOC" (415.1)	07/22/10	Tom Harshman	07/22/10	Tom Harshman
A0G210469	1	S	L4GJG1AL	Carbon, Total Organic "TOC" (415.1)	07/22/10	Tom Harshman	07/22/10	Tom Harshman
A0G210469	1	D	L4GJG1AM	Carbon, Total Organic "TOC" (415.1)	07/22/10	Tom Harshman	07/22/10	Tom Harshman
A0G210469	2		L4GJT1AD	Sulfide (376.1)	07/27/10	Bruce Woodward	07/27/10	Bruce Woodward
A0G210469	2		L4GJT1AF	Sulfate (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	2		L4GJT1AG	Chloride (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	2		L4GJT1AK	Nitrate as N (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	2		L4GJT1AA	Alkalinity, Total (310.1)	07/24/10	Kyle Henry	07/24/10	Kyle Henry
A0G210469	2		L4GJT1AC	Carbon, Total Organic "TOC" (415.1)	07/22/10	Tom Harshman	07/22/10	Tom Harshman
A0G210469	3		L4GJV1AD	Sulfide (376.1)	07/27/10	Bruce Woodward	07/27/10	Bruce Woodward
A0G210469	3		L4GJV1AE	Nitrate as N (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	3		L4GJV1AF	Sulfate (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	3		L4GJV1AG	Chloride (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	3		L4GJV1AA	Alkalinity, Total (310.1)	07/24/10	Kyle Henry	07/24/10	Kyle Henry
A0G210469	3		L4GJV1AC	Carbon, Total Organic "TOC" (415.1)	07/22/10	Tom Harshman	07/22/10	Tom Harshman
A0G210469	4		L4GJ01AD	Sulfide (376.1)	07/27/10	Bruce Woodward	07/27/10	Bruce Woodward
A0G210469	4		L4GJ01AE	Nitrate as N (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	4		L4GJ01AF	Sulfate (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	4		L4GJ01AG	Chloride (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	4		L4GJ01AA	Alkalinity, Total (310.1)	07/24/10	Kyle Henry	07/24/10	Kyle Henry
A0G210469	4		L4GJ01AC	Carbon, Total Organic "TOC" (415.1)	07/22/10	Tom Harshman	07/22/10	Tom Harshman
A0G210469	5		L4GJ11AD	Sulfide (376.1)	07/27/10	Bruce Woodward	07/27/10	Bruce Woodward

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0G210469	5		L4GJ11AE	Nitrate as N (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	5		L4GJ11AF	Sulfate (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	5		L4GJ11AG	Chloride (300.0A, Ion Chromatography)	07/21/10	Jill Burns	07/21/10	Jill Burns
A0G210469	5		L4GJ11AA	Alkalinity, Total (310.1)	07/24/10	Kyle Henry	07/24/10	Kyle Henry
A0G210469	5		L4GJ11AC	Carbon, Total Organic "TOC" (415.1)	07/22/10	Tom Harshman	07/22/10	Tom Harshman

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 104-0012-0200

CARROLL+DUBIES (C+D)

Lot #: A0G220446

Barbara Jones

Cardinal Resources
1505 E Carson Street
Suite #200
Pittsburgh, PA 15203

TESTAMERICA LABORATORIES, INC.

Approved for release.
Denise D. Heckler
Project Manager
8/12/2010 4:05 PM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

August 12, 2010

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0G220446

The following report contains the analytical results for eight water samples and one quality control sample submitted to TestAmerica North Canton by Cardinal Resources from the Carroll +Dubies (C+D) Site, project number 104-0012-0200. The samples were received July 22, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Barbara Jones, John Vogeding, and Steve Bodnar on August 05, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit with the exception of Dissolved Gases in Water and Volatile Organics by GC/MS which were evaluated to the method detection limit and include appropriate qualifiers.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 1.5 and 2.3°C.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

DISSOLVED GASES/RSK

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 0204174 and 0204187 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0G220446

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
OW13R 07/21/10 09:10 002				
Ethane	0.46 J	0.50	ug/L	RSK SOP-175
Methane	670	0.50	ug/L	RSK SOP-175
Vinyl chloride	1.2 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.70 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.35 J	1.0	ug/L	SW846 8260B
Benzene	17	1.0	ug/L	SW846 8260B
Chloride	2.8	1.0	mg/L	MCAWW 300.0A
Sulfate	25.1	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	340	5.0	mg/L	MCAWW 310.1
DUP1 07/21/10 003				
Ethane	0.54	0.50	ug/L	RSK SOP-175
Methane	720	0.50	ug/L	RSK SOP-175
Vinyl chloride	1.2 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.78 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.35 J	1.0	ug/L	SW846 8260B
Benzene	17	1.0	ug/L	SW846 8260B
Chloride	2.8	1.0	mg/L	MCAWW 300.0A
Sulfate	25.2	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	330	5.0	mg/L	MCAWW 310.1
PUMP RINSE 07/21/10 09:45 004				
Acetone	1.5 J	10	ug/L	SW846 8260B
OW5 07/21/10 10:50 005				
Methane	0.82	0.50	ug/L	RSK SOP-175
1,2-Dichloroethene (total)	4.8	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
Benzene	0.37 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.2	1.0	ug/L	SW846 8260B
Chloride	7.6	1.0	mg/L	MCAWW 300.0A
Sulfate	54.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.92	0.10	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0G220446

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
OW5 07/21/10 10:50 005				
Total Organic Carbon	1	1	mg/L	MCAWW 415.1
Total Alkalinity	100	5.0	mg/L	MCAWW 310.1
OW6 07/21/10 11:55 006				
Chloromethane	0.31 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	20	1.0	ug/L	SW846 8260B
Trichloroethene	8.6	1.0	ug/L	SW846 8260B
Tetrachloroethene	42	1.0	ug/L	SW846 8260B
Chloride	1.2	1.0	mg/L	MCAWW 300.0A
Sulfate	24.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.21	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	35	5.0	mg/L	MCAWW 310.1
OW2 07/21/10 13:00 007				
Methane	0.14 J	0.50	ug/L	RSK SOP-175
Acetone	1.4 J	10	ug/L	SW846 8260B
1,2-Dichloroethene (total)	39	1.0	ug/L	SW846 8260B
Trichloroethene	12	1.0	ug/L	SW846 8260B
Tetrachloroethene	77	1.0	ug/L	SW846 8260B
Chloride	2.0	1.0	mg/L	MCAWW 300.0A
Sulfate	15.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	4.7	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	34	5.0	mg/L	MCAWW 310.1
MW1 07/21/10 14:10 008				
Methane	0.18 J	0.50	ug/L	RSK SOP-175
Chloride	3.2	1.0	mg/L	MCAWW 300.0A
Sulfate	10.8	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.69	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon	1	1	mg/L	MCAWW 415.1
Total Alkalinity	110	5.0	mg/L	MCAWW 310.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0G220446

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0A
Dissolved Gases in Water	RSK SOP-175
Nitrate as N	MCAWW 300.0A
Sulfate	MCAWW 300.0A
Sulfide	MCAWW 376.1
Total Organic Carbon	MCAWW 415.1
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

SAMPLE SUMMARY

A0G220446

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4JDD	001	FIELD BLANK 2	07/21/10	09:00
L4JDK	002	OW13R	07/21/10	09:10
L4JD0	003	DUP1	07/21/10	
L4JD1	004	PUMP RINSE	07/21/10	09:45
L4JD3	005	OW5	07/21/10	10:50
L4JEC	006	OW6	07/21/10	11:55
L4JED	007	OW2	07/21/10	13:00
L4JEG	008	MW1	07/21/10	14:10
L4JEJ	009	TRIP BLANK	07/21/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica
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SHIPPING AND RECEIVING DOCUMENTS

(2) Coolers

Chain of Custody Record

TestAmerica 15
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Cardinal Resources, LLC	Client Project Manager: Barb Jones	Site Contact: John Vogeding	Lab Contact: Nathan Pietras
Address: 1505 E Carson St.	Telephone:	Telephone: 412-374-0989	Telephone:
City/State/Zip: Pittsburgh, PA 15203	Email: BJones@Cardinalres.com	Analysis Turnaround Time (in BUS days)	
Phone: 412 374-0989		TAT if different from below _____ ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Name: Carroll + Dubois (CHD)	Method of Shipment/Carrier: Fed Ex		
Project Number: 104-0012-0200	Shipping/Tracking No:		
PO #			

COC No: 1 of 1 COCs

Perform MS/MSD: ☐
Walk-in client: ☐
Lab pickup: ☐
Lab sampling: ☐
Job SUBK Not: ☐

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite = C Grab = G	Analyses: TCL VOCs	Methane/Ethane/Ethene	Sulfate	Sulfide	Alkalinity	Chloride	Nitrate(S)	TOC	Sample Specific Notes / Special Instructions:
Field Blank 2	7-21	0900		X						X					N		X								
OW13R		0910		X				X		X		X	X		N		X	X	X	X	X	X	X	X	
Dup 1		—		X				X		X		X	X		N		X	X	X	X	X	X	X	X	
Pump Rinse		0945		X						X		[redacted]			N		X								
OW5		1050		X				X		X		X	X		N		X	X	X	X	X	X	X	X	
OW5 MS		1100		X				X		X		X	X		N										
OW5 MSD		1110		X				X		X		X	X		N										
OW6		1155		X				X		X		X	X		N										
OW2		1300		X				X		X		X	X		N										
MW1		1410		X				X		X		X	X		N										

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Trip Blank	Lab Prepared	X	X

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Vogeding	Cardinal Res.	7-21-10 1600			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	7/22/10 915

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TAL-0018 (1008)

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240220446
North Canton Facility

Client Cardinal Resources Project _____ By: _____
Cooler Received on 7-22-10 Opened on 7-22-10 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☐
   If YES, Quantity_____ Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s)_____ were received after the recommended holding time had expired.
Sample(s)_____ were received in a broken container.
Sample(s)_____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 051010-HNO_3; *Sulfuric Acid Lot#* 121709-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
OW13R	>9	7/22/10	CS
DUP1	>9		
OW15	>9 >9 >9		
OW16	>9		
OW2	>9		
OW1	>9		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
Client	2.2	IR	Ice
CN33	1.5	I	I

Discrepancies Cont'd:

GCMS VOLATILE DATA

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QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G220446

Extraction: XXI25QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	FIELD BLANK 2	111	102	100	89	00
02	OW13R	108	96	100	89	00
03	DUP1	107	96	101	90	00
04	PUMP RINSE	106	98	100	88	00
05	OW5	109	99	99	86	00
06	OW6	108	95	100	86	00
07	OW2	110	100	100	86	00
08	MW1	112	99	100	86	00
09	TRIP BLANK	112	98	99	87	00
10	INTRA-LAB QC	110	97	99	87	00
11	METHOD BLK. L41D91AA	113	98	100	87	00
12	METHOD BLK. L42H81AA	112	99	102	87	00
13	LCS L41D91AC	109	92	103	95	00
14	LCS L42H81AC	112	96	105	95	00
15	OW5 D	110	93	103	94	00
16	LAB MS/MSD D	111	94	104	94	00
17	OW5 S	110	95	106	98	00
18	LAB MS/MSD S	111	96	103	95	00

SURROGATES		QC LIMITS
SRG01	= Dibromofluoromethane	(73-122)
SRG02	= 1,2-Dichloroethane-d4	(61-128)
SRG03	= Toluene-d8	(76-110)
SRG04	= 4-Bromofluorobenzene	(74-116)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H020000 WO #: L41D91AC
BATCH: 0214377

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	20	17	86	63 - 130	
Trichloroethene	20	23	115	75 - 122	
Benzene	20	21	103	80 - 116	
Toluene	20	21	104	74 - 119	
Chlorobenzene	20	20	102	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H030000 WO #: L42H81AC
BATCH: 0215323

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	20	18	92	63 - 130	
Trichloroethene	20	23	117	75 - 122	
Benzene	20	21	107	80 - 116	
Toluene	20	22	109	74 - 119	
Chlorobenzene	20	21	107	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G230474 WO #: L4K991CJ
BATCH: 0214377

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	67	50	110	89	62- 130	
Trichloroethene	67	ND	73	110	62- 130	
Benzene	67	ND	67	101	78- 118	
Toluene	67	ND	67	101	70- 119	
Chlorobenzene	67	ND	65	97	76- 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G230474 WO #: L4K991CK
BATCH: 0214377

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	67	110	87	0.95	20	62- 130	
Trichloroethene	67	74	111	0.61	20	62- 130	
Benzene	67	67	101	0.16	20	78- 118	
Toluene	67	69	103	2.2	20	70- 119	
Chlorobenzene	67	67	101	3.3	20	76- 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: OW5

Lot #: A0G220446 WO #: L4JD31A2
BATCH: 0215323

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	20	ND	18	88	62- 130	
Trichloroethene	20	1.6	25	117	62- 130	
Benzene	20	0.37	21	106	78- 118	
Toluene	20	ND	22	108	70- 119	
Chlorobenzene	20	ND	21	106	76- 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: OW5

Lot #: A0G220446 WO #: L4JD31A3
BATCH: 0215323

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	20	17	87	0.97	20	62- 130	
Trichloroethene	20	25	117	0.060	20	62- 130	
Benzene	20	22	106	0.42	20	78- 118	
Toluene	20	21	105	3.0	20	70- 119	
Chlorobenzene	20	21	105	1.5	20	76- 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L41D91AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: UX123006.

Lot Number: A0G220446

Date Analyzed: 08/01/10

Time Analyzed: 13:45

Matrix: WATER

Date Extracted: 08/01/10

GC Column: DB-624 ID: .18

Extraction Method: 5030B

Instrument ID: UX12

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	OW6	L4JEC1AJ	UX123025.	08/01/10	21:24
02	OW2	L4JED1AJ	UX123026.	08/01/10	21:49
03	MW1	L4JEG1AJ	UX123027.	08/01/10	22:13
04	TRIP BLANK	L4JEJ1AA	UX123028.	08/01/10	22:37
05	INTRA-LAB QC	L4K991CH	UX123007.	08/01/10	14:10
06	LAB MS/MSD	L4K991CJ S	UX123015.	08/01/10	17:21
07	LAB MS/MSD	L4K991CK D	UX123016.	08/01/10	17:45
08	CHECK SAMPLE	L41D91AC C	UX123005.	08/01/10	13:20
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L42H81AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: UX123034.

Lot Number: A0G220446

Date Analyzed: 08/02/10

Time Analyzed: 17:43

Matrix: WATER

Date Extracted: 08/02/10

GC Column: DB-624 ID: .18

Extraction Method: 5030B

Instrument ID: UX12

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	FIELD BLANK 2	L4JDD1AA	UX123045.	08/02/10	22:06
02	OW13R	L4JDK1AJ	UX123046.	08/02/10	22:31
03	DUP1	L4JD01AJ	UX123047.	08/02/10	22:55
04	PUMP RINSE	L4JD11AA	UX123048.	08/02/10	23:19
05	OW5	L4JD31A1	UX123035.	08/02/10	18:06
06	OW5	L4JD31A2 S	UX123043.	08/02/10	21:18
07	OW5	L4JD31A3 D	UX123044.	08/02/10	21:42
08	CHECK SAMPLE	L42H81AC C	UX123033.	08/02/10	17:18
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G220446

Lab File ID: BFB1108 BFB Injection Date: 11/11/09

Instrument ID: A3UX12 BFB Injection Time: 1945

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	47.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	73.4
175	5.0 - 9.0% of mass 174	5.4 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	70.9 (96.6)1
177	5.0 - 9.0% of mass 176	4.7 (6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD100	500NG-IC	UX129062	11/11/09	2145
02	VSTD050	250NG-IC	UX129063	11/11/09	2207
03	VSTD020	100NG-IC	UX129064	11/11/09	2230
04	VSTD005	25NG-IC	UX129065	11/11/09	2255
05	VSTD001	5NG-IC	UX129066	11/11/09	2320
06	VSTD0.5	2.5NG-IC	UX129067	11/11/09	2345
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G220446

Lab File ID: BFB1296 BFB Injection Date: 08/01/10

Instrument ID: A3UX12 BFB Injection Time: 1233

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	92.9
175	5.0 - 9.0% of mass 174	6.9 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	90.3 (97.2)1
177	5.0 - 9.0% of mass 176	5.7 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	100NG-CC	UX123004	08/01/10	1257
02	L41D9CHK	L41D91AC	UX123005	08/01/10	1320
03	L41D9BLK	L41D91AA	UX123006	08/01/10	1345
04	OW6	L4JEC1AJ	UX123025	08/01/10	2124
05	OW2	L4JED1AJ	UX123026	08/01/10	2149
06	MW1	L4JEG1AJ	UX123027	08/01/10	2213
07	TRIP BLANK	L4JEJ1AA	UX123028	08/01/10	2237
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G220446

Lab File ID: BFB1297 BFB Injection Date: 08/02/10

Instrument ID: A3UX12 BFB Injection Time: 1628

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	49.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	90.5
175	5.0 - 9.0% of mass 174	7.1 (7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	88.3 (97.6)1
177	5.0 - 9.0% of mass 176	5.9 (6.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	100NG-CC	UX123032	08/02/10	1654
02	L42H8CHK	L42H81AC	UX123033	08/02/10	1718
03	L42H8BLK	L42H81AA	UX123034	08/02/10	1743
04	OW5	L4JD31A1	UX123035	08/02/10	1806
05	OW5	L4JD31A2	UX123043	08/02/10	2118
06	OW5	L4JD31A3	UX123044	08/02/10	2142
07	FIELD BLANK	L4JDD1AA	UX123045	08/02/10	2206
08	OW13R	L4JDK1AJ	UX123046	08/02/10	2231
09	DUP1	L4JD01AJ	UX123047	08/02/10	2255
10	PUMP RINSE	L4JD11AA	UX123048	08/02/10	2319
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G220446

Lab File ID (Standard): UX123004 Date Analyzed: 08/01/10

Instrument ID: A3UX12 Time Analyzed: 1257

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1100933	5.37	893197	8.04	604126	10.28
	UPPER LIMIT	2201866	5.87	1786394	8.54	1208252	10.78
	LOWER LIMIT	550467	4.87	446599	7.54	302063	9.78
	EPA SAMPLE NO.						
01	L41D9CHK	1029604	5.37	824505	8.04	458650	10.28
02	L41D9BLK	992547	5.37	811982	8.04	424460	10.28
03	OW6	962639	5.37	770192	8.04	396450	10.28
04	OW2	962554	5.37	770466	8.04	409089	10.28
05	MW1	958813	5.37	769398	8.04	391258	10.28
06	TRIP BLANK	947371	5.37	765640	8.04	392914	10.28
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G220446

Lab File ID (Standard): UX123032 Date Analyzed: 08/02/10

Instrument ID: A3UX12 Time Analyzed: 1654

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1001644	5.37	825482	8.04	542805	10.28
	UPPER LIMIT	2003288	5.87	1650964	8.54	1085610	10.78
	LOWER LIMIT	500822	4.87	412741	7.54	271403	9.78
	EPA SAMPLE NO.						
01	L42H8CHK	976056	5.37	772247	8.04	448519	10.28
02	L42H8BLK	936693	5.37	739696	8.04	394172	10.28
03	OW5	934907	5.37	749828	8.04	394408	10.28
04	OW5	1065224	5.37	830107	8.04	465833	10.28
05	OW5	1078658	5.37	860934	8.04	476948	10.28
06	FIELD BLANK	989408	5.37	816420	8.04	413349	10.28
07	OW13R	1032092	5.37	813264	8.04	429872	10.28
08	DUP1	1026225	5.37	799879	8.04	433934	10.28
09	PUMP RINSE	1007440	5.37	800259	8.04	419501	10.28
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Cardinal Resources

Client Sample ID: FIELD BLANK 2

GC/MS Volatiles

Lot-Sample #...: A0G220446-001 **Work Order #...:** L4JDD1AA **Matrix.....:** WQ
Date Sampled...: 07/21/10 09:00 **Date Received..:** 07/22/10
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D
Report Date: 02-Aug-2010 22:38

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D
Lab Smp Id: L4JDD1AA Client Smp ID: FIELD BLANK 2
Inj Date : 02-AUG-2010 22:06
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JDD1AA,5ML/5ML
Misc Info : T00802A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.368	5.369	(1.000)	989408	100.000	
* 2	Chlorobenzene-d5	117	8.043	8.043	(1.000)	816420	100.000	
* 3	1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	413349	100.000	
$ 4	Dibromofluoromethane	113	4.800	4.801	(0.894)	231750	111.454	22.291
$ 5	1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	274322	102.377	20.475
$ 6	Toluene-d8	98	6.729	6.729	(0.837)	891999	99.7172	19.943
$ 7	Bromofluorobenzene	95	9.143	9.143	(1.137)	332209	88.9635	17.793
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	1.818	1.819	(0.339)	3122	0.94949	0.1899
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	61	Compound Not Detected.					
18	Freon-113	101	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D
Report Date: 02-Aug-2010 22:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	61	Compound Not Detected.					
	26 Hexane	57	3.806	3.807	(0.709)	4221	3.14228	0.6284
	27 Vinyl acetate	43	Compound Not Detected.					
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	61	Compound Not Detected.					
	32 cis-1,2-dichloroethene	61	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	91	Compound Not Detected.					
	62 m + p-Xylene	91	8.267	8.268	(1.028)	4839	0.56902	0.1138
M	63 Xylenes (total)	91				4839	0.56902	0.1138
	64 Xylene-o	91	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	91	9.392	9.392	(0.914)	6394	0.69672	0.1393
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	4188	0.62386	0.1248

75	4-Chlorotoluene	126	Compound Not Detected.					
76	tert-Butylbenzene	119	9.889	9.889 (0.962)		8007	1.45189	0.2904

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D
Report Date: 02-Aug-2010 22:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	9.936	9.924	(0.967)	4376	0.61180	0.1224
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	16734	2.33729	0.4674
79	4-Isopropyltoluene	119	10.243	10.244	(0.997)	15742	2.50289	0.5006
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	10.646	10.646	(1.036)	23814	4.38893	0.8778
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	11908	4.33371	0.8667
86	Hexachlorobutadiene	225	12.456	12.445	(1.212)	10473	1.77023	0.3540
87	Naphthalene	128	12.539	12.539	(1.220)	14000	1.62801	0.3256
88	1,2,3-Trichlorobenzene	180	12.799	12.800	(1.245)	12587	4.65742	0.9315
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	5.853	5.854	(1.090)	5381	7.48836	1.498
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D
Report Date: 02-Aug-2010 22:38

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123045.D
Lab Smp Id: L4JDD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903

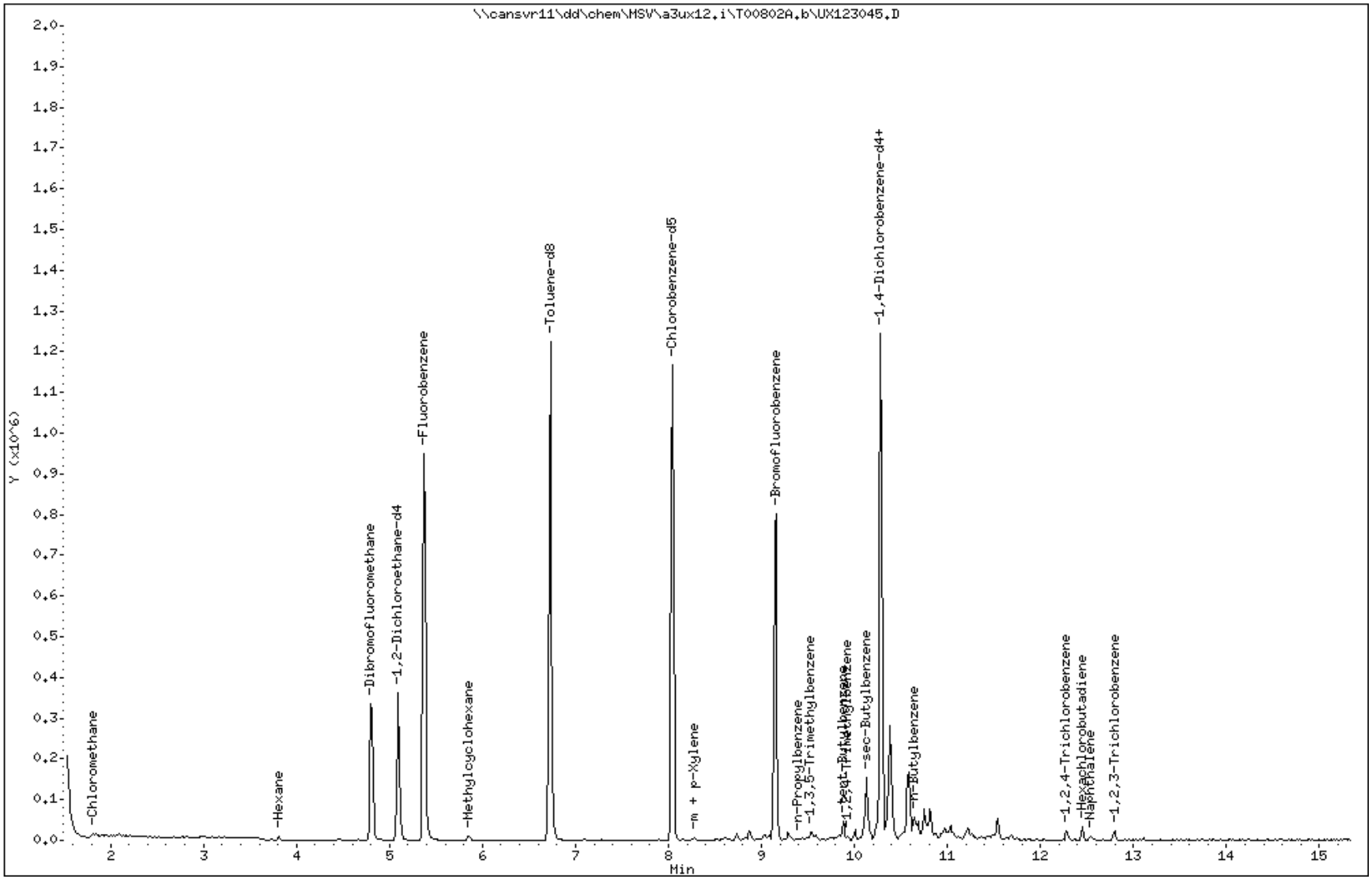
Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Client Smp ID: FIELD BLANK 2
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	989408	-1.22
2 Chlorobenzene-d5	825482	412741	1650964	816420	-1.10
3 1,4-Dichlorobenze	542805	271403	1085610	413349	-23.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D
Date : 02-AUG-2010 22:06
Client ID: FIELD BLANK 2 Instrument: a3ux12.i
Sample Info: L4JDD1AA,5ML/5ML
Purge Volume: 5.0 Operator: 1903
Column phase: DB624 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

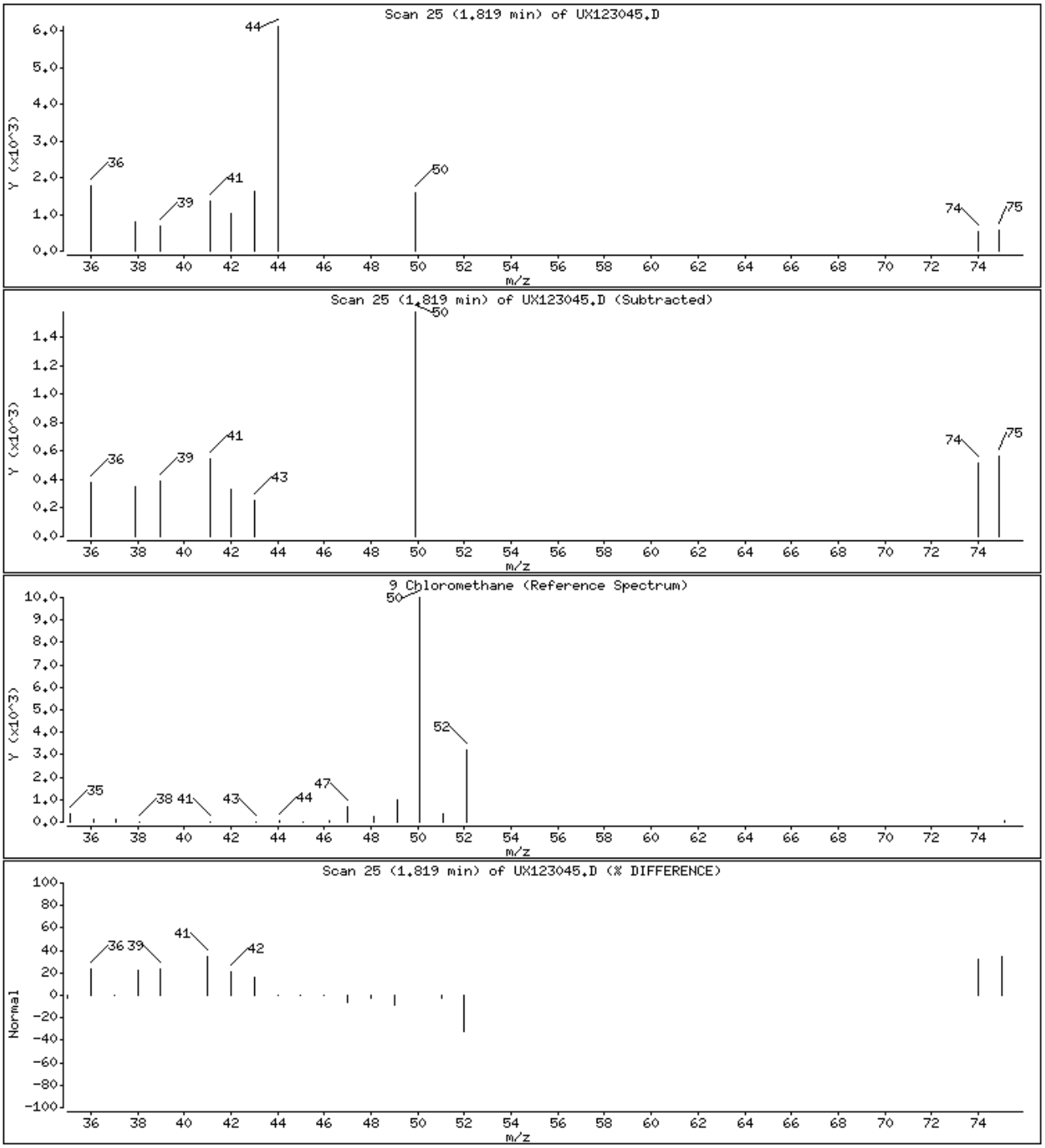
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 0.1899 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

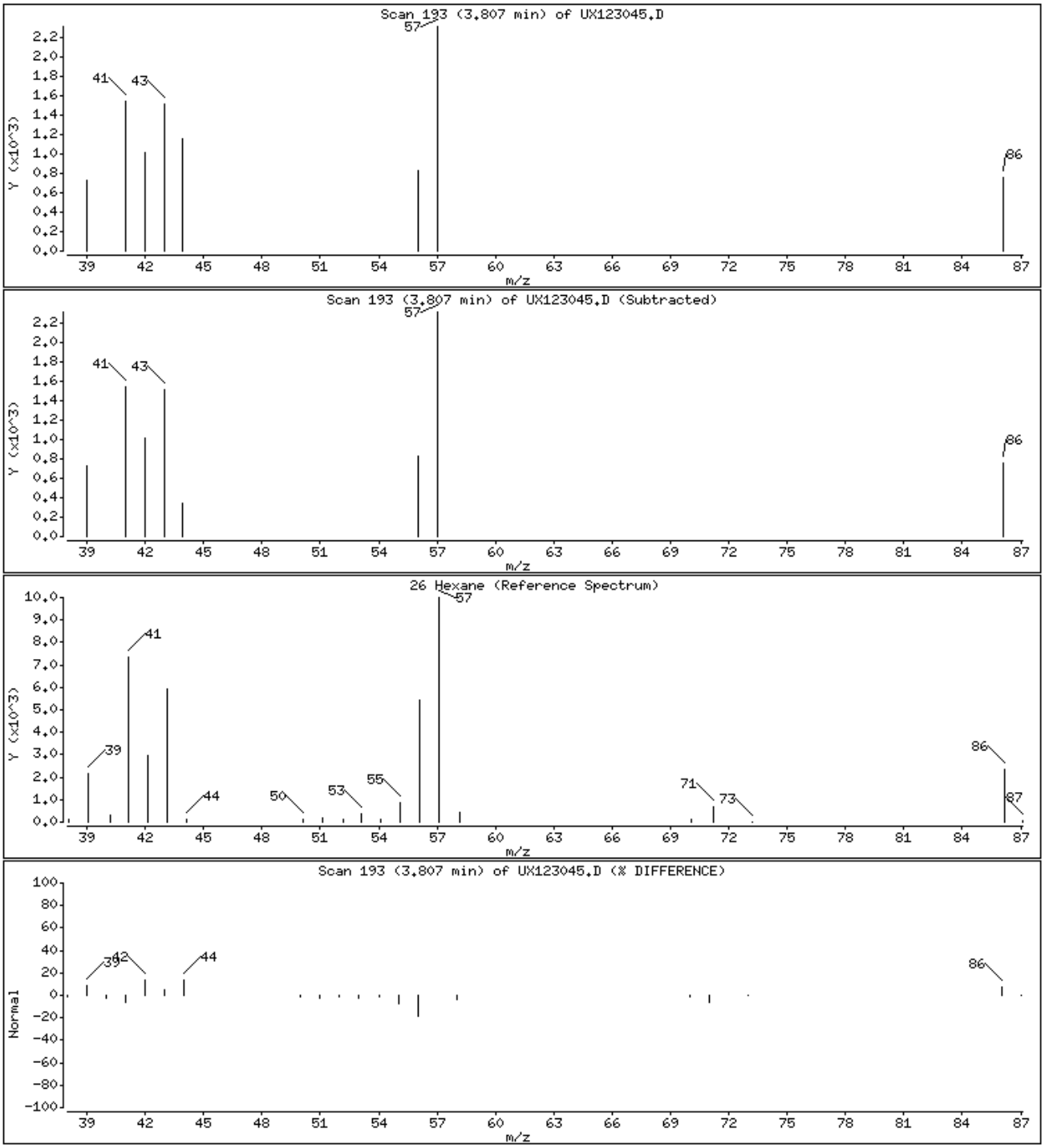
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

26 Hexane Concentration: 0.6284 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

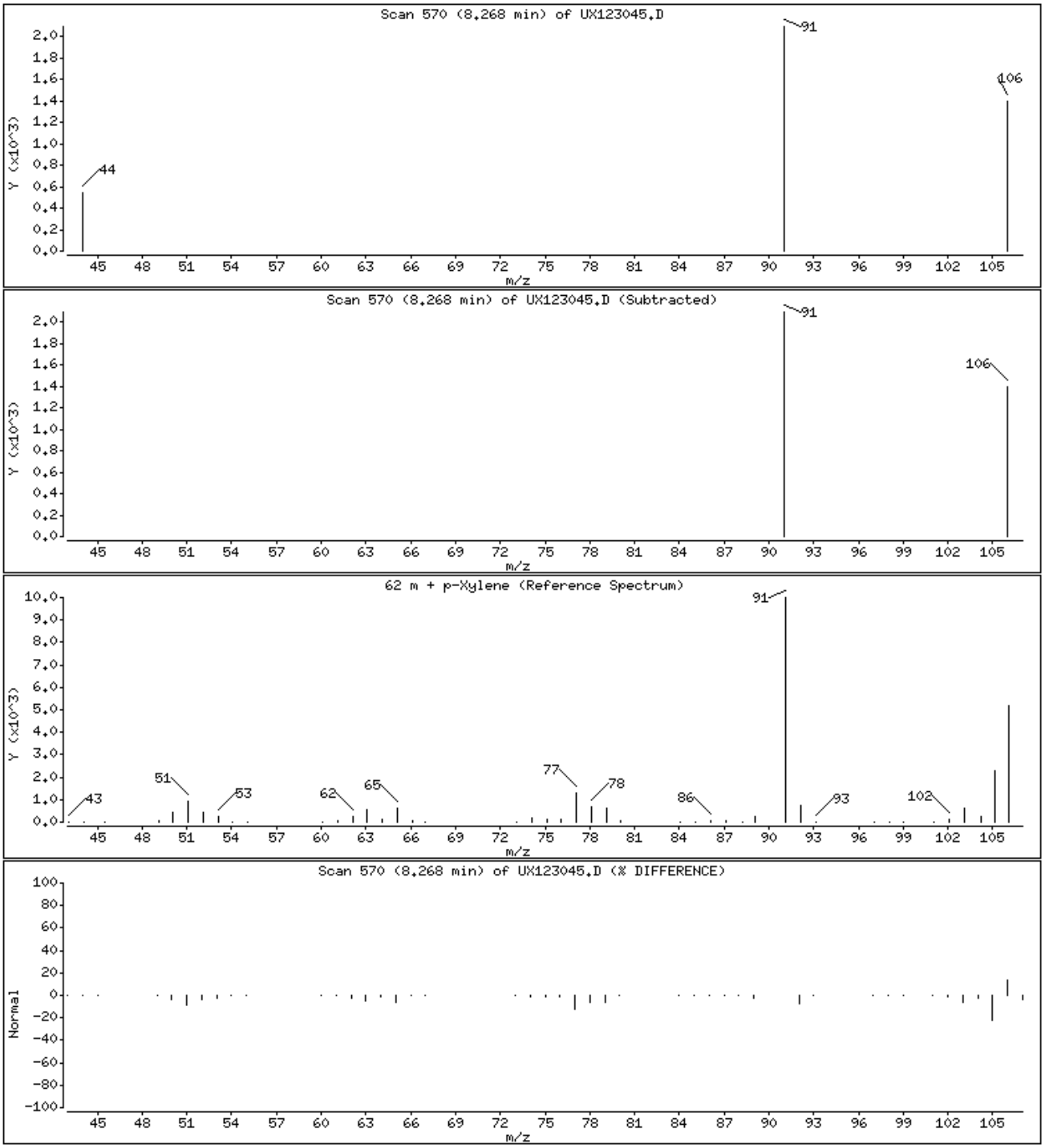
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

62 m + p-Xylene Concentration: 0.1138 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

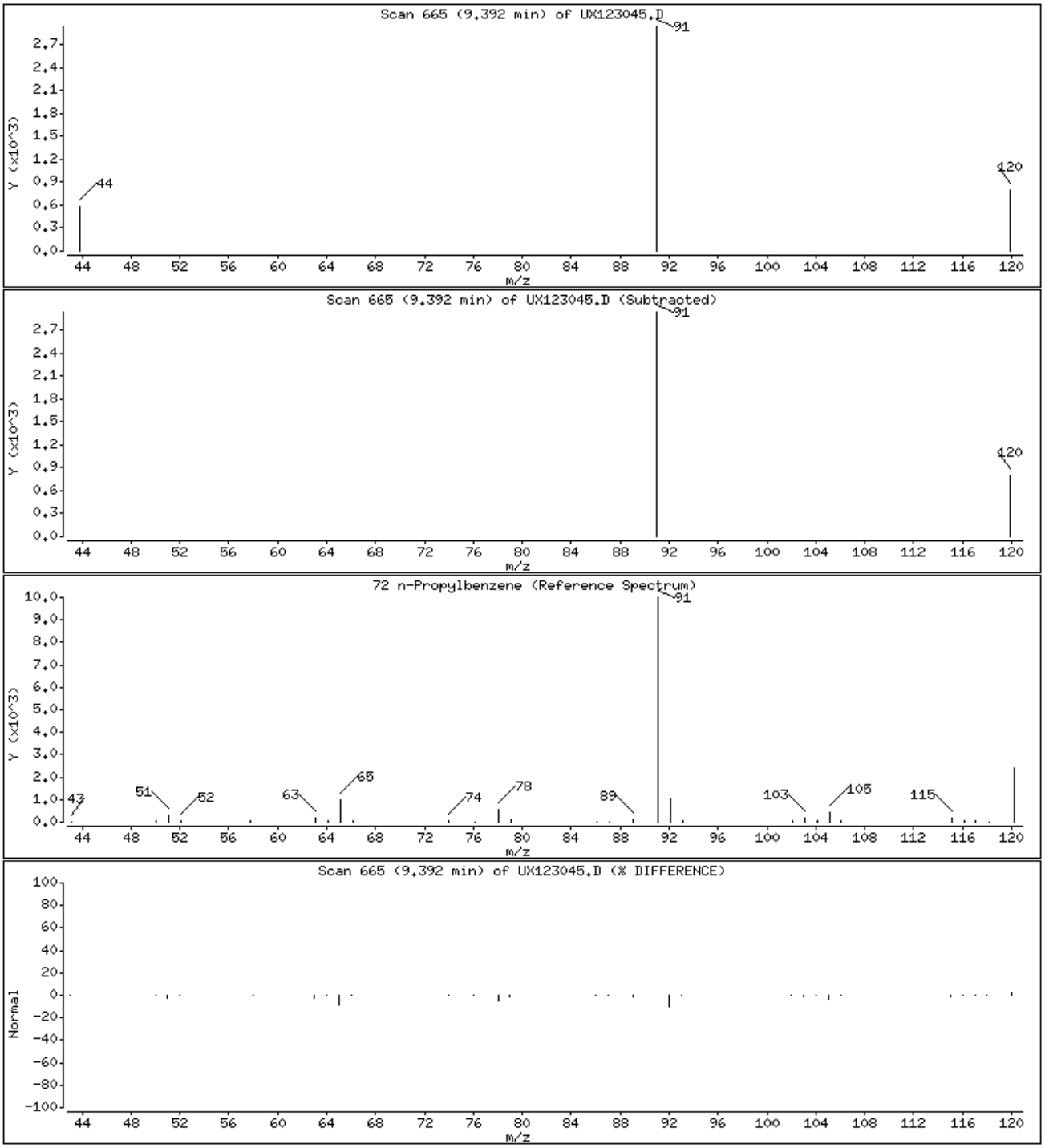
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

72 n-Propylbenzene Concentration: 0.1393 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

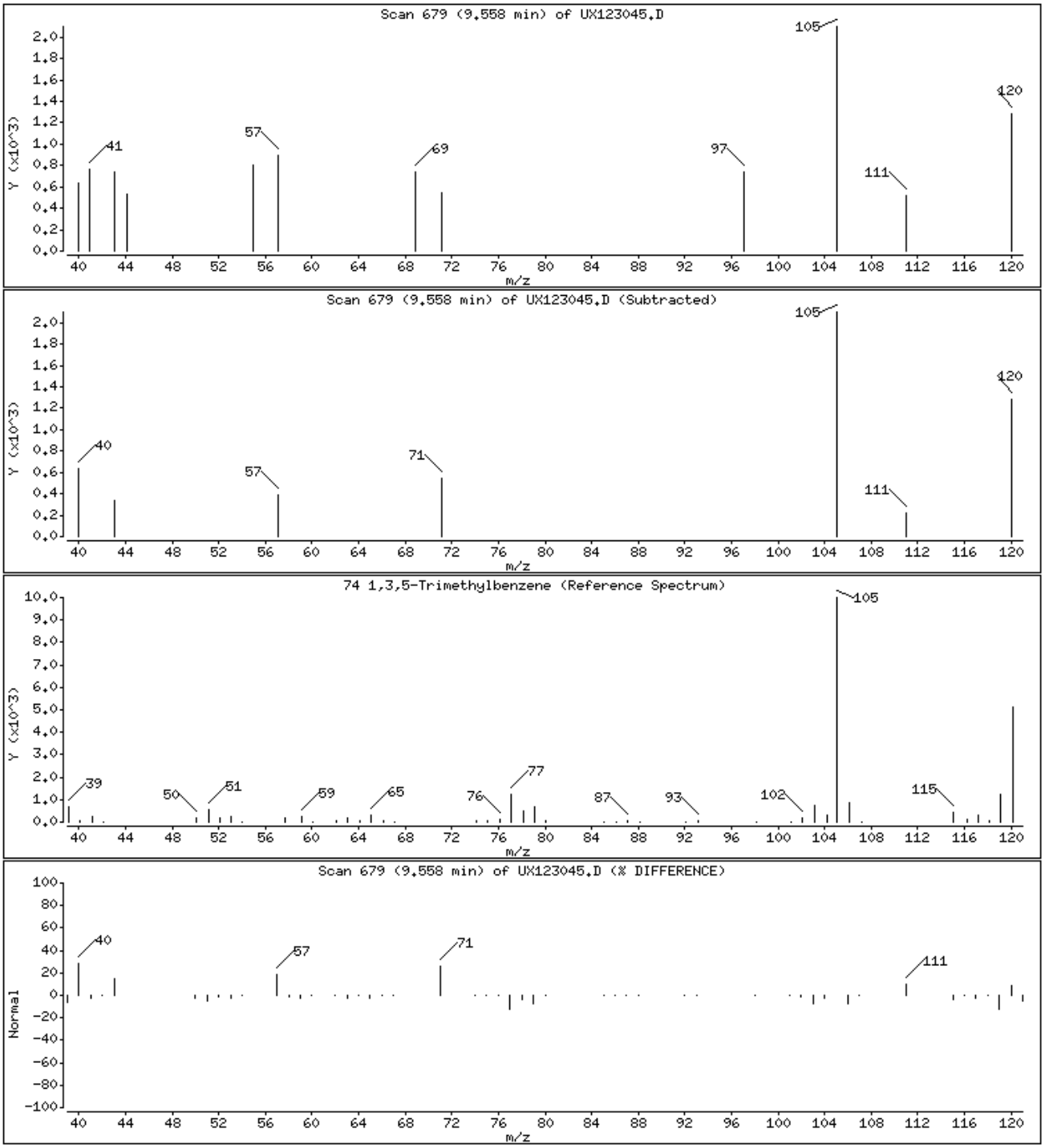
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

74 1,3,5-Trimethylbenzene Concentration: 0.1248 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

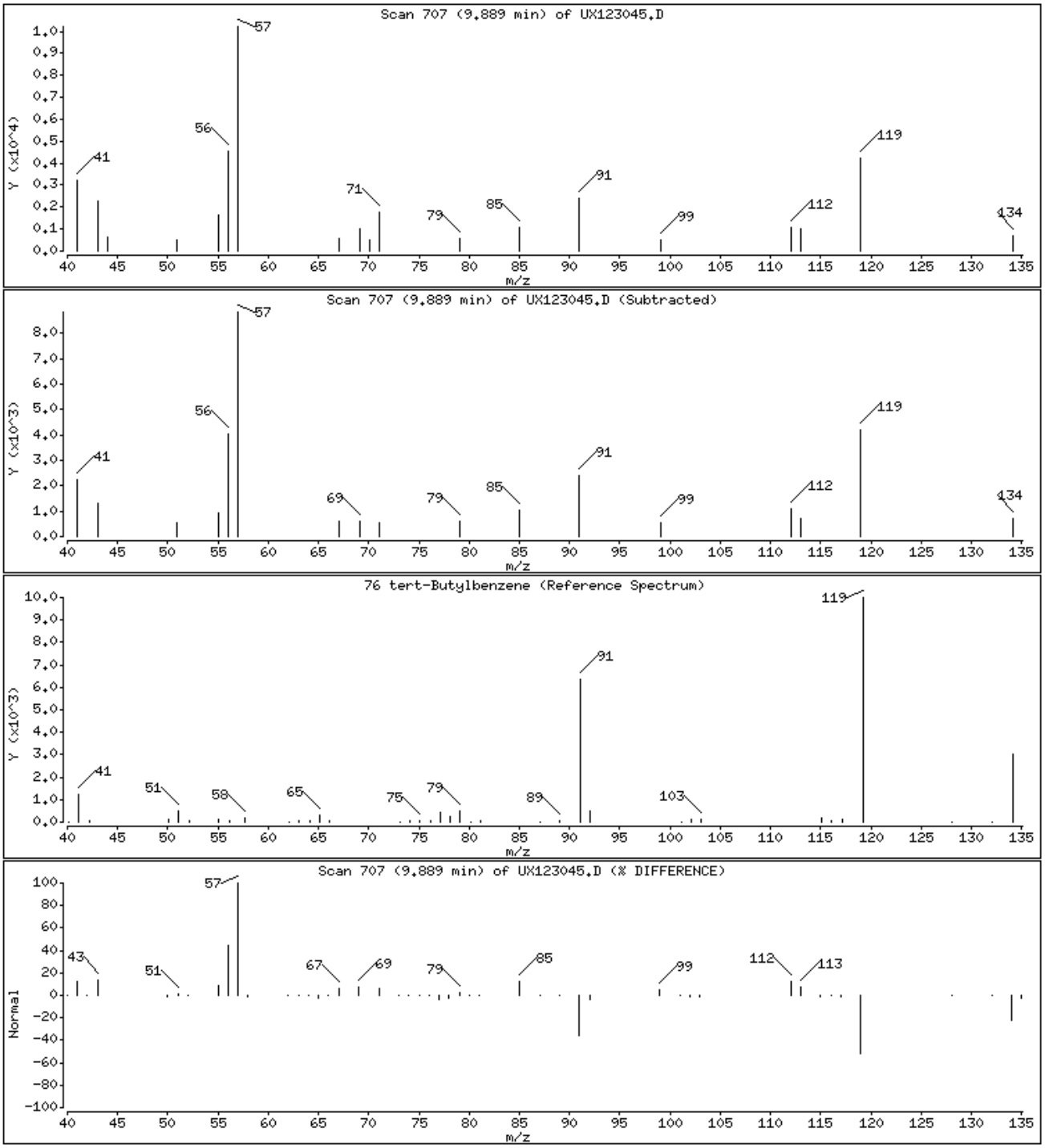
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

76 tert-Butylbenzene Concentration: 0.2904 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

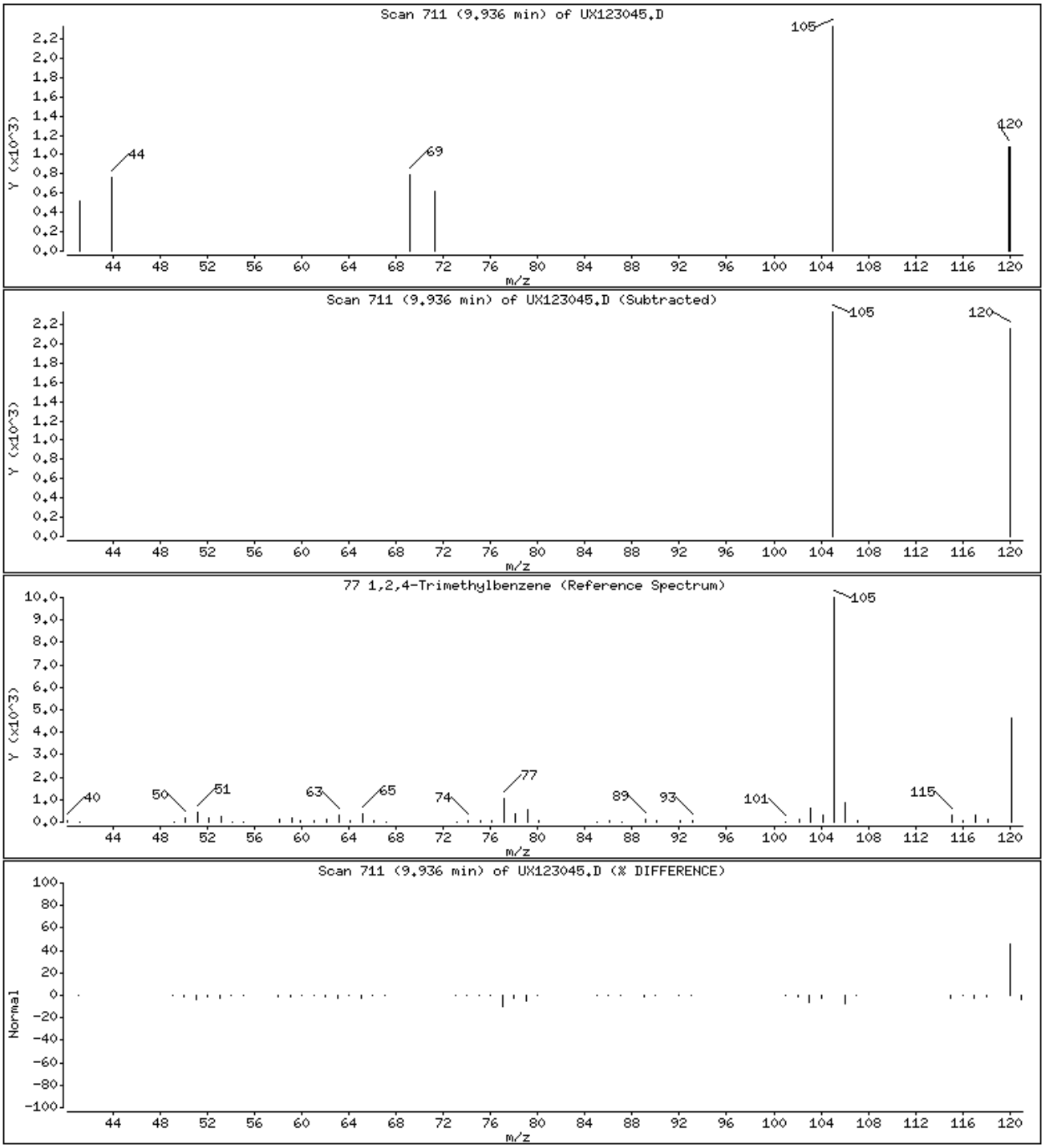
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

77 1,2,4-Trimethylbenzene Concentration: 0.1224 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

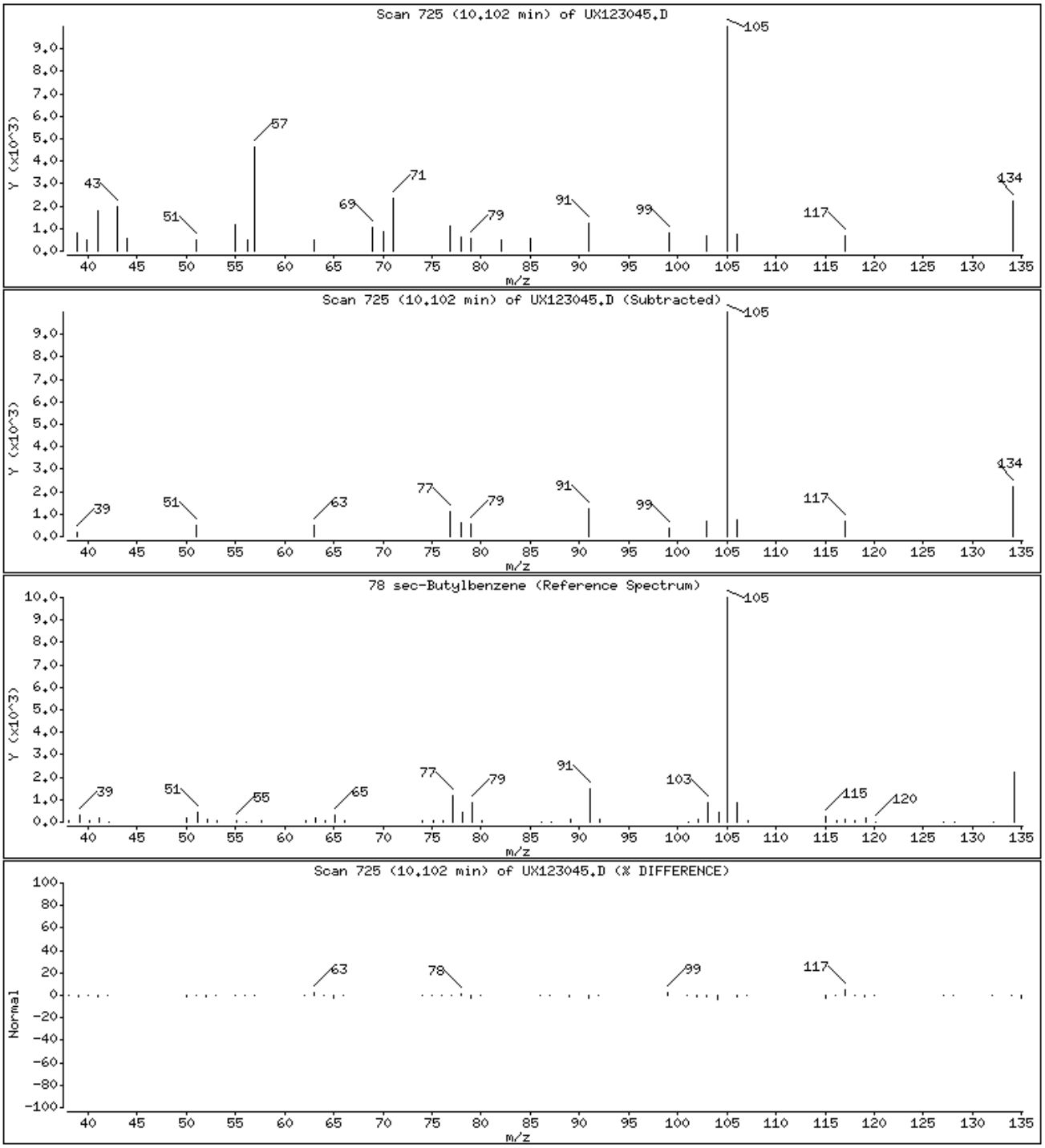
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

78 sec-Butylbenzene Concentration: 0.4674 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

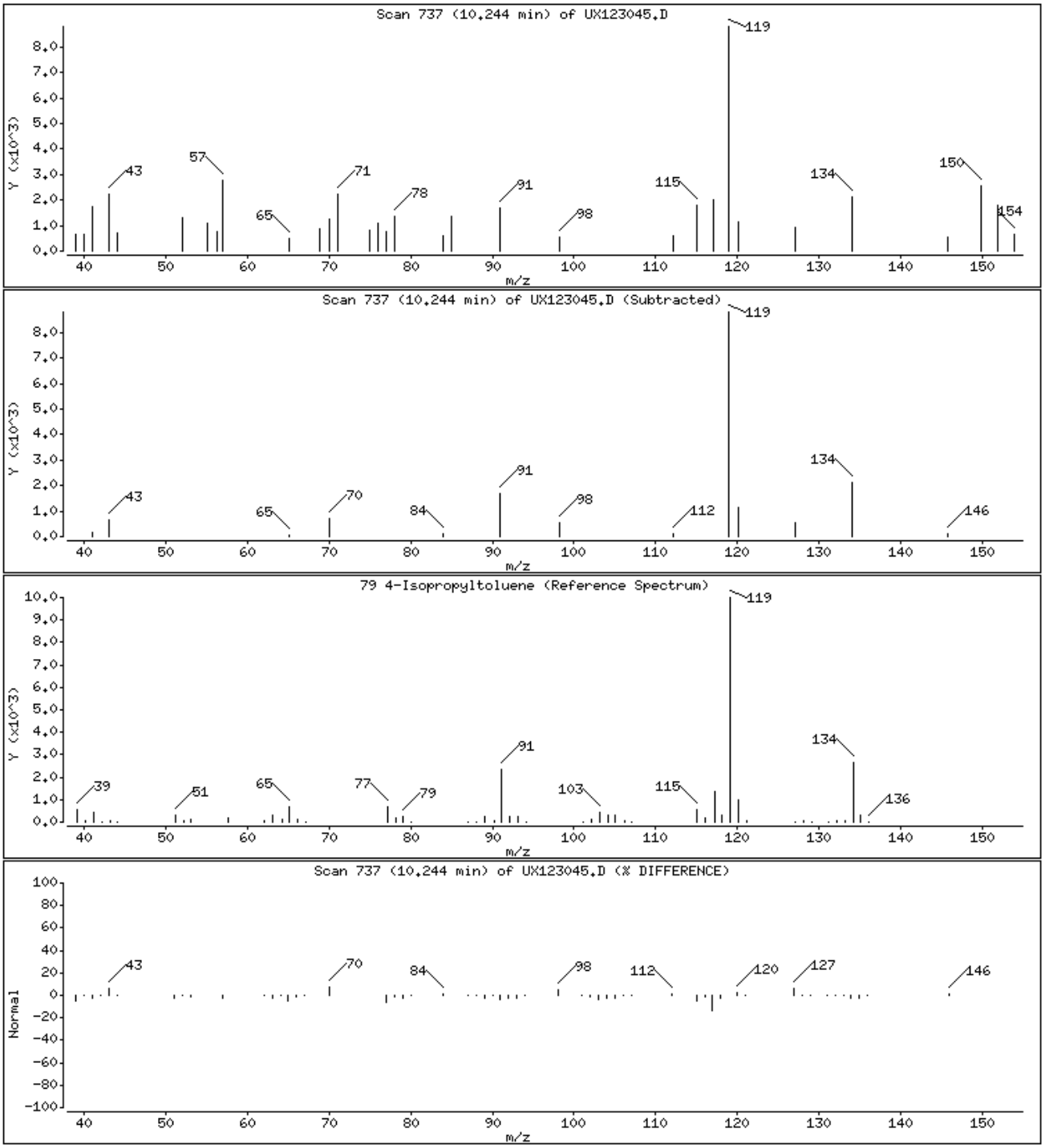
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

79 4-Isopropyltoluene Concentration: 0.5006 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

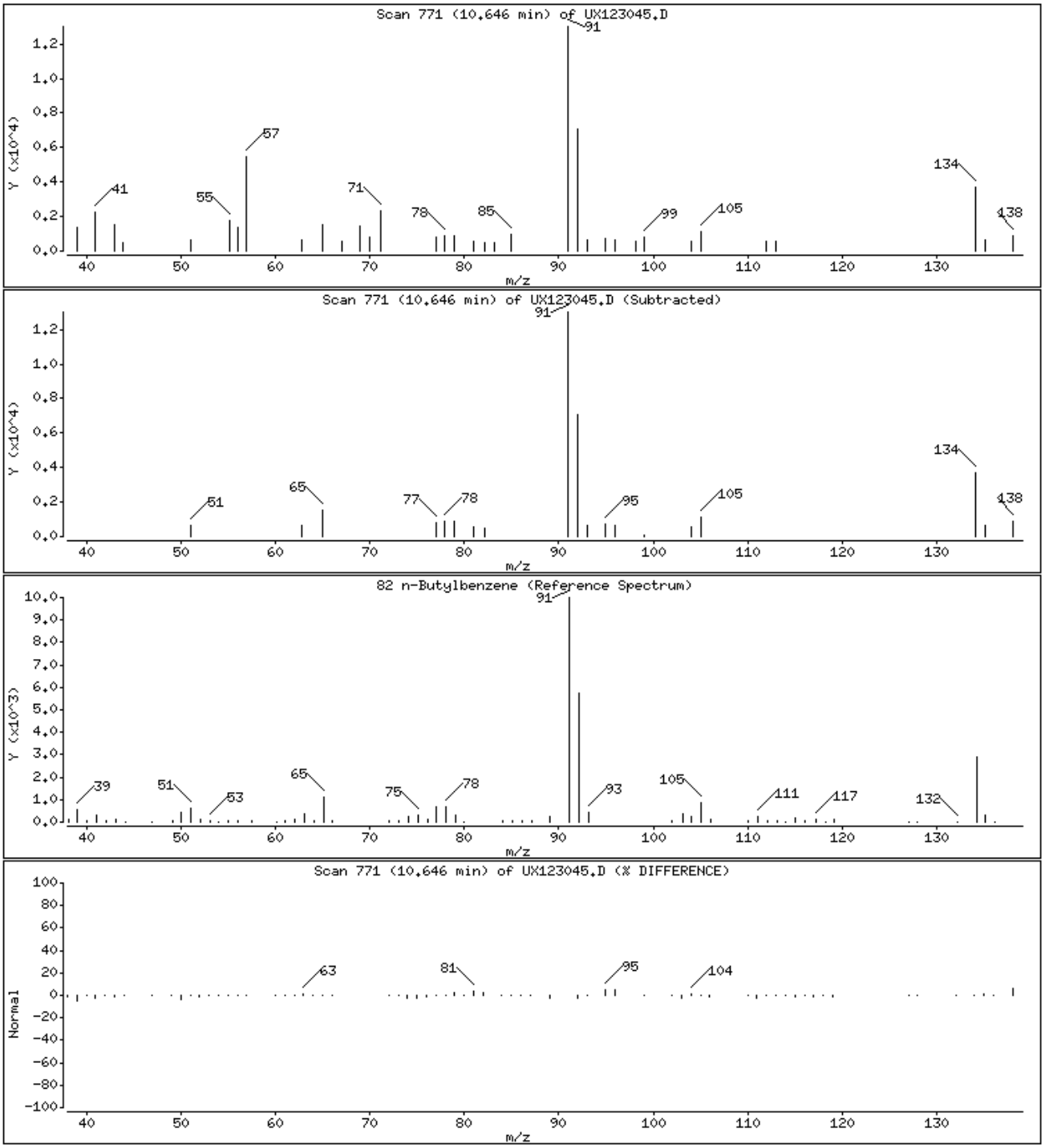
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

82 n-Butylbenzene Concentration: 0.8778 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

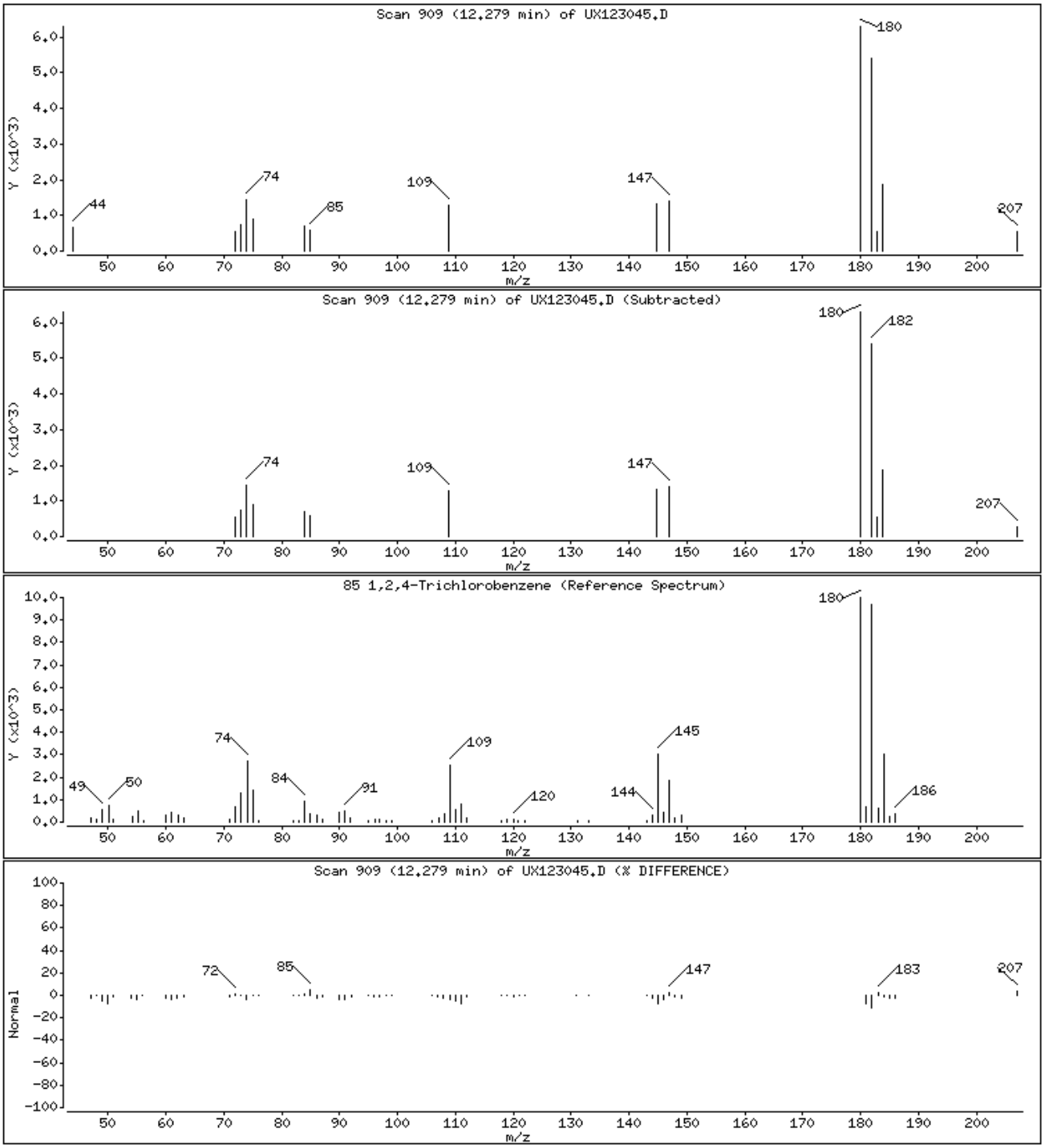
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

85 1,2,4-Trichlorobenzene Concentration: 0.8667 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

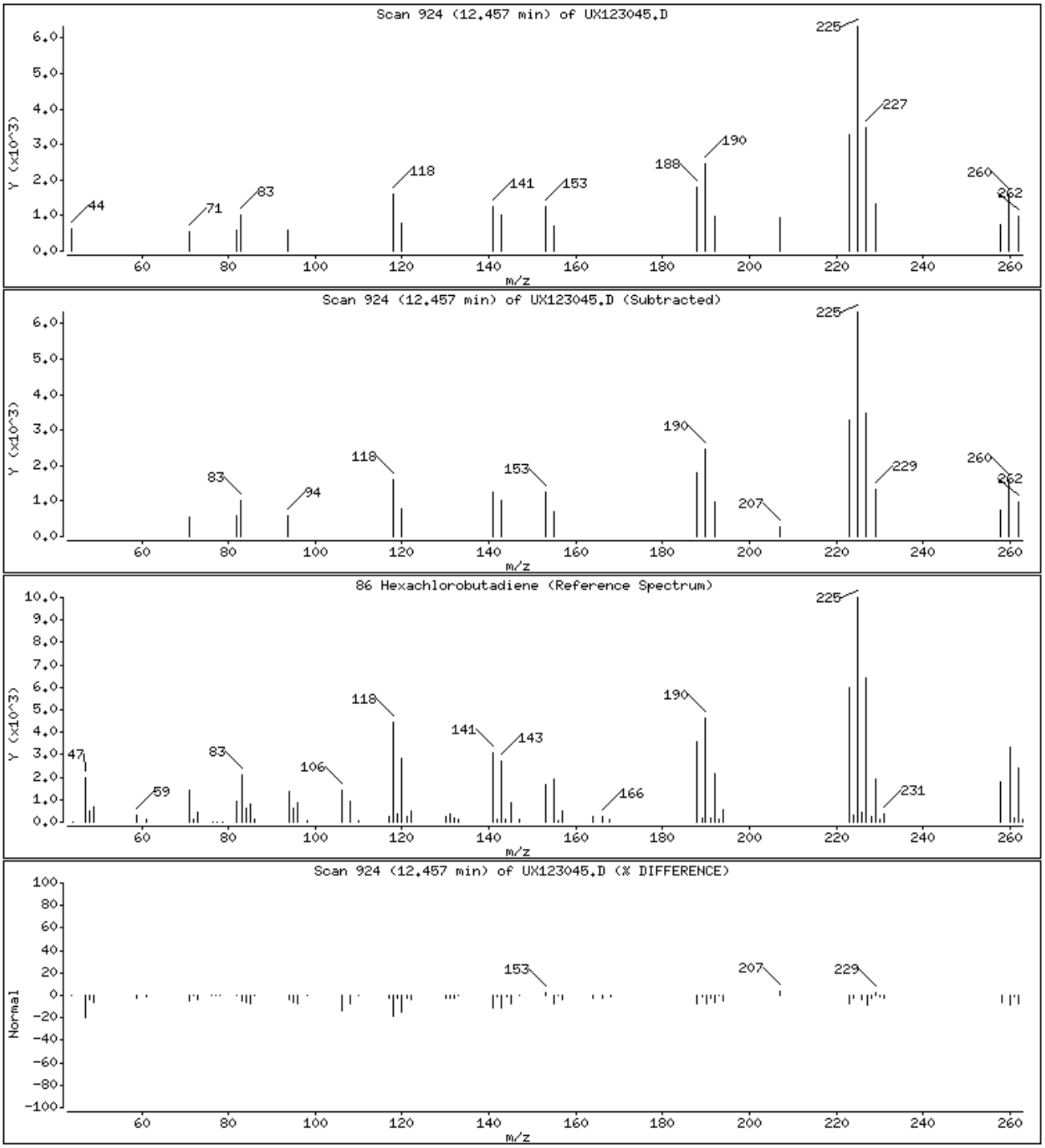
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

86 Hexachlorobutadiene Concentration: 0.3540 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

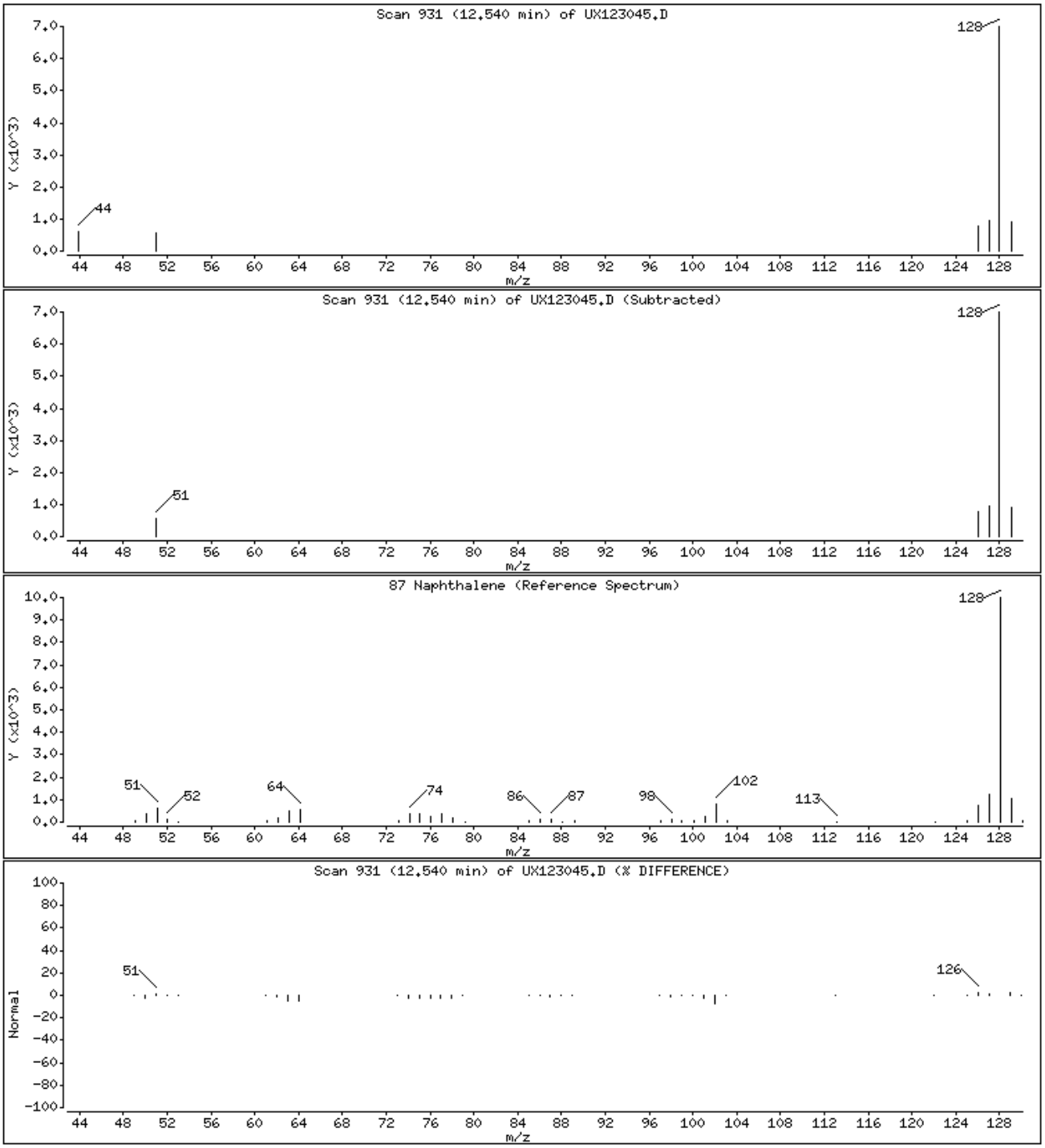
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.3256 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

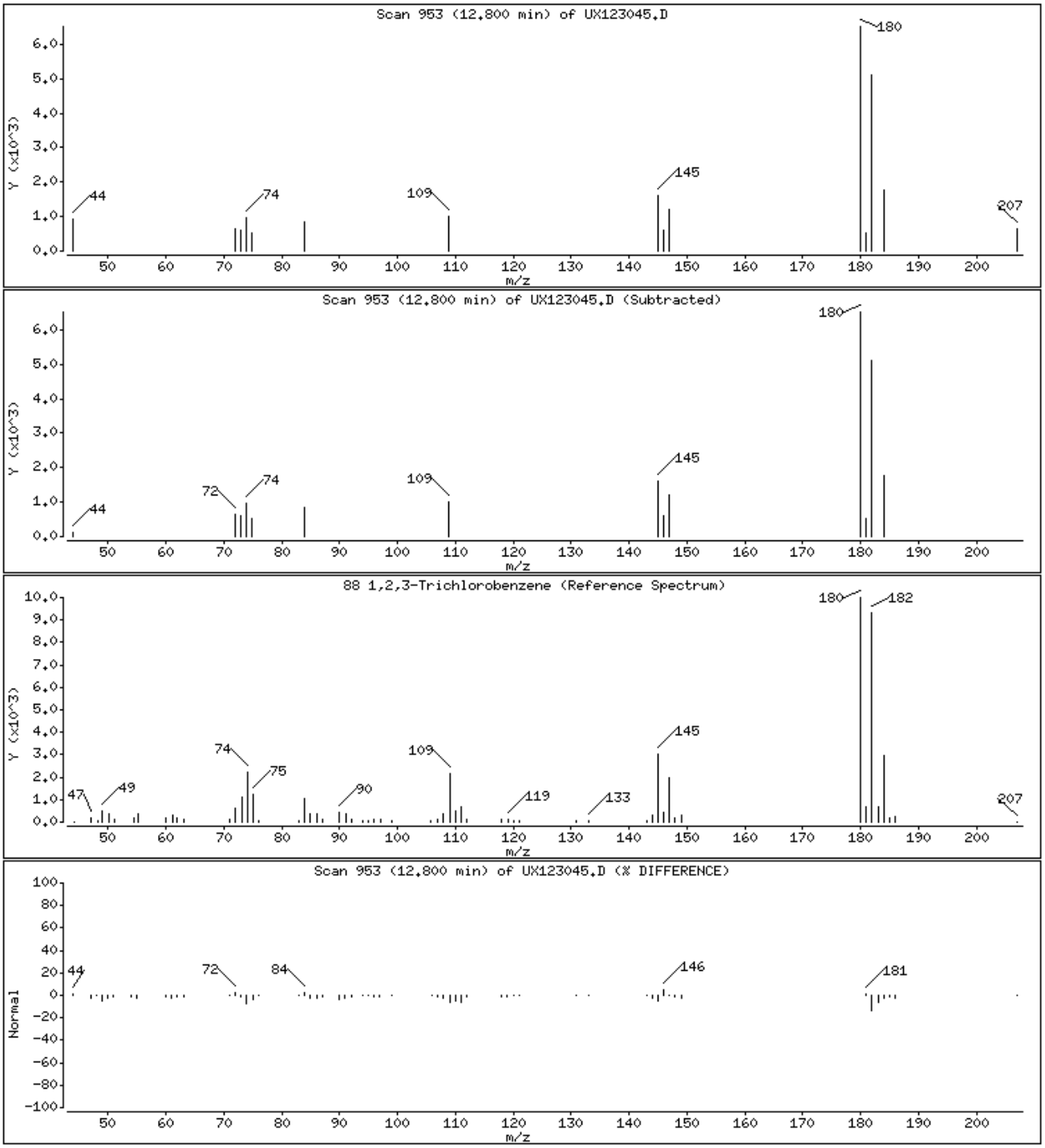
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 0.9315 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123045.D

Date : 02-AUG-2010 22:06

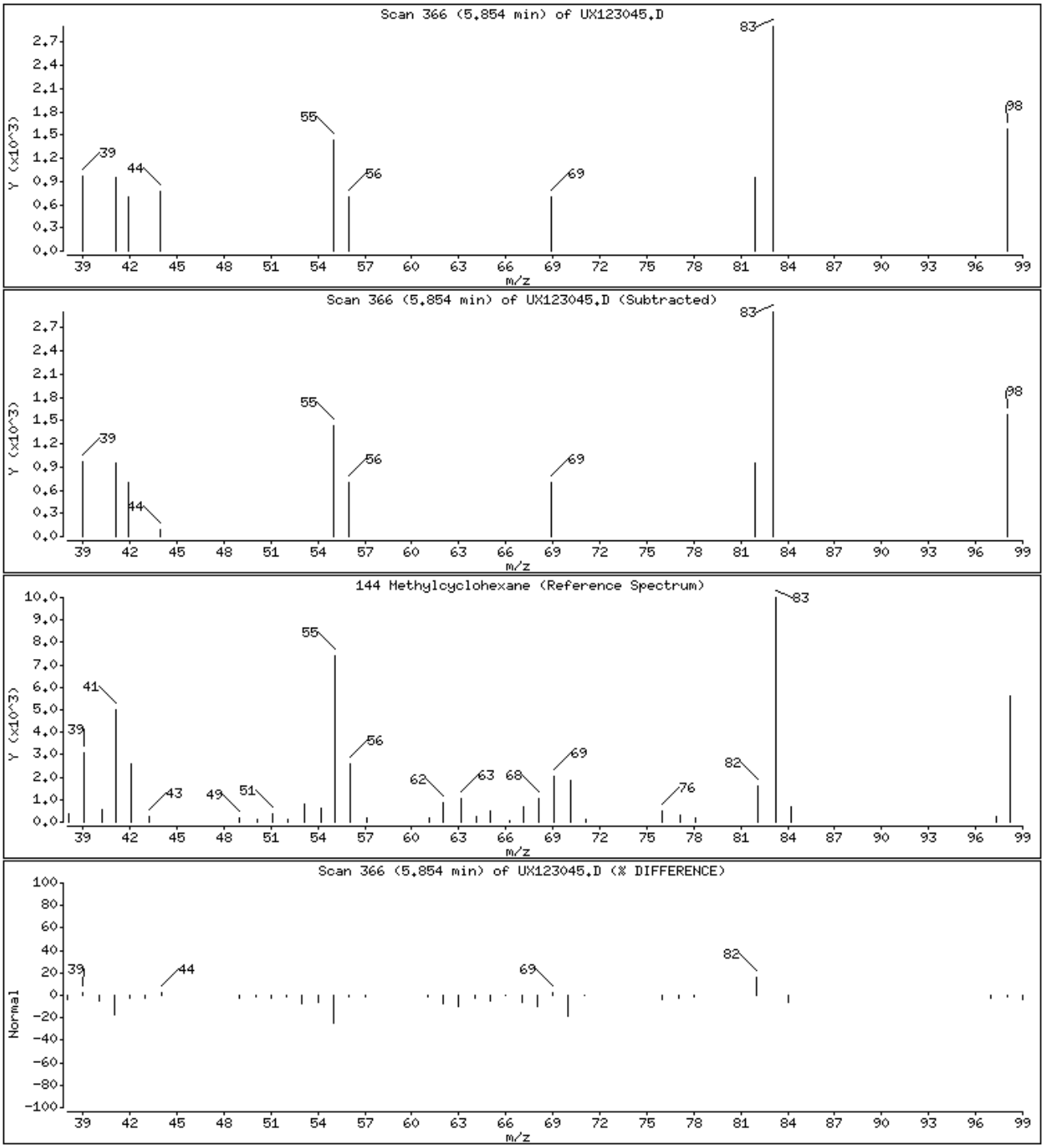
Client ID: FIELD BLANK 2 Instrument: a3ux12.i

Sample Info: L4JDD1AA,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

144 Methylcyclohexane Concentration: 1.498 ug/L



Cardinal Resources

Client Sample ID: OW13R

GC/MS Volatiles

Lot-Sample #...: A0G220446-002 **Work Order #...:** L4JDK1AJ **Matrix.....:** WG
Date Sampled...: 07/21/10 09:10 **Date Received..:** 07/22/10
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**1.2 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.70 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.35 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**17**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW13R

GC/MS Volatiles

Lot-Sample #...: A0G220446-002 **Work Order #...:** L4JDK1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D
Report Date: 02-Aug-2010 22:51

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D
Lab Smp Id: L4JDK1AJ Client Smp ID: OW13R
Inj Date : 02-AUG-2010 22:31
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JDK1AJ,5ML/5ML
Misc Info : T00802A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.369	5.369	(1.000)	1032092	100.000	
* 2	Chlorobenzene-d5	117	8.043	8.043	(1.000)	813264	100.000	
* 3	1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	429872	100.000	
$ 4	Dibromofluoromethane	113	4.801	4.801	(0.894)	233535	107.667	21.533
$ 5	1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	268449	96.0419	19.208
$ 6	Toluene-d8	98	6.729	6.729	(0.837)	895251	100.469	20.094
$ 7	Bromofluorobenzene	95	9.143	9.143	(1.137)	332114	89.2832	17.857
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	1.925	1.925	(0.359)	21809	6.19783	1.240
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	3.002	3.002	(0.559)	9331	5.01585	1.003
17	1,1-Dichloroethene	61	Compound Not Detected.					
18	Freon-113	101	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D
Report Date: 02-Aug-2010 22:51

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	61	Compound Not Detected.					
	26 Hexane	57	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	61				11298	3.48750	0.6975
	32 cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	11298	3.48750	0.6975
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	5.144	5.144	(0.958)	823670	85.4857	17.097
	42 Trichloroethene	130	5.676	5.676	(1.057)	4122	1.74440	0.3489
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	91	Compound Not Detected.					
	62 m + p-Xylene	91	Compound Not Detected.					
M	63 Xylenes (total)	91	Compound Not Detected.					
	64 Xylene-o	91	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	91	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D
Report Date: 02-Aug-2010 22:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	10.646	10.646	(1.036)	4323	0.76611	0.1532
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D
Report Date: 02-Aug-2010 22:51

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123046.D
Lab Smp Id: L4JDK1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903

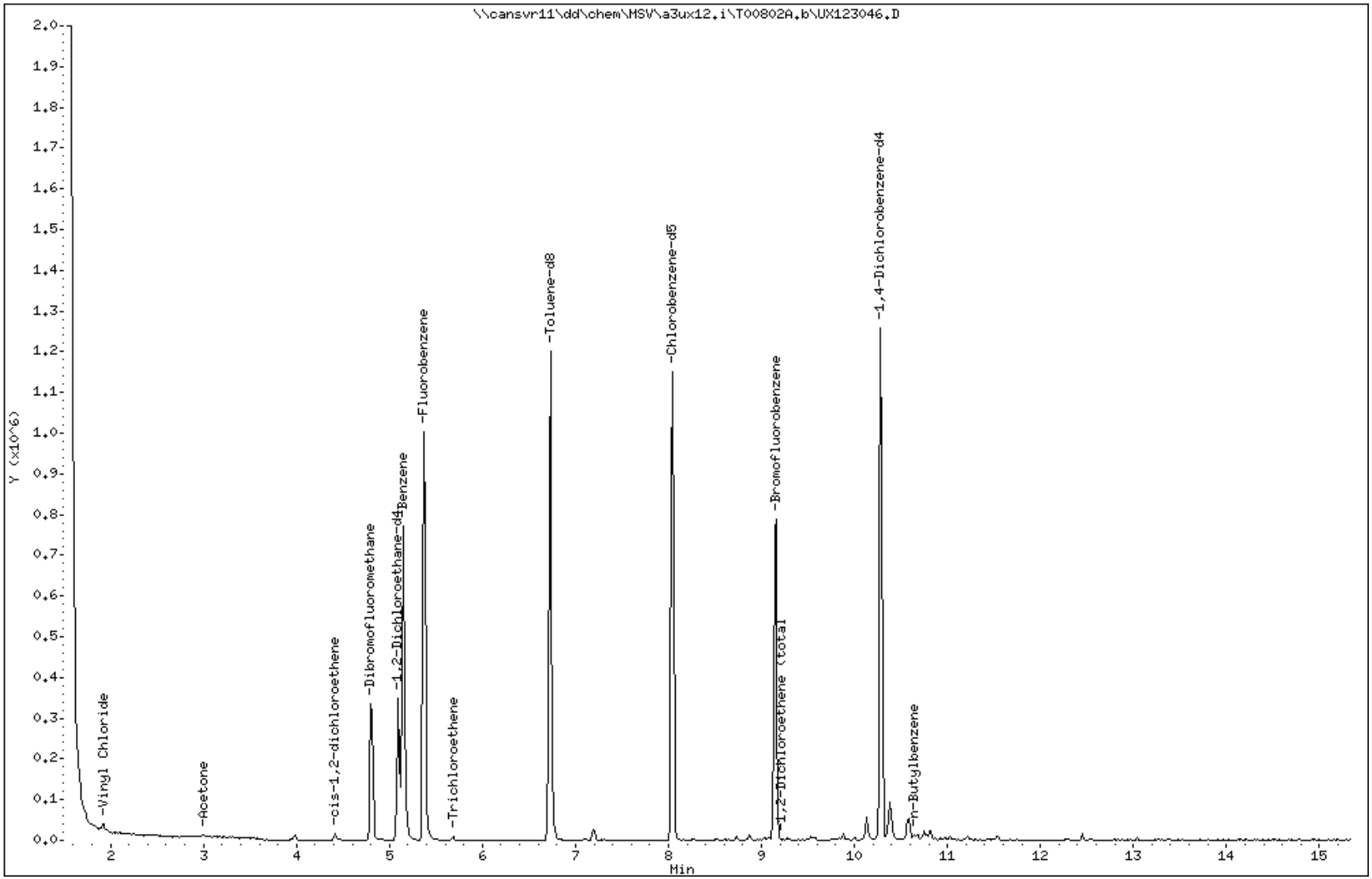
Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Client Smp ID: OW13R
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	1032092	3.04
2 Chlorobenzene-d5	825482	412741	1650964	813264	-1.48
3 1,4-Dichlorobenze	542805	271403	1085610	429872	-20.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D
Date : 02-AUG-2010 22:31
Client ID: OW13R
Instrument: a3ux12.i
Sample Info: L4JDK1AJ,5ML/5ML
Purge Volume: 5.0
Operator: 1903
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D

Date : 02-AUG-2010 22:31

Client ID: OW13R

Instrument: a3ux12.i

Sample Info: L4JDK1AJ,5ML/5ML

Purge Volume: 5.0

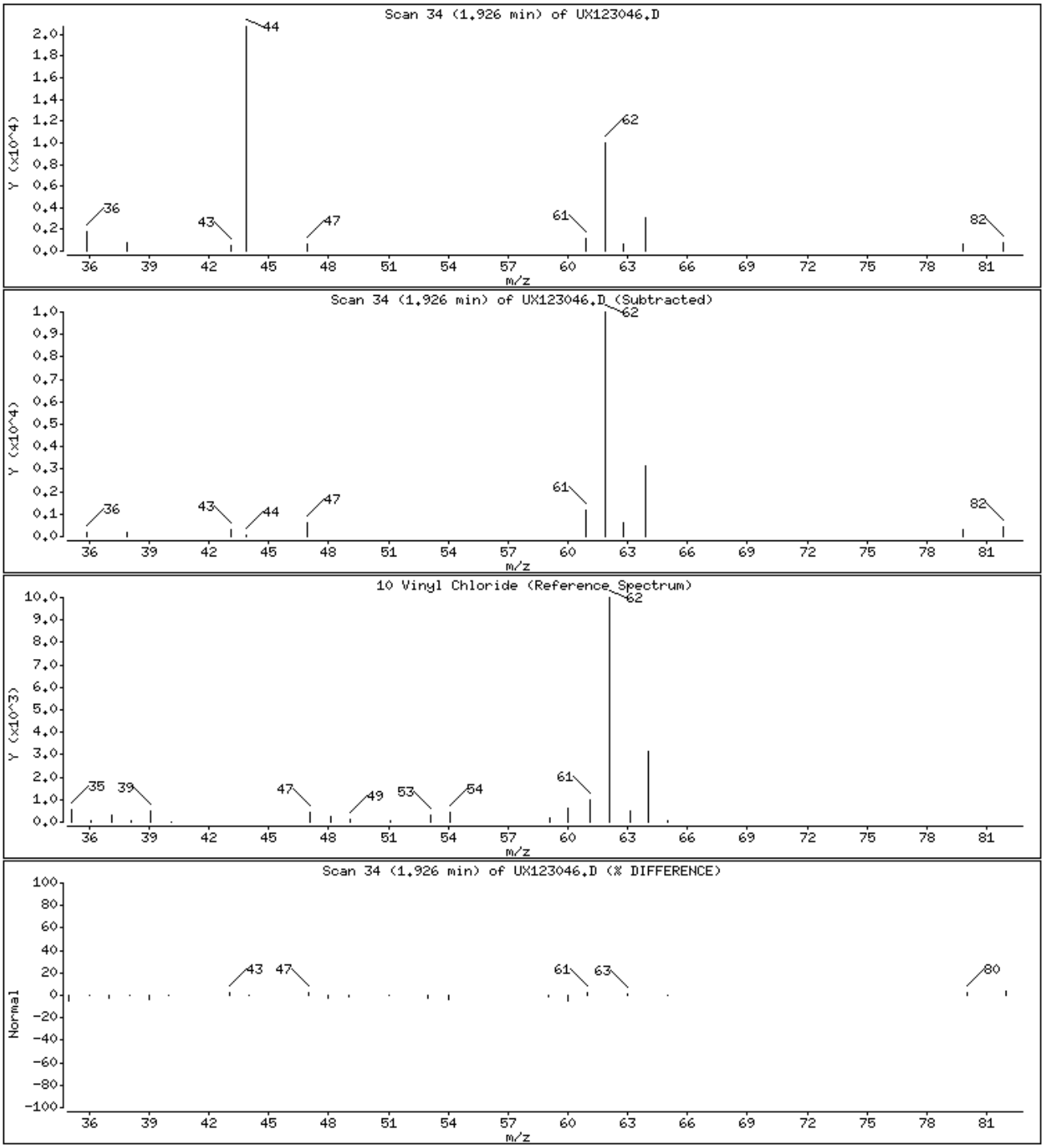
Operator: 1903

Column phase: DB624

Column diameter: 0.18

10 Vinyl Chloride

Concentration: 1.240 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D

Date : 02-AUG-2010 22:31

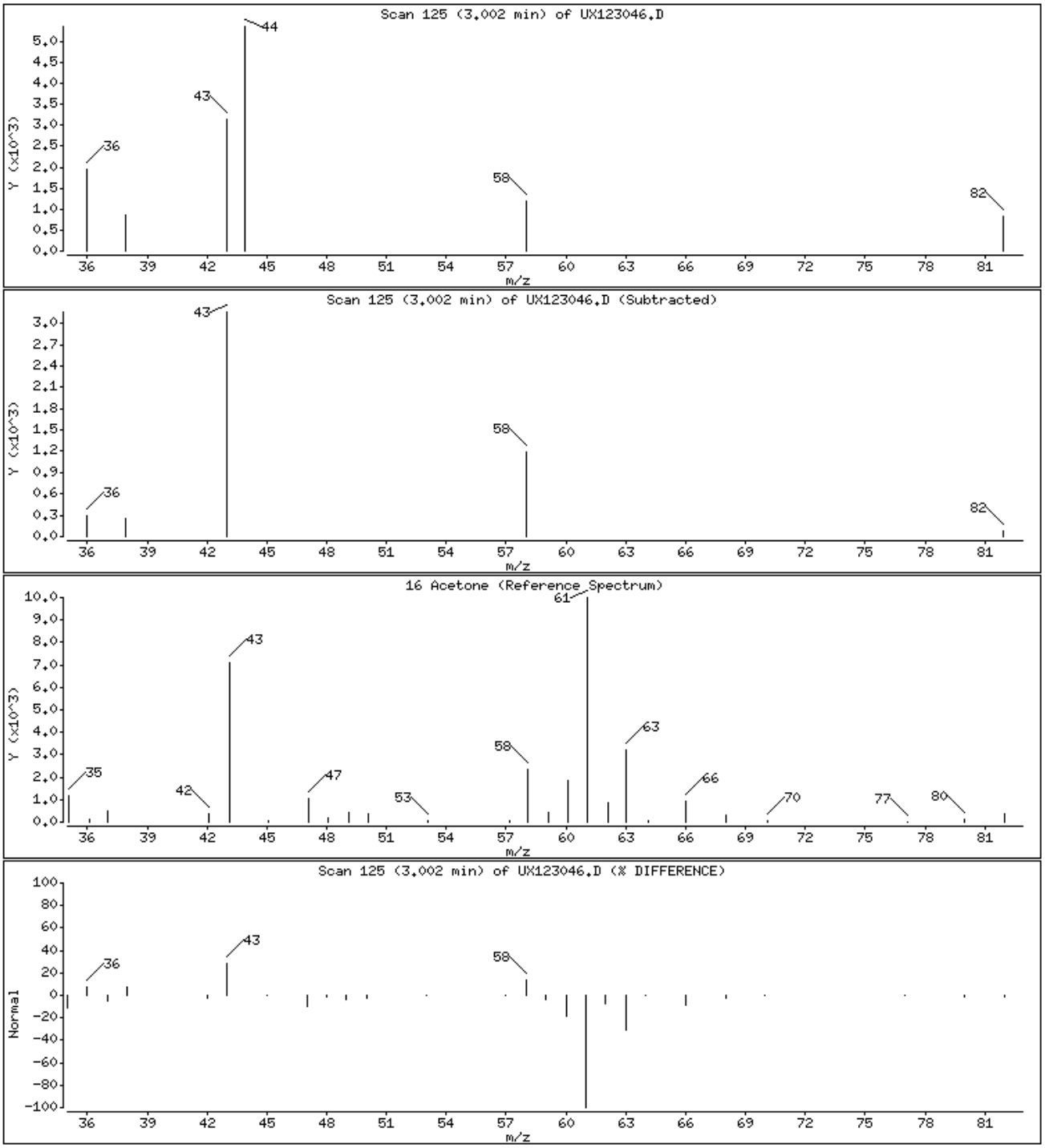
Client ID: OW13R | Instrument: a3ux12.i

Sample Info: L4JDK1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 1903

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 1.003 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D

Date : 02-AUG-2010 22:31

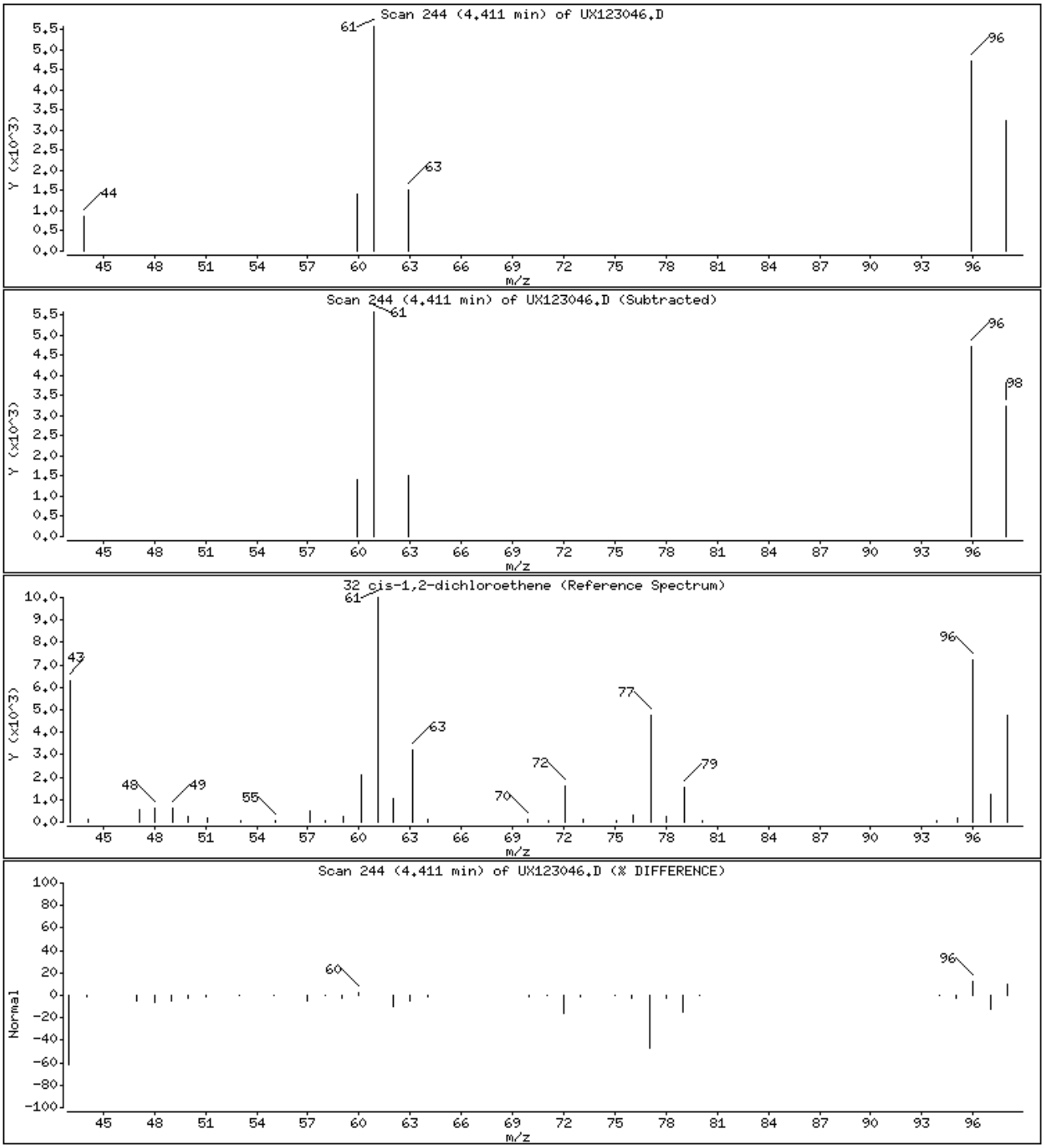
Client ID: OW13R | Instrument: a3ux12.i

Sample Info: L4JDK1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 1903

Column phase: DB624 | Column diameter: 0.18

32 cis-1,2-dichloroethene | Concentration: 0.6975 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D

Date : 02-AUG-2010 22:31

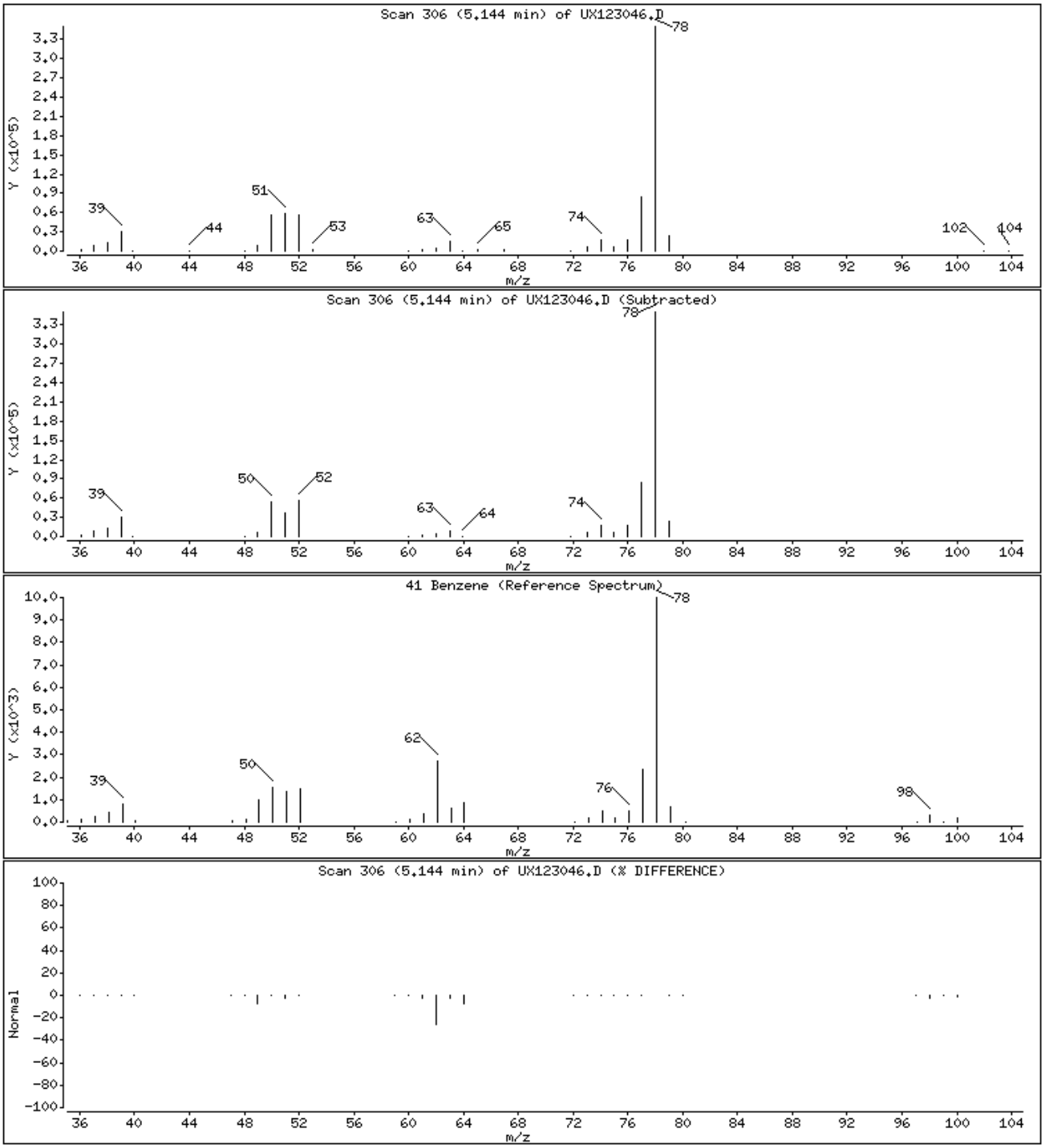
Client ID: OW13R | Instrument: a3ux12.i

Sample Info: L4JDK1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 1903

Column phase: DB624 | Column diameter: 0.18

41 Benzene | Concentration: 17.097 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D

Date : 02-AUG-2010 22:31

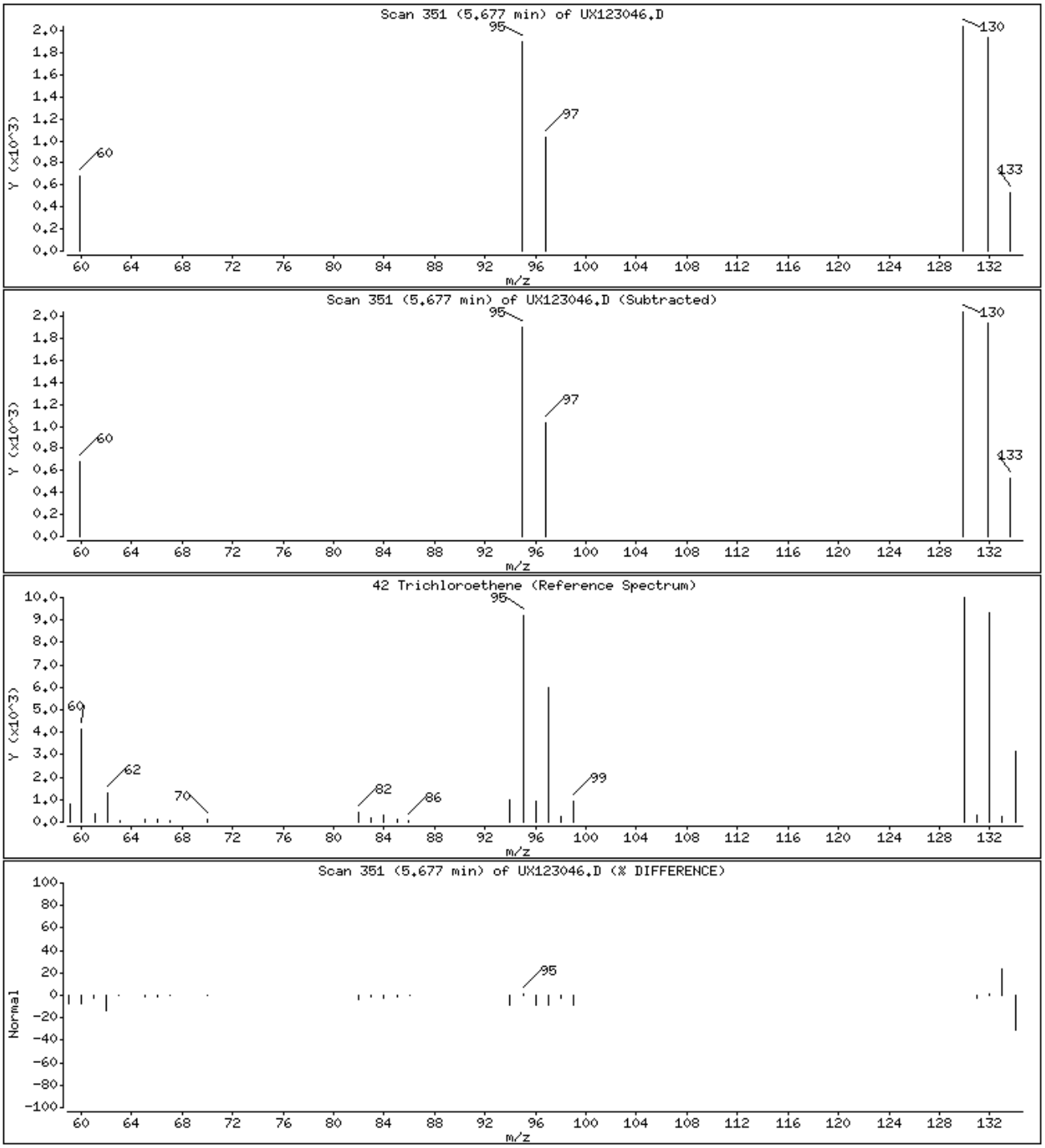
Client ID: OW13R | Instrument: a3ux12.i

Sample Info: L4JDK1AJ,5ML/5ML

Purge Volume: 5.0 | Operator: 1903

Column phase: DB624 | Column diameter: 0.18

42 Trichloroethene | Concentration: 0.3489 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123046.D

Date : 02-AUG-2010 22:31

Client ID: OW13R

Instrument: a3ux12.i

Sample Info: L4JDK1AJ,5ML/5ML

Purge Volume: 5.0

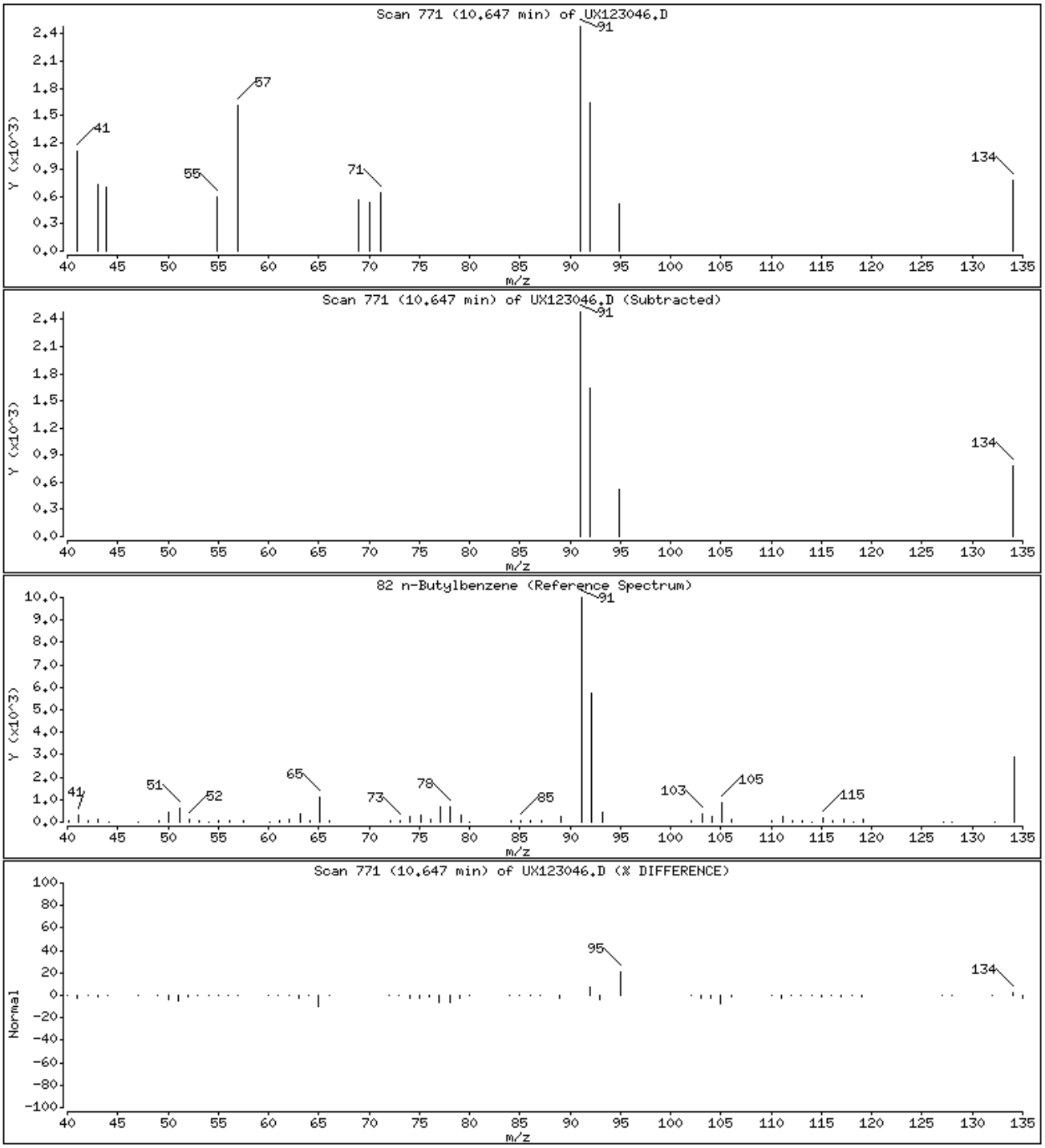
Operator: 1903

Column phase: DB624

Column diameter: 0.18

82 n-Butylbenzene

Concentration: 0.1532 ug/L



Cardinal Resources

Client Sample ID: DUP1

GC/MS Volatiles

Lot-Sample #...: A0G220446-003 **Work Order #...:** L4JD01AJ **Matrix.....:** WG
Date Sampled...: 07/21/10 **Date Received..:** 07/22/10
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**1.2 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.78 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.35 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**17**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	101	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: DUP1

GC/MS Volatiles

Lot-Sample #...: A0G220446-003 **Work Order #...:** L4JD01AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D
Report Date: 03-Aug-2010 14:33

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D
Lab Smp Id: L4JD01AJ Client Smp ID: DUP1
Inj Date : 02-AUG-2010 22:55
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JD01AJ,5ML/5ML
Misc Info : T00802A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.368	5.369	(1.000)	1026225	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	799879	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	433934	100.000	
$ 4 Dibromofluoromethane	113	4.800	4.801	(0.894)	230101	106.691	21.338
$ 5 1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	266776	95.9890	19.198
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	888976	101.434	20.287
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	328191	89.7050	17.941
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	1.819	1.819	(0.339)	3501	1.02656	0.2053
10 Vinyl Chloride	62	1.913	1.925	(0.356)	21370	6.10779	1.222
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.002	3.002	(0.559)	5626	1.61445	0.3229
17 1,1-Dichloroethene	61	Compound Not Detected.					
18 Freon-113	101	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D
Report Date: 03-Aug-2010 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	61	Compound Not Detected.					
	26 Hexane	57	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	61				12549	3.89580	0.7792
	32 cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	12549	3.89580	0.7792
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	5.144	5.144	(0.958)	808709	84.4128	16.882
	42 Trichloroethene	130	5.688	5.676	(1.060)	4079	1.73607	0.3472
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	91	Compound Not Detected.					
	62 m + p-Xylene	91	Compound Not Detected.					
M	63 Xylenes (total)	91	Compound Not Detected.					
	64 Xylene-o	91	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	91	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D
Report Date: 03-Aug-2010 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D
Report Date: 03-Aug-2010 14:33

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123047.D
Lab Smp Id: L4JD01AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903

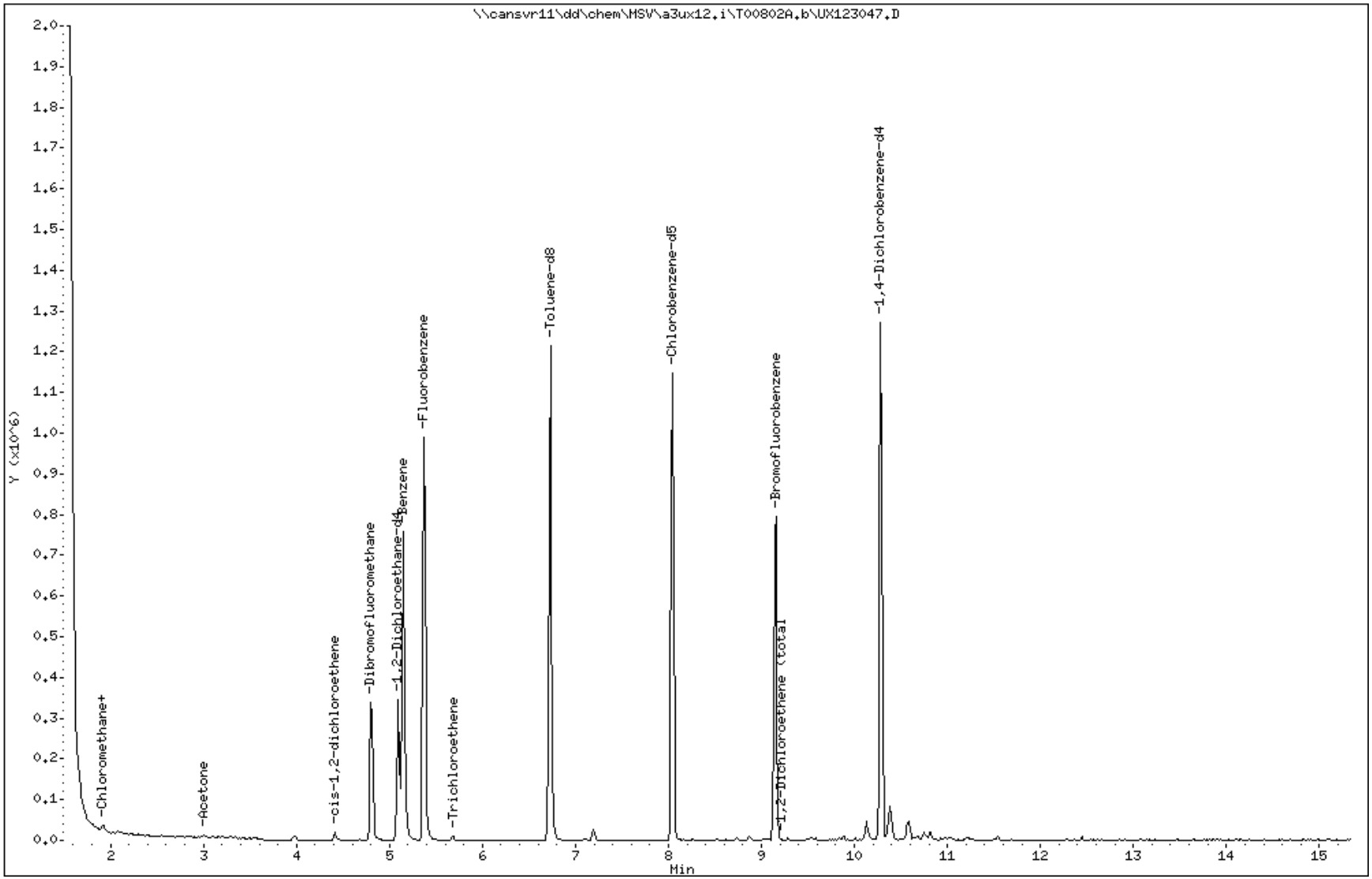
Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Client Smp ID: DUP1
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	1026225	2.45
2 Chlorobenzene-d5	825482	412741	1650964	799879	-3.10
3 1,4-Dichlorobenze	542805	271403	1085610	433934	-20.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D
Date : 02-AUG-2010 22:55
Client ID: DUP1 Instrument: a3ux12.i
Sample Info: L4JD01AJ,5ML/5ML
Purge Volume: 5.0 Operator: 1903
Column phase: DB624 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D

Date : 02-AUG-2010 22:55

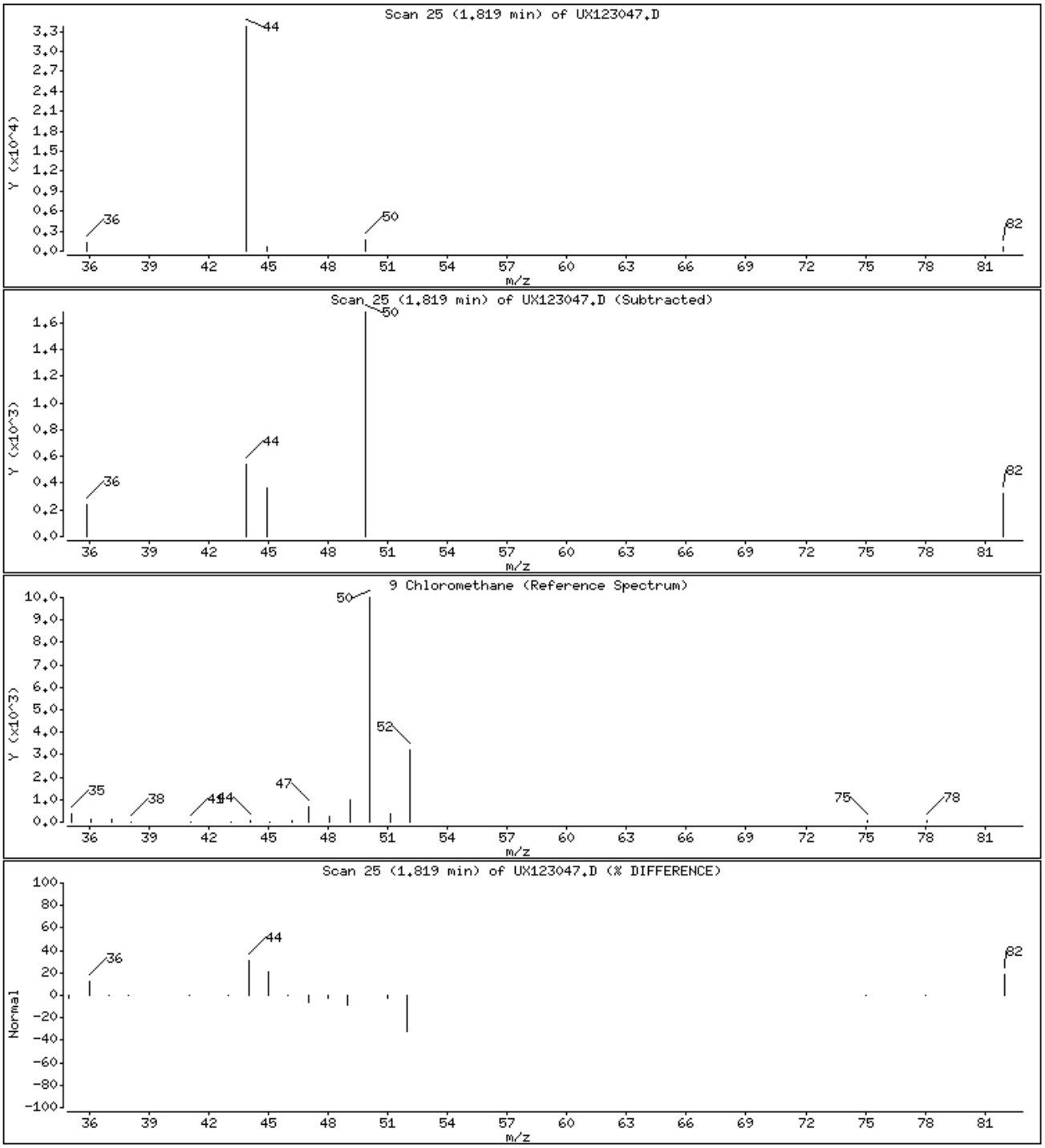
Client ID: DUP1 Instrument: a3ux12.i

Sample Info: L4JD01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 0.2053 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D

Date : 02-AUG-2010 22:55

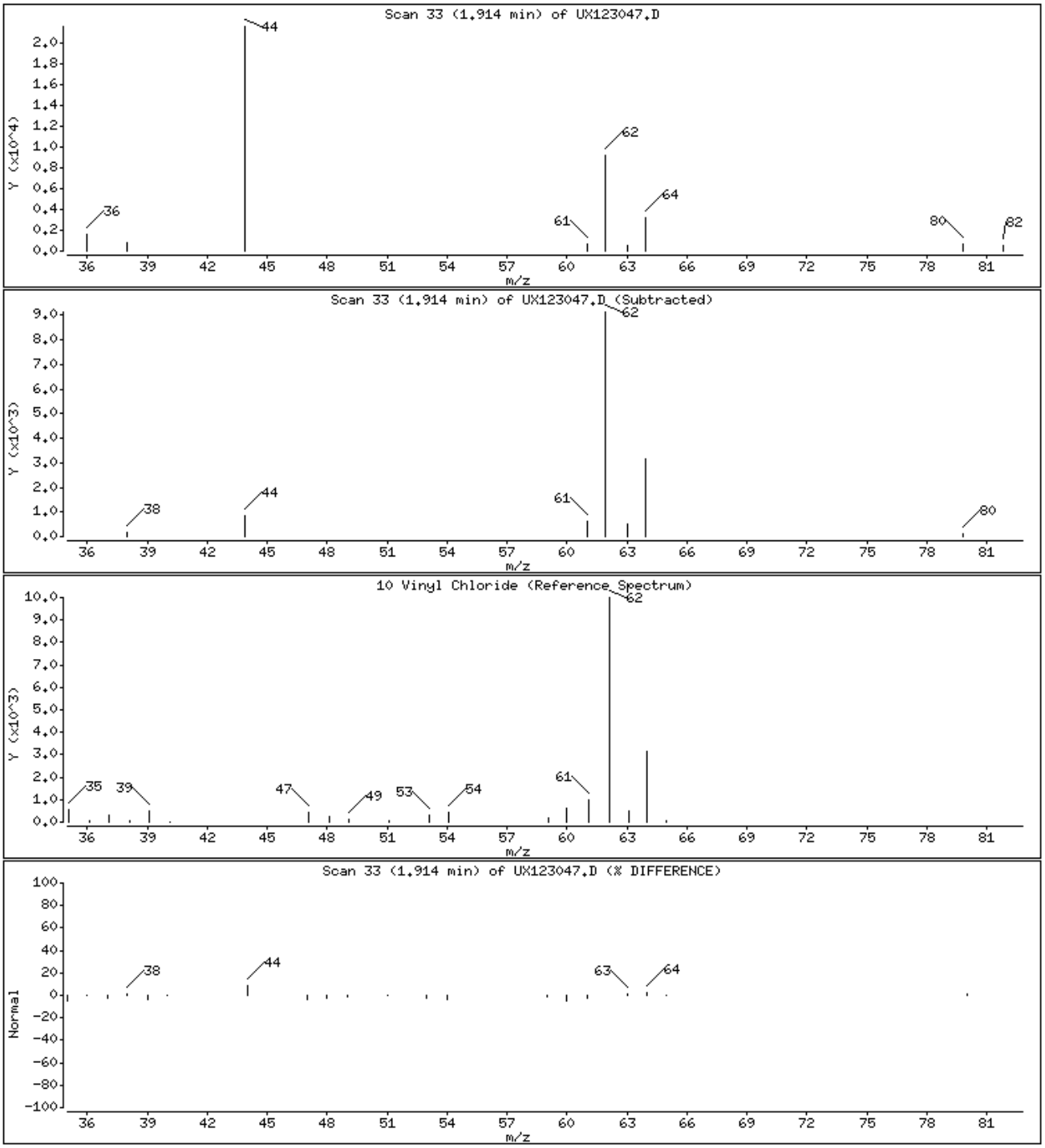
Client ID: DUP1 Instrument: a3ux12.i

Sample Info: L4JD01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

10 Vinyl Chloride Concentration: 1.222 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D

Date : 02-AUG-2010 22:55

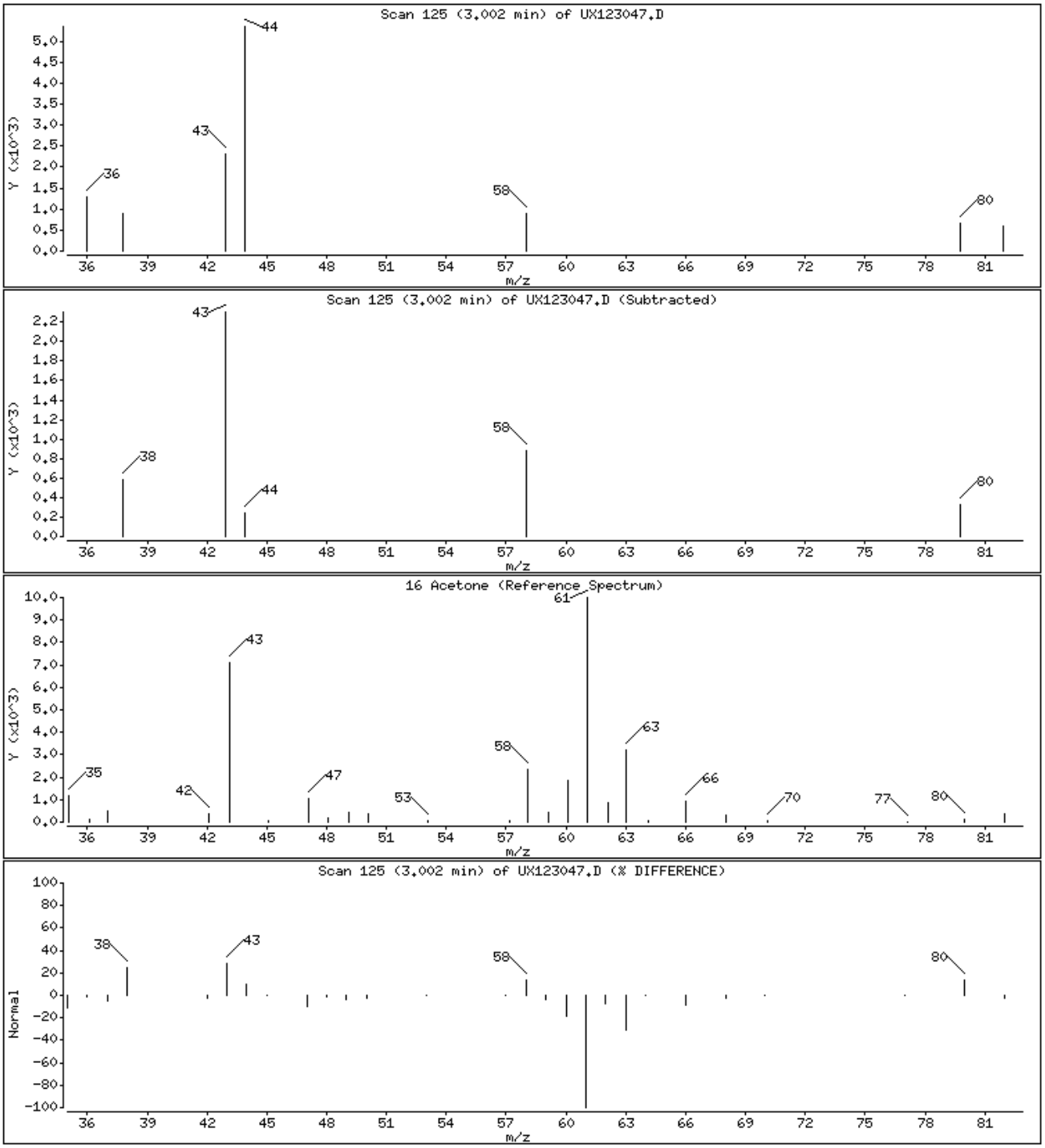
Client ID: DUP1 Instrument: a3ux12.i

Sample Info: L4JD01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 0.3229 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D

Date : 02-AUG-2010 22:55

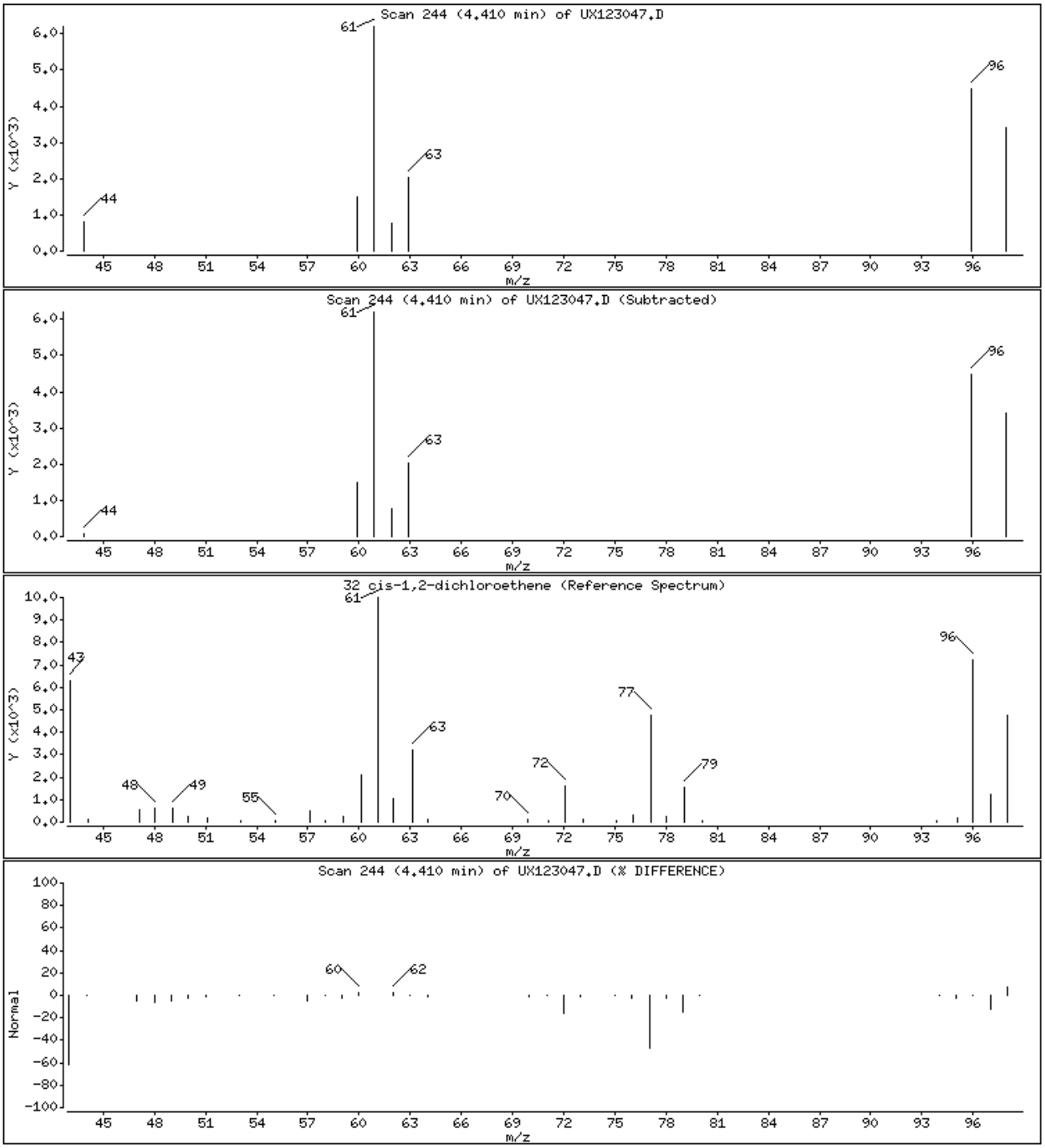
Client ID: DUP1 Instrument: a3ux12.i

Sample Info: L4JD01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 0.7792 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D

Date : 02-AUG-2010 22:55

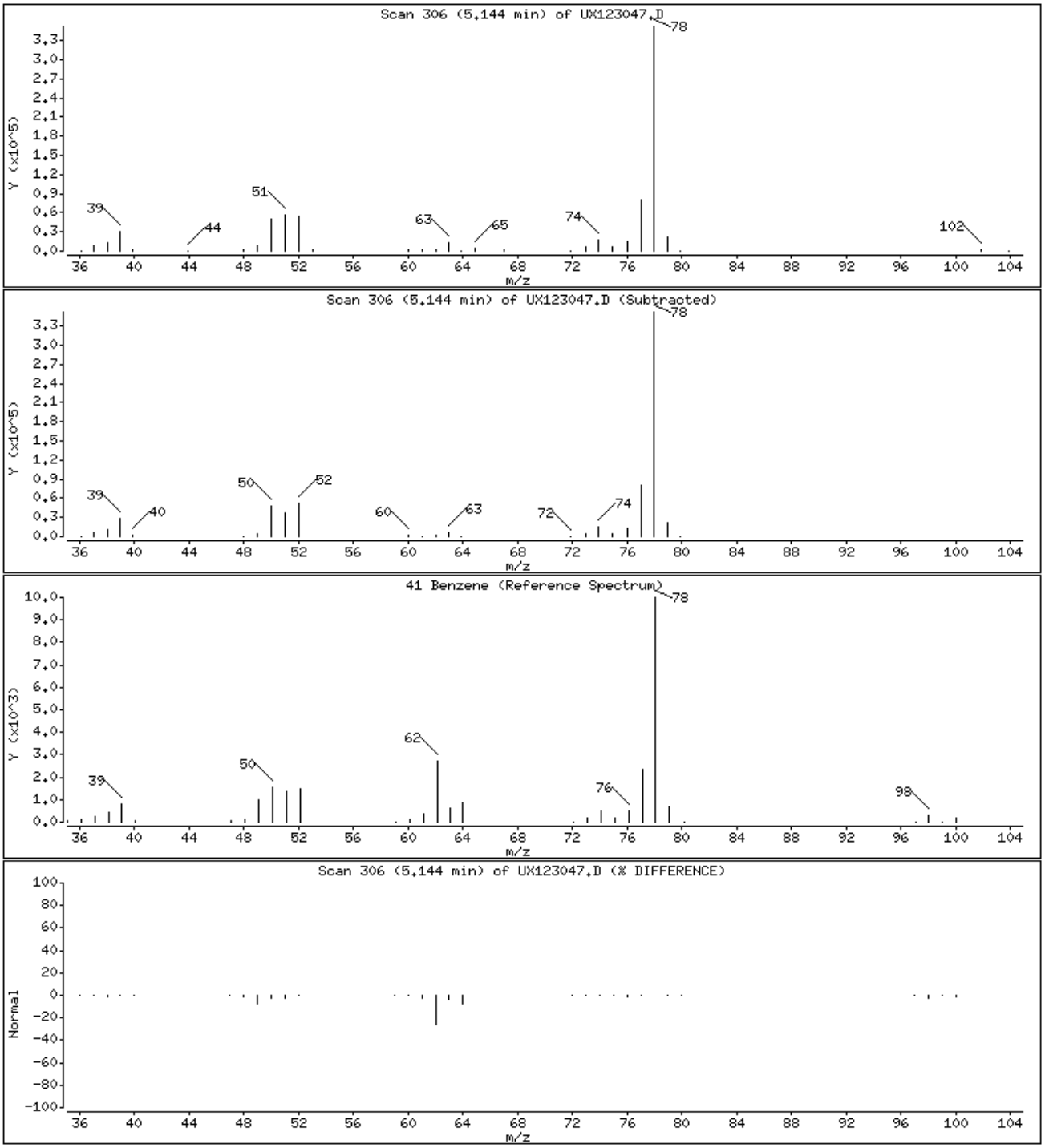
Client ID: DUP1 Instrument: a3ux12.i

Sample Info: L4JD01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 16.882 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123047.D

Date : 02-AUG-2010 22:55

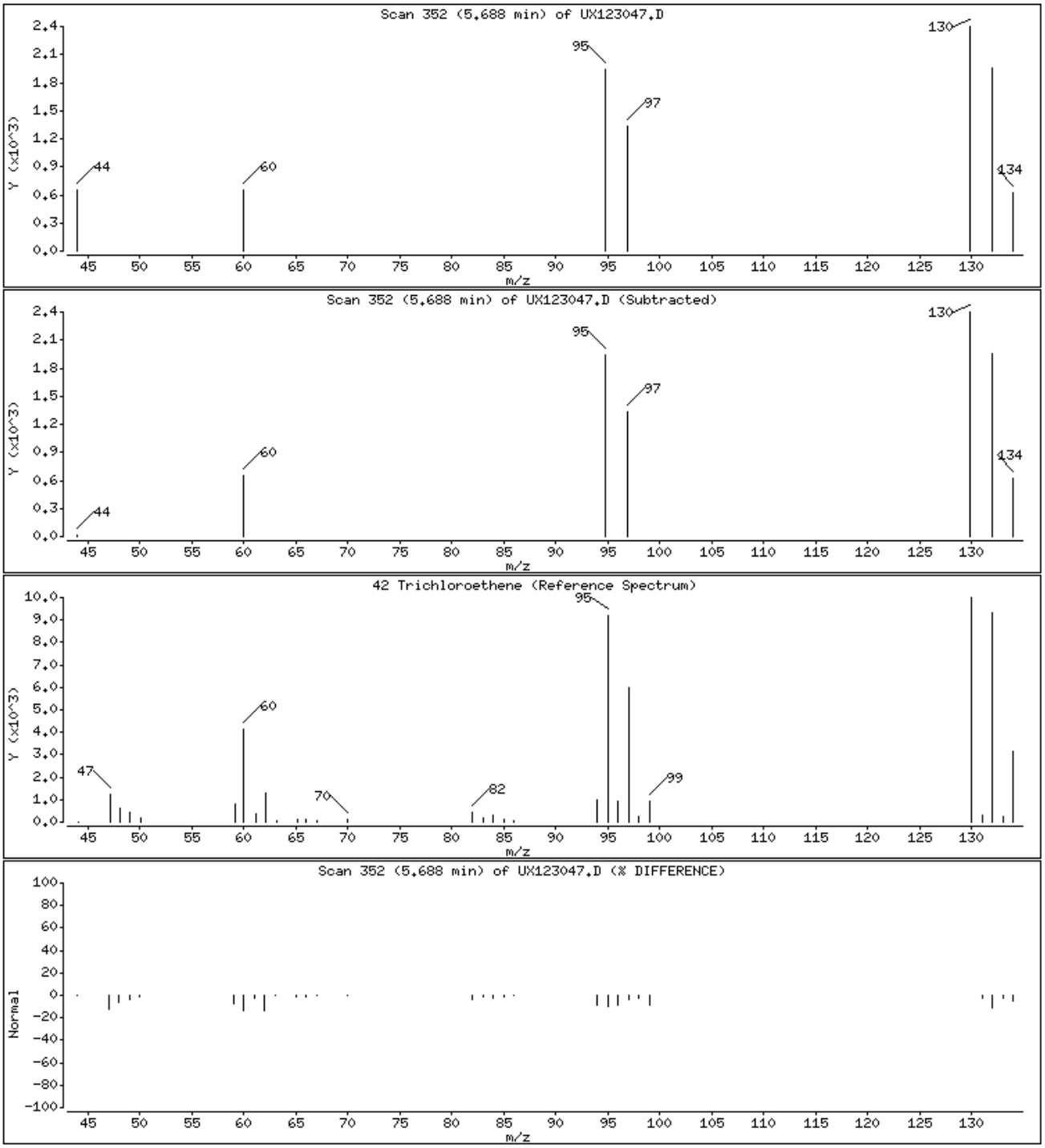
Client ID: DUP1 Instrument: a3ux12.i

Sample Info: L4JD01AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

42 Trichloroethene Concentration: 0.3472 ug/L



Cardinal Resources

Client Sample ID: PUMP RINSE

GC/MS Volatiles

Lot-Sample #...: A0G220446-004 **Work Order #...:** L4JD11AA **Matrix.....:** WG
Date Sampled...: 07/21/10 09:45 **Date Received..:** 07/22/10
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: PUMP RINSE

GC/MS Volatiles

Lot-Sample #...: A0G220446-004 **Work Order #...:** L4JD11AA **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D
Report Date: 03-Aug-2010 14:33

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D
Lab Smp Id: L4JD11AA Client Smp ID: PUMP RINSE
Inj Date : 02-AUG-2010 23:19
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JD11AA,5ML/5ML
Misc Info : T00802A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.368	5.369	(1.000)	1007440	100.000	
*	2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	800259	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	419501	100.000	
$	4 Dibromofluoromethane	113	4.800	4.801	(0.894)	224153	105.871	21.174
$	5 1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	268544	98.4268	19.685
$	6 Toluene-d8	98	6.729	6.729	(0.837)	878494	100.191	20.038
$	7 Bromofluorobenzene	95	9.143	9.143	(1.137)	321854	87.9311	17.586
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	1.818	1.819	(0.339)	4163	1.24343	0.2487
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	15 Acrolein	56	Compound Not Detected.					
	16 Acetone	43	3.002	3.002	(0.559)	11812	7.58118	1.516
	17 1,1-Dichloroethene	61	Compound Not Detected.					
	18 Freon-113	101	Compound Not Detected.					
	19 Iodomethane	142	Compound Not Detected.					
	20 Carbon Disulfide	76	Compound Not Detected.					
	21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D
Report Date: 03-Aug-2010 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	61	Compound Not Detected.					
	26 Hexane	57	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	61	Compound Not Detected.					
	32 cis-1,2-dichloroethene	61	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	91	Compound Not Detected.					
	62 m + p-Xylene	91	Compound Not Detected.					
M	63 Xylenes (total)	91	Compound Not Detected.					
	64 Xylene-o	91	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	91	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D
Report Date: 03-Aug-2010 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D
Report Date: 03-Aug-2010 14:33

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123048.D
Lab Smp Id: L4JD11AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903

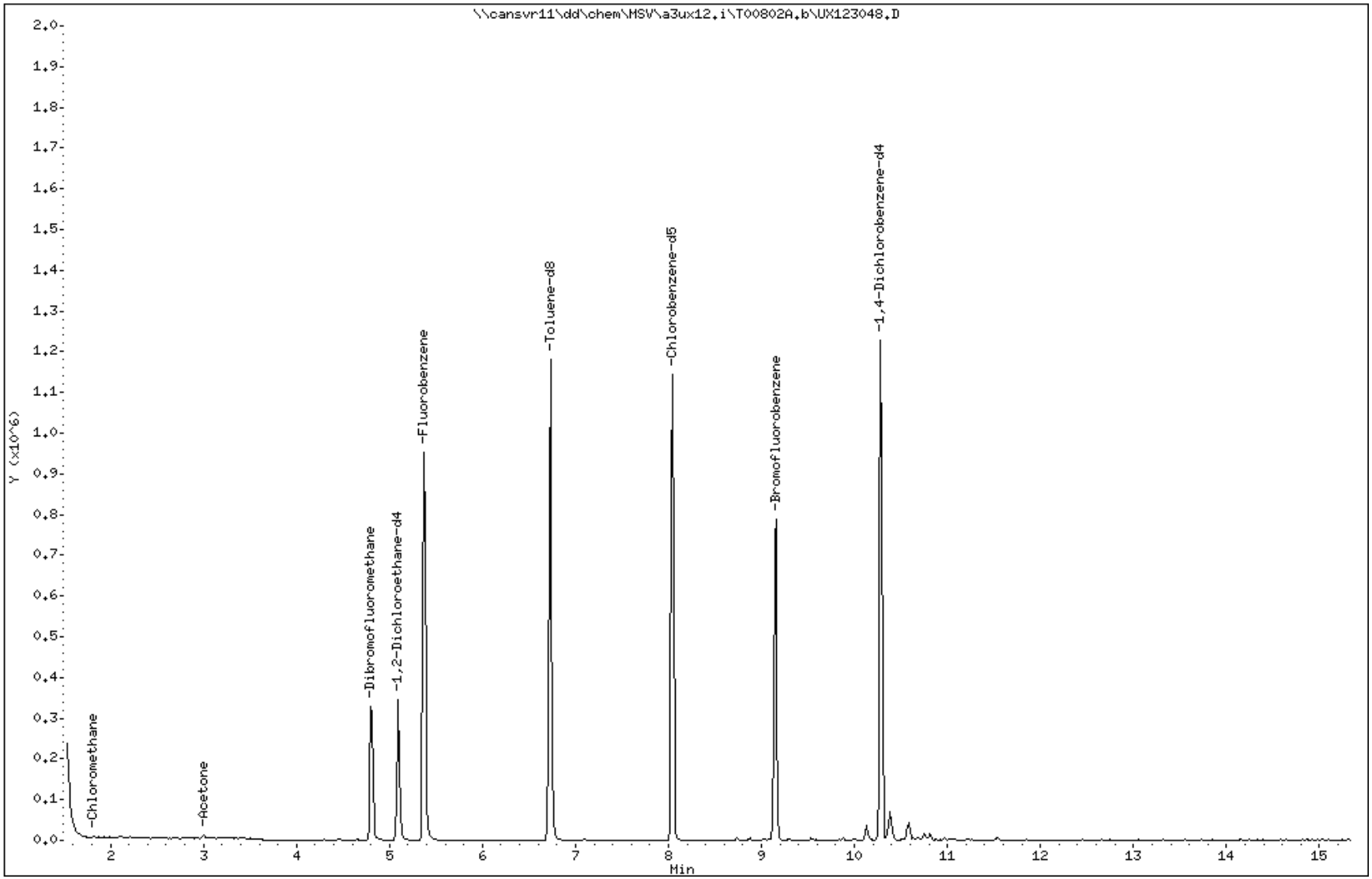
Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Client Smp ID: PUMP RINSE
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	1007440	0.58
2 Chlorobenzene-d5	825482	412741	1650964	800259	-3.06
3 1,4-Dichlorobenze	542805	271403	1085610	419501	-22.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D
Date : 02-AUG-2010 23:19
Client ID: PUMP RINSE
Instrument: a3ux12.i
Sample Info: L4JD11AA,5ML/5ML
Purge Volume: 5.0
Operator: 1903
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D

Date : 02-AUG-2010 23:19

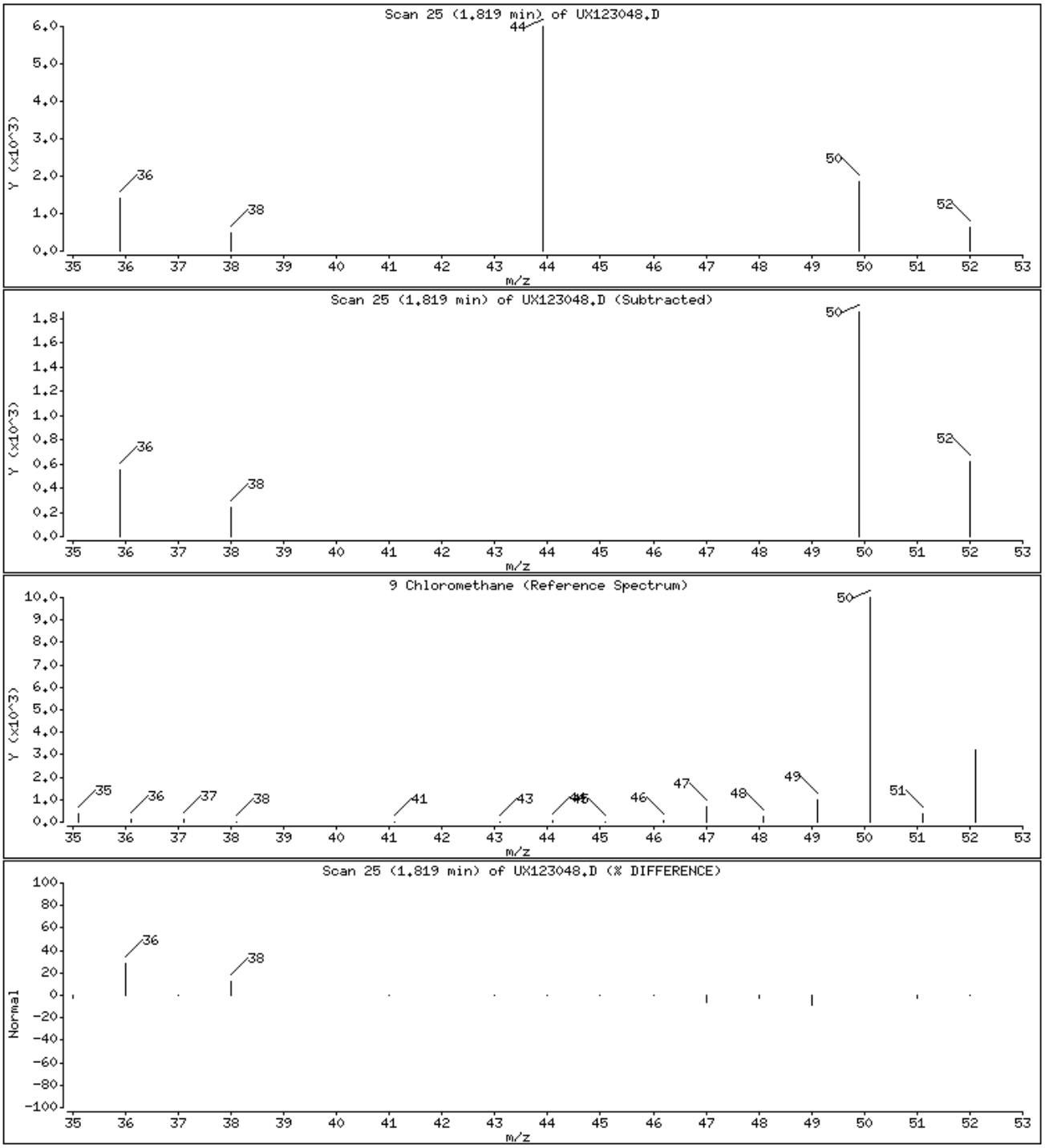
Client ID: PUMP RINSE | Instrument: a3ux12.i

Sample Info: L4JD11AA,5ML/5ML

Purge Volume: 5.0 | Operator: 1903

Column phase: DB624 | Column diameter: 0.18

9 Chloromethane | Concentration: 0.2487 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123048.D

Date : 02-AUG-2010 23:19

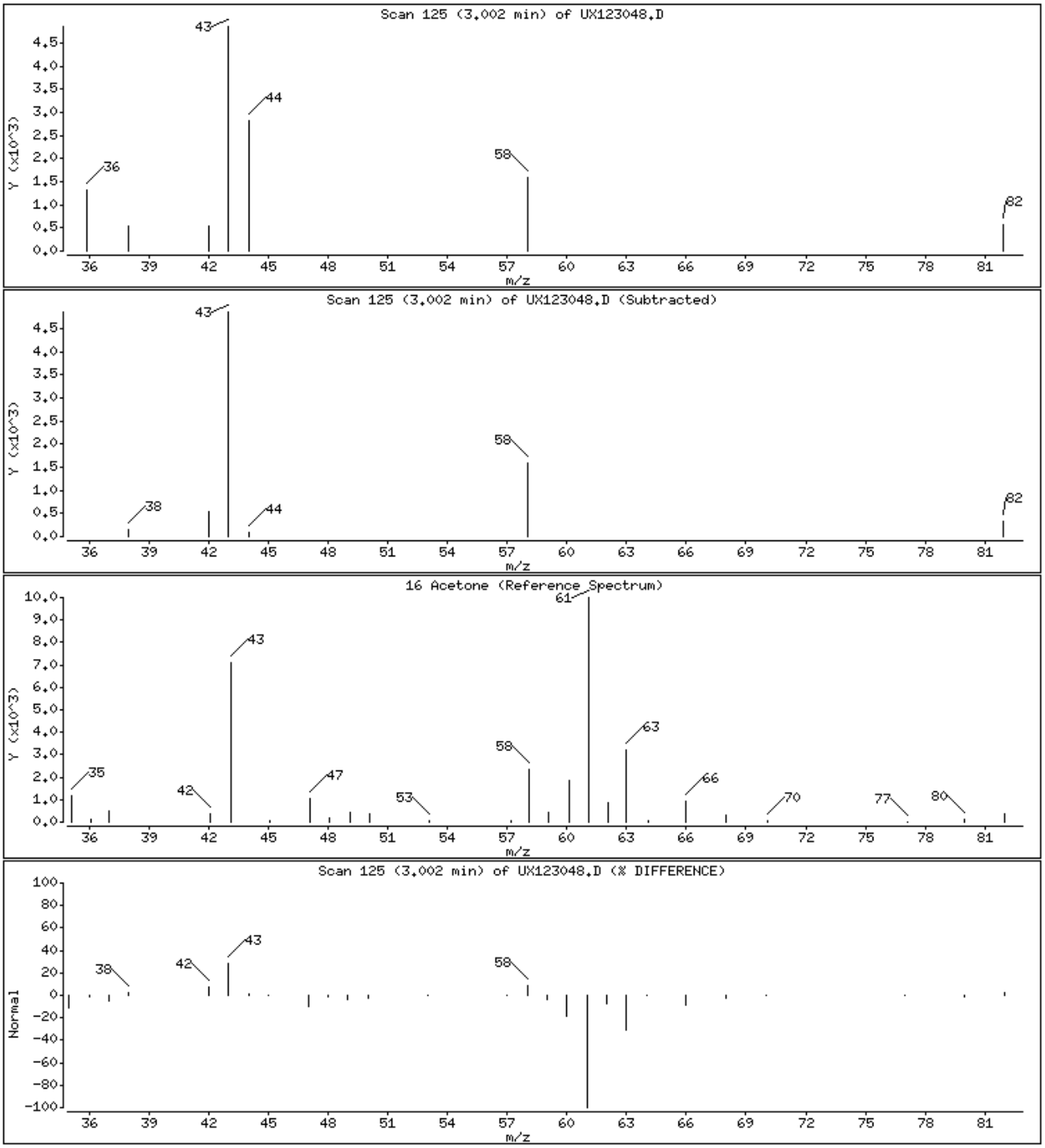
Client ID: PUMP RINSE | Instrument: a3ux12.i

Sample Info: L4JD11AA,5ML/5ML

Purge Volume: 5.0 | Operator: 1903

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 1.516 ug/L



Cardinal Resources

Client Sample ID: OW5

GC/MS Volatiles

Lot-Sample #...: A0G220446-005 **Work Order #...:** L4JD31A1 **Matrix.....:** WG
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**4.8**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**1.6**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.37 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	**4.2**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	99	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW5

GC/MS Volatiles

Lot-Sample #...: A0G220446-005 **Work Order #...:** L4JD31A1 **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D
Report Date: 02-Aug-2010 19:07

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D
Lab Smp Id: L4JD31A1 Client Smp ID: OW5
Inj Date : 02-AUG-2010 18:06
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JD31A1,5ML/5ML
Misc Info : T00802A,8260MIUX12,,1903,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.368	5.369	(1.000)	934907	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	749828	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	394408	100.000	
$ 4 Dibromofluoromethane	113	4.800	4.801	(0.894)	214467	109.155	21.831
$ 5 1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	251658	99.3939	19.879
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	817215	99.4704	19.894
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	294237	85.7926	17.158
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	1.818	1.819	(0.339)	3203	1.03092	0.2062
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.002	3.002	(0.559)	7494	4.03605	0.8072
17 1,1-Dichloroethene	61	Compound Not Detected.					
18 Freon-113	101	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D
Report Date: 02-Aug-2010 19:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	Compound Not Detected.					
25	trans-1,2-Dichloroethene	61	Compound Not Detected.					
26	Hexane	57	Compound Not Detected.					
27	Vinyl acetate	43	Compound Not Detected.					
152	Vinyl acetate - 86	86	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
29	tert-Butyl Alcohol	59	Compound Not Detected.					
30	2-Butanone	43	Compound Not Detected.					
M 31	1,2-Dichloroethene (total)	61				70990	24.1913	4.838
32	cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	70990	24.1913	4.838
33	2,2-Dichloropropane	77	Compound Not Detected.					
34	Bromochloromethane	128	Compound Not Detected.					
35	Chloroform	83	Compound Not Detected.					
36	Tetrahydrofuran	42	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	1,1-Dichloropropene	75	Compound Not Detected.					
39	Carbon Tetrachloride	117	Compound Not Detected.					
40	1,2-Dichloroethane	62	Compound Not Detected.					
41	Benzene	78	5.143	5.144	(0.958)	15978	1.83068	0.3661
42	Trichloroethene	130	5.676	5.676	(1.057)	16612	7.76085	1.552
43	1,2-Dichloropropane	63	Compound Not Detected.					
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48	cis-1,3-Dichloropropene	75	Compound Not Detected.					
49	4-Methyl-2-pentanone	43	Compound Not Detected.					
50	Toluene	91	Compound Not Detected.					
51	trans-1,3-Dichloropropene	75	Compound Not Detected.					
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	Compound Not Detected.					
54	1,3-Dichloropropane	76	Compound Not Detected.					
55	Tetrachloroethene	164	7.285	7.285	(0.906)	30858	20.9132	4.183
56	2-Hexanone	43	Compound Not Detected.					
57	Dibromochloromethane	129	Compound Not Detected.					
58	1,2-Dibromoethane	107	Compound Not Detected.					
59	Chlorobenzene	112	Compound Not Detected.					
60	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
61	Ethylbenzene	91	Compound Not Detected.					
62	m + p-Xylene	91	Compound Not Detected.					
M 63	Xylenes (total)	91	Compound Not Detected.					
64	Xylene-o	91	Compound Not Detected.					
65	Styrene	104	Compound Not Detected.					
66	Bromoform	173	Compound Not Detected.					
67	Isopropylbenzene	105	Compound Not Detected.					
68	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
69	1,4-Dichloro-2-butene	53	Compound Not Detected.					
70	1,2,3-Trichloropropane	110	Compound Not Detected.					
71	Bromobenzene	156	Compound Not Detected.					
72	n-Propylbenzene	91	Compound Not Detected.					
73	2-Chlorotoluene	126	Compound Not Detected.					
74	1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D
Report Date: 02-Aug-2010 19:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	10.646	10.646	(1.036)	3659	0.70674	0.1413
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D
Report Date: 02-Aug-2010 19:07

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123035.D
Lab Smp Id: L4JD31A1
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903,3,,BLANK,,0

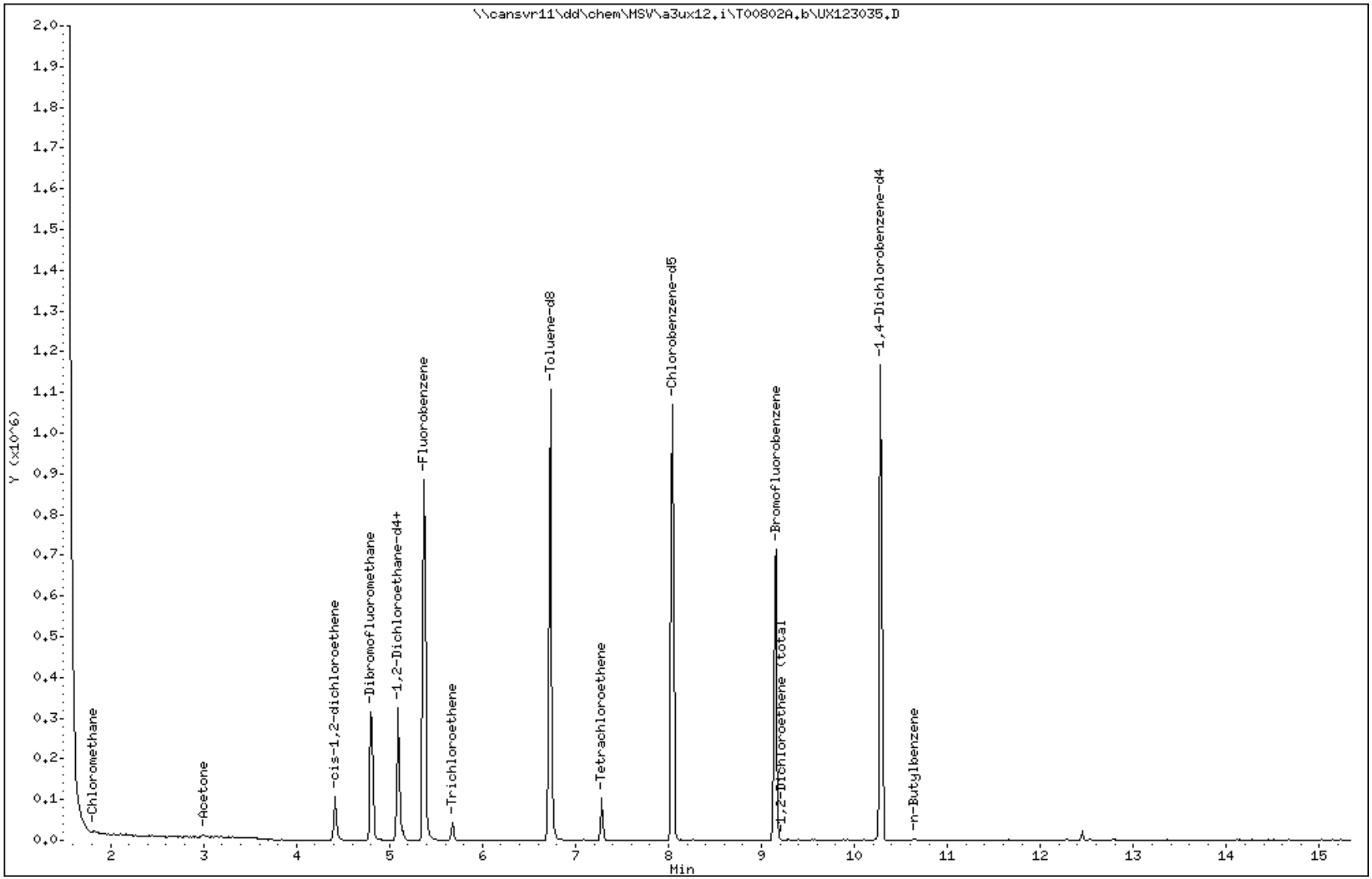
Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Client Smp ID: OW5
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	934907	-6.66
2 Chlorobenzene-d5	825482	412741	1650964	749828	-9.16
3 1,4-Dichlorobenze	542805	271403	1085610	394408	-27.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D
Date : 02-AUG-2010 18:06
Client ID: OW5 Instrument: a3ux12.i
Sample Info: L4JD31A1,5ML/5ML
Purge Volume: 5.0 Operator: 1903
Column phase: DB624 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D

Date : 02-AUG-2010 18:06

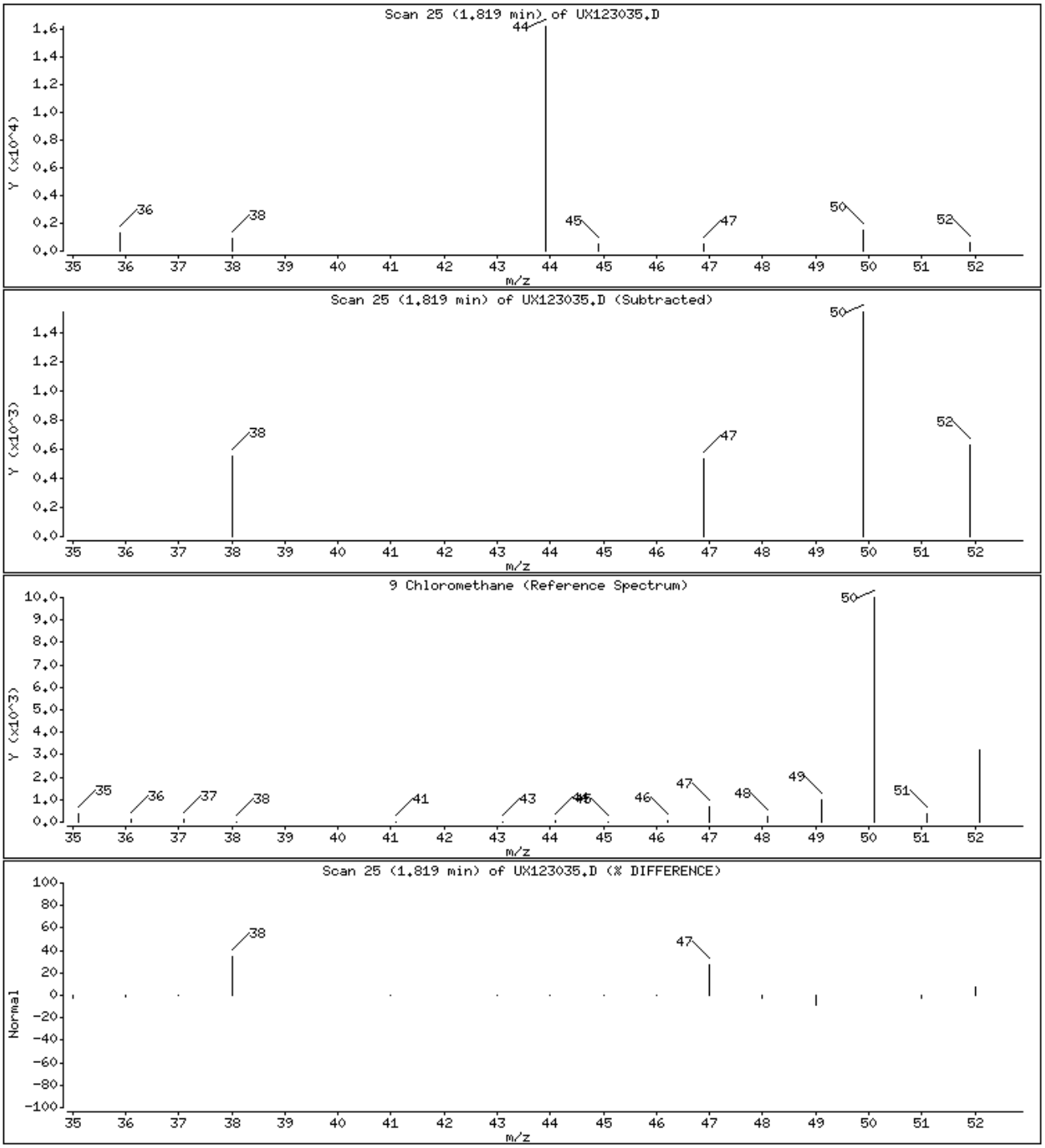
Client ID: OW5 Instrument: a3ux12.i

Sample Info: L4JD31A1,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 0.2062 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D

Date : 02-AUG-2010 18:06

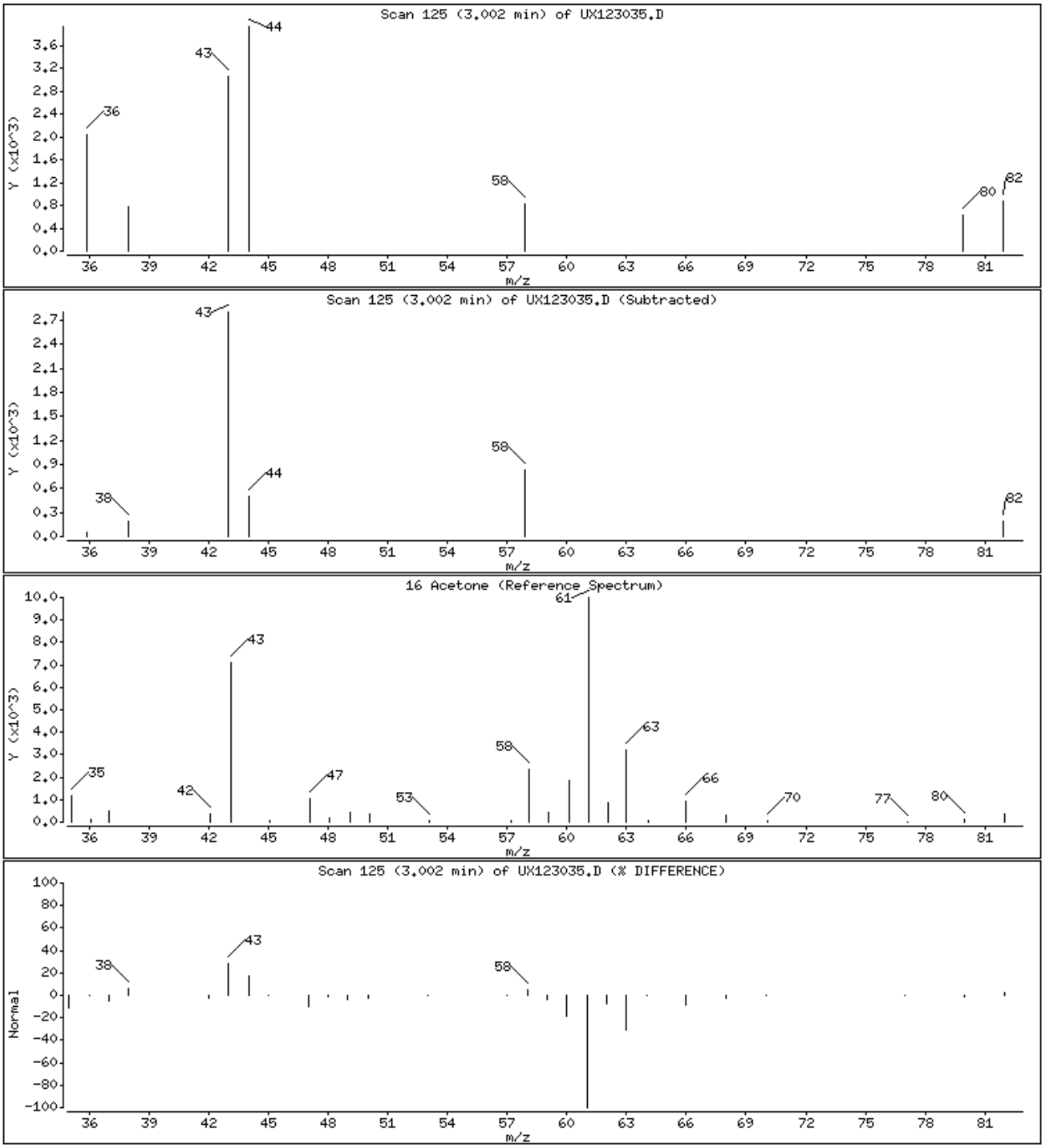
Client ID: OW5 Instrument: a3ux12.i

Sample Info: L4JD31A1,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 0.8072 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D

Date : 02-AUG-2010 18:06

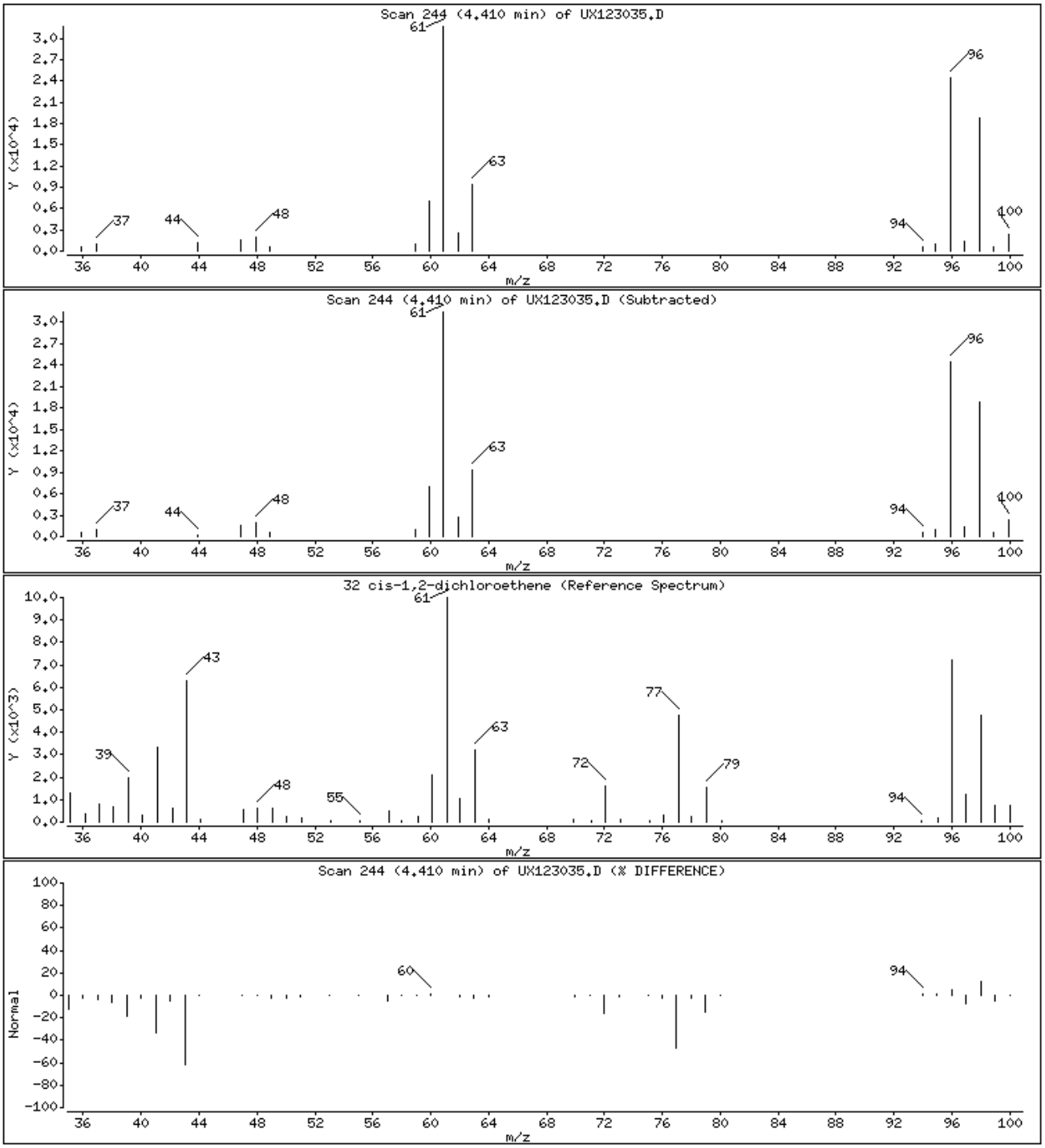
Client ID: OW5 Instrument: a3ux12.i

Sample Info: L4JD31A1,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 4.838 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D

Date : 02-AUG-2010 18:06

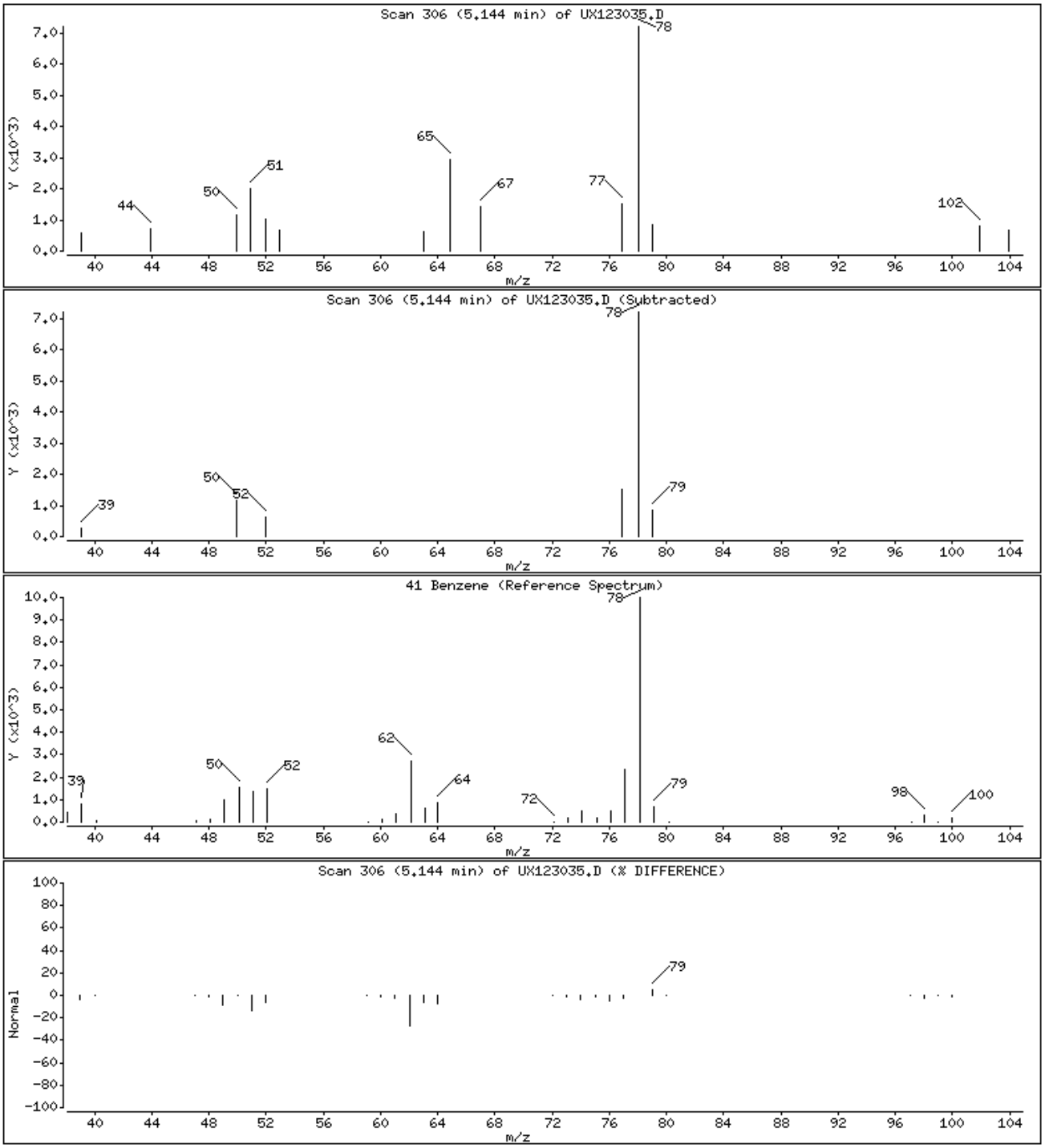
Client ID: OW5 Instrument: a3ux12.i

Sample Info: L4JD31A1,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 0.3661 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D

Date : 02-AUG-2010 18:06

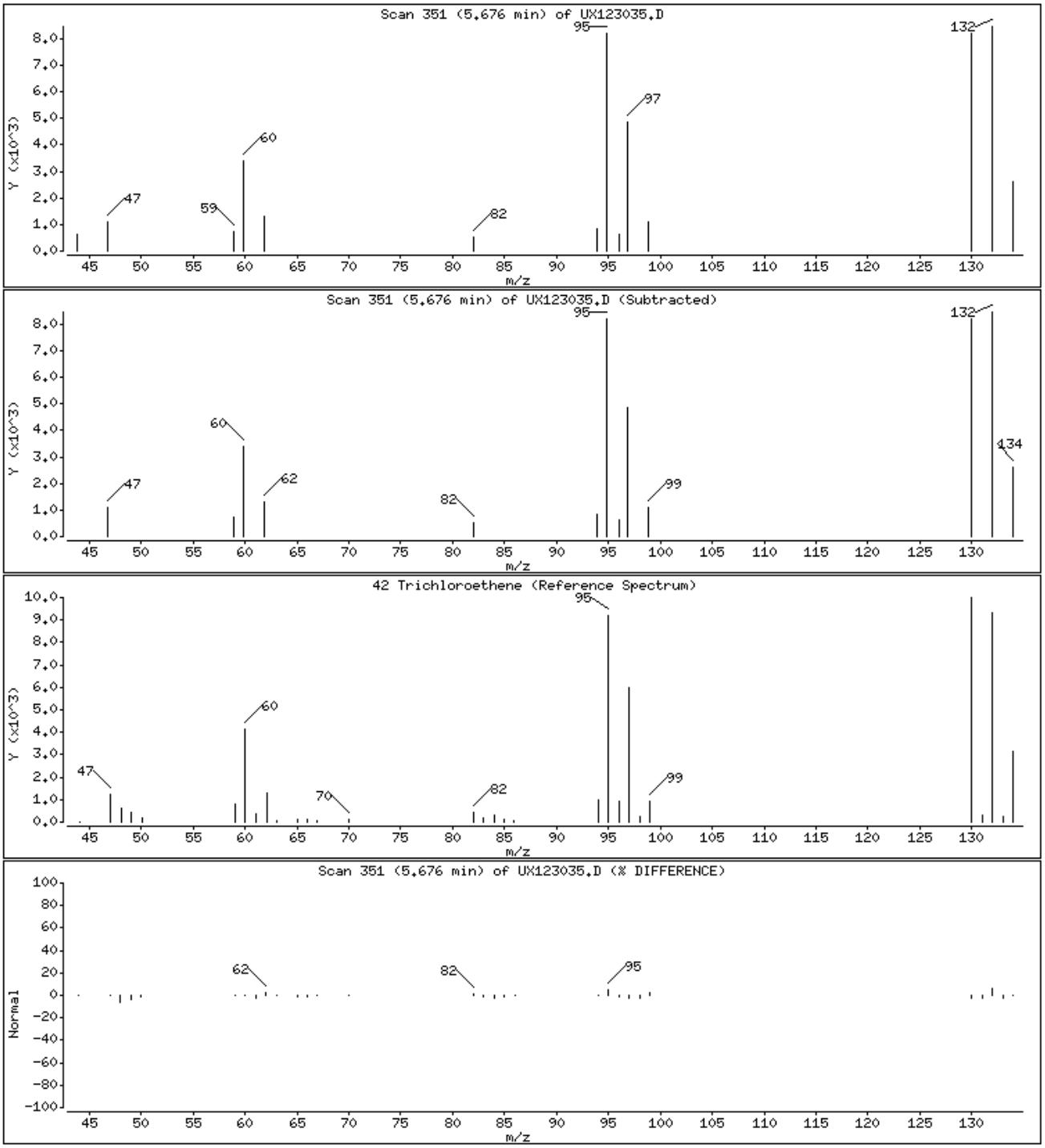
Client ID: OW5 Instrument: a3ux12.i

Sample Info: L4JD31A1,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

42 Trichloroethene Concentration: 1.552 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D

Date : 02-AUG-2010 18:06

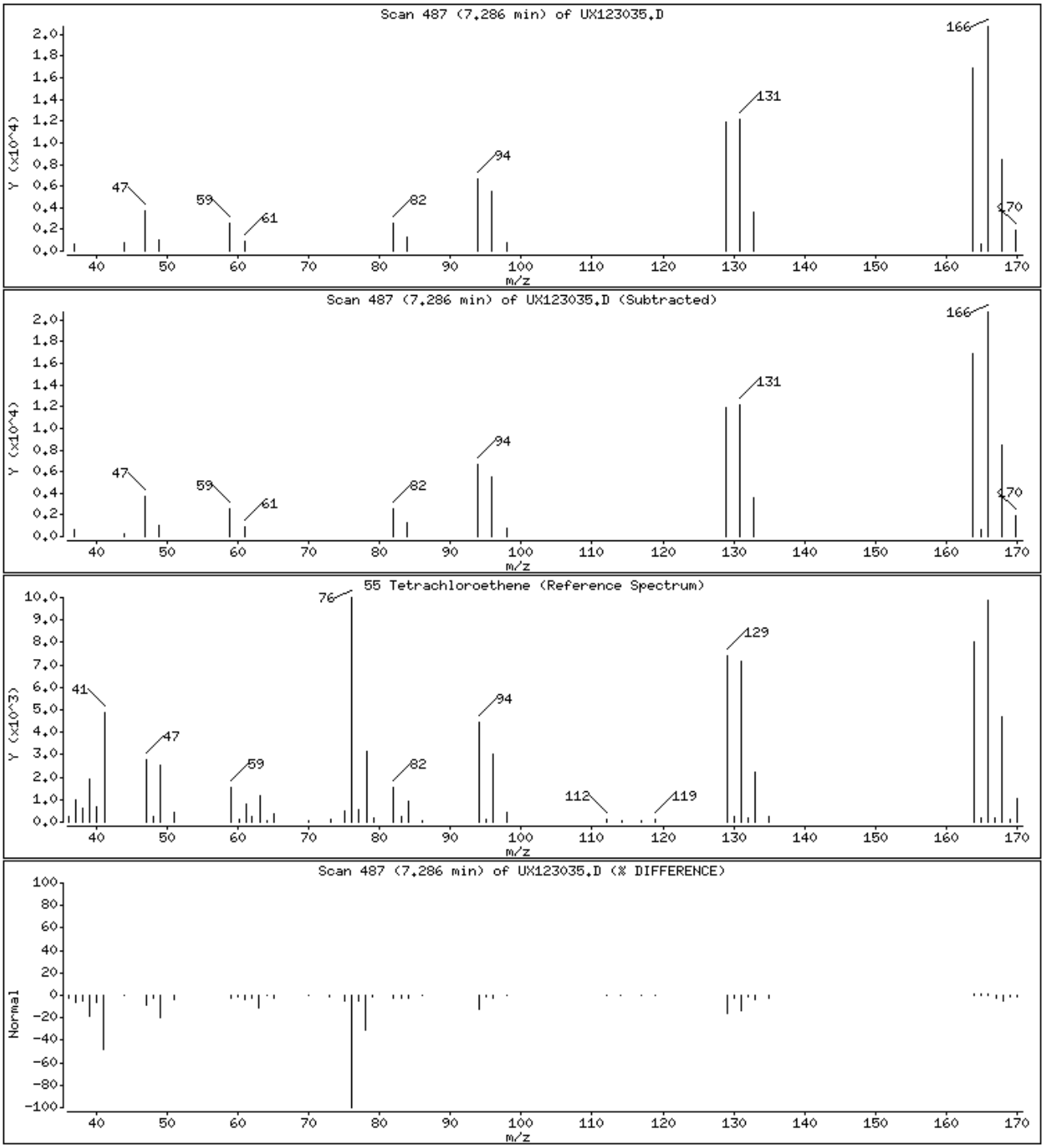
Client ID: OW5 Instrument: a3ux12.i

Sample Info: L4JD31A1,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

55 Tetrachloroethene Concentration: 4.183 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123035.D

Date : 02-AUG-2010 18:06

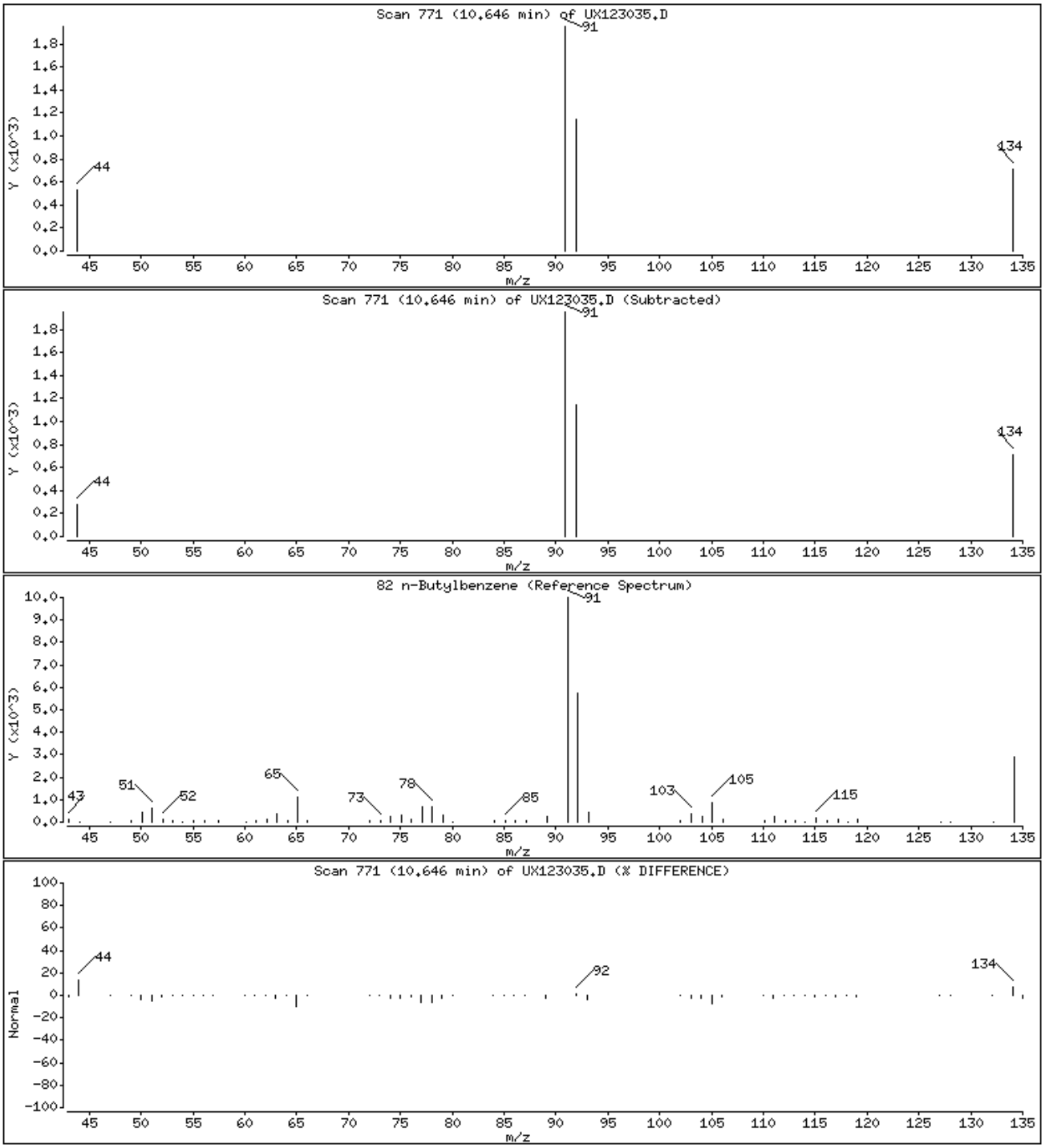
Client ID: OW5 Instrument: a3ux12.i

Sample Info: L4JD31A1,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

82 n-Butylbenzene Concentration: 0.1413 ug/L



Cardinal Resources

Client Sample ID: OW6

GC/MS Volatiles

Lot-Sample #...: A0G220446-006 **Work Order #...:** L4JEC1AJ **Matrix.....:** WG
Date Sampled...: 07/21/10 11:55 **Date Received..:** 07/22/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	**0.31 J**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**20**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**8.6**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	**42**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW6

GC/MS Volatiles

Lot-Sample #...: A0G220446-006 **Work Order #...:** L4JEC1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D
Report Date: 02-Aug-2010 15:19

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D
Lab Smp Id: L4JEC1AJ Client Smp ID: OW6
Inj Date : 01-AUG-2010 21:24
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JEC1AJ,5ML/5ML
Misc Info : T00801A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Meth Date : 01-Aug-2010 13:13 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
*	1 Fluorobenzene	96	5.368	5.368	(1.000)	962639	100.000	
*	2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	770192	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	396450	100.000	
$	4 Dibromofluoromethane	113	4.800	4.800	(0.894)	218675	108.090	21.618
$	5 1,2-Dichloroethane-d4	65	5.096	5.084	(0.949)	248377	95.2720	19.054
$	6 Toluene-d8	98	6.729	6.729	(0.837)	842315	99.8147	19.963
$	7 Bromofluorobenzene	95	9.143	9.143	(1.137)	304056	86.3115	17.262
	8 Dichlorodifluoromethane	85	Compound Not Detected.					
	9 Chloromethane	50	1.819	1.819	(0.339)	4931	1.54137	0.3083
	10 Vinyl Chloride	62	Compound Not Detected.					
	11 Bromomethane	94	Compound Not Detected.					
	12 Chloroethane	64	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	15 Acrolein	56	Compound Not Detected.					
	16 Acetone	43	2.990	3.002	(0.557)	7565	3.88583	0.7772
	17 1,1-Dichloroethene	61	Compound Not Detected.					
	18 Freon-113	101	Compound Not Detected.					
	19 Iodomethane	142	Compound Not Detected.					
	20 Carbon Disulfide	76	Compound Not Detected.					
	21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D
Report Date: 02-Aug-2010 15:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	Compound Not Detected.					
25	trans-1,2-Dichloroethene	61	Compound Not Detected.					
26	Hexane	57	Compound Not Detected.					
27	Vinyl acetate	43	Compound Not Detected.					
152	Vinyl acetate - 86	86	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
29	tert-Butyl Alcohol	59	Compound Not Detected.					
30	2-Butanone	43	Compound Not Detected.					
M 31	1,2-Dichloroethene (total)	61				294604	97.5002	19.500
32	cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	294604	97.5002	19.500
33	2,2-Dichloropropane	77	Compound Not Detected.					
34	Bromochloromethane	128	Compound Not Detected.					
35	Chloroform	83	Compound Not Detected.					
36	Tetrahydrofuran	42	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	1,1-Dichloropropene	75	Compound Not Detected.					
39	Carbon Tetrachloride	117	Compound Not Detected.					
40	1,2-Dichloroethane	62	Compound Not Detected.					
41	Benzene	78	Compound Not Detected.					
42	Trichloroethene	130	5.676	5.676	(1.057)	94867	43.0435	8.609
43	1,2-Dichloropropane	63	Compound Not Detected.					
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48	cis-1,3-Dichloropropene	75	Compound Not Detected.					
49	4-Methyl-2-pentanone	43	Compound Not Detected.					
50	Toluene	91	Compound Not Detected.					
51	trans-1,3-Dichloropropene	75	Compound Not Detected.					
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	Compound Not Detected.					
54	1,3-Dichloropropane	76	Compound Not Detected.					
55	Tetrachloroethene	164	7.285	7.285	(0.906)	317032	209.179	41.836
56	2-Hexanone	43	Compound Not Detected.					
57	Dibromochloromethane	129	Compound Not Detected.					
58	1,2-Dibromoethane	107	Compound Not Detected.					
59	Chlorobenzene	112	Compound Not Detected.					
60	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
61	Ethylbenzene	91	Compound Not Detected.					
62	m + p-Xylene	91	Compound Not Detected.					
M 63	Xylenes (total)	91	Compound Not Detected.					
64	Xylene-o	91	Compound Not Detected.					
65	Styrene	104	Compound Not Detected.					
66	Bromoform	173	Compound Not Detected.					
67	Isopropylbenzene	105	Compound Not Detected.					
68	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
69	1,4-Dichloro-2-butene	53	Compound Not Detected.					
70	1,2,3-Trichloropropane	110	Compound Not Detected.					
71	Bromobenzene	156	Compound Not Detected.					
72	n-Propylbenzene	91	Compound Not Detected.					
73	2-Chlorotoluene	126	Compound Not Detected.					
74	1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D
Report Date: 02-Aug-2010 15:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D
Report Date: 02-Aug-2010 15:19

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123025.D
Lab Smp Id: L4JEC1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Misc Info: T00801A,8260MIUX12,,1903

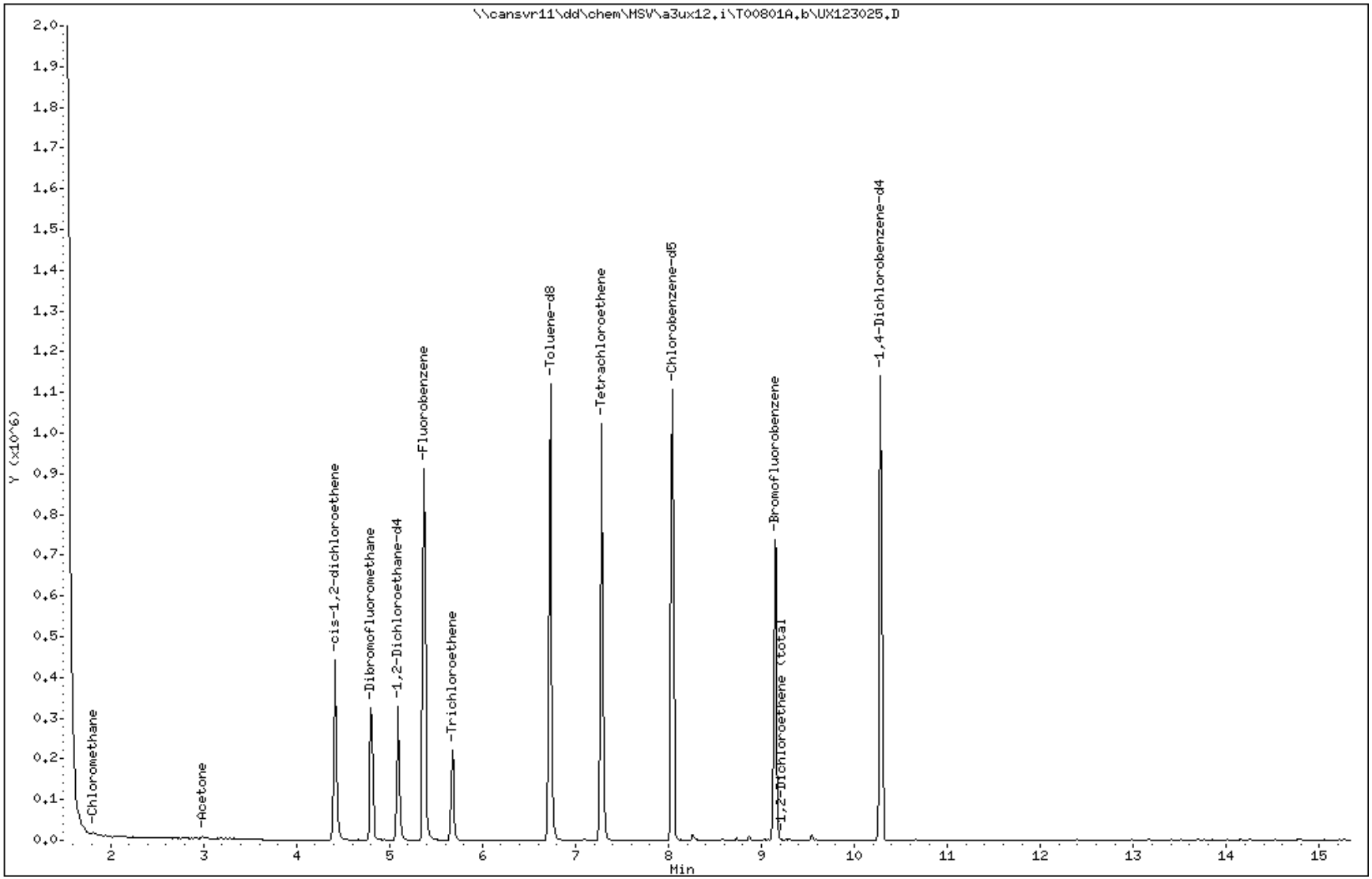
Calibration Date: 01-AUG-2010
Calibration Time: 12:57
Client Smp ID: OW6
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1100933	550467	2201866	962639	-12.56
2 Chlorobenzene-d5	893197	446599	1786394	770192	-13.77
3 1,4-Dichlorobenze	604126	302063	1208252	396450	-34.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D
Date : 01-AUG-2010 21:24
Client ID: OW6 Instrument: a3ux12.i
Sample Info: L4JEC1AJ,5ML/5ML
Purge Volume: 5.0 Operator: 1903
Column phase: DB624 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D

Date : 01-AUG-2010 21:24

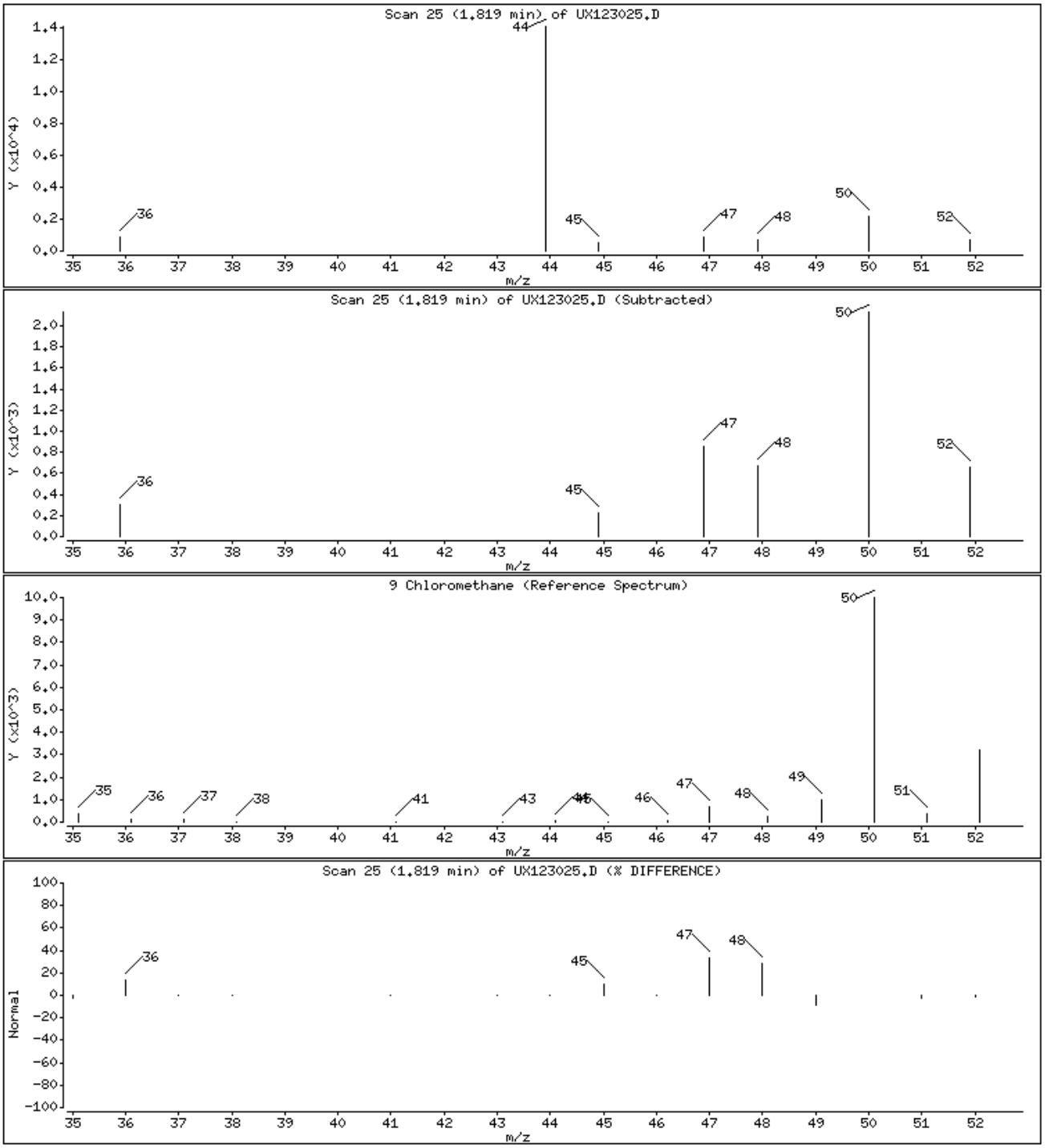
Client ID: OW6 Instrument: a3ux12.i

Sample Info: L4JEC1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 0.3083 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D

Date : 01-AUG-2010 21:24

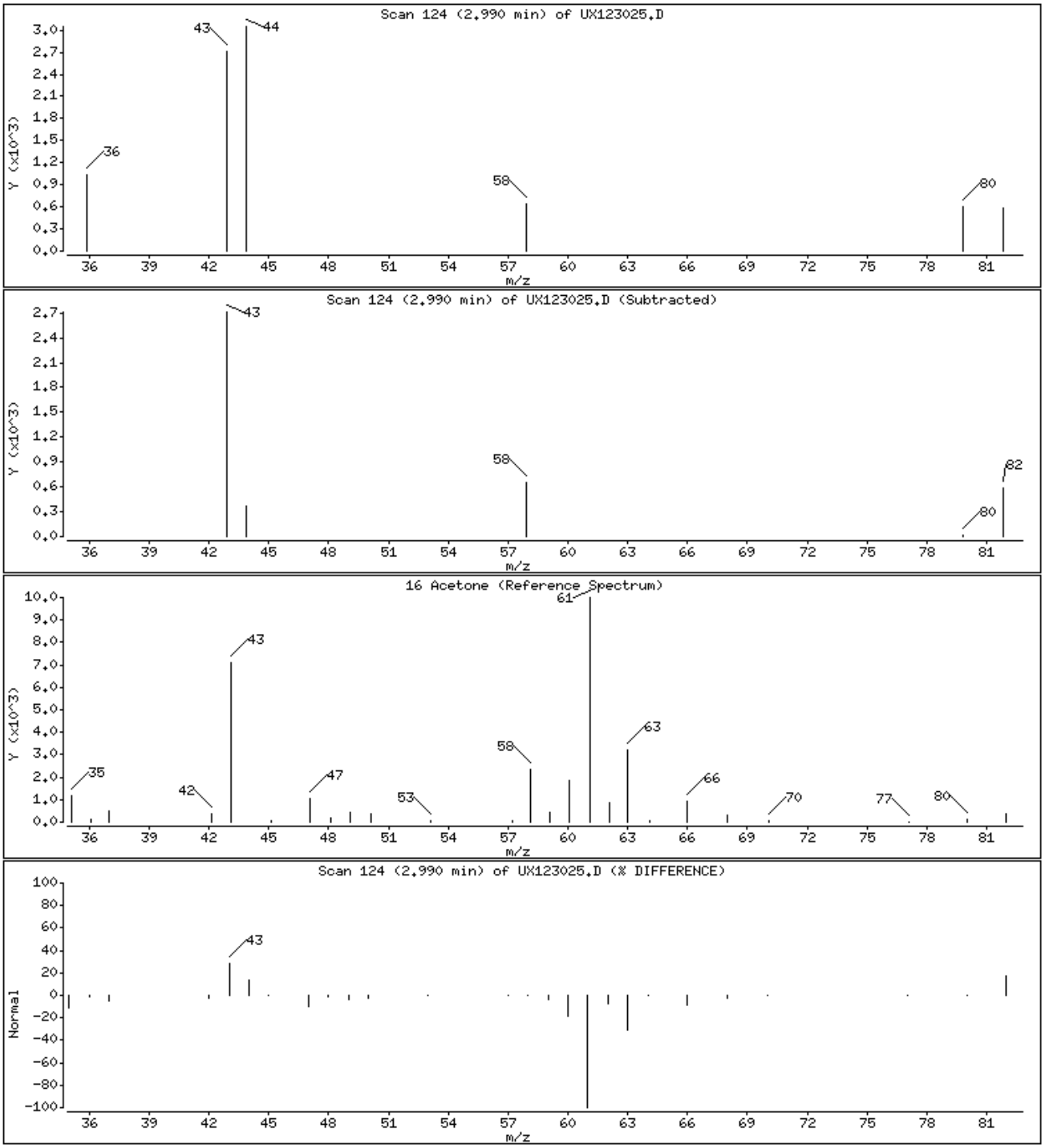
Client ID: OW6 Instrument: a3ux12.i

Sample Info: L4JEC1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 0.7772 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D

Date : 01-AUG-2010 21:24

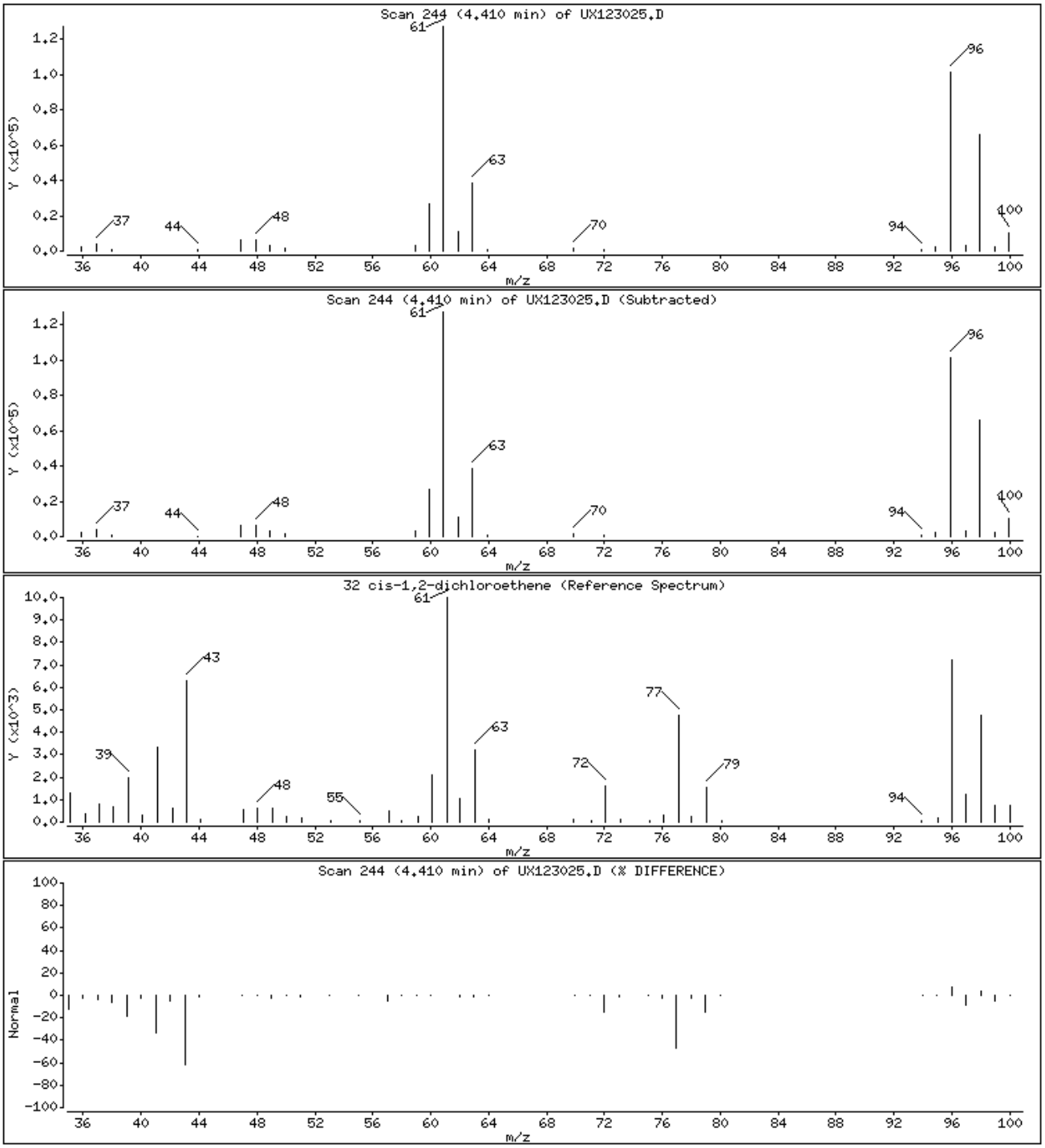
Client ID: OW6 Instrument: a3ux12.i

Sample Info: L4JEC1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 19.500 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D

Date : 01-AUG-2010 21:24

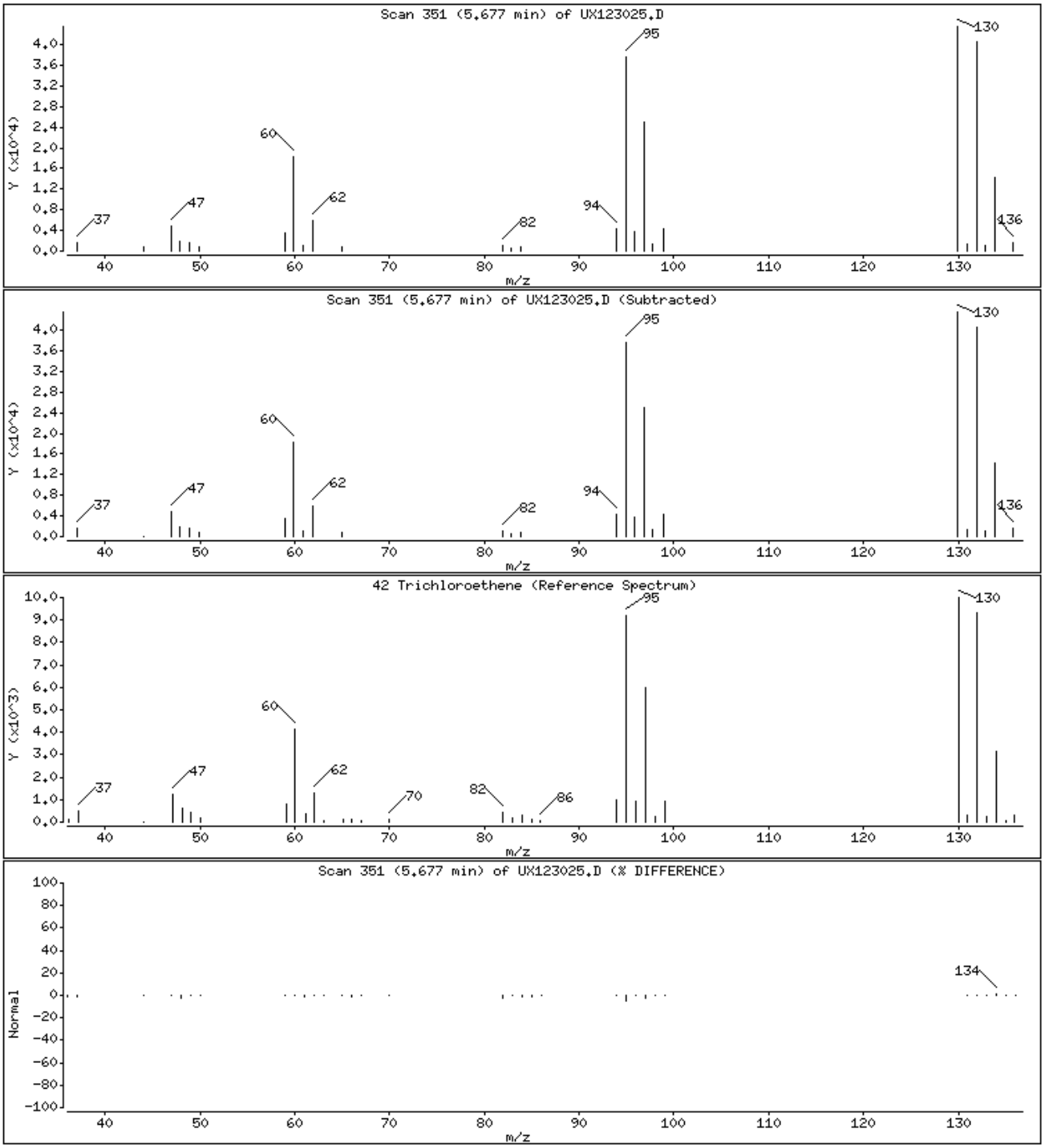
Client ID: OW6 Instrument: a3ux12.i

Sample Info: L4JEC1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

42 Trichloroethene Concentration: 8.609 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123025.D

Date : 01-AUG-2010 21:24

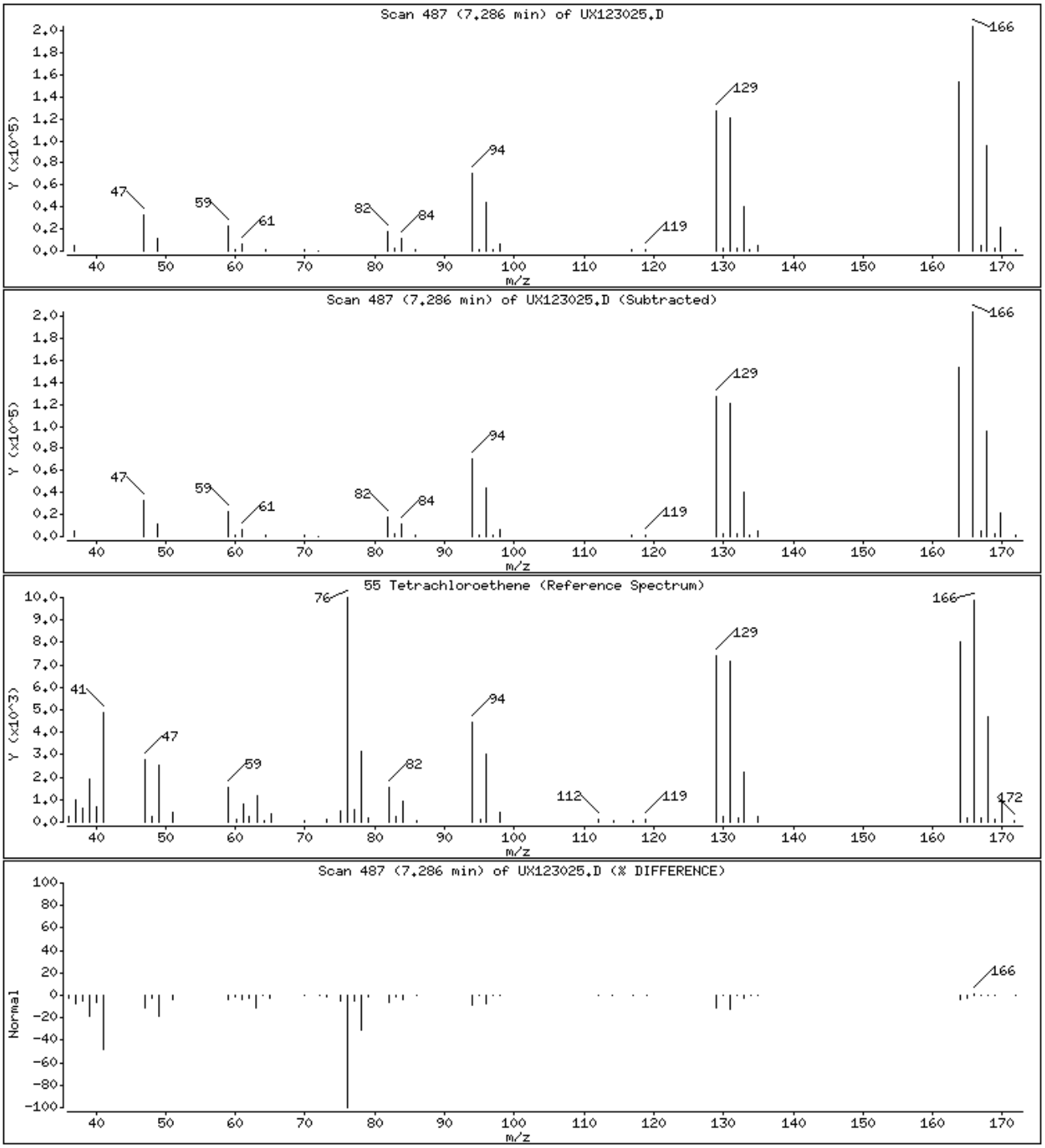
Client ID: OW6 Instrument: a3ux12.i

Sample Info: L4JEC1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

55 Tetrachloroethene Concentration: 41.836 ug/L



Cardinal Resources

Client Sample ID: OW2

GC/MS Volatiles

Lot-Sample #...: A0G220446-007 **Work Order #...:** L4JED1AJ **Matrix.....:** WG
Date Sampled...: 07/21/10 13:00 **Date Received..:** 07/22/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**39**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**12**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	**77**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW2

GC/MS Volatiles

Lot-Sample #...: A0G220446-007 **Work Order #...:** L4JED1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D
Report Date: 02-Aug-2010 15:20

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D
Lab Smp Id: L4JED1AJ Client Smp ID: OW2
Inj Date : 01-AUG-2010 21:49
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JED1AJ,5ML/5ML
Misc Info : T00801A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Meth Date : 01-Aug-2010 13:13 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.368	5.368	(1.000)	962554	100.000	
* 2	Chlorobenzene-d5	117	8.043	8.043	(1.000)	770466	100.000	
* 3	1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	409089	100.000	
$ 4	Dibromofluoromethane	113	4.800	4.800	(0.894)	222751	110.115	22.023
$ 5	1,2-Dichloroethane-d4	65	5.096	5.084	(0.949)	260035	99.7526	19.950
$ 6	Toluene-d8	98	6.729	6.729	(0.837)	844090	99.9895	19.998
$ 7	Bromofluorobenzene	95	9.143	9.143	(1.137)	302633	85.8770	17.175
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	1.818	1.819	(0.339)	2592	0.81030	0.1620
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	3.002	3.002	(0.559)	10611	6.91118	1.382
17	1,1-Dichloroethene	61	Compound Not Detected.					
18	Freon-113	101	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D
Report Date: 02-Aug-2010 15:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	Compound Not Detected.					
25	trans-1,2-Dichloroethene	61	3.593	3.593	(0.669)	5456	1.91098	0.3822
26	Hexane	57	Compound Not Detected.					
27	Vinyl acetate	43	Compound Not Detected.					
152	Vinyl acetate - 86	86	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
29	tert-Butyl Alcohol	59	Compound Not Detected.					
30	2-Butanone	43	Compound Not Detected.					
M 31	1,2-Dichloroethene (total)	61				582113	192.775	38.555
32	cis-1,2-dichloroethene	61	4.422	4.410	(0.824)	576657	190.864	38.173
33	2,2-Dichloropropane	77	Compound Not Detected.					
34	Bromochloromethane	128	Compound Not Detected.					
35	Chloroform	83	Compound Not Detected.					
36	Tetrahydrofuran	42	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	1,1-Dichloropropene	75	Compound Not Detected.					
39	Carbon Tetrachloride	117	Compound Not Detected.					
40	1,2-Dichloroethane	62	Compound Not Detected.					
41	Benzene	78	Compound Not Detected.					
42	Trichloroethene	130	5.676	5.676	(1.057)	136147	61.7787	12.356
43	1,2-Dichloropropane	63	Compound Not Detected.					
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48	cis-1,3-Dichloropropene	75	Compound Not Detected.					
49	4-Methyl-2-pentanone	43	Compound Not Detected.					
50	Toluene	91	Compound Not Detected.					
51	trans-1,3-Dichloropropene	75	Compound Not Detected.					
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	Compound Not Detected.					
54	1,3-Dichloropropane	76	Compound Not Detected.					
55	Tetrachloroethene	164	7.285	7.285	(0.906)	586463	386.813	77.363
56	2-Hexanone	43	Compound Not Detected.					
57	Dibromochloromethane	129	Compound Not Detected.					
58	1,2-Dibromoethane	107	Compound Not Detected.					
59	Chlorobenzene	112	Compound Not Detected.					
60	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
61	Ethylbenzene	91	Compound Not Detected.					
62	m + p-Xylene	91	Compound Not Detected.					
M 63	Xylenes (total)	91	Compound Not Detected.					
64	Xylene-o	91	Compound Not Detected.					
65	Styrene	104	Compound Not Detected.					
66	Bromoform	173	Compound Not Detected.					
67	Isopropylbenzene	105	Compound Not Detected.					
68	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
69	1,4-Dichloro-2-butene	53	Compound Not Detected.					
70	1,2,3-Trichloropropane	110	Compound Not Detected.					
71	Bromobenzene	156	Compound Not Detected.					
72	n-Propylbenzene	91	Compound Not Detected.					
73	2-Chlorotoluene	126	Compound Not Detected.					
74	1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D
Report Date: 02-Aug-2010 15:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D
Report Date: 02-Aug-2010 15:20

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

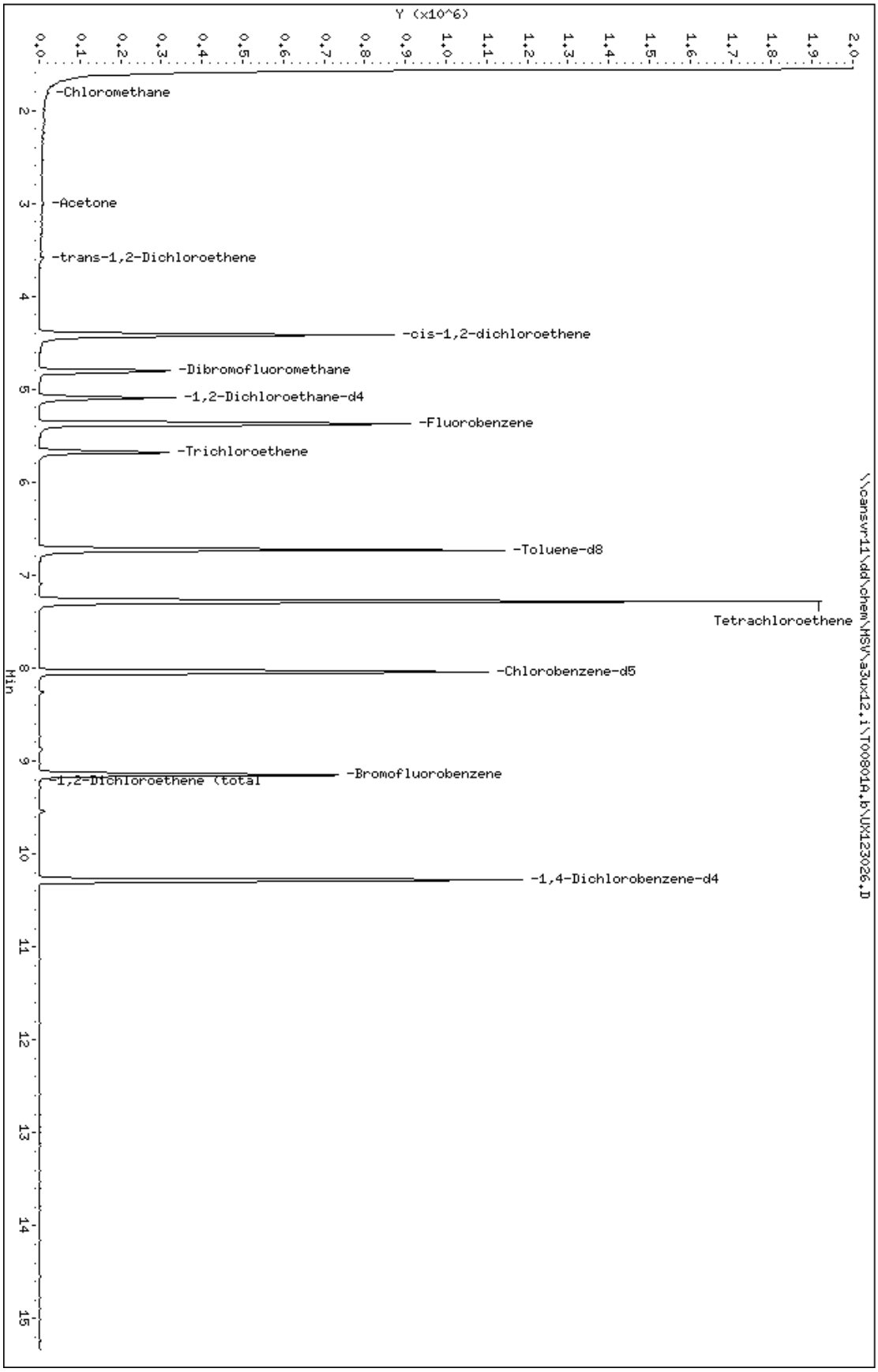
Instrument ID: a3ux12.i
Lab File ID: UX123026.D
Lab Smp Id: L4JED1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Misc Info: T00801A,8260MIUX12,,1903

Calibration Date: 01-AUG-2010
Calibration Time: 12:57
Client Smp ID: OW2
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1100933	550467	2201866	962554	-12.57
2 Chlorobenzene-d5	893197	446599	1786394	770466	-13.74
3 1,4-Dichlorobenze	604126	302063	1208252	409089	-32.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T000801A.b\UX123026.D
Date : 01-AUG-2010 21:49
Client ID: DW2
Sample Info: L4JED1AJ,5ML/5ML
Purge Volume: 5.0
Column Phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
Y (x10^6)
-Chloromethane
-Acetone
-trans-1,2-Dichloroethene
-cis-1,2-dichloroethene
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Trichloroethene
-Toluene-d8
Tetrachloroethene
-Chlorobenzene-d5
-Bromofluorobenzene
-1,2-Dichloroethene (total
-1,4-Dichlorobenzene-d4
Min
\\cansvr11\dd\chem\MSV\a3ux12.i\T000801A.b\UX123026.D

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D

Date : 01-AUG-2010 21:49

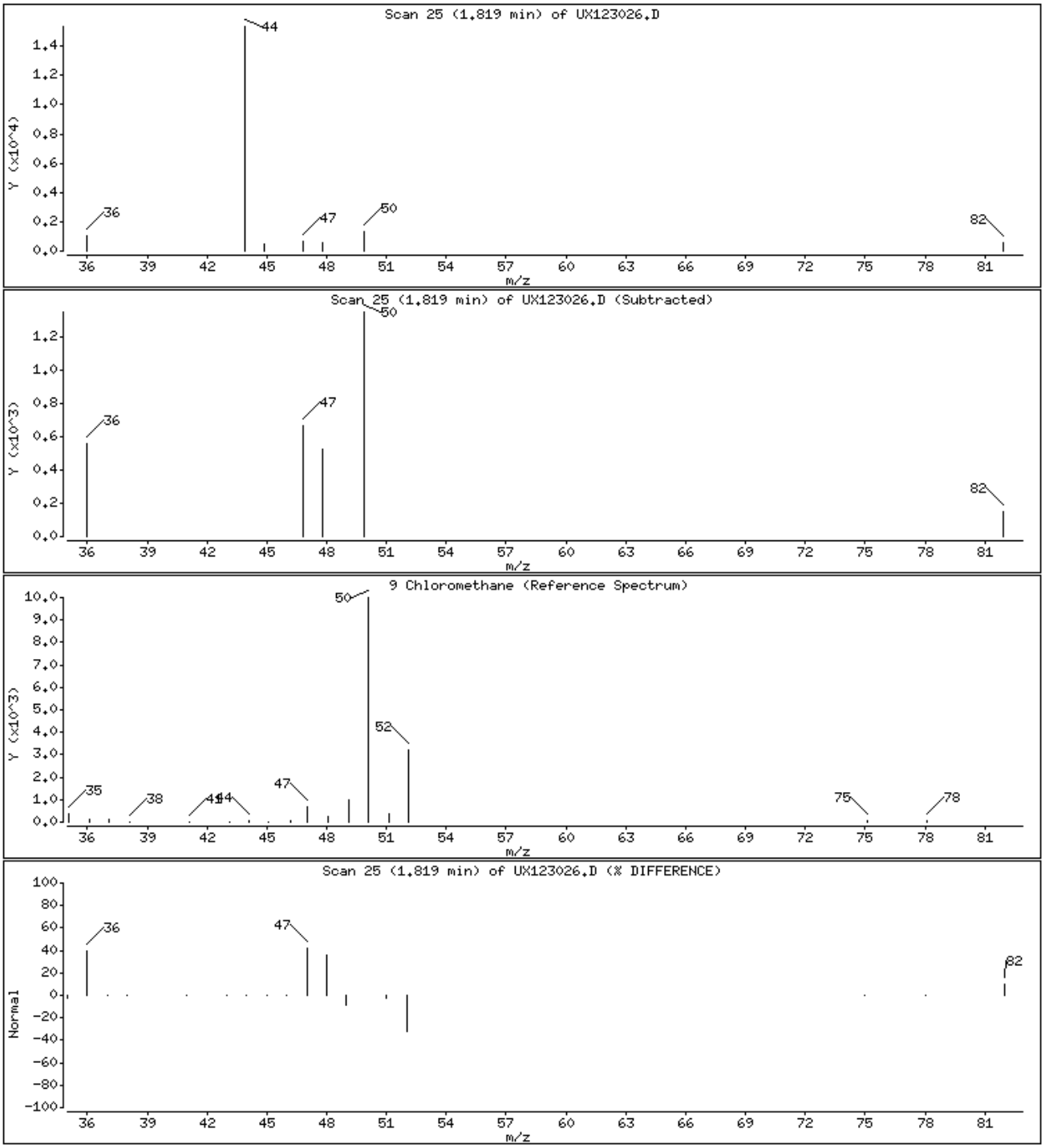
Client ID: OW2 Instrument: a3ux12.i

Sample Info: L4JED1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 0.1620 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D

Date : 01-AUG-2010 21:49

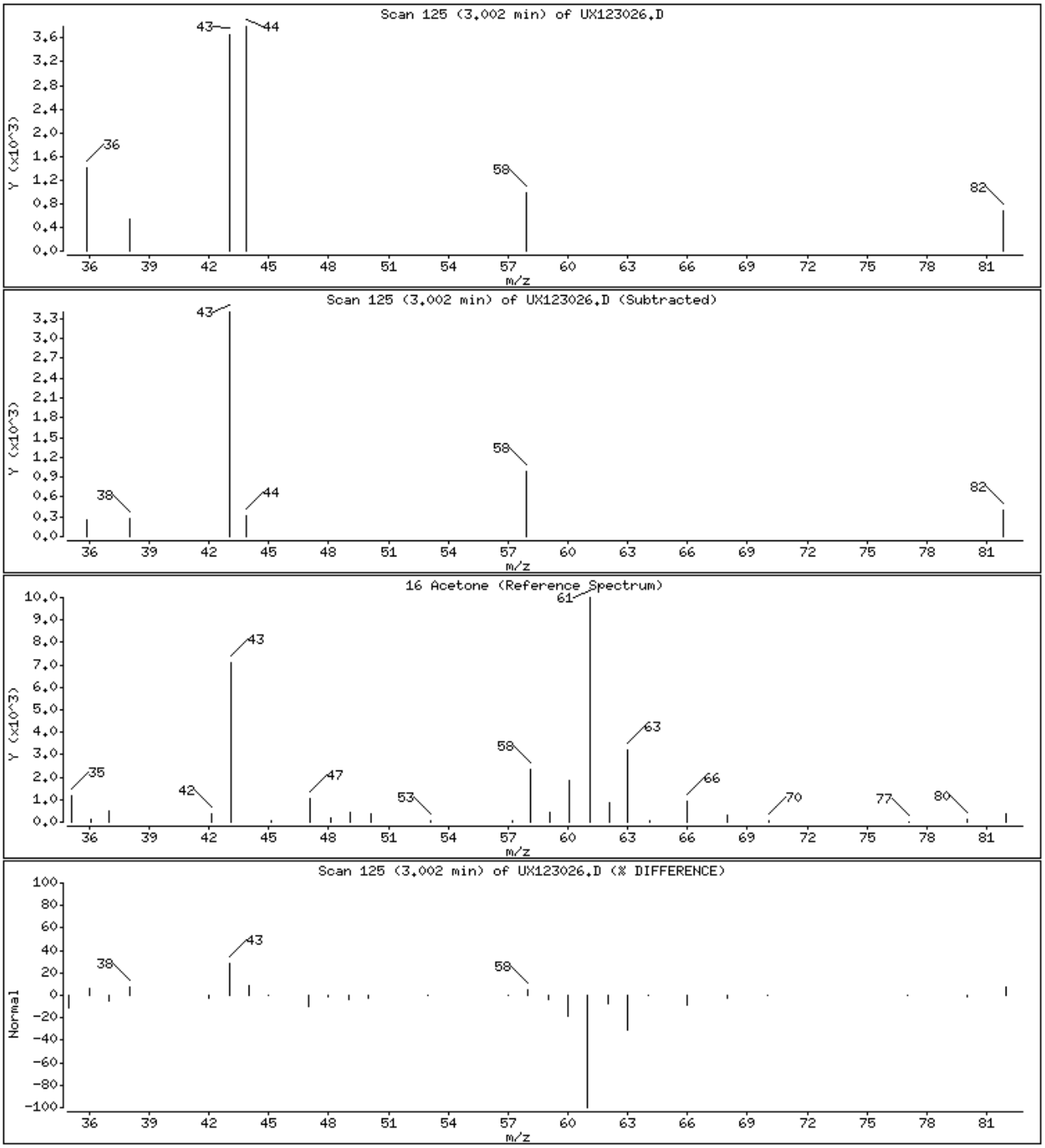
Client ID: OW2 Instrument: a3ux12.i

Sample Info: L4JED1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 1.382 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D

Date : 01-AUG-2010 21:49

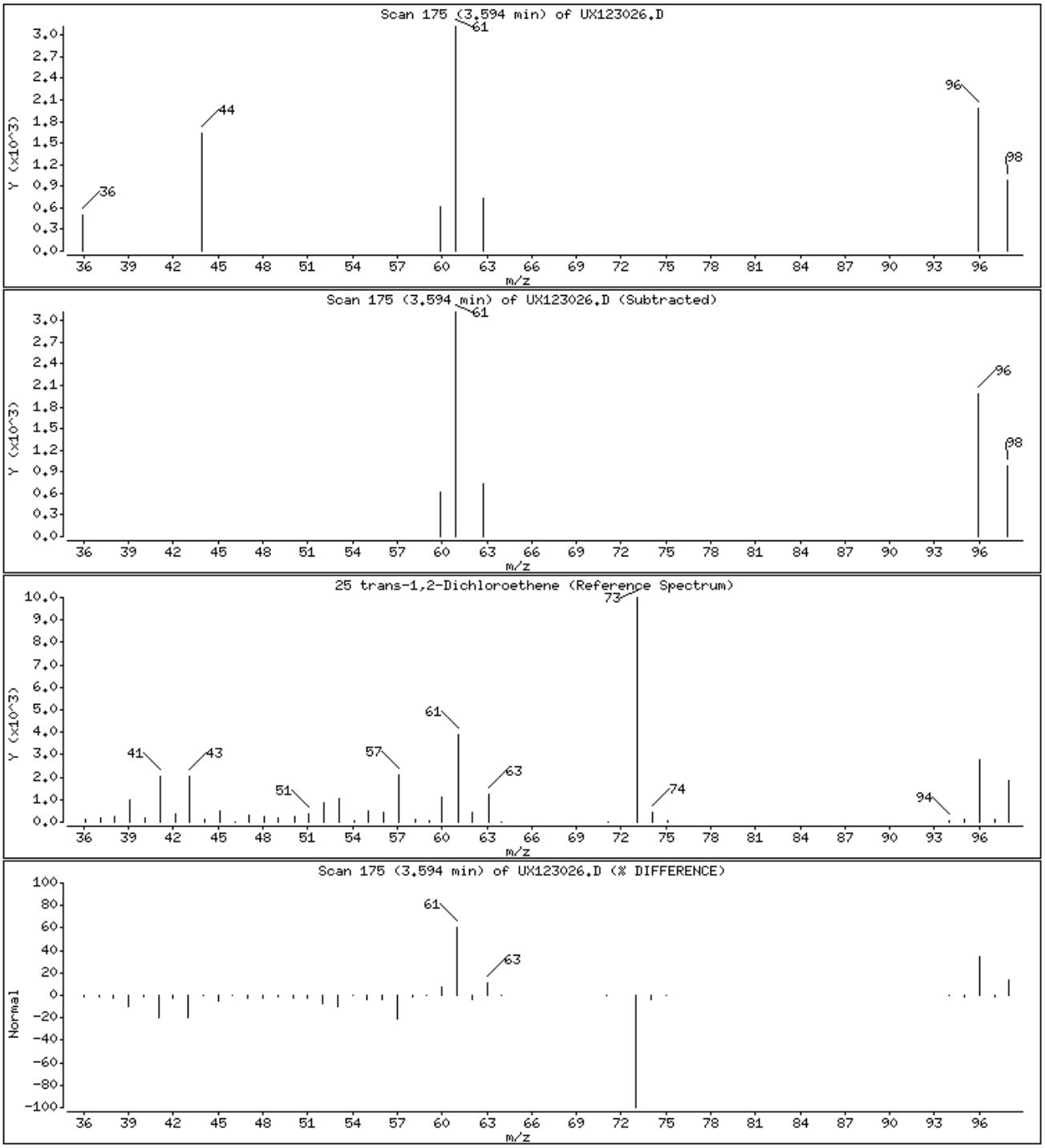
Client ID: OW2 Instrument: a3ux12.i

Sample Info: L4JED1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

25 trans-1,2-Dichloroethene Concentration: 0.3822 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D

Date : 01-AUG-2010 21:49

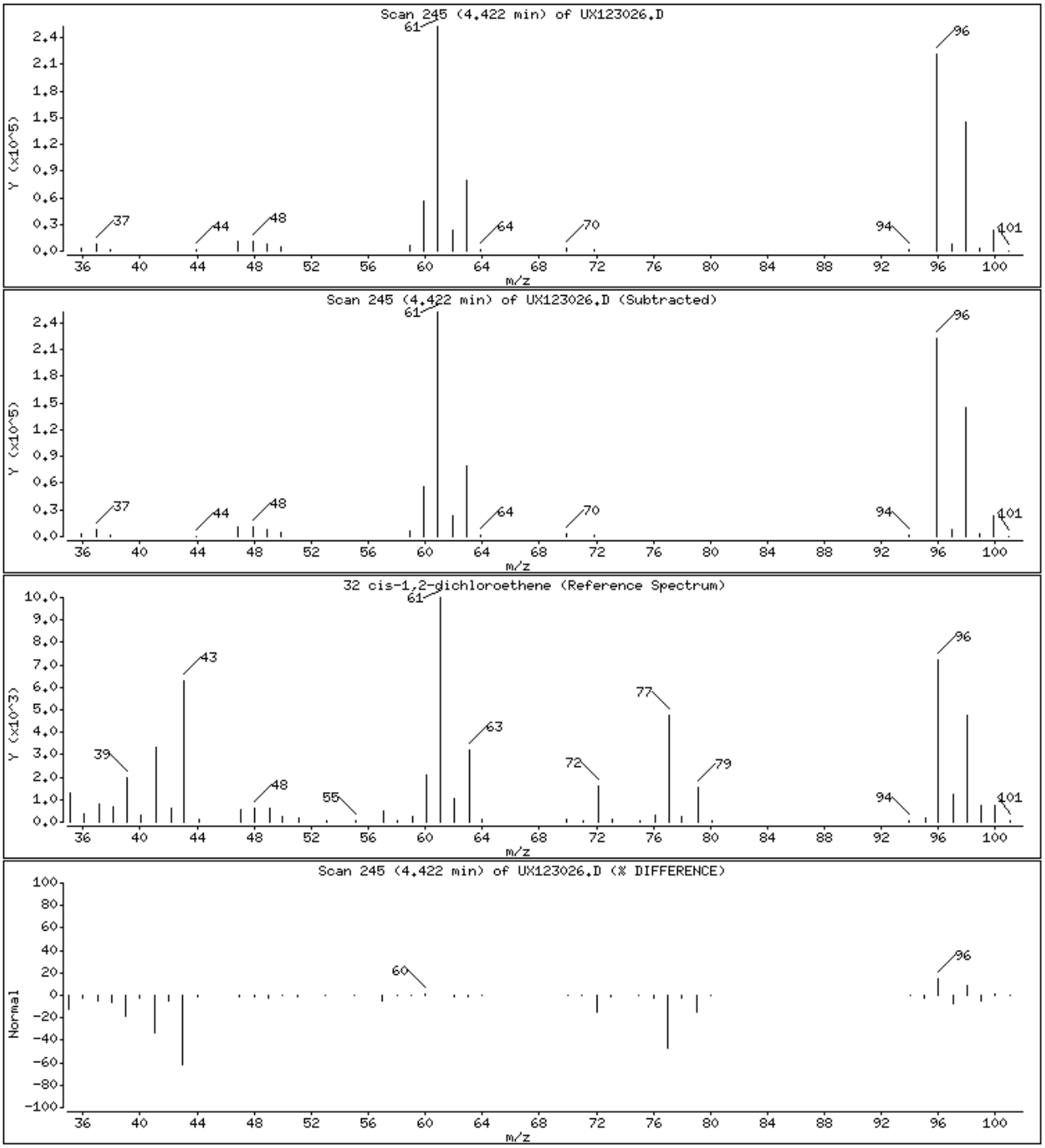
Client ID: OW2 Instrument: a3ux12.i

Sample Info: L4JED1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 38.173 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D

Date : 01-AUG-2010 21:49

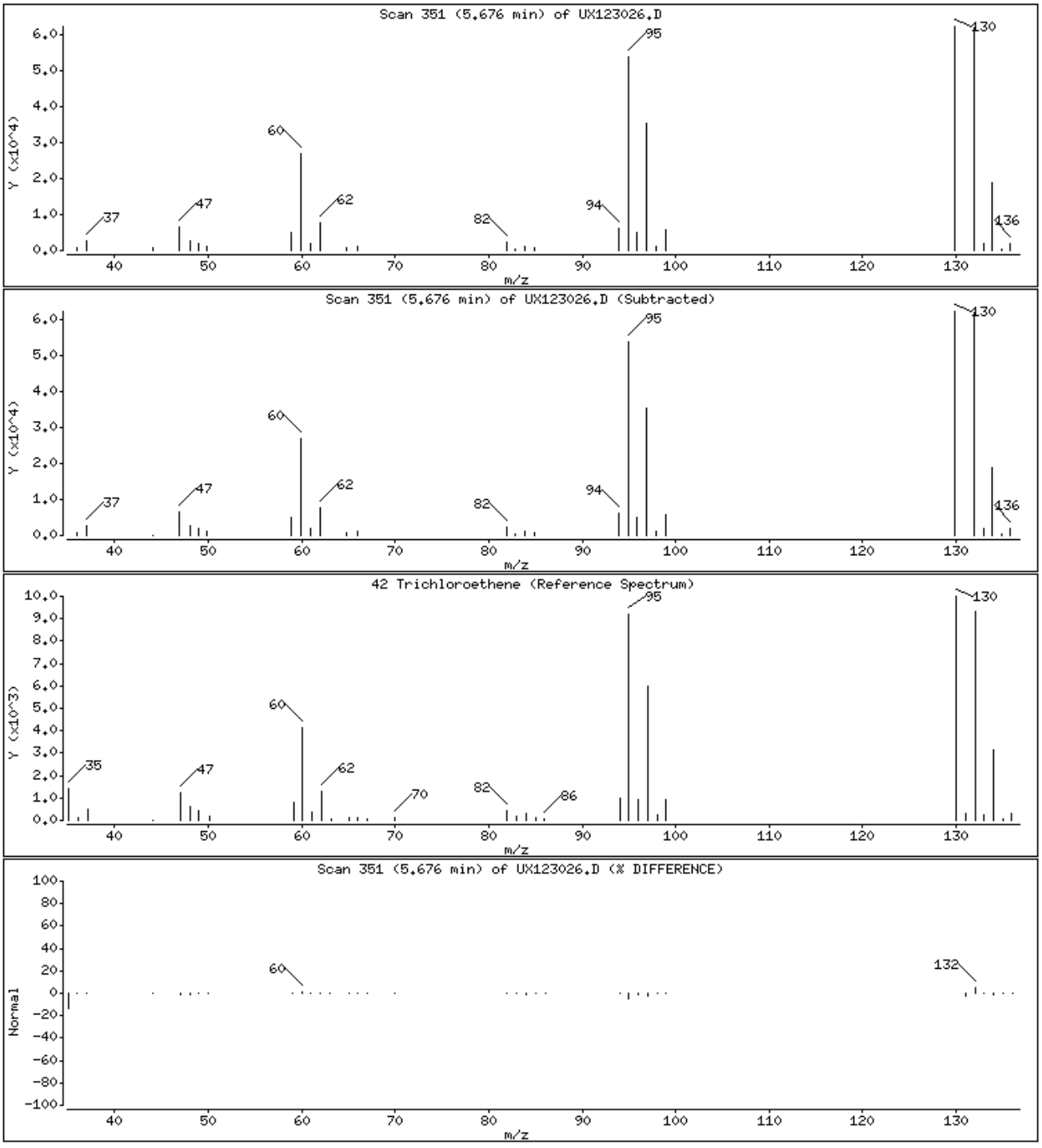
Client ID: OW2 Instrument: a3ux12.i

Sample Info: L4JED1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

42 Trichloroethene Concentration: 12.356 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123026.D

Date : 01-AUG-2010 21:49

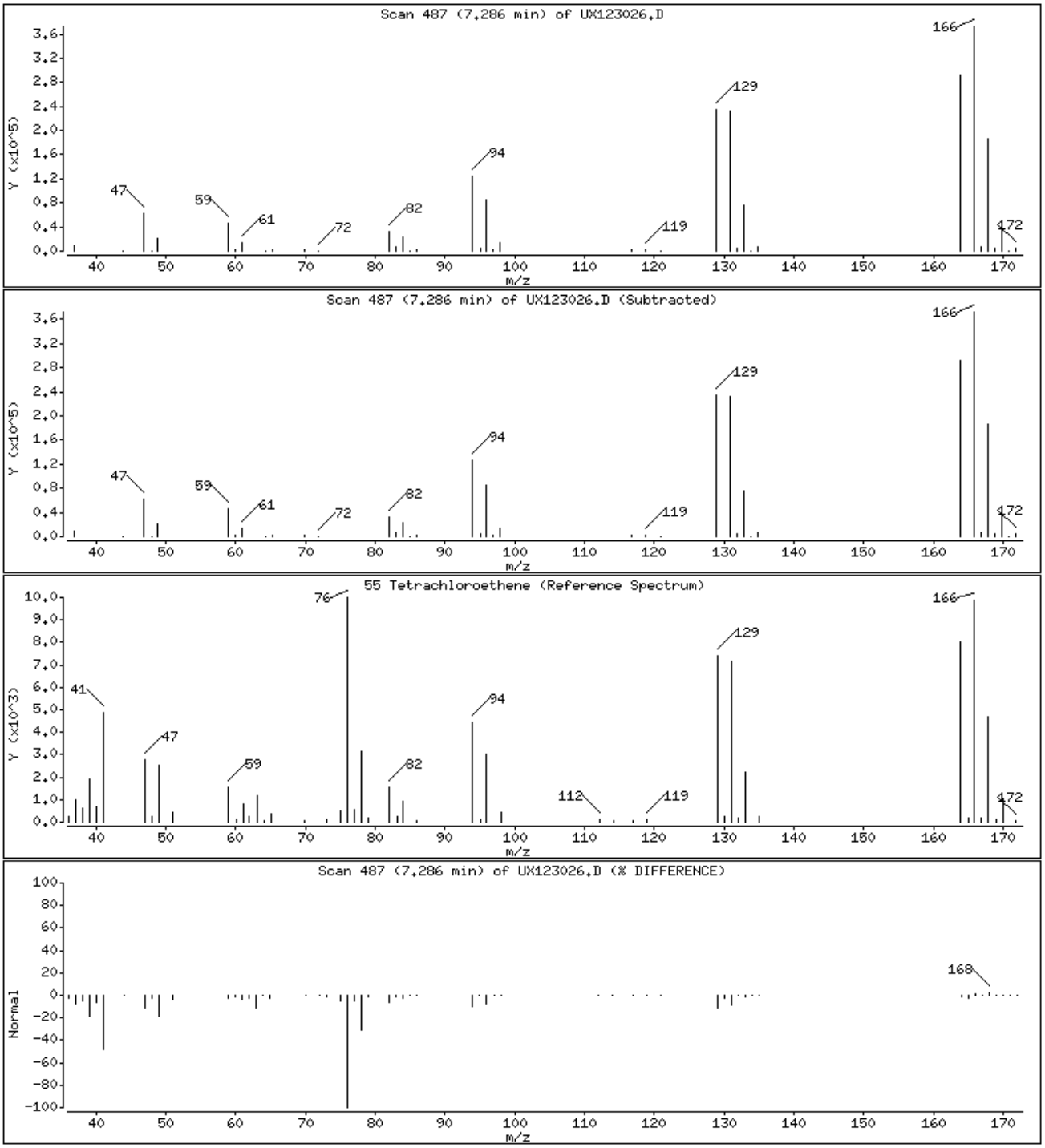
Client ID: OW2 Instrument: a3ux12.i

Sample Info: L4JED1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

55 Tetrachloroethene Concentration: 77.363 ug/L



Cardinal Resources

Client Sample ID: MW1

GC/MS Volatiles

Lot-Sample #...: A0G220446-008 **Work Order #...:** L4JEG1AJ **Matrix.....:** WG
Date Sampled...: 07/21/10 14:10 **Date Received..:** 07/22/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123027.D
Report Date: 02-Aug-2010 15:20

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123027.D
Lab Smp Id: L4JEG1AJ Client Smp ID: MW1
Inj Date : 01-AUG-2010 22:13
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JEG1AJ,5ML/5ML
Misc Info : T00801A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Meth Date : 01-Aug-2010 13:13 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.368	5.368	(1.000)	958813	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	769398	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	391258	100.000	
$ 4 Dibromofluoromethane	113	4.800	4.800	(0.894)	225075	111.698	22.340
$ 5 1,2-Dichloroethane-d4	65	5.096	5.084	(0.949)	257667	99.2298	19.846
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	844287	100.152	20.030
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	302249	85.8871	17.177
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					
17 1,1-Dichloroethene	61	Compound Not Detected.					
18 Freon-113	101	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123027.D
Report Date: 02-Aug-2010 15:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	61	Compound Not Detected.					
	26 Hexane	57	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	61	Compound Not Detected.					
	32 cis-1,2-dichloroethene	61	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	91	Compound Not Detected.					
	62 m + p-Xylene	91	Compound Not Detected.					
M	63 Xylenes (total)	91	Compound Not Detected.					
	64 Xylene-o	91	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	91	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123027.D
Report Date: 02-Aug-2010 15:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123027.D
Report Date: 02-Aug-2010 15:20

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123027.D
Lab Smp Id: L4JEG1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Misc Info: T00801A,8260MIUX12,,1903

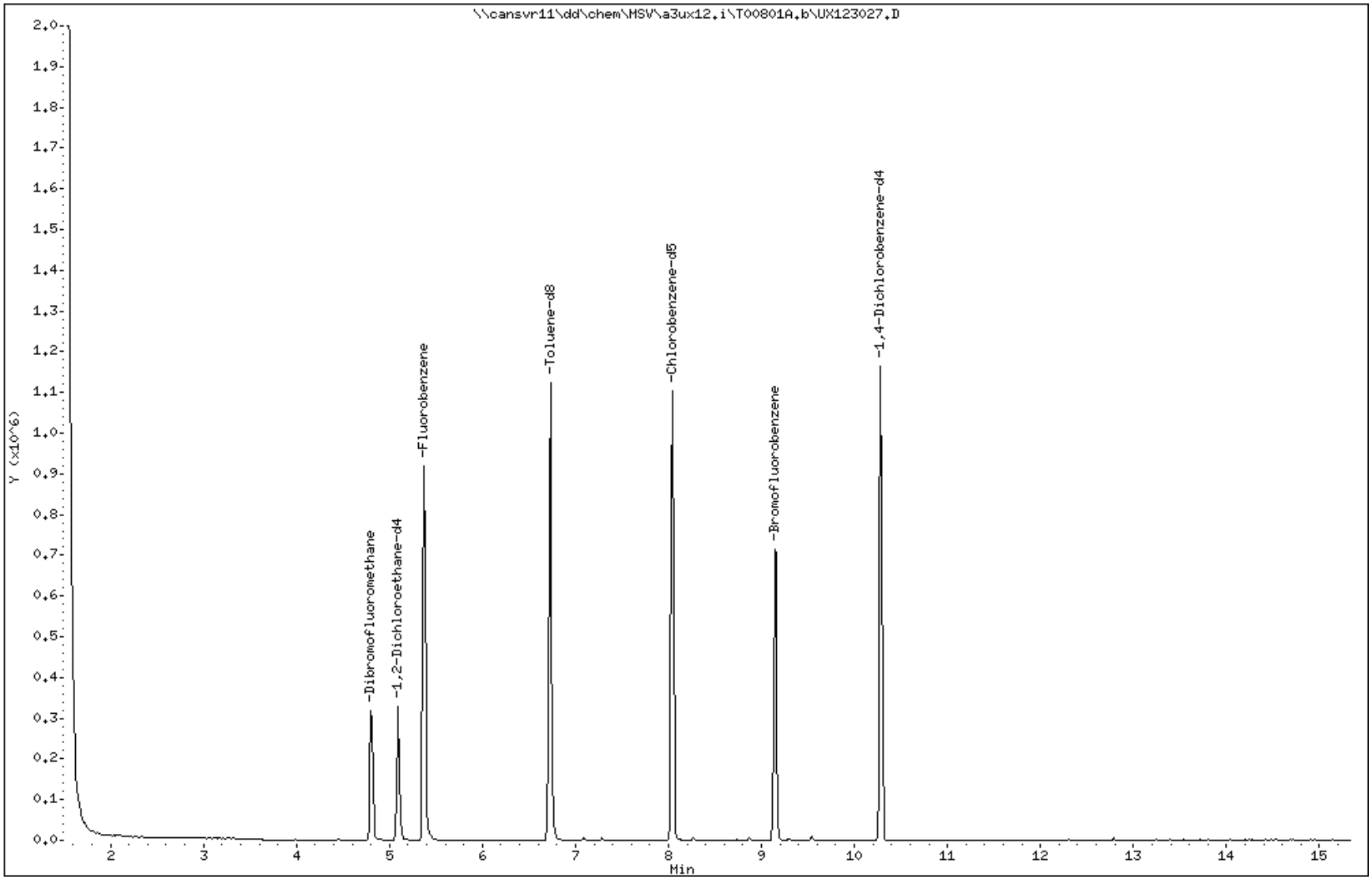
Calibration Date: 01-AUG-2010
Calibration Time: 12:57
Client Smp ID: MW1
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1100933	550467	2201866	958813	-12.91
2 Chlorobenzene-d5	893197	446599	1786394	769398	-13.86
3 1,4-Dichlorobenze	604126	302063	1208252	391258	-35.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123027.D
Date : 01-AUG-2010 22:13
Client ID: MW1 Instrument: a3ux12.i
Sample Info: L4JEG1AJ,5ML/5ML
Purge Volume: 5.0 Operator: 1903
Column phase: DB624 Column diameter: 0.18



Cardinal Resources

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A0G220446-009 **Work Order #...:** L4JEJ1AA **Matrix.....:** WQ
Date Sampled...: 07/21/10 **Date Received..:** 07/22/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	99	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123028.D
Report Date: 02-Aug-2010 15:21

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123028.D
Lab Smp Id: L4JEJ1AA Client Smp ID: TRIP BLANK
Inj Date : 01-AUG-2010 22:37
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JEJ1AA,5ML/5ML
Misc Info : T00801A,8260MIUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Meth Date : 01-Aug-2010 13:13 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.368	5.368	(1.000)	947371	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	765640	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	392914	100.000	
$ 4 Dibromofluoromethane	113	4.800	4.800	(0.894)	222249	111.627	22.325
$ 5 1,2-Dichloroethane-d4	65	5.096	5.084	(0.949)	250607	97.6766	19.535
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	834022	99.4196	19.884
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	303210	86.5831	17.317
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	3.002	3.002	(0.559)	6156	2.58533	0.5171
17 1,1-Dichloroethene	61	Compound Not Detected.					
18 Freon-113	101	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123028.D
Report Date: 02-Aug-2010 15:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	61	Compound Not Detected.					
	26 Hexane	57	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	61	Compound Not Detected.					
	32 cis-1,2-dichloroethene	61	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	91	Compound Not Detected.					
	62 m + p-Xylene	91	Compound Not Detected.					
M	63 Xylenes (total)	91	Compound Not Detected.					
	64 Xylene-o	91	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	91	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123028.D
Report Date: 02-Aug-2010 15:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123028.D
Report Date: 02-Aug-2010 15:21

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123028.D
Lab Smp Id: L4JEJ1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Misc Info: T00801A,8260MIUX12,,1903

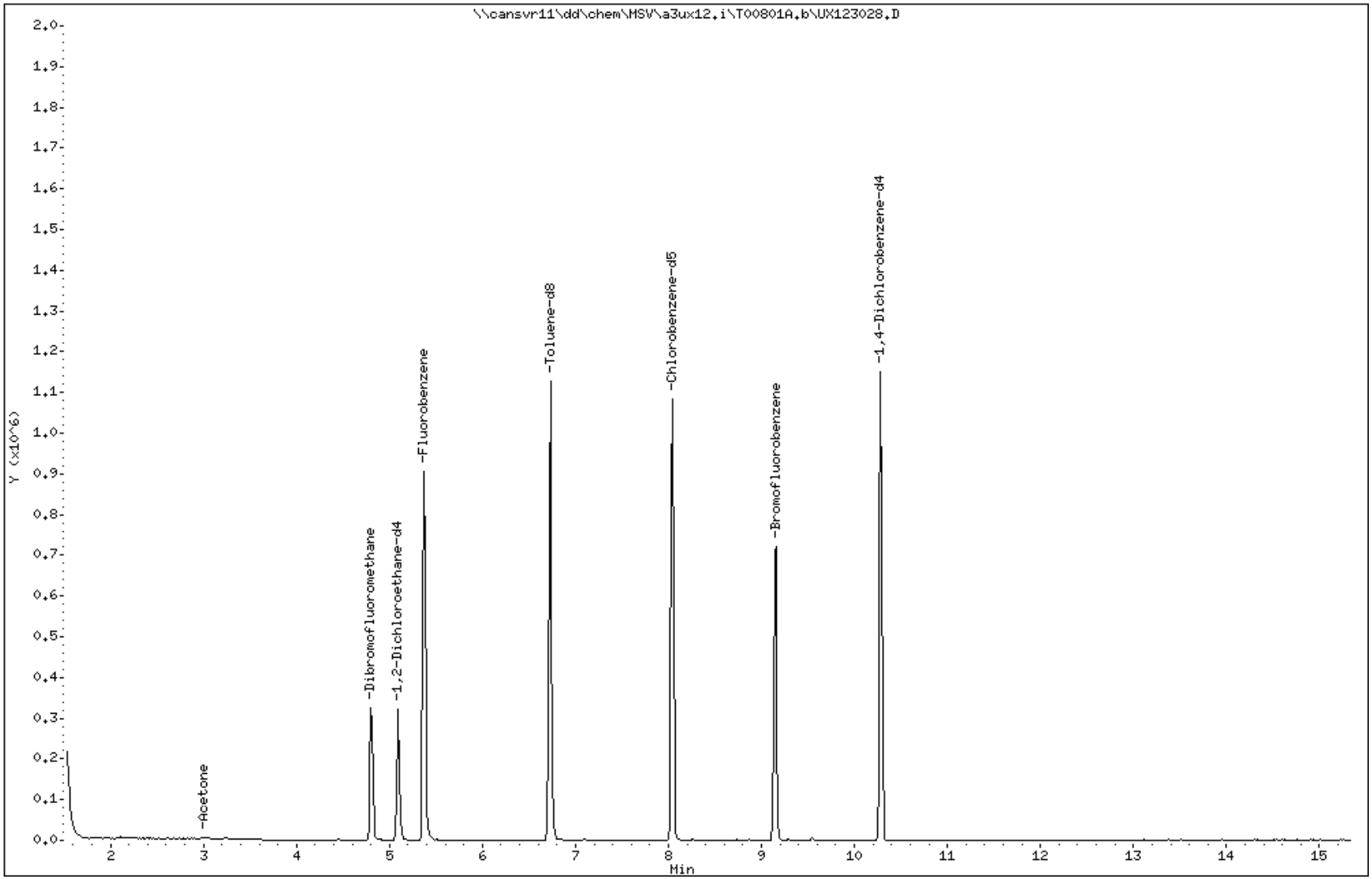
Calibration Date: 01-AUG-2010
Calibration Time: 12:57
Client Smp ID: TRIP BLANK
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1100933	550467	2201866	947371	-13.95
2 Chlorobenzene-d5	893197	446599	1786394	765640	-14.28
3 1,4-Dichlorobenze	604126	302063	1208252	392914	-34.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123028.D
Date : 01-AUG-2010 22:37
Client ID: TRIP BLANK
Instrument: a3ux12.i
Sample Info: L4JEJ1AA,5ML/5ML
Purge Volume: 5.0
Operator: 1903
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123028.D

Date : 01-AUG-2010 22:37

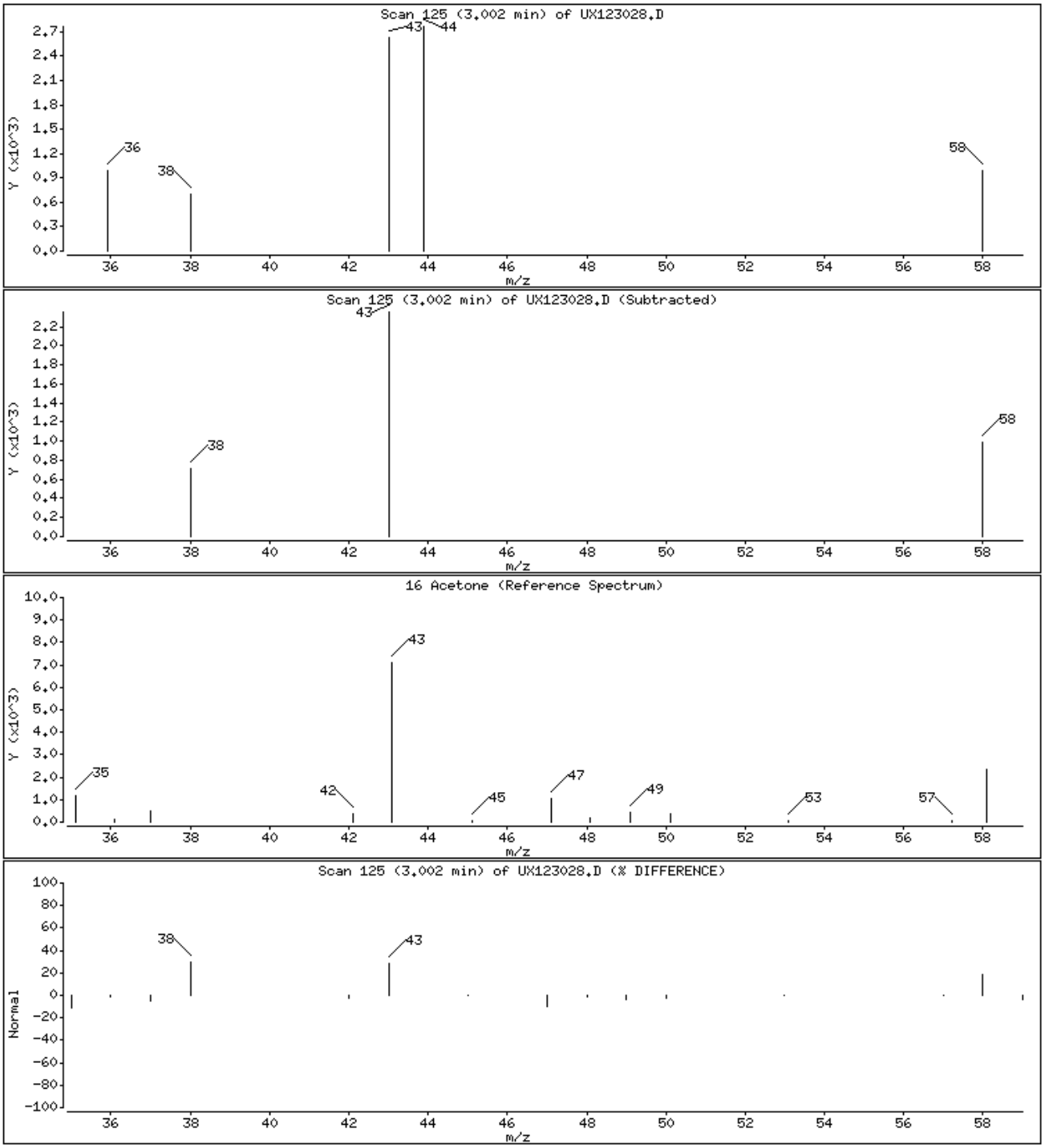
Client ID: TRIP BLANK | Instrument: a3ux12.i

Sample Info: L4JEJ1AA,5ML/5ML

Purge Volume: 5.0 | Operator: 1903

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 0.5171 ug/L



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Start Cal Date: 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 2.50000		
06-NOV-2009 02:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128924.D
11-NOV-2009 23:45	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129067.D
Cal Level: 2 , Cal Amount: 5.00000		
06-NOV-2009 01:52	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128923.D
11-NOV-2009 23:20	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Cal Level: 3 , Cal Amount: 25.00000		
06-NOV-2009 01:27	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128922.D
11-NOV-2009 22:55	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129065.D
Cal Level: 5 , Cal Amount: 100.00000		
06-NOV-2009 01:02	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128921.D
11-NOV-2009 22:30	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Cal Level: 6 , Cal Amount: 250.00000		
06-NOV-2009 00:40	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128920.D
11-NOV-2009 22:07	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129063.D
Cal Level: 7 , Cal Amount: 500.00000		
06-NOV-2009 00:14	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128919.D
11-NOV-2009 21:45	2-8260	

\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129062.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

11-NOV-2009 22:30	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
11-NOV-2009 22:30	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
11-NOV-2009 20:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129059.D
11-NOV-2009 20:08	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129058.D

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☒ 8260A ☒ 8260B ☐ 624

Analysis Date: 11-11-9 **Run batch ID:** T9 1111

Curve ID: T9 1111 **(curve ID must include instrument designation and date reference)**

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented 11-12-9	~~NA~~ YES		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

Reviewed by Analyst/ Level I: _____ Date: 11-12-9

Reviewed by Peer/Sup/ Level II: Thomas E. Stalter Date: 11/22/09

By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

Reviewed by Peer/Sup: Thomas E. Stalter Date: 11/22/09

Report Date : 12-Nov-2009 17:38

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Last Edit : 12-Nov-2009 15:15 laveyt
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128924.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128923.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128922.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128921.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128920.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128919.D

	Compound	2.500 Level 1	5.000 Level 2	25.000 Level 3	100.000 Level 5	250.000 Level 6	500.000 Level 7	___ RRF	% RSD	
148	1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8	Dichlorodifluoromethane	+++++	0.17133	0.19161	0.22987	0.22362	0.21121	0.20553	11.706	
9	Chloromethane	0.35518	0.30962	0.35519	0.34514	0.32656	0.30227	0.33233	6.942	
10	Vinyl Chloride	0.31902	0.32306	0.34572	0.36155	0.36011	0.33618	0.34094	5.309	
11	Bromomethane	0.22284	0.19886	0.24190	0.24259	0.33399	0.31438	0.25909	20.551	
12	Chloroethane	0.19894	0.24759	0.26080	0.26125	0.32525	0.37493	0.27813	22.385	
13	Trichlorofluoromethane	+++++	0.26192	0.37778	0.41689	0.44695	0.47276	0.39526	20.875	
14	Dichlorofluoromethane	+++++	1.16966	0.96977	0.92734	1.02139	1.10987	1.03961	9.579	
15	Acrolein	0.03067	0.03306	0.03399	0.03386	0.03827	0.03867	0.03475	8.981	
16	Acetone	+++++	0.33298	0.11147	0.09736	0.10414	0.10559	0.15031	68.022	<-
17	1,1-Dichloroethene	0.34053	0.35358	0.37784	0.39947	0.45408	0.47203	0.39958	13.381	
18	Freon-113	+++++	0.15159	0.18750	0.21036	0.24095	0.24912	0.20790	19.215	
19	Iodomethane	0.39941	0.40893	0.43431	0.45574	0.49338	0.49377	0.44759	9.096	
20	Carbon Disulfide	0.65959	0.67033	0.71435	0.76768	0.87387	0.89222	0.76301	13.192	
21	Methylene Chloride	+++++	0.46146	0.33215	0.31710	0.32637	0.32288	0.35199	17.454	
22	Acetonitrile	+++++	0.05982	0.04884	0.04379	0.04687	0.04730	0.04932	12.465	
23	Acrylonitrile	0.11356	0.10301	0.11096	0.11406	0.12142	0.12089	0.11398	5.986	
24	Methyl tert-butyl ether	0.72001	0.69661	0.71775	0.77421	0.83925	0.83380	0.76361	8.126	
25	trans-1,2-Dichloroethene	0.25783	0.26678	0.28127	0.29940	0.33711	0.33730	0.29662	11.613	
26	Hexane	+++++	0.11502	0.12521	0.13368	0.15254	0.15239	0.13577	12.238	
27	Vinyl acetate	+++++	0.21902	0.25086	0.25617	0.27893	0.27583	0.25616	9.387	
152	Vinyl acetate - 86	+++++	+++++	0.02955	0.03082	0.03351	0.03468	0.03214	7.367	<-
28	1,1-Dichloroethane	0.33877	0.33894	0.34310	0.35417	0.38216	0.38008	0.35620	5.645	
29	tert-Butyl Alcohol	0.03405	0.03000	0.03087	0.03114	0.03369	0.03353	0.03221	5.403	
149	t-Butyl ethyl ether	0.70387	0.56304	0.69131	0.69384	0.73446	0.74854	0.68918	9.565	
30	2-Butanone	+++++	0.39687	0.13780	0.11913	0.12349	0.11939	0.17934	67.940	<-
M 31	1,2-Dichloroethene (total)	0.27564	0.28295	0.29616	0.30636	0.33455	0.33588	0.30526	8.358	
32	cis-1,2-dichloroethene	0.29341	0.29909	0.31104	0.31332	0.33200	0.33446	0.31388	5.327	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Last Edit : 12-Nov-2009 15:15 laveyt
Curve Type : Average

	Compound	2.500 Level 1	5.000 Level 2	25.000 Level 3	100.000 Level 5	250.000 Level 6	500.000 Level 7	RRF	% RSD	
	33 2,2-Dichloropropane	0.10583	0.14141	0.16995	0.18265	0.19276	0.19157	0.16403	20.879	
	34 Bromochloromethane	0.09658	0.09179	0.10223	0.11265	0.12036	0.11830	0.10698	11.067	
	35 Chloroform	0.34053	0.34208	0.35860	0.36934	0.39616	0.39484	0.36693	6.702	
	36 Tetrahydrofuran	+++++	0.28788	0.09366	0.07697	0.07859	0.07572	0.12256	75.632	<-
	37 1,1,1-Trichloroethane	0.20011	0.20894	0.23874	0.25817	0.28824	0.28416	0.24639	15.098	
	38 1,1-Dichloropropene	0.20958	0.20820	0.25648	0.27003	0.29761	0.29679	0.25645	15.628	
	39 Carbon Tetrachloride	0.09929	0.12623	0.16084	0.19227	0.22119	0.22383	0.17061	29.901	
	40 1,2-Dichloroethane	0.31252	0.31756	0.30489	0.30400	0.33005	0.32577	0.31580	3.394	
	41 Benzene	0.92874	0.88686	0.88769	0.90494	0.98929	1.00382	0.93356	5.498	
	150 t-Amyl methyl ether	0.68072	0.69843	0.67151	0.69014	0.73615	0.78005	0.70950	5.796	
	42 Trichloroethene	0.20444	0.22781	0.22016	0.22747	0.24874	0.24509	0.22895	7.133	
	43 1,2-Dichloropropane	0.21323	0.20612	0.21078	0.21183	0.23047	0.22937	0.21697	4.756	
	44 1,4-Dioxane	+++++	0.00159	0.00329	0.00320	0.00387	0.00382	0.00315	29.358	<-
	45 Dibromomethane	0.11052	0.13711	0.13218	0.13648	0.14567	0.14530	0.13454	9.591	
	46 Bromodichloromethane	0.19862	0.18881	0.21318	0.24274	0.27416	0.27975	0.23287	16.633	
	47 2-Chloroethyl vinyl ether	+++++	0.12214	0.15214	0.15810	0.17164	0.17564	0.15593	13.590	
	48 cis-1,3-Dichloropropene	0.20358	0.23470	0.28441	0.32330	0.36822	0.37546	0.29828	23.552	
	49 4-Methyl-2-pentanone	0.19671	0.20666	0.21579	0.22827	0.24655	0.24682	0.22347	9.298	
	50 Toluene	1.11891	1.12358	1.19208	1.23259	1.34415	1.33347	1.22413	8.057	
	51 trans-1,3-Dichloropropene	0.27170	0.26148	0.31389	0.37189	0.43379	0.43810	0.34848	22.419	
	52 Ethyl Methacrylate	0.31231	0.29024	0.34004	0.39198	0.44568	0.44510	0.37089	18.059	
	53 1,1,2-Trichloroethane	0.25509	0.23967	0.26177	0.26330	0.28267	0.27389	0.26273	5.680	
	54 1,3-Dichloropropane	0.45541	0.47896	0.47243	0.49163	0.52935	0.51698	0.49079	5.692	
	55 Tetrachloroethene	0.19515	0.18206	0.18773	0.19434	0.21304	0.20837	0.19678	6.039	
	56 2-Hexanone	0.17271	0.16010	0.18825	0.19713	0.21933	0.21285	0.19173	11.920	
	57 Dibromochloromethane	0.10471	0.11582	0.16114	0.19549	0.24102	0.24864	0.17780	34.476	
	58 1,2-Dibromoethane	0.25459	0.26903	0.25046	0.26752	0.29572	0.28253	0.26998	6.298	
	59 Chlorobenzene	0.93215	0.84278	0.82540	0.82802	0.89683	0.89309	0.86971	5.040	
	60 1,1,1,2-Tetrachloroethane	0.20782	0.21632	0.21439	0.24122	0.28208	0.28296	0.24080	14.226	
	61 Ethylbenzene	1.22996	1.21377	1.23952	1.28534	1.45100	1.47301	1.31543	8.834	
	62 m + p-Xylene	0.98123	0.92392	0.96046	1.01056	1.16120	1.21247	1.04164	11.240	
M	63 Xylenes (total)	0.97772	0.93902	0.98447	1.03295	1.18027	1.22749	1.05699	11.219	
	64 Xylene-o	0.97065	0.96923	1.03250	1.07773	1.21839	1.25755	1.08768	11.395	
	65 Styrene	0.77794	0.71498	0.84127	0.94211	1.08501	1.12776	0.91484	18.234	
	66 Bromoform	+++++	0.04554	0.07791	0.10603	0.14417	0.15538	0.10581	43.156	<-
	67 Isopropylbenzene	0.97226	0.98333	1.00577	1.08020	1.24524	1.27145	1.09304	12.233	

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Last Edit : 12-Nov-2009 15:15 laveyt
Curve Type : Average

	Compound	2.500 Level 1	5.000 Level 2	25.000 Level 3	100.000 Level 5	250.000 Level 6	500.000 Level 7	RRF	% RSD	
68	1,1,2,2-Tetrachloroethane	0.64181	0.72674	0.69217	0.71627	0.75220	0.76505	0.71571	6.219	
69	1,4-Dichloro-2-butene	+++++	0.04438	0.06935	0.09888	0.13712	0.15225	0.10040	44.937	
70	1,2,3-Trichloropropane	0.22939	0.22427	0.22507	0.22676	0.25076	0.24291	0.23319	4.715	
71	Bromobenzene	0.67158	0.65262	0.66514	0.65443	0.70654	0.70933	0.67660	3.734	
72	n-Propylbenzene	2.00061	2.11796	2.06767	2.18657	2.42976	2.51888	2.22024	9.366	
73	2-Chlorotoluene	0.49483	0.62339	0.55087	0.54361	0.58144	0.58438	0.56309	7.787	
74	1,3,5-Trimethylbenzene	1.52938	1.46554	1.51893	1.60000	1.78848	1.84209	1.62407	9.551	
75	4-Chlorotoluene	0.65531	0.55406	0.57901	0.58582	0.63412	0.63886	0.60787	6.627	
76	tert-Butylbenzene	1.30116	1.25524	1.25307	1.30153	1.43458	1.45962	1.33420	6.769	
77	1,2,4-Trimethylbenzene	1.51332	1.59446	1.62577	1.73685	1.91435	1.99772	1.73041	11.022	
78	sec-Butylbenzene	1.42739	1.65554	1.67709	1.70855	1.94156	1.98238	1.73209	11.798	
79	4-Isopropyltoluene	1.30127	1.46853	1.43255	1.48687	1.69824	1.74213	1.52160	11.010	
80	1,3-Dichlorobenzene	1.30297	1.21771	1.12205	1.12554	1.19233	1.21182	1.19540	5.625	
81	1,4-Dichlorobenzene	1.52991	1.38848	1.22957	1.20788	1.27308	1.29517	1.32068	9.106	
151	1,2,3-Trimethylbenzene	1.84691	1.70786	1.72609	1.81230	1.98270	2.18623	1.87701	9.627	
82	n-Butylbenzene	1.19673	1.31204	1.24972	1.26101	1.42932	1.42723	1.31267	7.371	
83	1,2-Dichlorobenzene	1.30478	1.23307	1.16002	1.16017	1.22377	1.24299	1.22080	4.498	
84	1,2-Dibromo-3-chloropropane	+++++	0.09000	0.10308	0.11865	0.14328	0.14595	0.12019	20.394	
85	1,2,4-Trichlorobenzene	0.72061	0.67386	0.62412	0.62635	0.67370	0.66990	0.66476	5.397	
86	Hexachlorobutadiene	0.44879	0.57118	0.32850	0.25598	0.25885	0.23451	0.34963	38.293	
87	Naphthalene	1.87575	1.82538	1.90991	2.11444	2.34823	2.40889	2.08044	12.099	
88	1,2,3-Trichlorobenzene	0.70306	0.70030	0.62127	0.60608	0.65487	0.63734	0.65382	6.192	
89	Ethyl Ether	0.44164	0.41713	0.37881	0.37684	0.38287	0.38853	0.39764	6.562	
90	Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91	3-Chloropropene	+++++	2.06950	0.78553	0.53951	0.54247	0.50908	0.88922	75.248	<-
92	Isopropyl Ether	0.21600	0.21129	0.20772	0.21435	0.24588	0.26538	0.22677	10.301	
93	2-Chloro-1,3-butadiene	+++++	0.24741	0.28378	0.27359	0.30942	0.32671	0.28818	10.738	
94	Propionitrile	+++++	0.03622	0.03443	0.03781	0.03949	0.03966	0.03752	5.925	
95	Ethyl Acetate	0.47260	0.37571	0.30113	0.26585	0.27984	0.28294	0.32968	24.305	
96	Methacrylonitrile	+++++	0.25475	0.17085	0.16348	0.17345	0.17084	0.18667	20.482	
97	Isobutanol	+++++	0.01728	0.01262	0.01453	0.01672	0.01628	0.01549	12.285	
98	Cyclohexane	0.09934	0.18375	0.23713	0.26249	0.29981	0.30345	0.23099	33.857	
99	n-Butanol	+++++	0.01151	0.00776	0.01105	0.01171	0.01166	0.01074	15.689	<-
100	Methyl Methacrylate	+++++	0.28930	0.23459	0.24649	0.25134	0.25629	0.25560	8.014	
101	2-Nitropropane	+++++	0.01613	0.02777	0.02729	0.03213	0.03811	0.02828	28.519	
102	Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Last Edit : 12-Nov-2009 15:15 laveyt
Curve Type : Average

	Compound	2.500 Level 1	5.000 Level 2	25.000 Level 3	100.000 Level 5	250.000 Level 6	500.000 Level 7	RRF	% RSD	
	103 Cyclohexanone	0.05977	0.07356	0.06304	0.08088	0.08492	0.08834	0.07509	15.621	
	104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M	137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	141 1,3,5-Trichlorobenzene	0.71859	0.72262	0.66207	0.63354	0.67302	0.66497	0.67913	5.124	
	143 Methyl Acetate	+++++	0.33349	0.28712	0.28091	0.29507	0.29171	0.29766	6.961	
	144 Methylcyclohexane	0.10632	0.15755	0.18104	0.20028	0.22620	0.22965	0.18351	25.409	
	145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	146 2-Methylnaphthalene	0.92565	1.14710	1.03494	1.17984	1.27228	1.31391	1.14562	12.720	
	147 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$	4 Dibromofluoromethane	+++++	0.20471	0.19881	0.22460	0.21240	0.21029	0.21016	4.589	
$	5 1,2-Dichloroethane-d4	+++++	0.28297	0.26434	0.28011	0.26318	0.26350	0.27082	3.636	
$	6 Toluene-d8	+++++	1.04083	1.05620	1.18135	1.10489	1.09508	1.09567	4.997	
$	7 Bromofluorobenzene	+++++	0.43564	0.46009	0.46858	0.46534	0.45730	0.45739	2.827	

Report Date : 12-Nov-2009 19:12

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Last Edit : 12-Nov-2009 17:51 laveyt

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128924.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128923.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128922.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128921.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128920.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128919.D

Compound	2.5000 Level 1	5.0000 Level 2	25.0000 Level 3	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
148 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
8 Dichlorodifluoromethane	+++++	0.17133	0.19161	0.22987	0.22362	0.21121	AVRG		0.20553		11.70587	
9 Chloromethane	0.35518	0.30962	0.35519	0.34514	0.32656	0.30227	AVRG		0.33233		6.94191	
10 Vinyl Chloride	0.31902	0.32306	0.34572	0.36155	0.36011	0.33618	AVRG		0.34094		5.30904	
11 Bromomethane	4942	9117	55877	230831	794100	1475148	LINR	0.05829	0.32158		0.99658	
12 Chloroethane	4412	11351	60241	248588	773327	1759268	LINR	0.12689	0.37596		0.99397	
13 Trichlorofluoromethane	+++++	12008	87263	396686	1062680	2218299	LINR	0.07707	0.47603		0.99920	
14 Dichlorofluoromethane	+++++	1.16966	0.96977	0.92734	1.02139	1.10987	AVRG		1.03961		9.57854	
15 Acrolein	0.03067	0.03306	0.03399	0.03386	0.03827	0.03867	AVRG		0.03475		8.98074	
16 Acetone	+++++	30532	51495	185288	495195	990883	LINR	-0.03626	0.10462		0.99895	
17 1,1-Dichloroethene	0.34053	0.35358	0.37784	0.39947	0.45408	0.47203	AVRG		0.39958		13.38135	
18 Freon-113	+++++	6950	43310	200163	572895	1168907	LINR	0.08342	0.25203		0.99926	
19 Iodomethane	0.39941	0.40893	0.43431	0.45574	0.49338	0.49377	AVRG		0.44759		9.09586	
20 Carbon Disulfide	0.65959	0.67033	0.71435	0.76768	0.87387	0.89222	AVRG		0.76301		13.19230	

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INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Last Edit : 12-Nov-2009 17:51 laveyt

	Compound	2.5000 Level 1	5.0000 Level 2	25.0000 Level 3	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	21 Methylene Chloride	+++++	21156	76722	301733	775985	1515031	LINR	-0.00887	0.32264		0.99992	
	22 Acetonitrile	+++++	0.05982	0.04884	0.04379	0.04687	0.04730	AVRG		0.04932		12.46515	
	23 Acrylonitrile	0.11356	0.10301	0.11096	0.11406	0.12142	0.12089	AVRG		0.11398		5.98611	
	24 Methyl tert-butyl ether	0.72001	0.69661	0.71775	0.77421	0.83925	0.83380	AVRG		0.76361		8.12641	
	25 trans-1,2-Dichloroethene	0.25783	0.26678	0.28127	0.29940	0.33711	0.33730	AVRG		0.29662		11.61316	
	26 Hexane	+++++	0.11502	0.12521	0.13368	0.15254	0.15239	AVRG		0.13577		12.23779	
	27 Vinyl acetate	+++++	0.21902	0.25086	0.25617	0.27893	0.27583	AVRG		0.25616		9.38738	
	152 Vinyl acetate - 86	+++++	+++++	0.02955	0.03082	0.03351	0.03468	AVRG		0.03214		7.36729	<-
	28 1,1-Dichloroethane	0.33877	0.33894	0.34310	0.35417	0.38216	0.38008	AVRG		0.35620		5.64536	
	29 tert-Butyl Alcohol	0.03405	0.03000	0.03087	0.03114	0.03369	0.03353	AVRG		0.03221		5.40313	
	149 t-Butyl ethyl ether	0.70387	0.56304	0.69131	0.69384	0.73446	0.74854	AVRG		0.68918		9.56501	
	30 2-Butanone	+++++	36390	63662	226717	587244	1120433	LINR	-0.13508	0.11810		0.99946	
M	31 1,2-Dichloroethene (total)	0.27564	0.28295	0.29616	0.30636	0.33455	0.33588	AVRG		0.30526		8.35845	
	32 cis-1,2-dichloroethene	0.29341	0.29909	0.31104	0.31332	0.33200	0.33446	AVRG		0.31388		5.32717	
	33 2,2-Dichloropropane	2347	6483	39257	173800	458301	898878	LINR	0.02208	0.19265		0.99991	
	34 Bromochloromethane	0.09658	0.09179	0.10223	0.11265	0.12036	0.11830	AVRG		0.10698		11.06686	
	35 Chloroform	0.34053	0.34208	0.35860	0.36934	0.39616	0.39484	AVRG		0.36693		6.70162	
	36 Tetrahydrofuran	+++++	13198	21635	73236	186868	355274	LINR	-0.09105	0.07454		0.99946	
	37 1,1,1-Trichloroethane	4438	9579	55147	245659	685323	1333348	LINR	0.03173	0.28660		0.99960	
	38 1,1-Dichloropropene	4648	9545	59243	256946	707598	1392601	LINR	0.03280	0.29876		0.99972	
	39 Carbon Tetrachloride	2202	5787	37152	182957	525898	1050271	LINR	0.05960	0.22597		0.99939	
	40 1,2-Dichloroethane	0.31252	0.31756	0.30489	0.30400	0.33005	0.32577	AVRG		0.31580		3.39449	

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INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Last Edit : 12-Nov-2009 17:51 laveyt

Compound	2.5000 Level 1	5.0000 Level 2	25.0000 Level 3	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
41 Benzene	0.92874	0.88686	0.88769	0.90494	0.98929	1.00382	AVRG		0.93356		5.49753	
150 t-Amyl methyl ether	0.68072	0.69843	0.67151	0.69014	0.73615	0.78005	AVRG		0.70950		5.79625	
42 Trichloroethene	0.20444	0.22781	0.22016	0.22747	0.24874	0.24509	AVRG		0.22895		7.13349	
43 1,2-Dichloropropane	0.21323	0.20612	0.21078	0.21183	0.23047	0.22937	AVRG		0.21697		4.75594	
44 1,4-Dioxane	+++++	3635	37996	152319	459503	895365	LINR	3.26709	0.00388		0.99897	<-
45 Dibromomethane	0.11052	0.13711	0.13218	0.13648	0.14567	0.14530	AVRG		0.13454		9.59134	
46 Bromodichloromethane	4405	8656	49241	230973	651853	1312623	LINR	0.05362	0.28160		0.99942	
47 2-Chloroethyl vinyl ether	+++++	0.12214	0.15214	0.15810	0.17164	0.17564	AVRG		0.15593		13.58976	
48 cis-1,3-Dichloropropene	4515	10760	65696	307635	875489	1761746	LINR	0.05692	0.37828		0.99939	
49 4-Methyl-2-pentanone	0.19671	0.20666	0.21579	0.22827	0.24655	0.24682	AVRG		0.22347		9.29833	
50 Toluene	1.11891	1.12358	1.19208	1.23259	1.34415	1.33347	AVRG		1.22413		8.05702	
51 trans-1,3-Dichloropropene	4891	9663	58956	290883	846717	1748159	LINR	0.05985	0.44239		0.99926	
52 Ethyl Methacrylate	5622	10726	63866	306598	869914	1776091	LINR	0.04637	0.44917		0.99949	
53 1,1,2-Trichloroethane	0.25509	0.23967	0.26177	0.26330	0.28267	0.27389	AVRG		0.26273		5.68034	
54 1,3-Dichloropropane	0.45541	0.47896	0.47243	0.49163	0.52935	0.51698	AVRG		0.49079		5.69196	
55 Tetrachloroethene	0.19515	0.18206	0.18773	0.19434	0.21304	0.20837	AVRG		0.19678		6.03869	
56 2-Hexanone	0.17271	0.16010	0.18825	0.19713	0.21933	0.21285	AVRG		0.19173		11.91955	
57 Dibromochloromethane	1885	4280	30266	152910	470441	992139	LINR	0.08545	0.25142		0.99853	
58 1,2-Dibromoethane	0.25459	0.26903	0.25046	0.26752	0.29572	0.28253	AVRG		0.26998		6.29752	
59 Chlorobenzene	0.93215	0.84278	0.82540	0.82802	0.89683	0.89309	AVRG		0.86971		5.04018	
60 1,1,1,2-Tetrachloroethane	0.20782	0.21632	0.21439	0.24122	0.28208	0.28296	AVRG		0.24080		14.22560	
61 Ethylbenzene	1.22996	1.21377	1.23952	1.28534	1.45100	1.47301	AVRG		1.31543		8.83390	

Report Date : 12-Nov-2009 19:12

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Last Edit : 12-Nov-2009 17:51 laveyt

	Compound	2.5000 Level 1	5.0000 Level 2	25.0000 Level 3	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	62 m + p-Xylene	0.98123	0.92392	0.96046	1.01056	1.16120	1.21247	AVRG		1.04164		11.24015	
M	63 Xylenes (total)	0.97772	0.93902	0.98447	1.03295	1.18027	1.22749	AVRG		1.05699		11.21859	
	64 Xylene-o	0.97065	0.96923	1.03250	1.07773	1.21839	1.25755	AVRG		1.08768		11.39546	
	65 Styrene	14004	26422	158009	736901	2117835	4500123	LINR	0.06646	1.13443		0.99899	
	66 Bromoform	+++++	1683	14633	82936	281414	620037	LINR	0.17047	0.15918		0.99682	<-
	67 Isopropylbenzene	0.97226	0.98333	1.00577	1.08020	1.24524	1.27145	AVRG		1.09304		12.23338	
	68 1,1,2,2-Tetrachloroethane	0.64181	0.72674	0.69217	0.71627	0.75220	0.76505	AVRG		0.71571		6.21858	
	69 1,4-Dichloro-2-butene	+++++	861	7153	43006	154395	340988	LINR	0.19374	0.15610		0.99555	
	70 1,2,3-Trichloropropane	0.22939	0.22427	0.22507	0.22676	0.25076	0.24291	AVRG		0.23319		4.71487	
	71 Bromobenzene	0.67158	0.65262	0.66514	0.65443	0.70654	0.70933	AVRG		0.67660		3.73356	
	72 n-Propylbenzene	2.00061	2.11796	2.06767	2.18657	2.42976	2.51888	AVRG		2.22024		9.36567	
	73 2-Chlorotoluene	0.49483	0.62339	0.55087	0.54361	0.58144	0.58438	AVRG		0.56309		7.78745	
	74 1,3,5-Trimethylbenzene	1.52938	1.46554	1.51893	1.60000	1.78848	1.84209	AVRG		1.62407		9.55061	
	75 4-Chlorotoluene	0.65531	0.55406	0.57901	0.58582	0.63412	0.63886	AVRG		0.60787		6.62731	
	76 tert-Butylbenzene	1.30116	1.25524	1.25307	1.30153	1.43458	1.45962	AVRG		1.33420		6.76910	
	77 1,2,4-Trimethylbenzene	1.51332	1.59446	1.62577	1.73685	1.91435	1.99772	AVRG		1.73041		11.02222	
	78 sec-Butylbenzene	1.42739	1.65554	1.67709	1.70855	1.94156	1.98238	AVRG		1.73209		11.79808	
	79 4-Isopropyltoluene	1.30127	1.46853	1.43255	1.48687	1.69824	1.74213	AVRG		1.52160		11.01035	
	80 1,3-Dichlorobenzene	1.30297	1.21771	1.12205	1.12554	1.19233	1.21182	AVRG		1.19540		5.62509	
	81 1,4-Dichlorobenzene	1.52991	1.38848	1.22957	1.20788	1.27308	1.29517	AVRG		1.32068		9.10615	
	151 1,2,3-Trimethylbenzene	1.84691	1.70786	1.72609	1.81230	1.98270	2.18623	AVRG		1.87701		9.62719	
	82 n-Butylbenzene	1.19673	1.31204	1.24972	1.26101	1.42932	1.42723	AVRG		1.31267		7.37072	

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TestAmerica North Canton

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Last Edit : 12-Nov-2009 17:51 laveyt

Compound	2.5000 Level 1	5.0000 Level 2	25.0000 Level 3	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
83 1,2-Dichlorobenzene	1.30478	1.23307	1.16002	1.16017	1.22377	1.24299	AVRG		1.22080		4.49773	
84 1,2-Dibromo-3-chloropropane	+++++	1746	10632	51608	161329	326876	LINR	0.09182	0.14829		0.99897	
85 1,2,4-Trichlorobenzene	0.72061	0.67386	0.62412	0.62635	0.67370	0.66990	AVRG		0.66476		5.39673	
86 Hexachlorobutadiene	4220	11081	33881	111337	291465	525211	LINR	-0.09029	0.23461		0.99784	
87 Naphthalene	1.87575	1.82538	1.90991	2.11444	2.34823	2.40889	AVRG		2.08044		12.09862	
88 1,2,3-Trichlorobenzene	0.70306	0.70030	0.62127	0.60608	0.65487	0.63734	AVRG		0.65382		6.19229	
89 Ethyl Ether	0.44164	0.41713	0.37881	0.37684	0.38287	0.38853	AVRG		0.39764		6.56180	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
91 3-Chloropropene	+++++	78646	152464	452056	1198659	2359723	LINR	-0.14561	0.49757		0.99933	
92 Isopropyl Ether	0.21600	0.21129	0.20772	0.21435	0.24588	0.26538	AVRG		0.22677		10.30132	
93 2-Chloro-1,3-butadiene	+++++	0.24741	0.28378	0.27359	0.30942	0.32671	AVRG		0.28818		10.73830	
94 Propionitrile	+++++	0.03622	0.03443	0.03781	0.03949	0.03966	AVRG		0.03752		5.92549	
95 Ethyl Acetate	17233	28556	116893	445512	1236686	2623024	LINR	0.00341	0.28203		0.99975	
96 Methacrylonitrile	+++++	9681	33160	136983	383266	791901	LINR	-0.00155	0.17107		0.99977	
97 Isobutanol	+++++	0.01728	0.01262	0.01453	0.01672	0.01628	AVRG		0.01549		12.28521	
98 Cyclohexane	2203	8424	54775	249774	712833	1423857	LINR	0.05458	0.30600		0.99946	
99 n-Butanol	+++++	7348	24628	149828	414729	856507	LINR	0.87168	0.01179		0.99972	<-
100 Methyl Methacrylate	+++++	0.28930	0.23459	0.24649	0.25134	0.25629	AVRG		0.25560		8.01447	
101 2-Nitropropane	+++++	1226	10779	45725	141981	353289	LINR	0.34635	0.03855		0.99297	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
103 Cyclohexanone	5099	12971	58694	313597	867407	1868671	LINR	0.49350	0.08862		0.99951	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Report Date : 12-Nov-2009 19:12

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Last Edit : 12-Nov-2009 17:51 laveyt

	Compound	2.5000 Level 1	5.0000 Level 2	25.0000 Level 3	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
M	137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	141 1,3,5-Trichlorobenzene	0.71859	0.72262	0.66207	0.63354	0.67302	0.66497	AVRG		0.67913		5.12446	
	143 Methyl Acetate	+++++	0.33349	0.28712	0.28091	0.29507	0.29171	AVRG		0.29766		6.96100	
	144 Methylcyclohexane	2358	7223	41817	190574	537827	1077586	LINR	0.05137	0.23129		0.99949	
	145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	146 2-Methylnaphthalene	0.92565	1.14710	1.03494	1.17984	1.27228	1.31391	AVRG		1.14562		12.71995	
	147 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$	4 Dibromofluoromethane	+++++	0.20471	0.19881	0.22460	0.21240	0.21029	AVRG		0.21016		4.58870	
$	5 1,2-Dichloroethane-d4	+++++	0.28297	0.26434	0.28011	0.26318	0.26350	AVRG		0.27082		3.63558	
$	6 Toluene-d8	+++++	1.04083	1.05620	1.18135	1.10489	1.09508	AVRG		1.09567		4.99718	
$	7 Bromofluorobenzene	+++++	0.43564	0.46009	0.46858	0.46534	0.45730	AVRG		0.45739		2.82724	

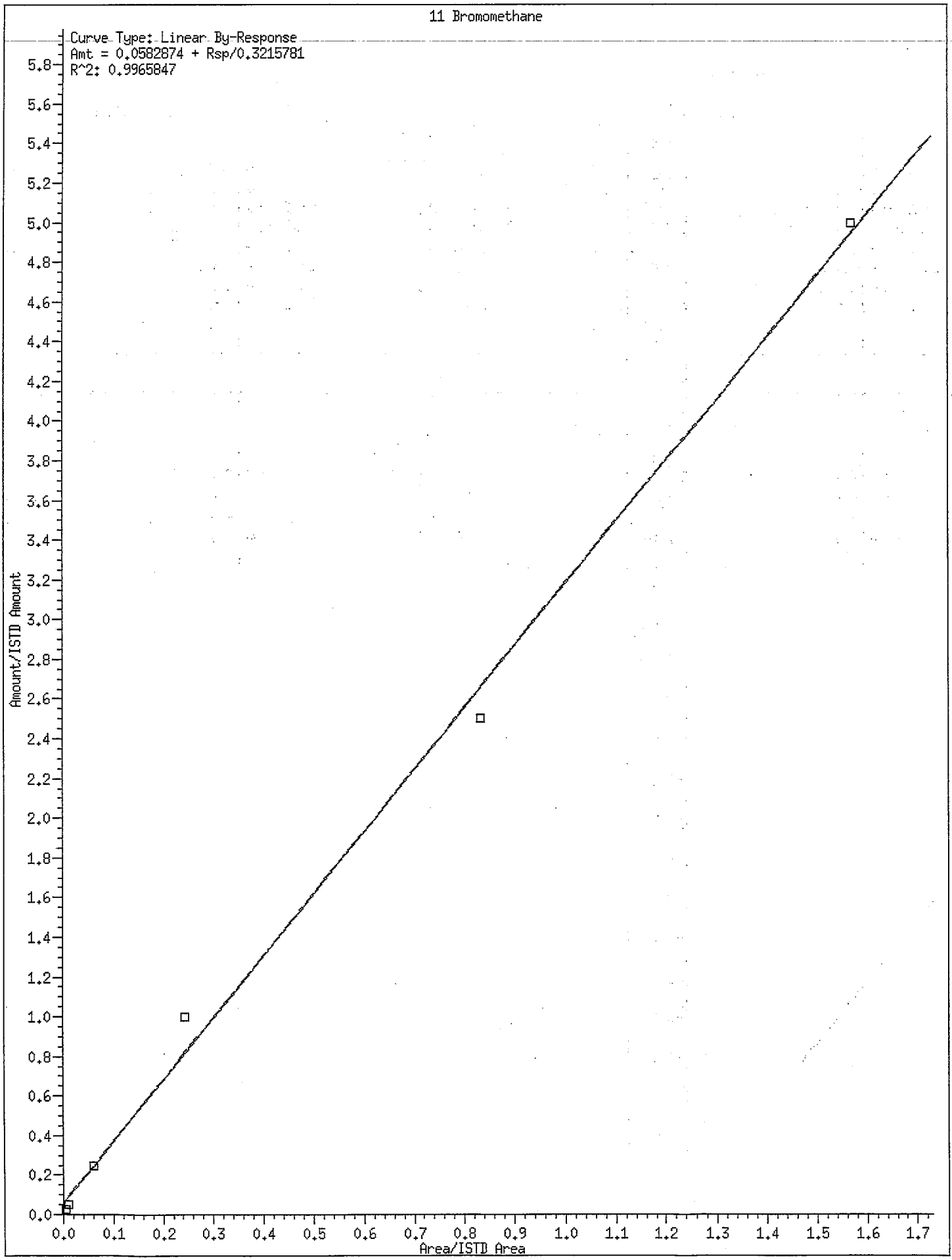
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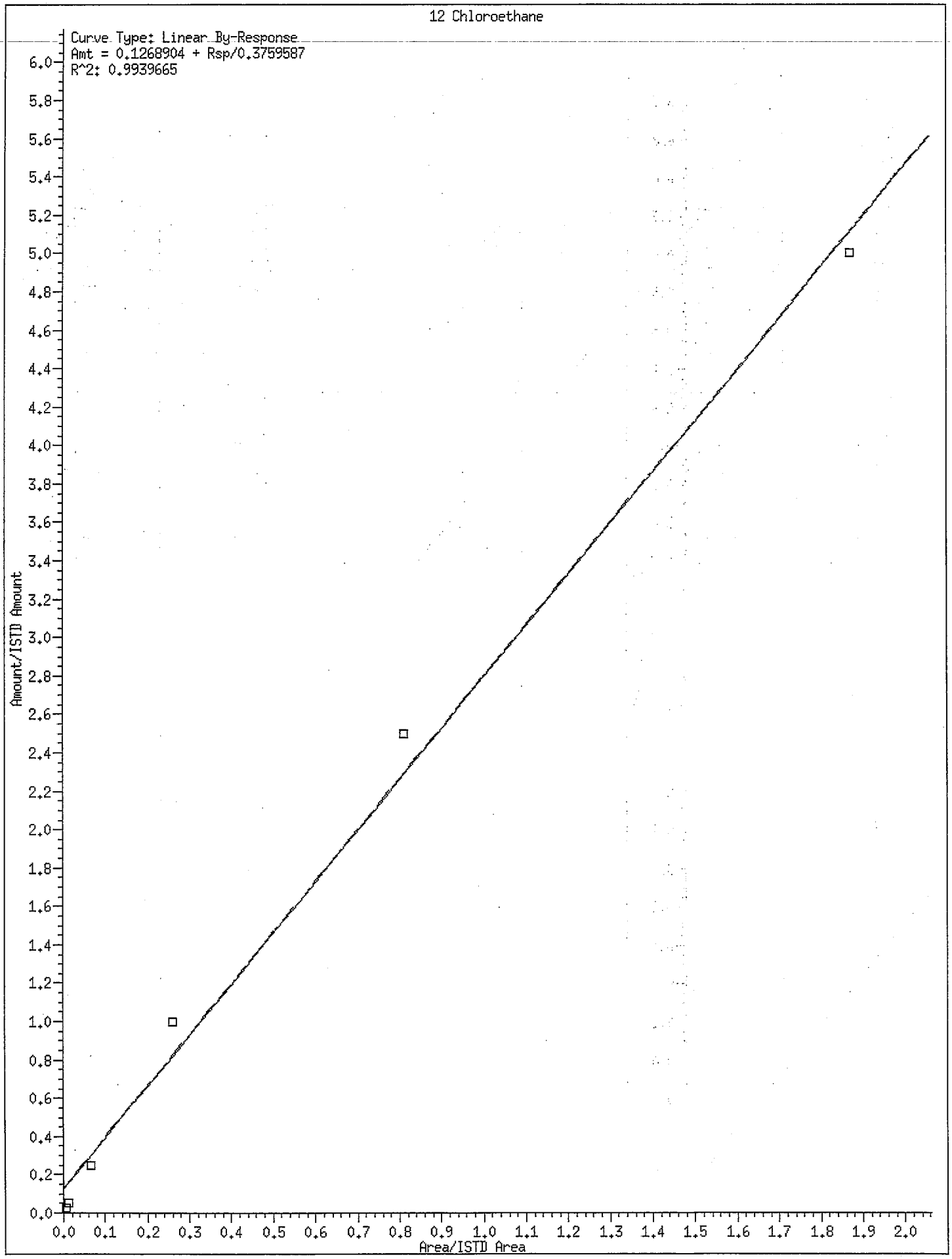
TestAmerica North Canton

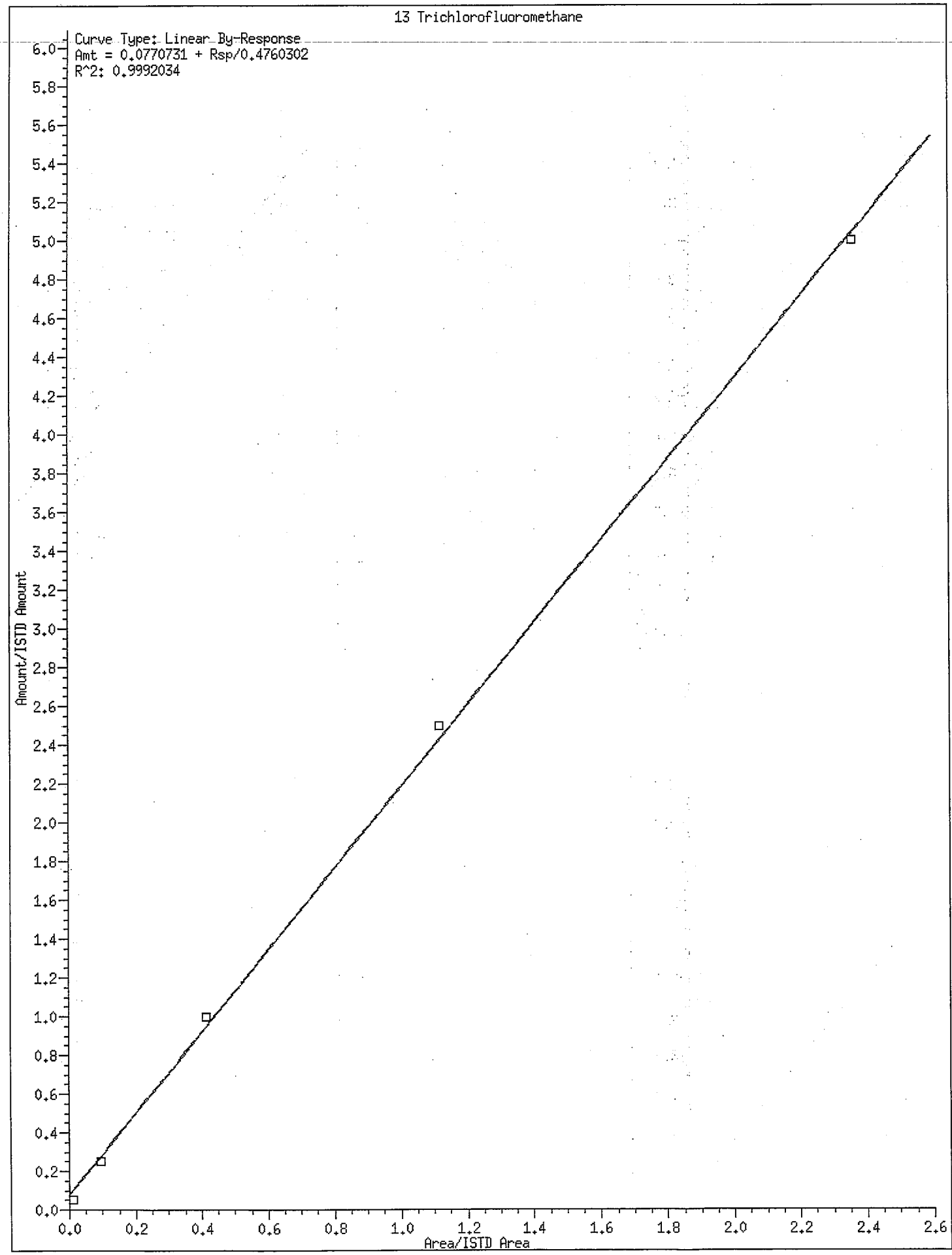
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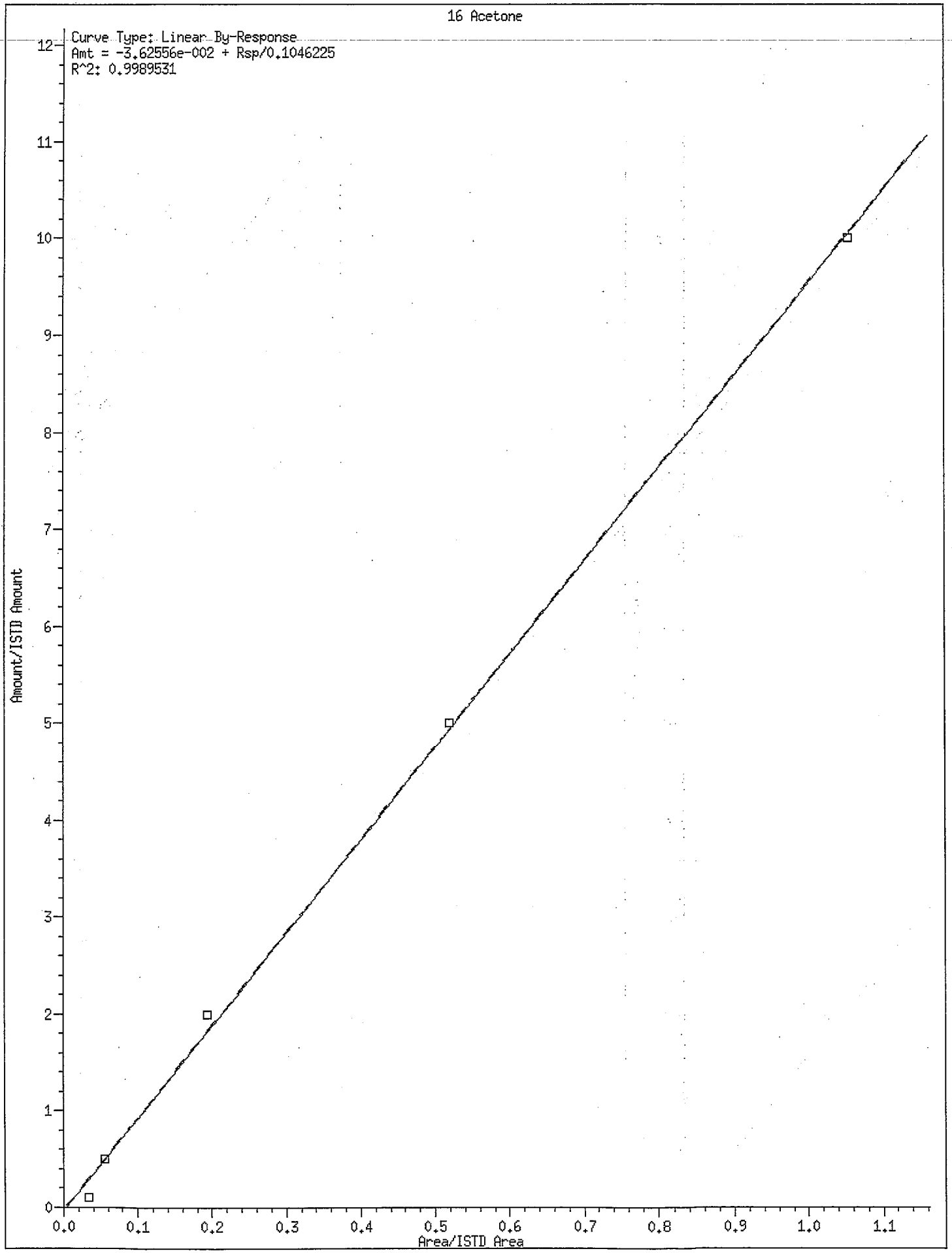
Start Cal Date : 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\8260MIUX12.m
Last Edit : 12-Nov-2009 17:51 laveyt

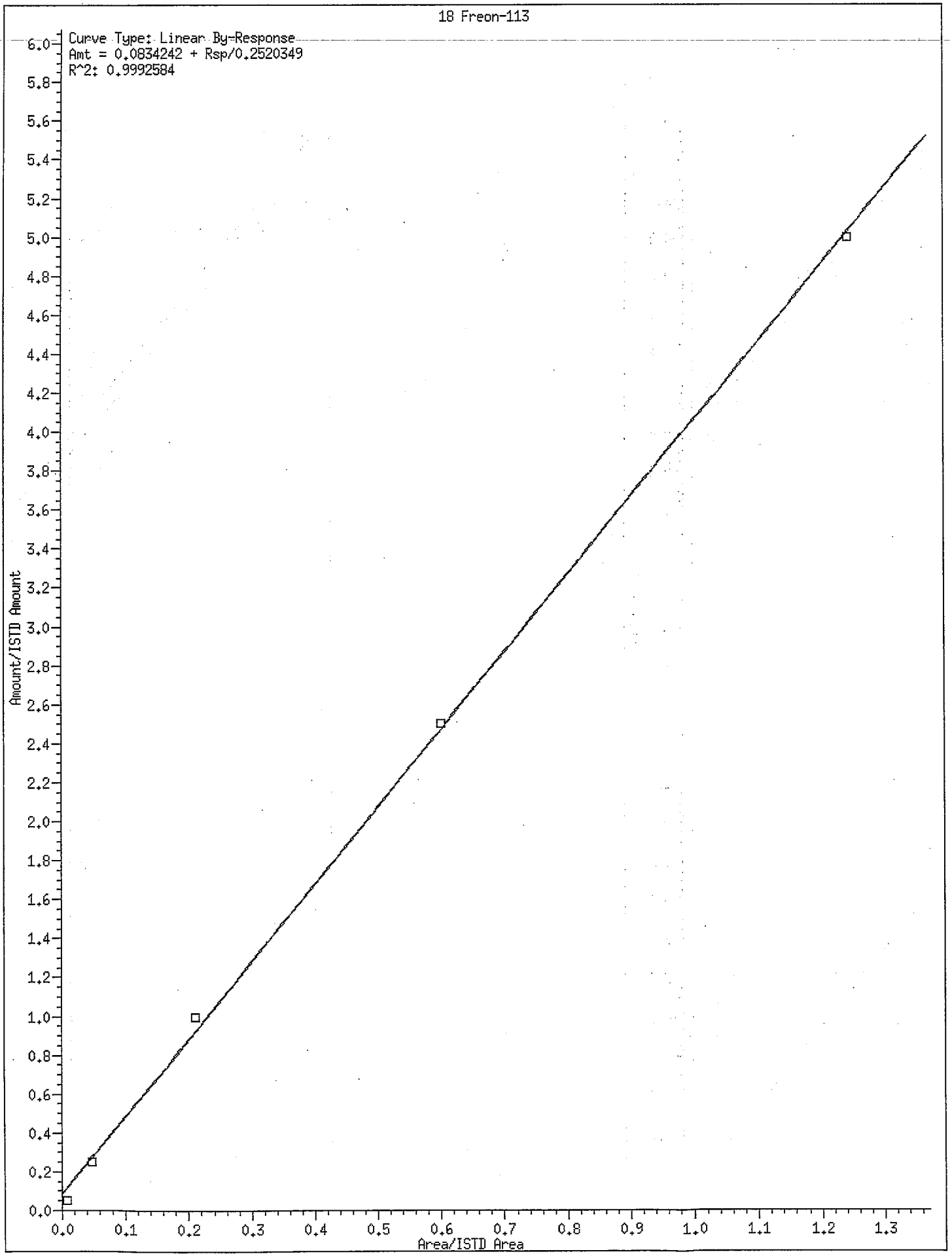
Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

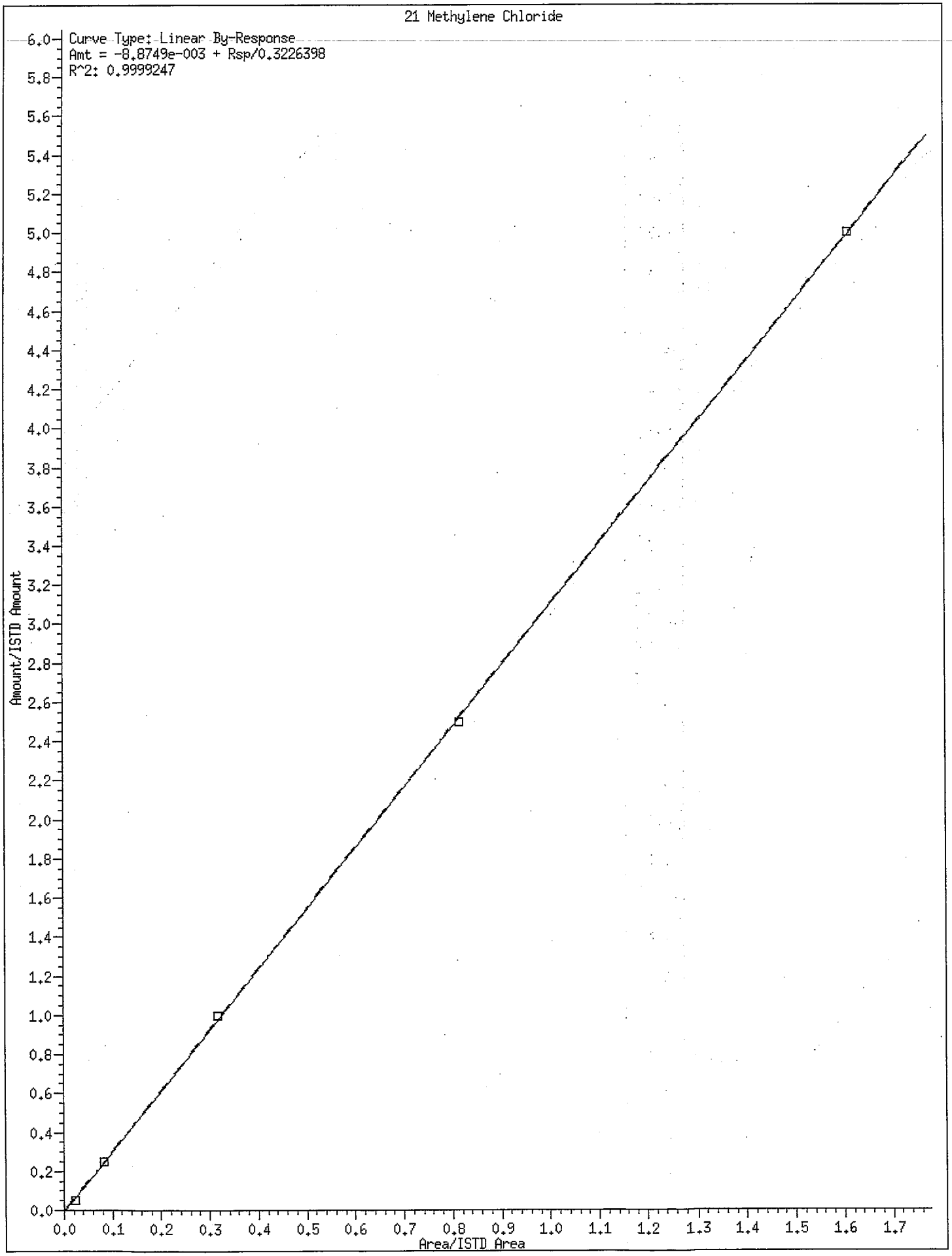

11 Bromomethane
Curve Type: Linear By-Response
Amt = 0.0582874 + Rsp/0.3215781
R^2: 0.9965847
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7

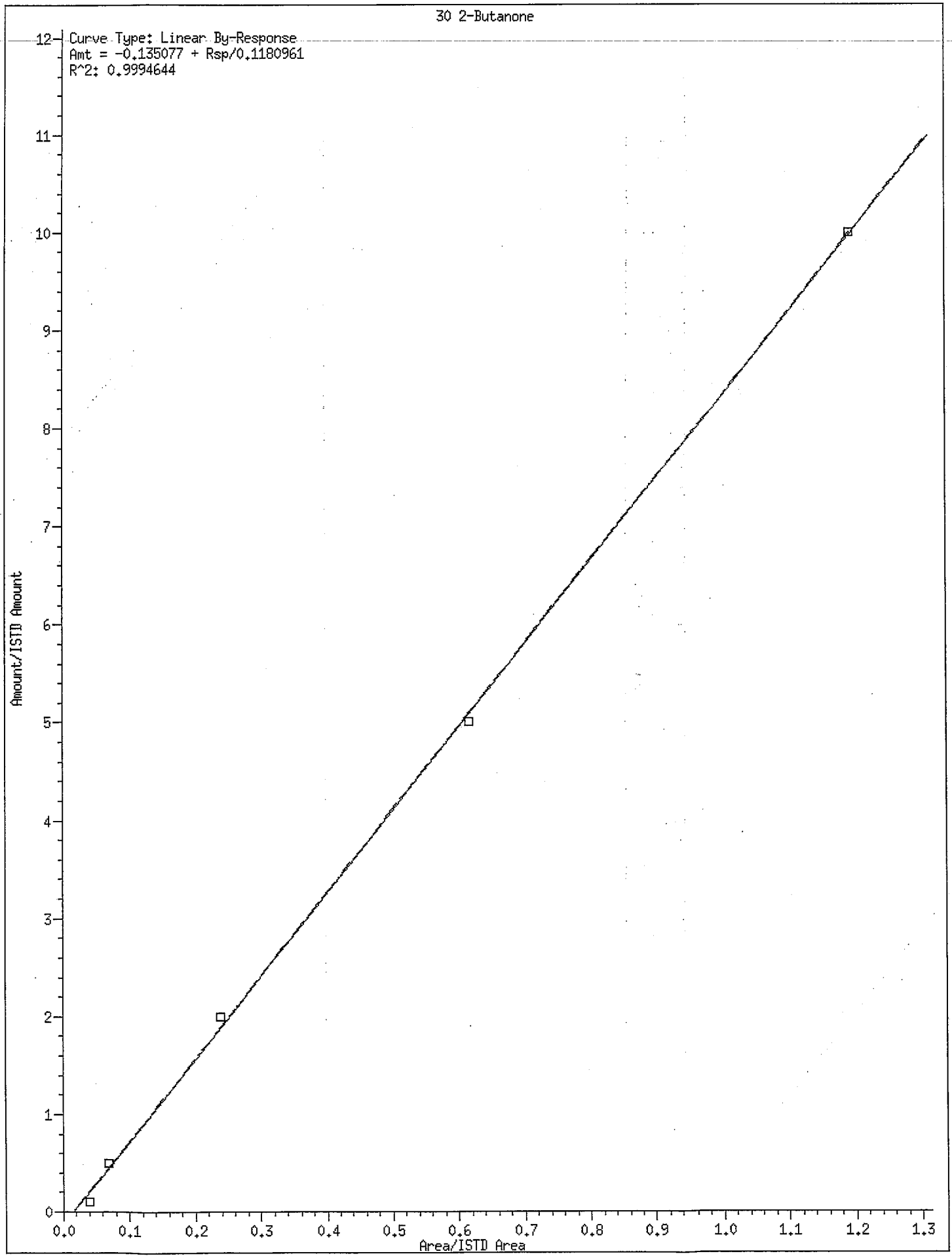

12 Chloroethane
Curve Type: Linear By-Response
Amt = 0.1268904 + Rsp/0.3759587
R^2: 0.9939665
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0

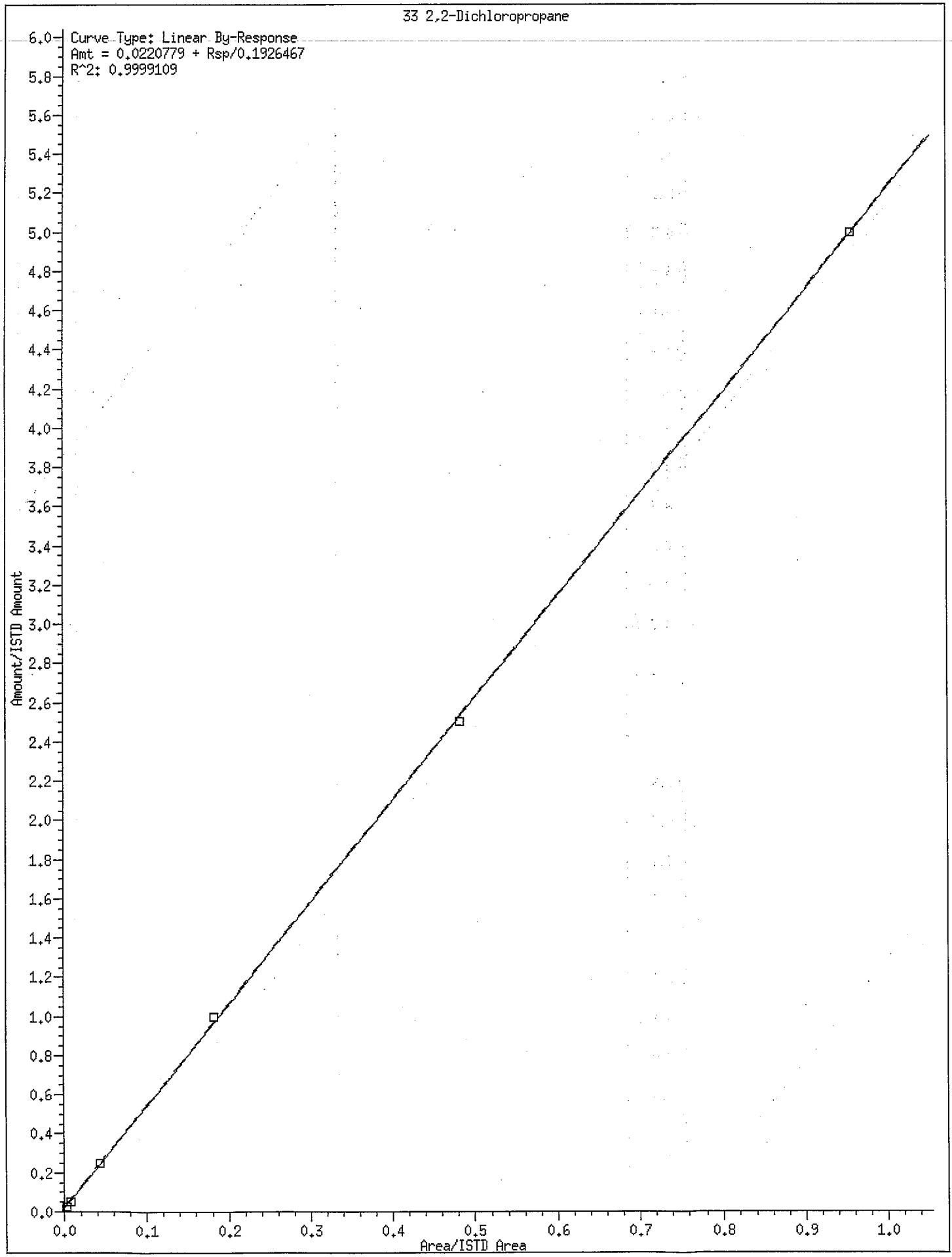

13 Trichlorofluoromethane
Curve Type: Linear By-Response
Amt = 0.0770731 + Rsp/0.4760302
R^2: 0.9992034
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0

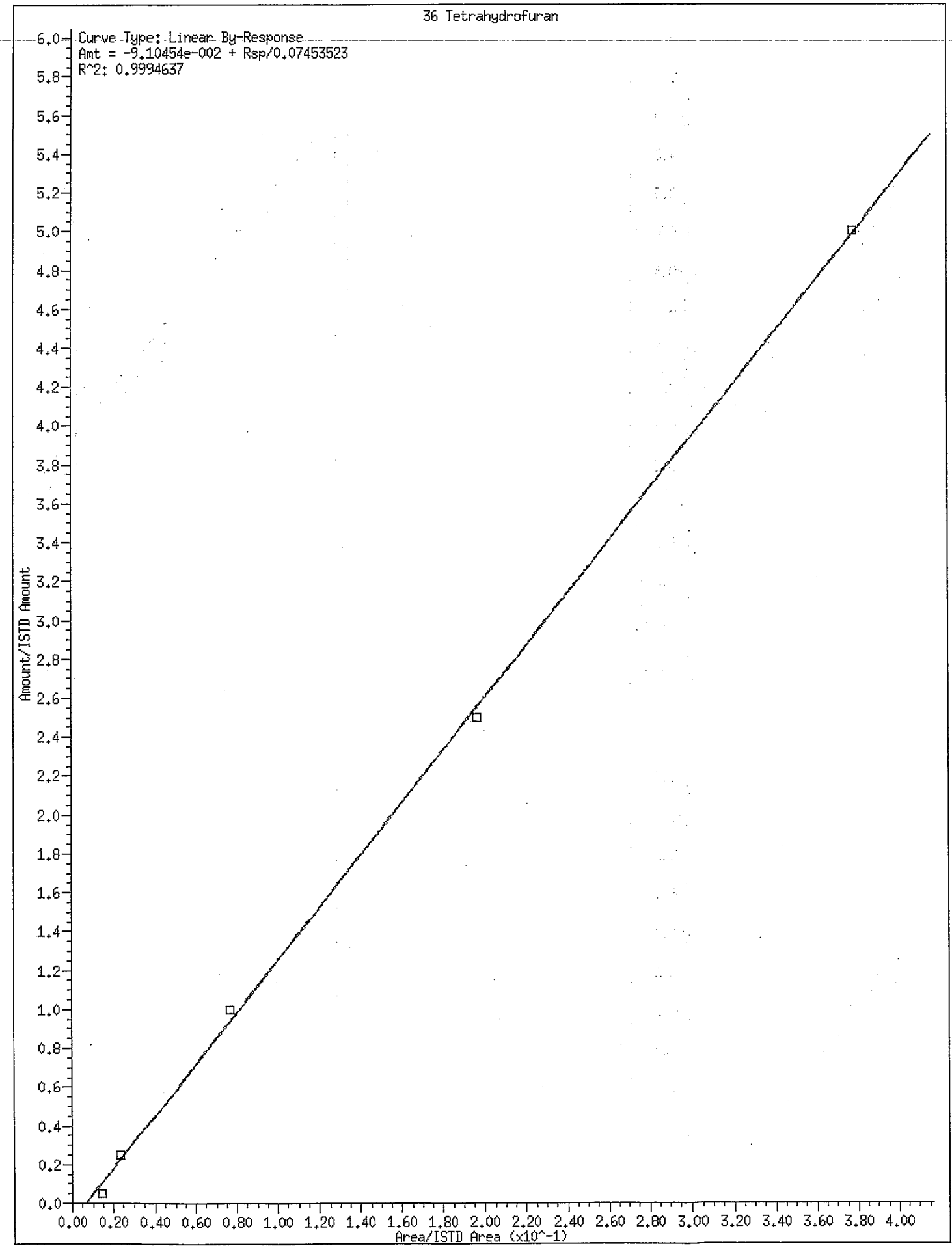

16 Acetone
Curve Type: Linear By-Response
Amt = -3.62556e-002 + Rsp/0.1046225
R^2: 0.9989531
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1

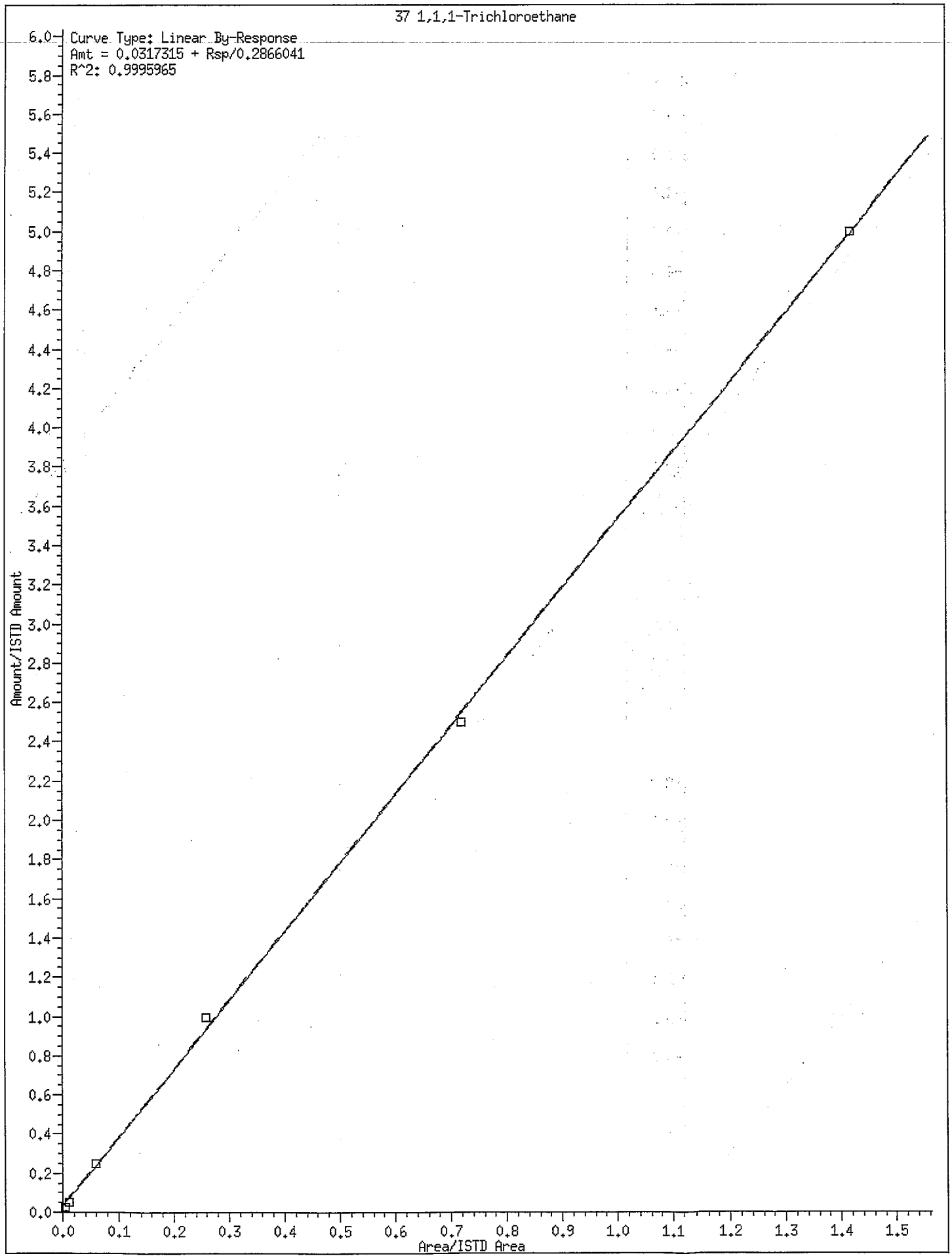

18 Freon-113
Curve Type: Linear By=Response
Amt = 0.0834242 + Rsp/0.2520349
R^2: 0.9992584
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0

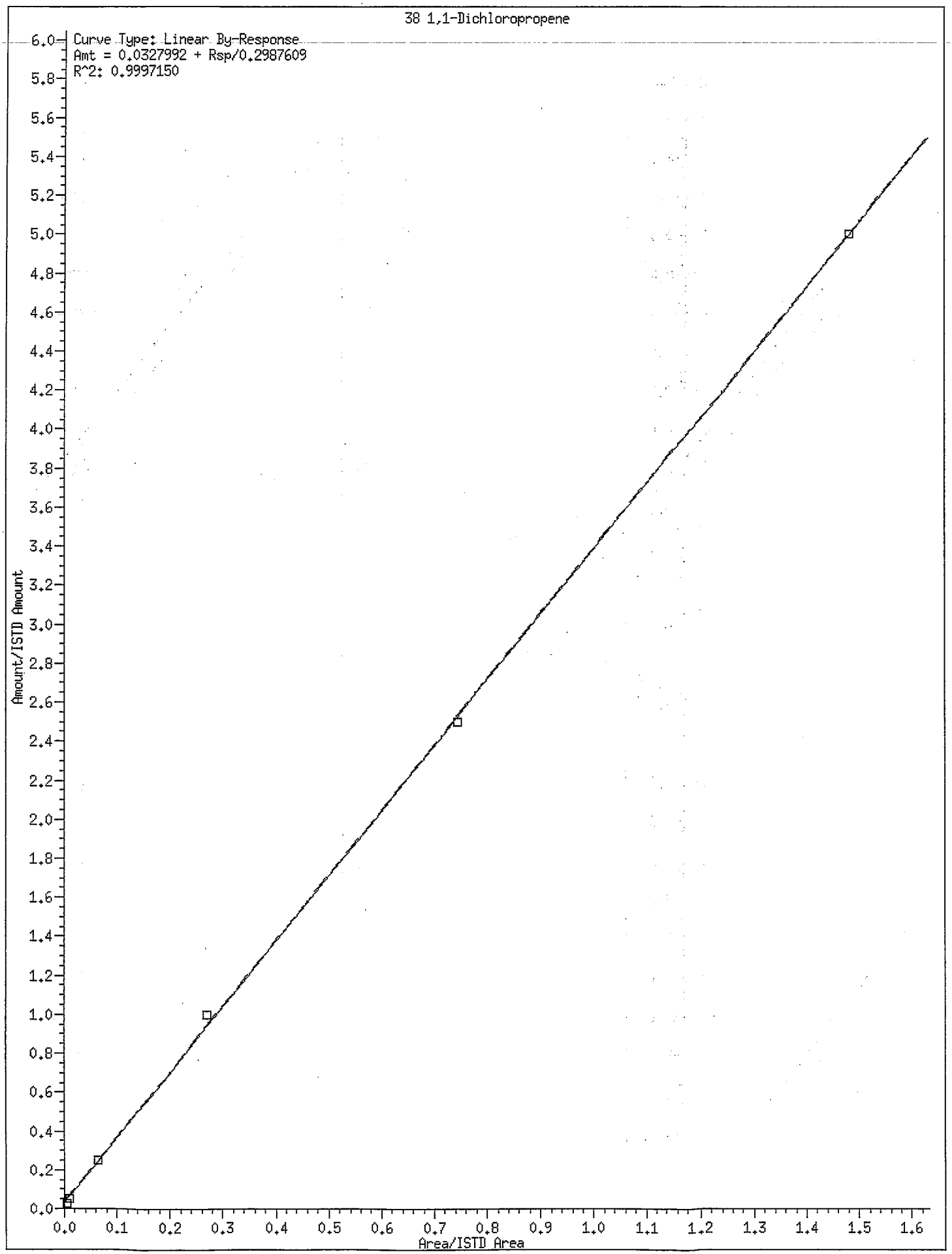

21 Methylene Chloride
Curve Type: Linear By-Response
Amt = -8.8749e-003 + Rsp/0.3226398
R^2: 0.9999247
Amount/ISTD Amount
Area/ISTD Area
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7

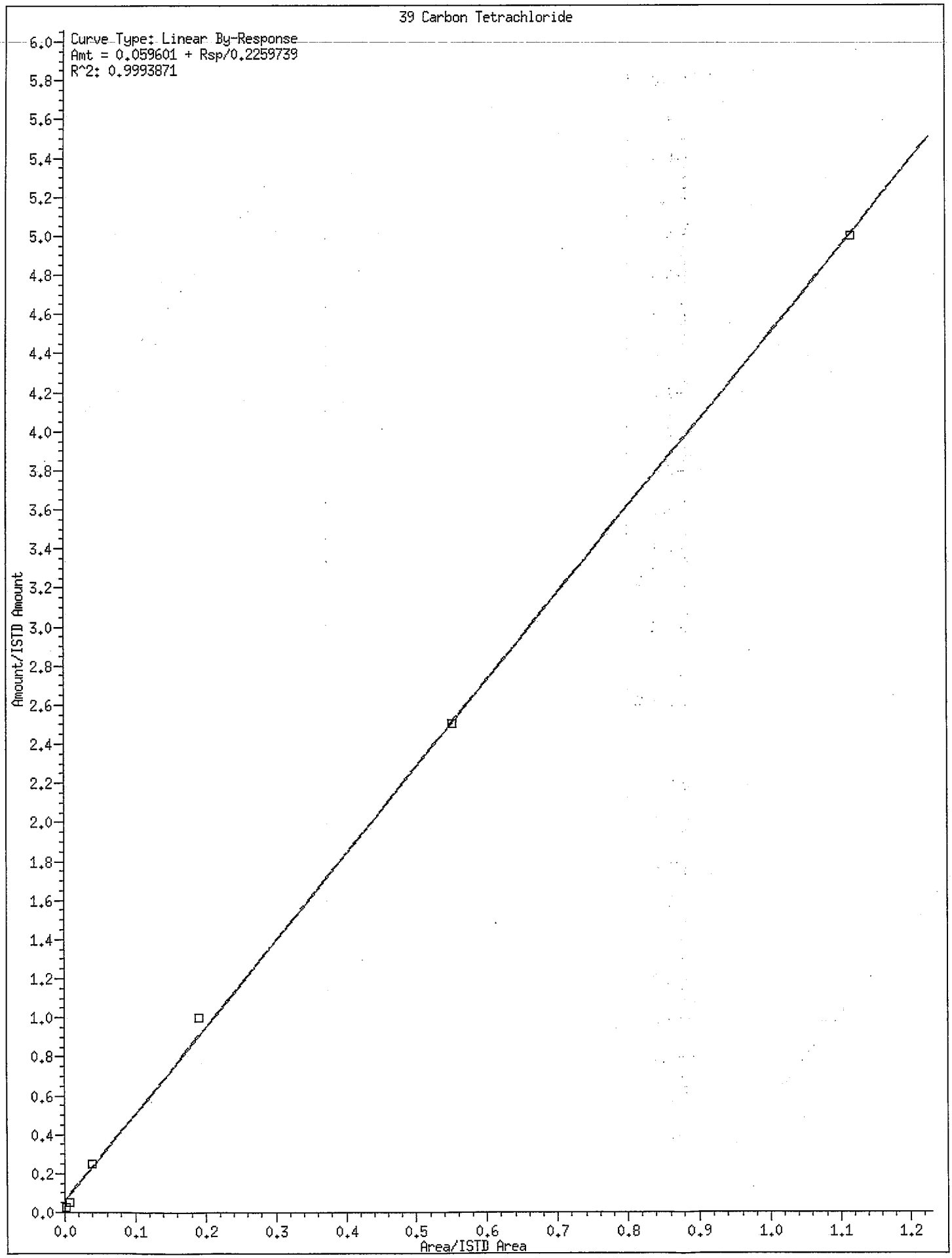

30 2-Butanone
Curve Type: Linear By-Response
Amt = -0.135077 + Rsp/0.1180961
R^2: 0.9994644
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3

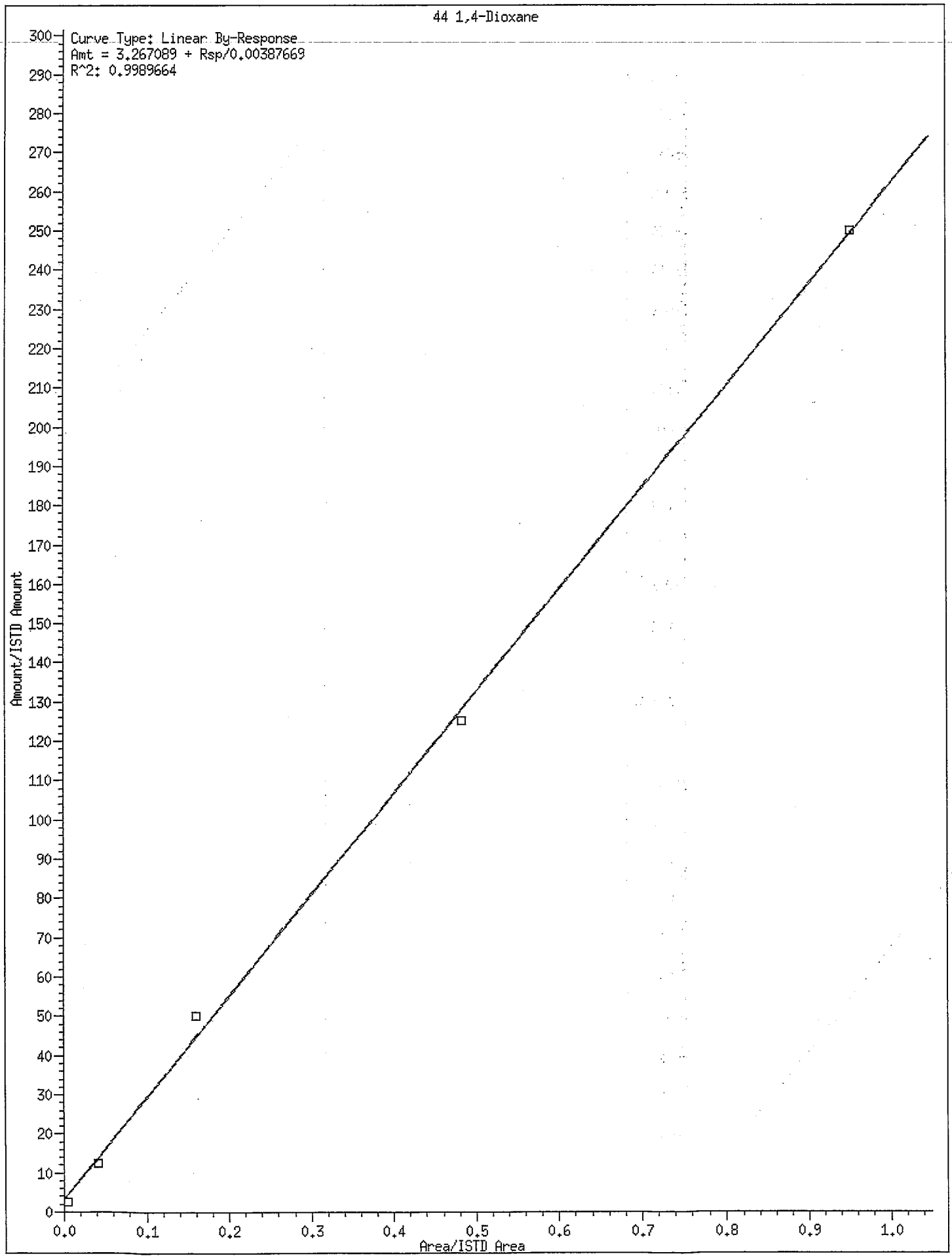

33 2,2-Dichloropropane
Curve Type: Linear By-Response
Amt = 0.0220779 + Rsp/0.1926467
R^2: 0.9999109
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0

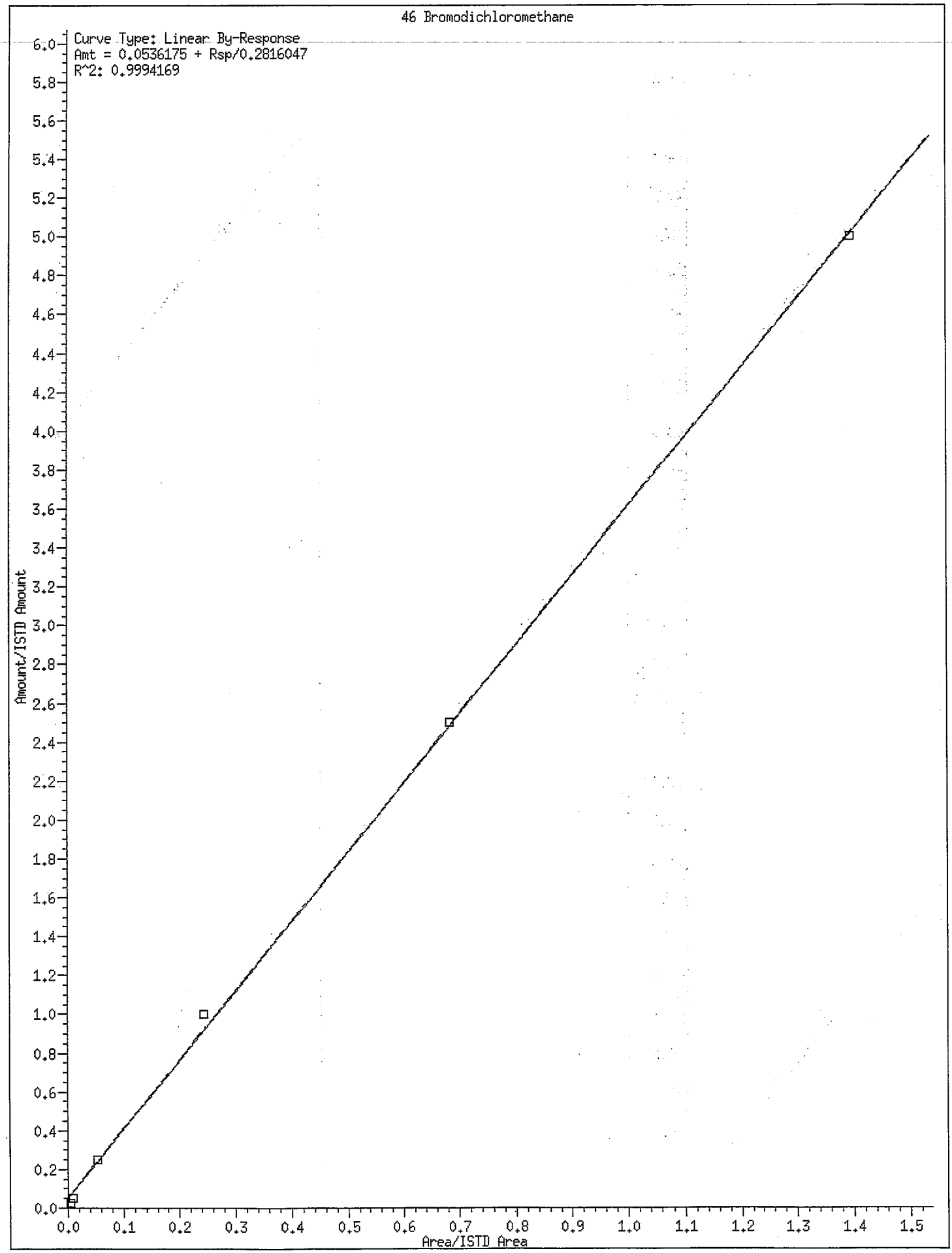

36 Tetrahydrofuran
Curve Type: Linear By-Response
Amt = -9.10454e-002 + Rsp/0.07453523
R^2: 0.9994637
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00

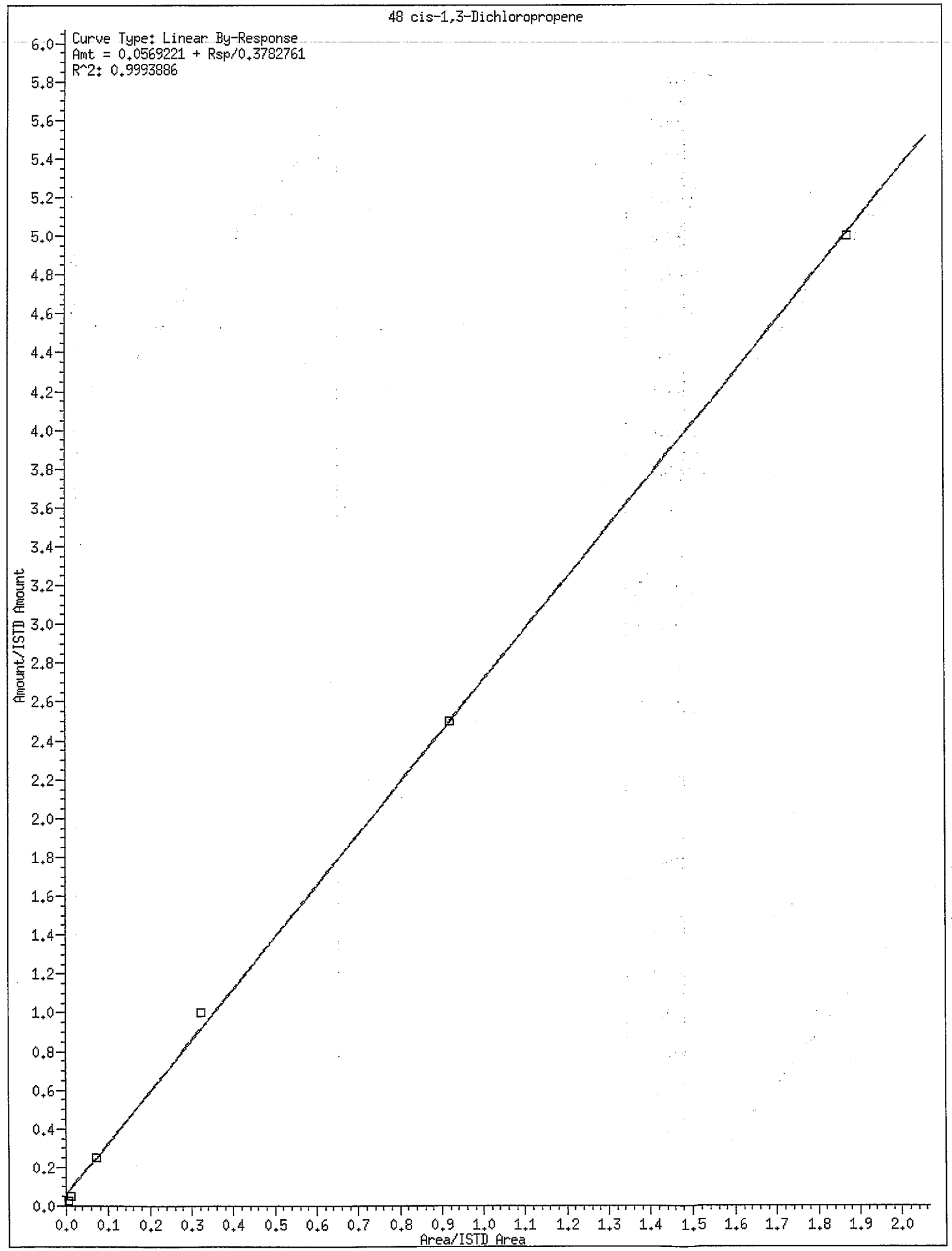

37 1,1,1-Trichloroethane
Curve Type: Linear By-Response
Amt = 0.0317315 + Rsp/0.2866041
R^2: 0.9995965
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5

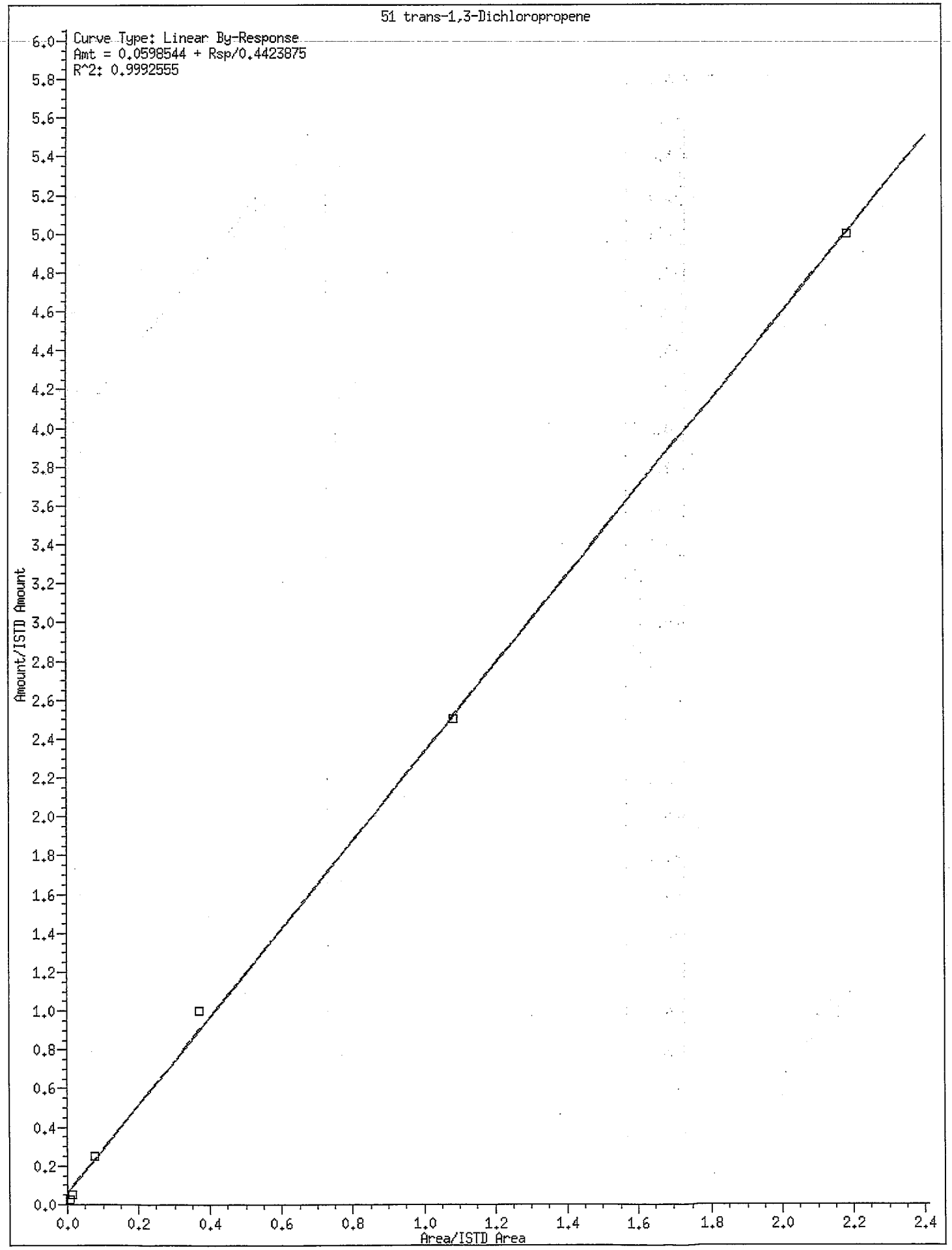

38 1,1-Dichloropropene
Curve Type: Linear By-Response
Amt = 0.0327992 + Rsp/0.2987609
R^2: 0.9997150
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6

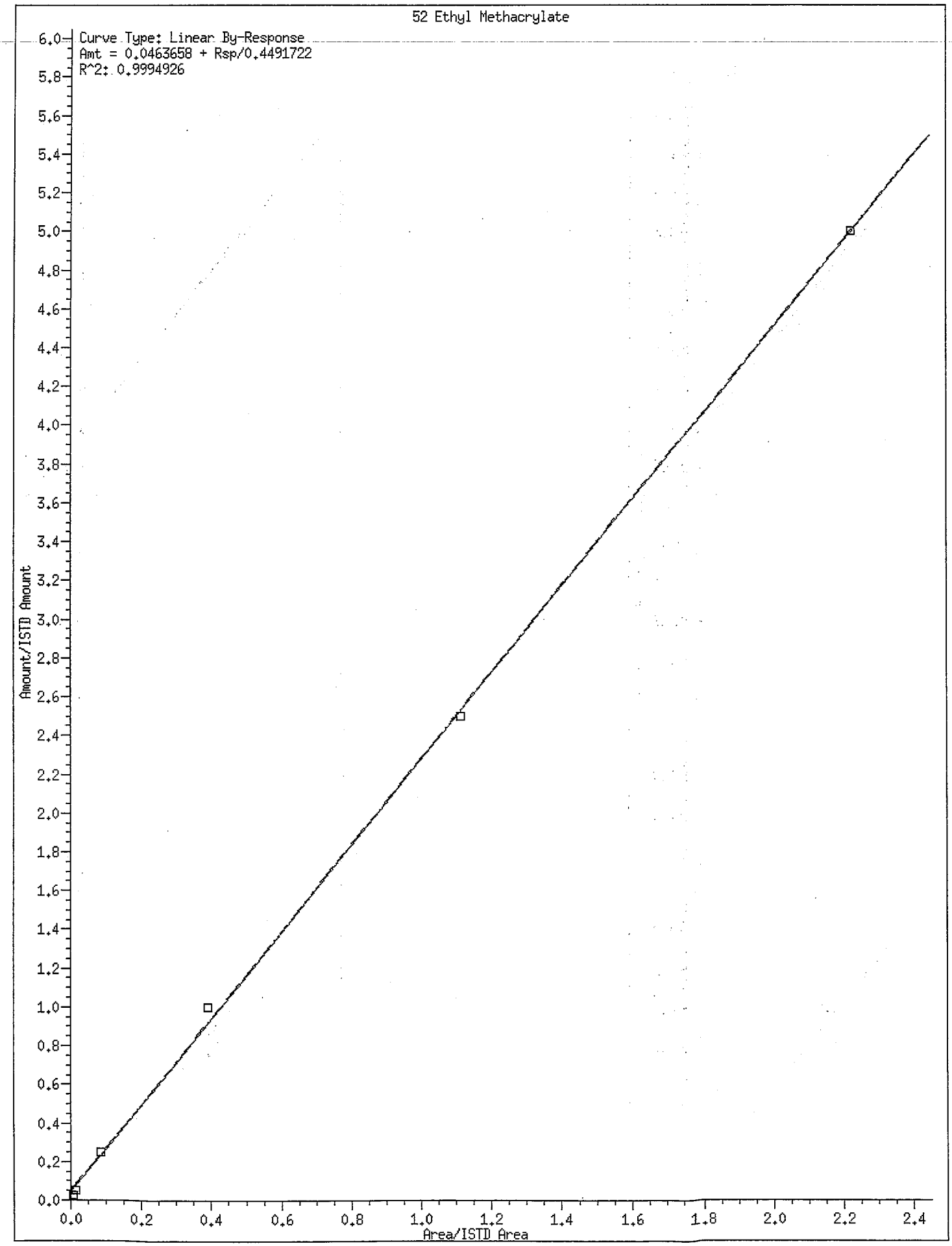

39 Carbon Tetrachloride
Curve Type: Linear By-Response
Amt = 0.059601 + Rsp/0.2259739
R^2: 0.9993871
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2

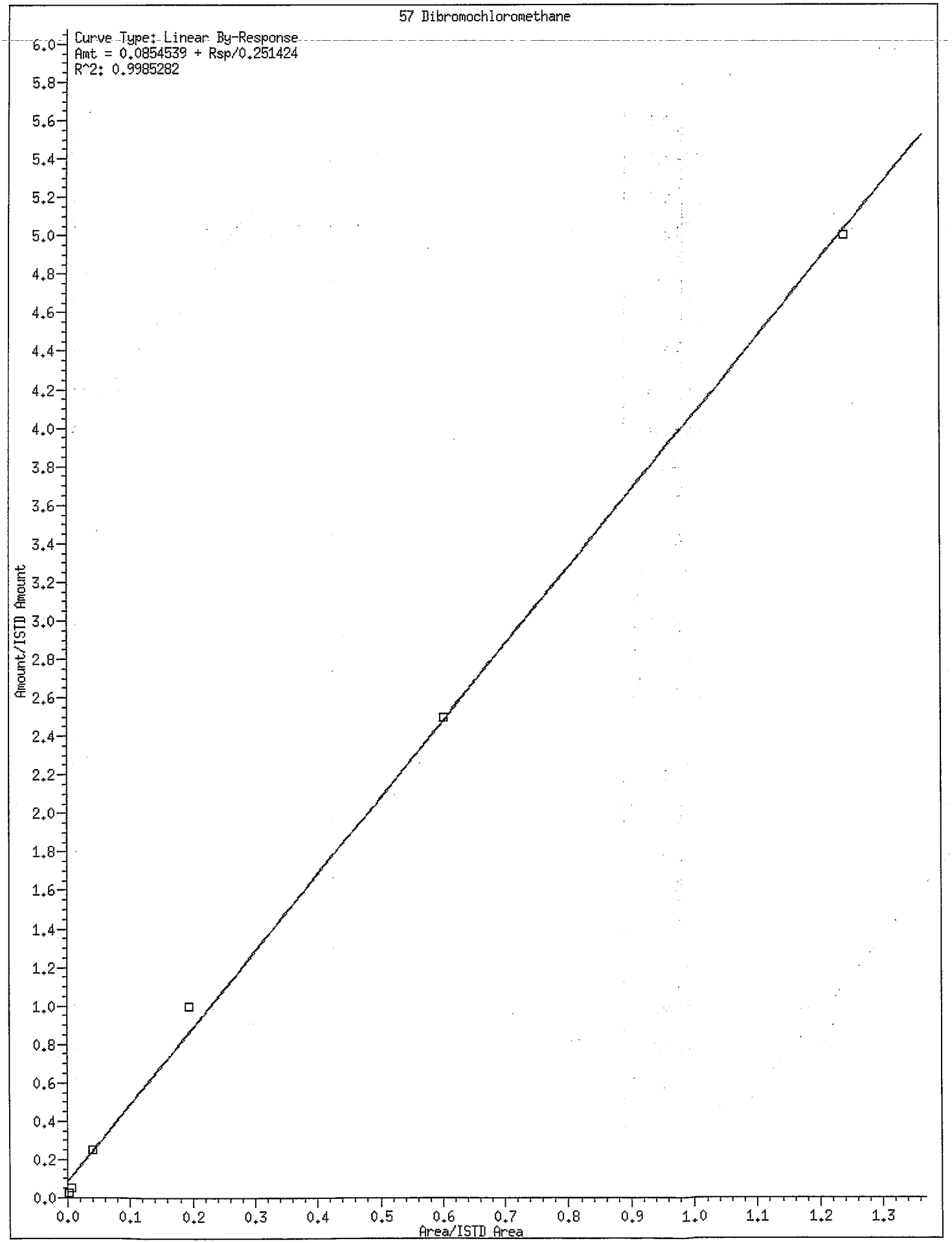

44 1,4-Dioxane
Curve Type: Linear By-Response
Amt = 3.267089 + Rsp/0.00387669
R^2: 0.9989664
Amount/ISTD Amount
Area/ISTD Area
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0

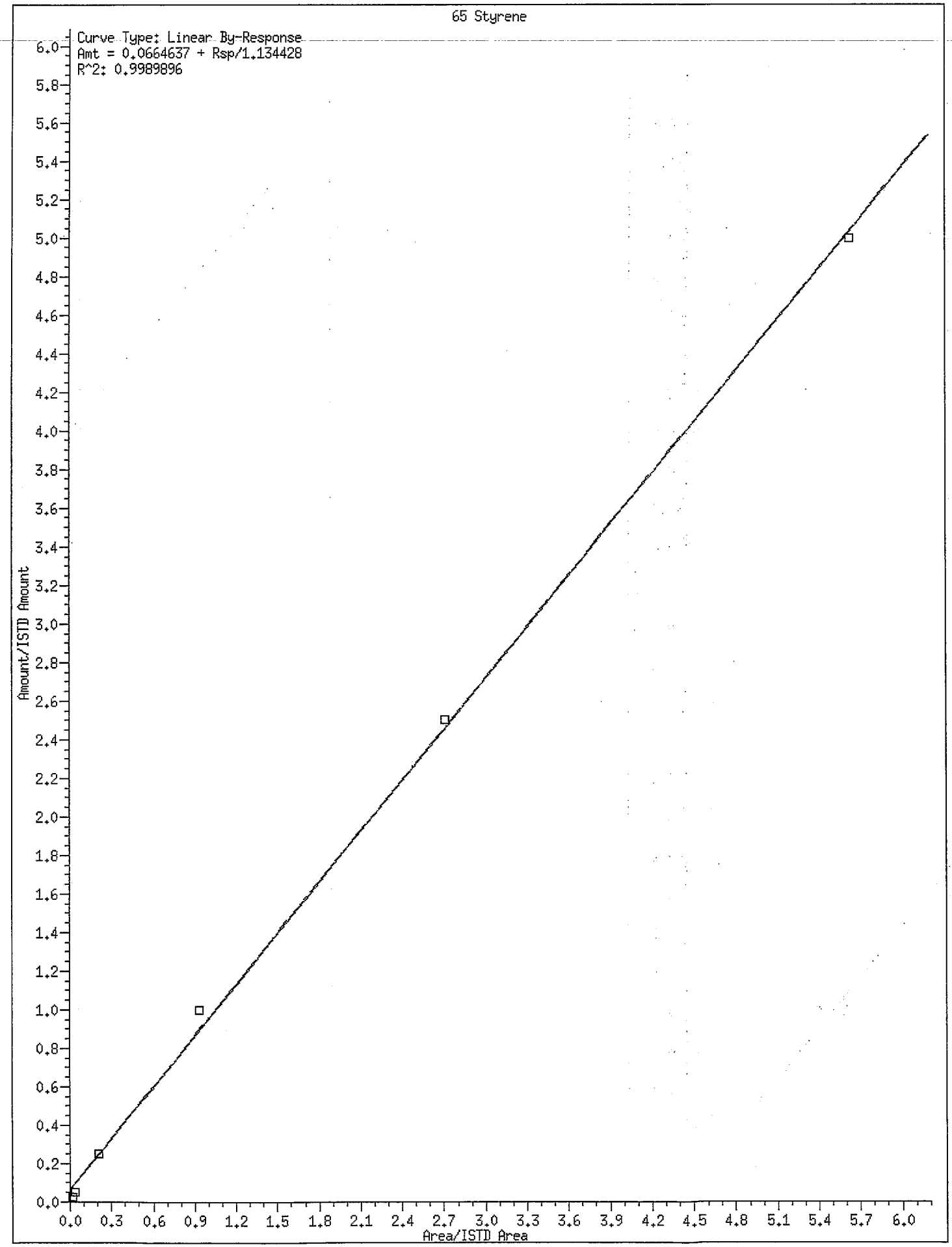

46 Bromodichloromethane
Curve Type: Linear By-Response
Amt = 0.0536175 + Rsp/0.2816047
R^2: 0.9994169
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.0
0.1
0.2
0.3
0.4
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0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5

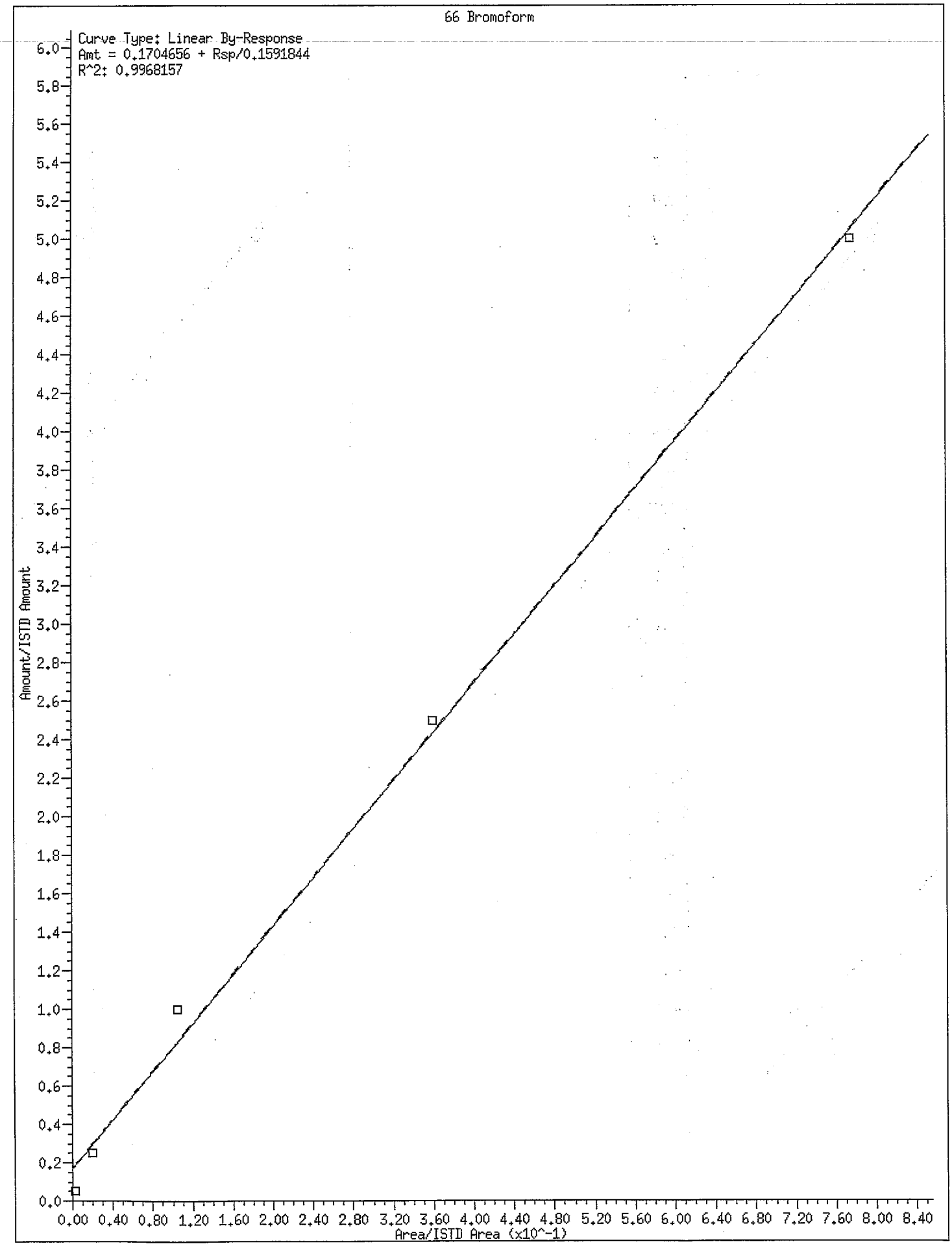

48 cis-1,3-Dichloropropene
Curve Type: Linear By-Response
Amt = 0.0569221 + Rsp/0.3782761
R^2: 0.9993886
Amount/ISTD Amount
Area/ISTD Area
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0

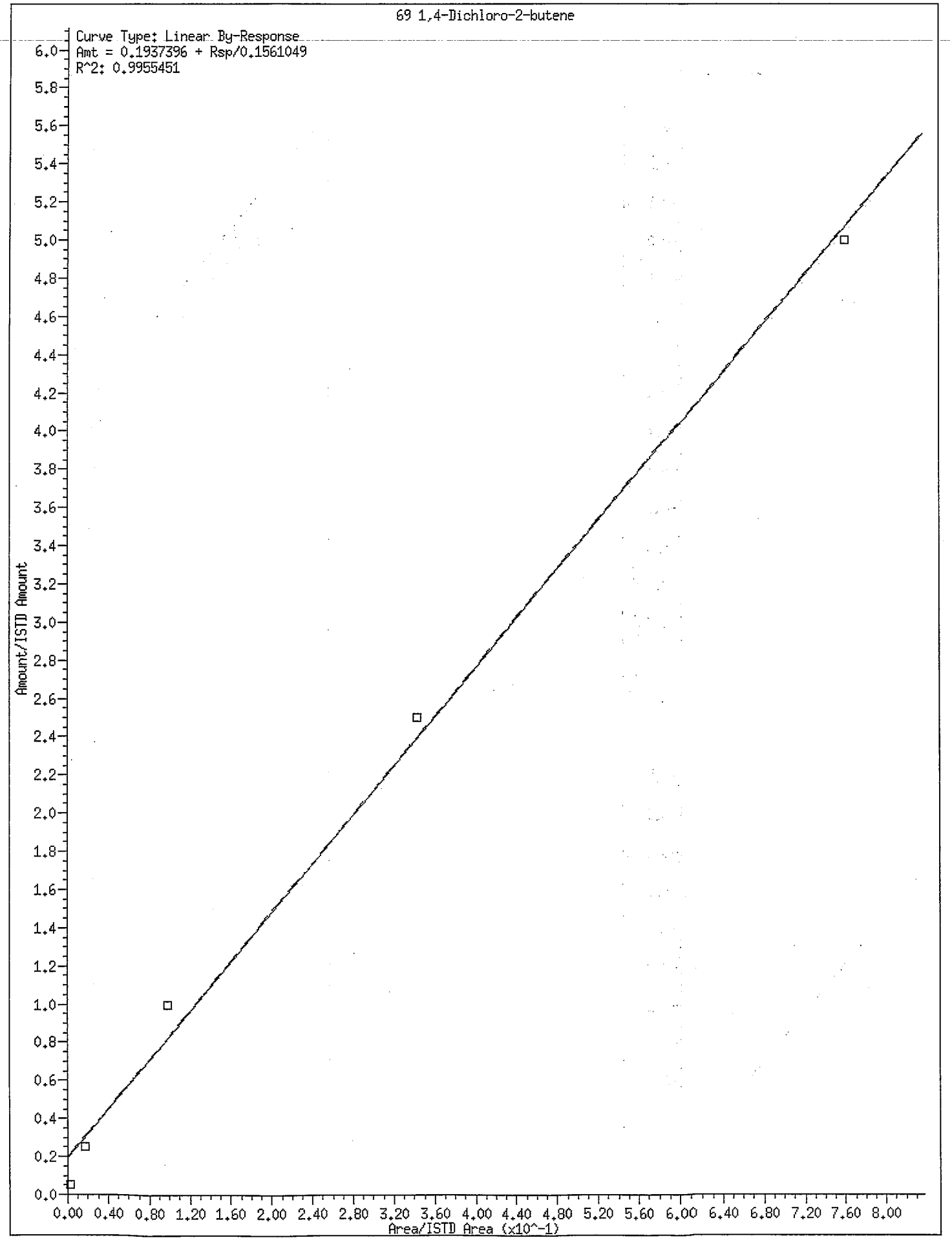

51 trans-1,3-Dichloropropene
Curve Type: Linear By-Response
Amt = 0.0598544 + Rsp/0.4423875
R^2: 0.9992555
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6

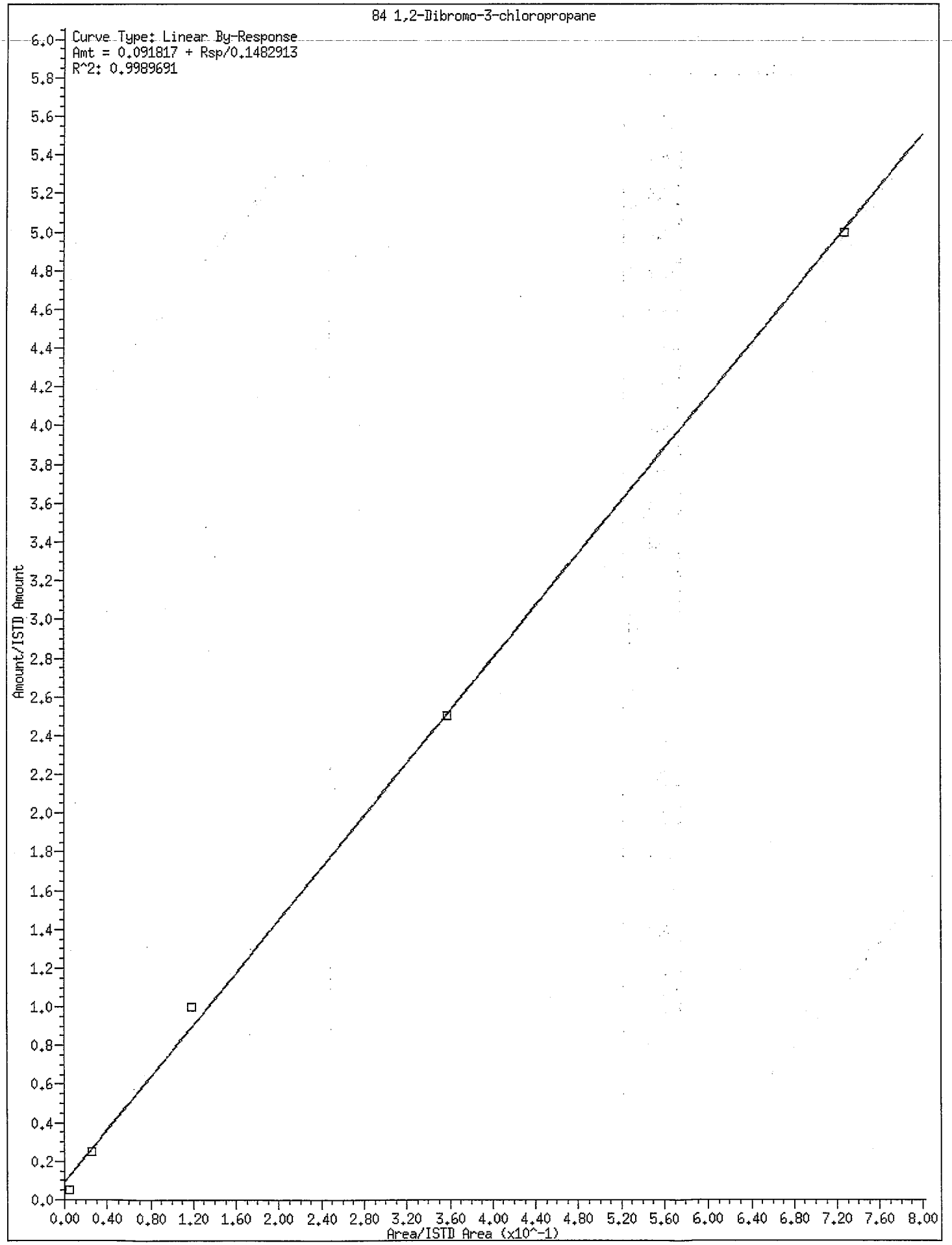

52 Ethyl Methacrylate
Curve Type: Linear By-Response
Amt = 0.0463658 + Rsp/0.4491722
R^2: 0.9994926
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0

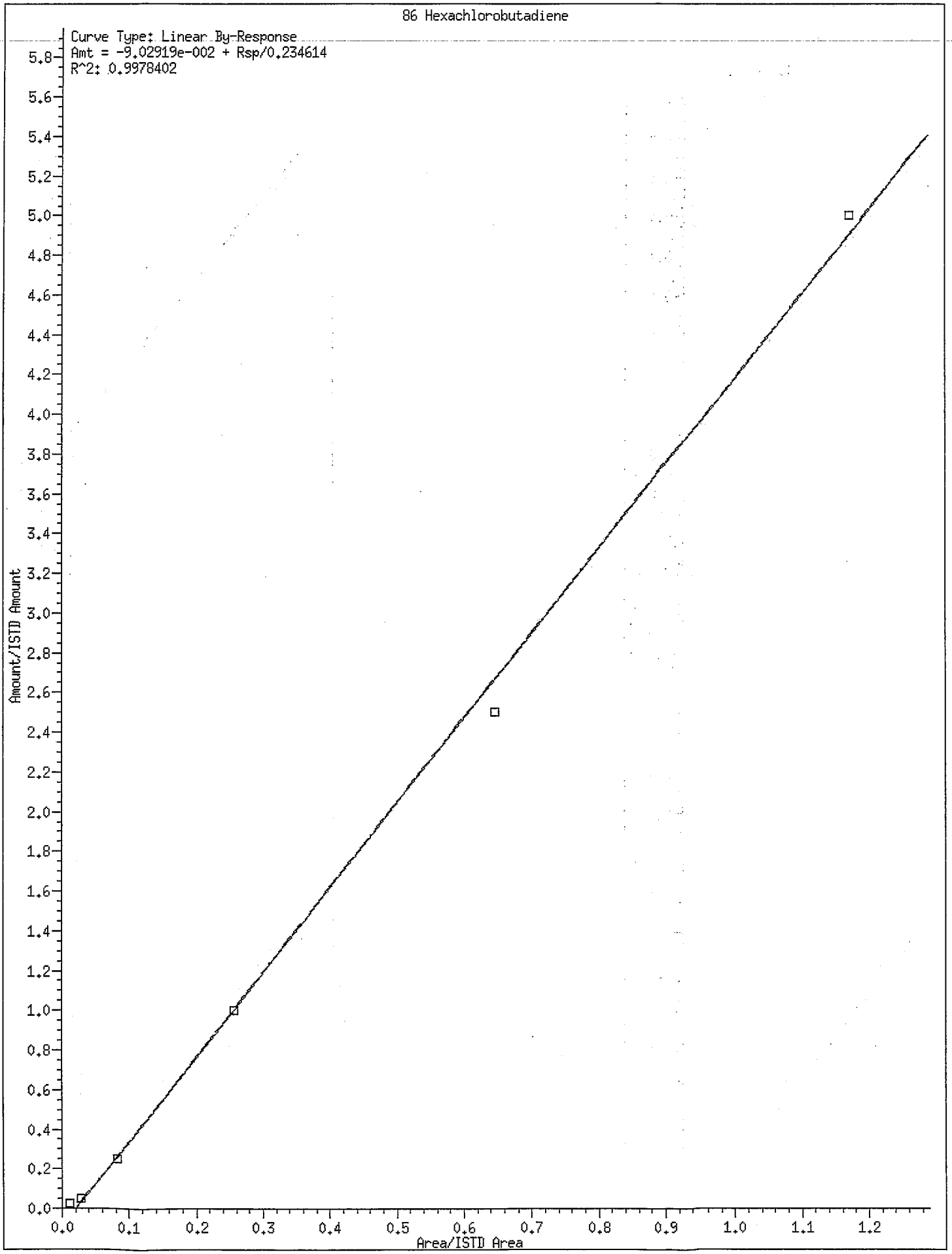

57 Dibromochloromethane
Curve Type: Linear By-Response
Amt = 0.0854539 + Rsp/0.251424
R^2: 0.9985282
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3

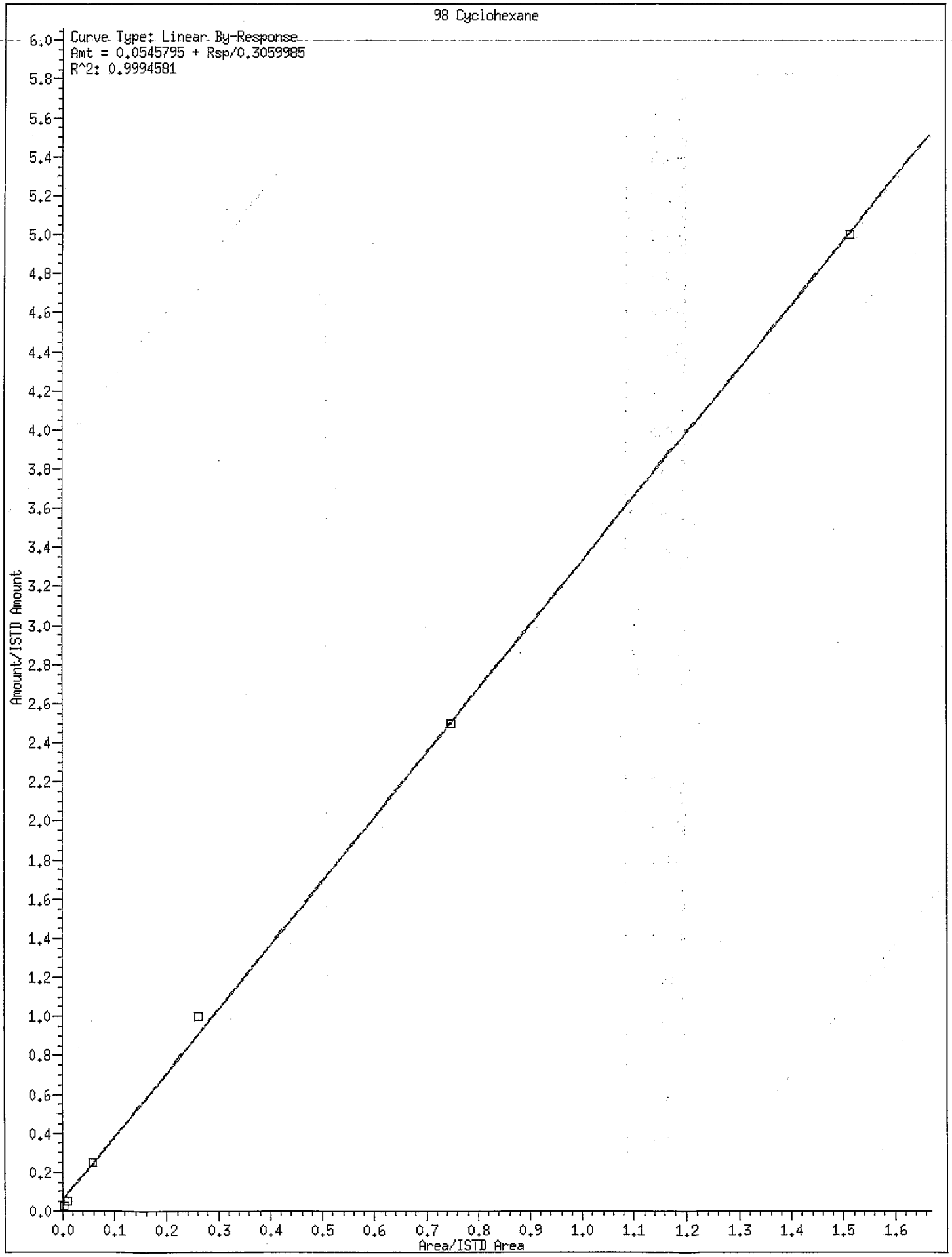

65 Styrene
Curve Type: Linear By-Response
Amt = 0.0664637 + Rsp/1.134428
R^2: 0.9989896
Amount/ISTD Amount
Area/ISTD Area
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0

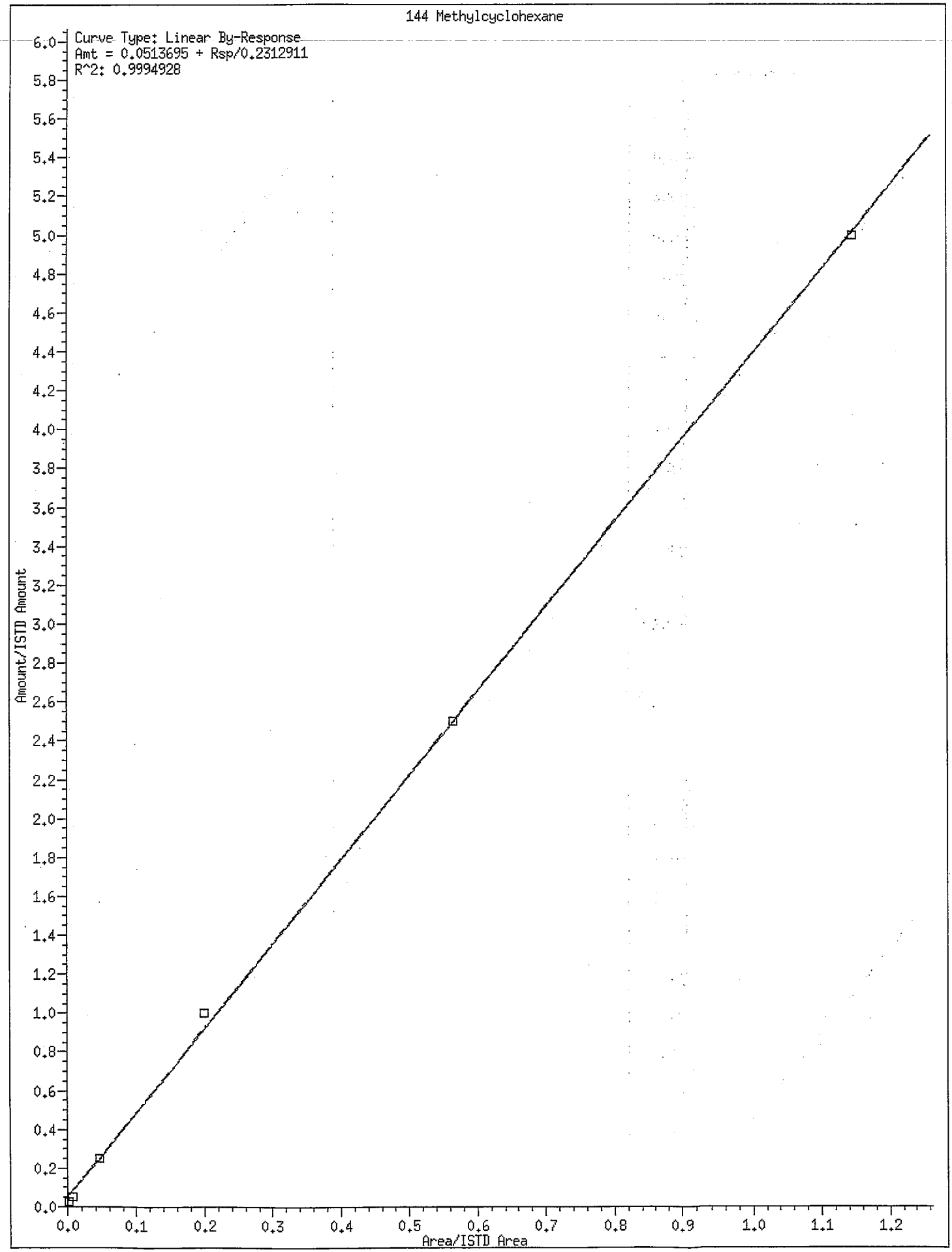

66 Bromoform
Curve Type: Linear By-Response
Amt = 0.1704656 + Rsp/0.1591844
R^2: 0.9968157
Amount/ISTD Amount
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60 8.00 8.40
Area/ISTD Area (x10^-1)


69 1,4-Dichloro-2-butene
Curve Type: Linear By-Response
Amt = 0.1937396 + Rsp/0.1561049
R^2: 0.9955451
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60 8.00


84 1,2-Dibromo-3-chloropropane
Curve Type: Linear By-Response
Amt = 0.091817 + Rsp/0.1482913
R^2: 0.9989691
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60 8.00


86 Hexachlorobutadiene
Curve Type: Linear By-Response
Amt = -9.02919e-002 + Rsp/0.234614
R^2: 0.9978402
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2


98 Cyclohexane
Curve Type: Linear By-Response
Amt = 0.0545795 + Rsp/0.3059985
R^2: 0.9994581
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6


144 Methylcyclohexane
Curve Type: Linear By-Response
Amt = 0.0513695 + Rsp/0.2312911
R^2: 0.9994928
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129062.D
Lab Smp Id: 500NG-IC
Inj Date : 11-NOV-2009 21:45
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 500NG-IC
Misc Info : T91111A,8260MIUX12,2-8260.SUB,1903,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Meth Date : 12-Nov-2009 15:15 laveyt Quant Type: ISTD
Cal Date : 06-NOV-2009 00:14 Cal File: UX128919.D
Als bottle: 6 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.378	5.378	(1.000)	938440	100.000	
* 2 Chlorobenzene-d5	117	8.052	8.052	(1.000)	798067	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	447918	100.000	
$ 4 Dibromofluoromethane	113	4.810	4.810	(0.894)	986706	500.000	500.30(A)
$ 5 1,2-Dichloroethane-d4	65	5.094	5.094	(0.947)	1236414	500.000	486.49
$ 6 Toluene-d8	98	6.727	6.727	(0.835)	4369736	500.000	499.73
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.137)	1824765	500.000	499.90
8 Dichlorodifluoromethane	85	1.662	1.662	(0.309)	991048	500.000	513.82(A)
9 Chloromethane	50	1.816	1.816	(0.338)	1418307	500.000	454.78
10 Vinyl Chloride	62	1.934	1.934	(0.360)	1577420	500.000	493.02
11 Bromomethane	94	2.218	2.218	(0.413)	1475148	500.000	494.64
12 Chloroethane	64	2.325	2.325	(0.432)	1759268	500.000	511.33(A)
13 Trichlorofluoromethane	101	2.538	2.538	(0.472)	2218299	500.000	504.28(A)
15 Acrolein	56	2.869	2.869	(0.534)	1814504	5000.00	5563.7(A)
16 Acetone	43	2.999	2.999	(0.558)	990883	1000.00	1005.6(A)
17 1,1-Dichloroethene	61	2.987	2.987	(0.556)	2214842	500.000	590.65(A)
18 Freon-113	101	2.987	2.987	(0.556)	1168907	500.000	502.55(A)
19 Iodomethane	142	3.141	3.141	(0.584)	2316855	500.000	551.58(A)
20 Carbon Disulfide	76	3.177	3.177	(0.591)	4186469	500.000	584.67(A)
21 Methylene Chloride	84	3.402	3.402	(0.633)	1515031	500.000	513.63(AM)
22 Acetonitrile	41	3.236	3.236	(0.602)	2219437	5000.00	4794.8
23 Acrylonitrile	53	3.567	3.567	(0.663)	1134477	1000.00	1060.6

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
	24 Methyl tert-butyl ether	73	3.591	3.591	(0.668)	3912358	500.000	545.96(A)
	25 trans-1,2-Dichloroethene	61	3.591	3.591	(0.668)	1582690	500.000	568.58(A)
	26 Hexane	57	3.804	3.804	(0.707)	715033	500.000	561.21(A)
	27 Vinyl acetate	43	3.970	3.970	(0.738)	1294228	500.000	538.38(A)
	152 Vinyl acetate - 86	86	3.970	3.970	(0.738)	162740	500.000	539.56(A)
	28 1,1-Dichloroethane	63	3.946	3.946	(0.734)	1783414	500.000	533.52(A)
	29 tert-Butyl Alcohol	59	3.449	3.449	(0.641)	3146163	10000.0	10408(A)
	30 2-Butanone	43	4.419	4.419	(0.822)	1120433	1000.00	997.47
M	31 1,2-Dichloroethene (total)	61				3152021	1000.00	1101.4
	32 cis-1,2-dichloroethene	61	4.419	4.419	(0.822)	1569331	500.000	532.77(A)
	33 2,2-Dichloropropane	77	4.419	4.419	(0.822)	898878	500.000	499.41
	34 Bromochloromethane	128	4.620	4.620	(0.859)	555092	500.000	552.89(A)
	35 Chloroform	83	4.679	4.679	(0.870)	1852661	500.000	538.04(A)
	36 Tetrahydrofuran	42	4.668	4.668	(0.868)	355274	500.000	498.82
	37 1,1,1-Trichloroethane	97	4.845	4.845	(0.901)	1333348	500.000	498.91
	38 1,1-Dichloropropene	75	4.975	4.975	(0.925)	1392601	500.000	499.98
	39 Carbon Tetrachloride	117	4.987	4.987	(0.927)	1050271	500.000	501.22(A)
	40 1,2-Dichloroethane	62	5.165	5.165	(0.960)	1528587	500.000	515.78(A)
	41 Benzene	78	5.153	5.153	(0.958)	4710146	500.000	537.63(A)
	42 Trichloroethene	130	5.685	5.685	(1.057)	1150009	500.000	535.24(A)
	43 1,2-Dichloropropane	63	5.875	5.875	(1.092)	1076256	500.000	528.58(A)
	44 1,4-Dioxane	88	5.993	5.993	(1.114)	895365	25000.0	24938
	45 Dibromomethane	93	5.981	5.981	(1.112)	681759	500.000	539.97(A)
	46 Bromodichloromethane	83	6.099	6.099	(1.134)	1312623	500.000	502.06(A)
	47 2-Chloroethyl vinyl ether	63	6.348	6.348	(1.180)	1648255	1000.00	1126.4(A)
	48 cis-1,3-Dichloropropene	75	6.490	6.490	(1.207)	1761746	500.000	501.97(A)
	49 4-Methyl-2-pentanone	43	6.608	6.608	(1.229)	2316289	1000.00	1104.5(A)
	50 Toluene	91	6.786	6.786	(0.843)	5320977	500.000	544.66(A)
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(0.866)	1748159	500.000	501.14(A)
	52 Ethyl Methacrylate	69	7.034	7.034	(0.874)	1776091	500.000	500.10(A)
	53 1,1,2-Trichloroethane	97	7.141	7.141	(0.887)	1092901	500.000	521.23(A)
	54 1,3-Dichloropropane	76	7.295	7.295	(0.906)	2062909	500.000	526.68(A)
	55 Tetrachloroethene	164	7.283	7.283	(0.904)	831479	500.000	529.45(A)
	56 2-Hexanone	43	7.354	7.354	(0.913)	1698656	1000.00	1110.2(A)
	57 Dibromochloromethane	129	7.508	7.508	(0.932)	992139	500.000	503.00(A)
	58 1,2-Dibromoethane	107	7.626	7.626	(0.947)	1127407	500.000	523.26(A)
	59 Chlorobenzene	112	8.076	8.076	(1.003)	3563742	500.000	513.44(A)
	60 1,1,1,2-Tetrachloroethane	131	8.147	8.147	(1.012)	1129123	500.000	587.56(A)
	61 Ethylbenzene	91	8.158	8.158	(1.013)	5877796	500.000	559.89(A)
	62 m + p-Xylene	91	8.277	8.277	(1.028)	9676288	1000.00	1164.0(A)
M	63 Xylenes (total)	91				14694336	1500.00	1742.1
	64 Xylene-o	91	8.655	8.655	(1.075)	5018048	500.000	578.09(A)
	65 Styrene	104	8.667	8.667	(1.076)	4500123	500.000	503.70(A)
	66 Bromoform	173	8.857	8.857	(1.100)	620037	500.000	505.11(A)
	67 Isopropylbenzene	105	8.999	8.999	(1.118)	5073493	500.000	581.61(A)
	68 1,1,2,2-Tetrachloroethane	83	9.282	9.282	(0.902)	1713401	500.000	534.47(A)
	69 1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	340988	500.000	507.04(A)
	70 1,2,3-Trichloropropane	110	9.330	9.330	(0.907)	544011	500.000	520.82(A)
	71 Bromobenzene	156	9.306	9.306	(0.905)	1588605	500.000	524.18(A)
	72 n-Propylbenzene	91	9.401	9.401	(0.914)	5641257	500.000	567.25(A)
	73 2-Chlorotoluene	126	9.495	9.495	(0.923)	1308782	500.000	518.91(A)
	74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	4125520	500.000	567.12(A)
	75 4-Chlorotoluene	126	9.602	9.602	(0.933)	1430786	500.000	525.50(A)
	76 tert-Butylbenzene	119	9.886	9.886	(0.961)	3268944	500.000	547.00(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	4474081	500.000	577.24(A)
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	4439719	500.000	572.25(A)
79 4-Isopropyltoluene	119	10.241	10.241	(0.995)	3901666	500.000	572.47(A)
80 1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	2713983	500.000	506.87(A)
81 1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	2900641	500.000	490.34
82 n-Butylbenzene	91	10.655	10.655	(1.036)	3196407	500.000	543.63(A)
83 1,2-Dichlorobenzene	146	10.691	10.691	(1.039)	2783782	500.000	509.09(A)
84 1,2-Dibromo-3-chloropropane	157	11.460	11.460	(1.114)	326876	500.000	501.30(A)
85 1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	1500296	500.000	503.87(A)
86 Hexachlorobutadiene	225	12.454	12.454	(1.210)	525211	500.000	490.75
87 Naphthalene	128	12.548	12.548	(1.220)	5394928	500.000	578.94(A)
88 1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	1427385	500.000	487.40
98 Cyclohexane	56	4.892	4.892	(0.910)	1423857	500.000	501.30(A)
143 Methyl Acetate	43	3.271	3.271	(0.608)	2737552	1000.00	980.02
144 Methylcyclohexane	83	5.851	5.851	(1.088)	1077586	500.000	501.60(A)
141 1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	1489253	500.000	489.57

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129062.D
Report Date: 12-Nov-2009 17:35

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

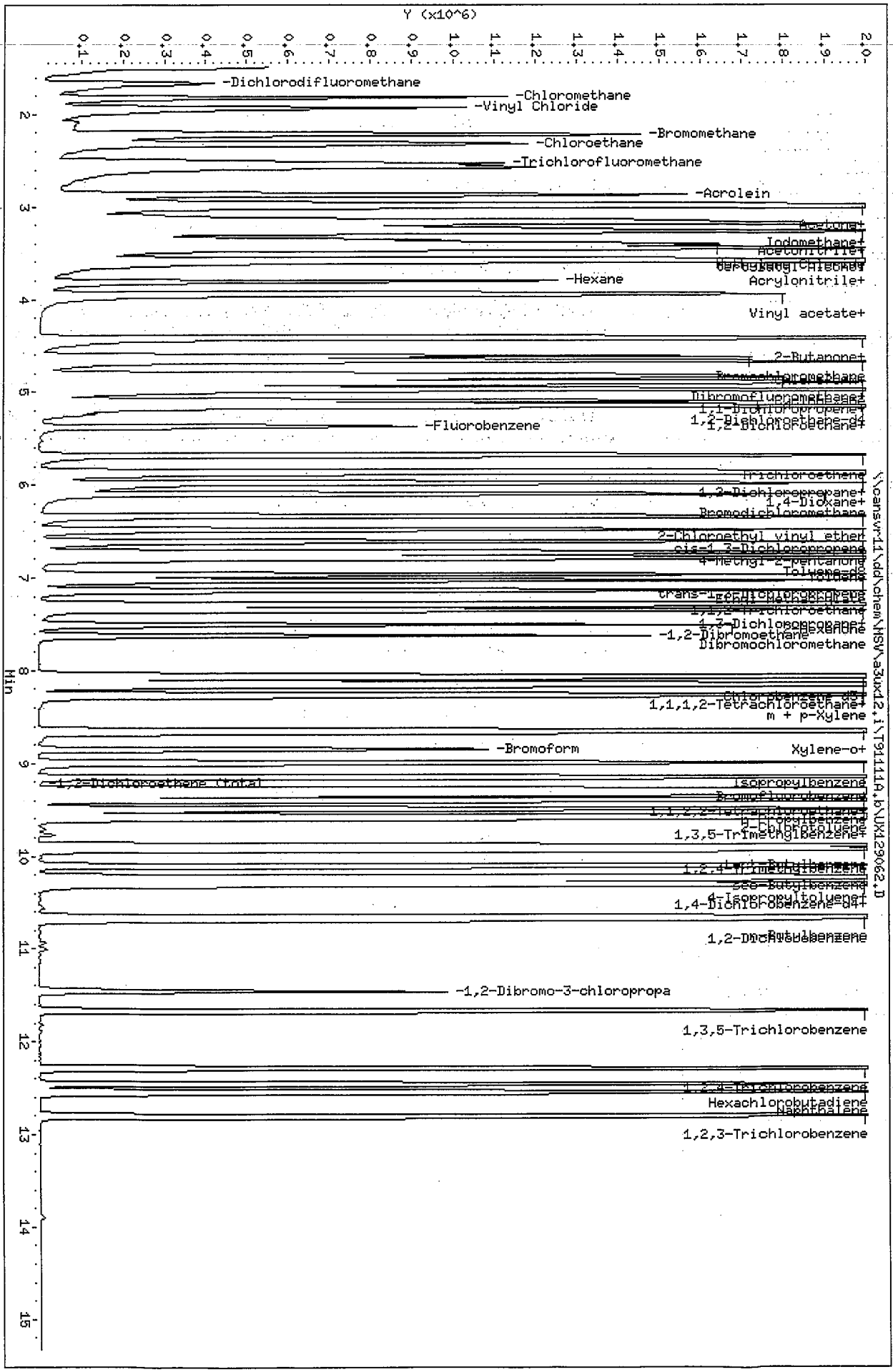
Instrument ID: a3ux12.i
Lab File ID: UX129062.D
Lab Smp Id: 500NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,1,7

Calibration Date: 11-NOV-2009
Calibration Time: 22:30
Level: LOW
Sample Type: WATER

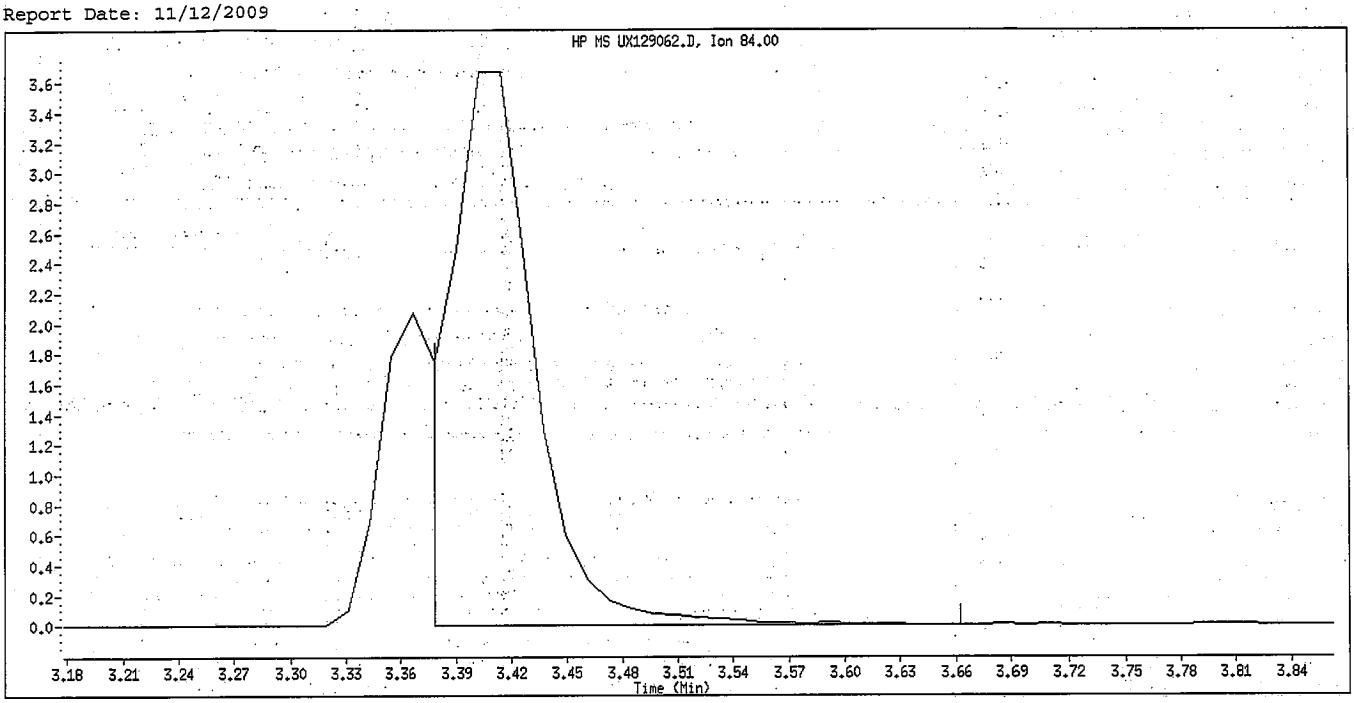
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	951542	475771	1903084	938440	-1.38
2 Chlorobenzene-d5	782184	391092	1564368	798067	2.03
3 1,4-Dichlorobenze	434949	217475	869898	447918	2.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.38	4.88	5.88	5.38	-0.00
2 Chlorobenzene-d5	8.05	7.55	8.55	8.05	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

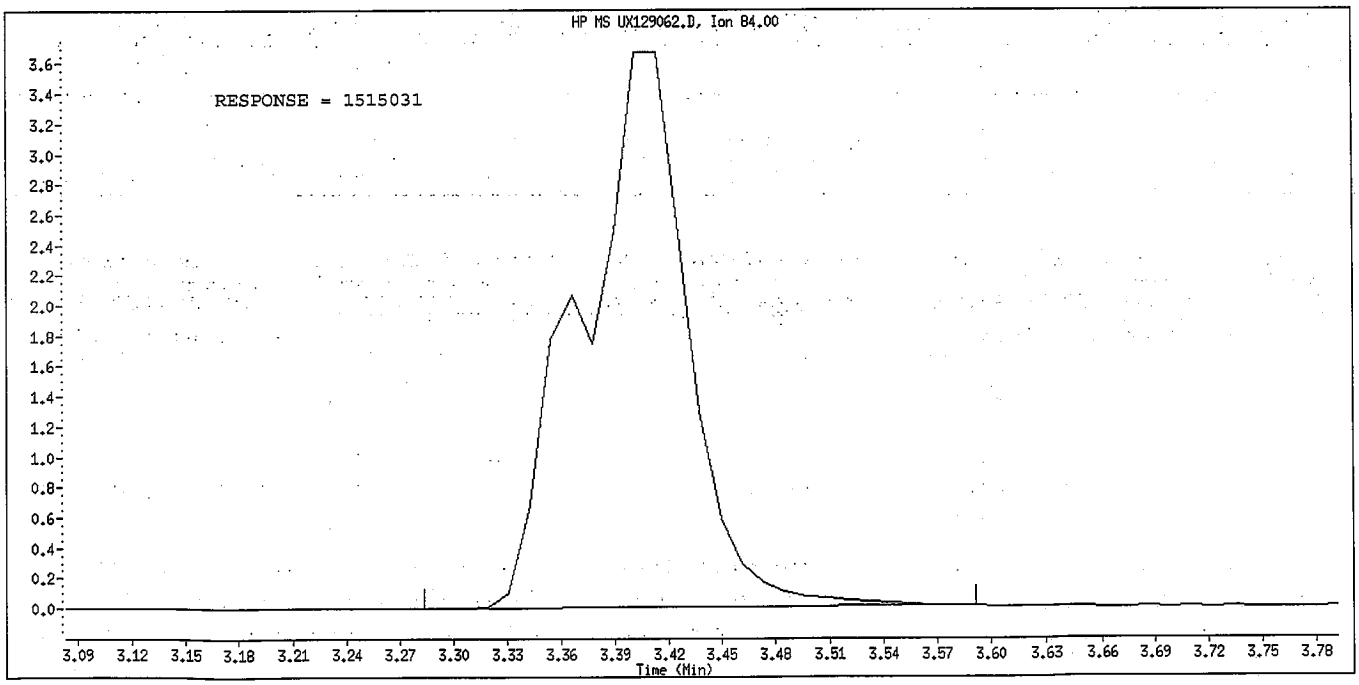
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129062.D
Date : 11-NOV-2009 21:45
Client ID:
Sample Info: 500NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
Acetone+
Iodomethane+
Acetonitrile+
Carbon disulfide+
Acrylonitrile+
-Hexane
Vinyl acetate+
2-Butanone+
Bromochloromethane
Dibromofluoromethane+
1,1-Dichloropropene+
1,2-Dichloroethane-d4
1,2-Dichloroethane+
-Fluorobenzene
Trichloroethene
1,2-Dichloropropane+
1,4-Dioxane+
Bromodichloromethane
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene-d8
Toluene
trans-1,3-Dichloropropene
Ethyl Methacrylate
1,1,2-Trichloroethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Dibromochloromethane
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-1,2-Dichloroethene (total)
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane
n-Propylbenzene
2-Chlorotoluene+
1,3,5-Trimethylbenzene+
4-Chlorotoluene+
tert-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
1,2-Dichlorobenzene
n-Butylbenzene
-1,2-Dibromo-3-chloropropa
1,3,5-Trichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129062.D

Data File Name: UX129062.D
Inj. Date and Time: 11-NOV-2009 21:45
Instrument ID: a3ux12.i
Client ID:
Compound Name: Methylene Chloride
CAS #: 75-09-2
Report Date: 11/12/2009



Original Integration



Manual Integration

Manually Integrated By: laveyt
Manual Integration Reason: Split Peak

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129063.D
Lab Smp Id: 250NG-IC
Inj Date : 11-NOV-2009 22:07
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 250NG-IC
Misc Info : T91111A,8260MIUX12,2-8260.SUB,1903,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Meth Date : 12-Nov-2009 15:15 laveyt Quant Type: ISTD
Cal Date : 06-NOV-2009 00:40 Cal File: UX128920.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.377	5.377	(1.000)	951050	100.000	
*	2 Chlorobenzene-d5	117	8.052	8.052	(1.000)	780759	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	450396	100.000	
$	4 Dibromofluoromethane	113	4.810	4.810	(0.894)	505000	250.000	252.66
$	5 1,2-Dichloroethane-d4	65	5.093	5.093	(0.947)	625743	250.000	242.95
$	6 Toluene-d8	98	6.726	6.726	(0.835)	2156637	250.000	252.10
$	7 Bromofluorobenzene	95	9.152	9.152	(1.137)	908294	250.000	254.34
	8 Dichlorodifluoromethane	85	1.662	1.662	(0.309)	531684	250.000	272.00
	9 Chloromethane	50	1.816	1.816	(0.338)	776448	250.000	245.66
	10 Vinyl Chloride	62	1.922	1.922	(0.358)	856218	250.000	264.06
	11 Bromomethane	94	2.230	2.230	(0.415)	794100	250.000	265.48
	12 Chloroethane	64	2.325	2.325	(0.432)	773327	250.000	228.97
	13 Trichlorofluoromethane	101	2.538	2.538	(0.472)	1062680	250.000	242.44
	15 Acrolein	56	2.881	2.881	(0.536)	910017	2500.00	2753.3
	16 Acetone	43	2.999	2.999	(0.558)	495195	500.000	494.05
	17 1,1-Dichloroethene	61	2.987	2.987	(0.556)	1079627	250.000	284.09
	18 Freon-113	101	2.987	2.987	(0.556)	572895	250.000	247.35
	19 Iodomethane	142	3.141	3.141	(0.584)	1173082	250.000	275.58
	20 Carbon Disulfide	76	3.188	3.188	(0.593)	2077737	250.000	286.32
	21 Methylene Chloride	84	3.413	3.413	(0.635)	775985	250.000	257.21(M)
	22 Acetonitrile	41	3.236	3.236	(0.602)	1114352	2500.00	2375.5
	23 Acrylonitrile	53	3.567	3.567	(0.663)	577375	500.000	532.62

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129063.D
Report Date: 12-Nov-2009 17:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24	Methyl tert-butyl ether	73	3.591	3.591	(0.668)	1995430	250.000	274.77
25	trans-1,2-Dichloroethene	61	3.591	3.591	(0.668)	801523	250.000	284.13
26	Hexane	57	3.816	3.816	(0.710)	362692	250.000	280.89
27	Vinyl acetate	43	3.969	3.969	(0.738)	663193	250.000	272.22(A)
152	Vinyl acetate - 86	86	3.969	3.969	(0.738)	79679	250.000	260.67(A)
28	1,1-Dichloroethane	63	3.946	3.946	(0.734)	908641	250.000	268.22
29	tert-Butyl Alcohol	59	3.449	3.449	(0.641)	1602037	5000.00	5229.4(A)
30	2-Butanone	43	4.419	4.419	(0.822)	587244	500.000	509.34
M 31	1,2-Dichloroethene (total)	61				1590891	500.000	548.56
32	cis-1,2-dichloroethene	61	4.419	4.419	(0.822)	789368	250.000	264.43
33	2,2-Dichloropropane	77	4.431	4.431	(0.824)	458301	250.000	252.35
34	Bromochloromethane	128	4.620	4.620	(0.859)	286175	250.000	281.26
35	Chloroform	83	4.679	4.679	(0.870)	941927	250.000	269.92
36	Tetrahydrofuran	42	4.668	4.668	(0.868)	186868	250.000	254.51
37	1,1,1-Trichloroethane	97	4.845	4.845	(0.901)	685323	250.000	254.60
38	1,1-Dichloropropene	75	4.975	4.975	(0.925)	707598	250.000	252.31
39	Carbon Tetrachloride	117	4.987	4.987	(0.927)	525898	250.000	250.66
40	1,2-Dichloroethane	62	5.164	5.164	(0.960)	784745	250.000	261.28
41	Benzene	78	5.153	5.153	(0.958)	2352168	250.000	264.92
42	Trichloroethene	130	5.685	5.685	(1.057)	591419	250.000	271.61
43	1,2-Dichloropropane	63	5.874	5.874	(1.092)	547976	250.000	265.56
44	1,4-Dioxane	88	5.993	5.993	(1.114)	459503	12500.0	12790
45	Dibromomethane	93	5.981	5.981	(1.112)	346349	250.000	270.68
46	Bromodichloromethane	83	6.099	6.099	(1.134)	651853	250.000	248.75
47	2-Chloroethyl vinyl ether	63	6.348	6.348	(1.180)	816181	500.000	550.36
48	cis-1,3-Dichloropropene	75	6.490	6.490	(1.207)	875489	250.000	249.05
49	4-Methyl-2-pentanone	43	6.608	6.608	(1.229)	1172405	500.000	551.65
50	Toluene	91	6.786	6.786	(0.843)	2623638	250.000	274.51
51	trans-1,3-Dichloropropene	75	6.975	6.975	(0.866)	846717	250.000	251.13
52	Ethyl Methacrylate	69	7.034	7.034	(0.874)	869914	250.000	252.69
53	1,1,2-Trichloroethane	97	7.141	7.141	(0.887)	551752	250.000	268.98
54	1,3-Dichloropropane	76	7.294	7.294	(0.906)	1033230	250.000	269.64
55	Tetrachloroethene	164	7.283	7.283	(0.904)	415835	250.000	270.66
56	2-Hexanone	43	7.354	7.354	(0.913)	856224	500.000	571.99
57	Dibromochloromethane	129	7.507	7.507	(0.932)	470441	250.000	248.20
58	1,2-Dibromoethane	107	7.626	7.626	(0.947)	577221	250.000	273.84
59	Chlorobenzene	112	8.075	8.075	(1.003)	1750517	250.000	257.79
60	1,1,1,2-Tetrachloroethane	131	8.146	8.146	(1.012)	550595	250.000	292.86
61	Ethylbenzene	91	8.158	8.158	(1.013)	2832206	250.000	275.76
62	m + p-Xylene	91	8.277	8.277	(1.028)	4533101	500.000	557.39
M 63	Xylenes (total)	91				6911282	750.000	837.44
64	Xylene-o	91	8.655	8.655	(1.075)	2378181	250.000	280.04
65	Styrene	104	8.667	8.667	(1.076)	2117835	250.000	245.76
66	Bromoform	173	8.856	8.856	(1.100)	281414	250.000	243.47
67	Isopropylbenzene	105	8.998	8.998	(1.118)	2430590	250.000	284.81
68	1,1,2,2-Tetrachloroethane	83	9.282	9.282	(0.902)	846972	250.000	262.75
69	1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	154395	250.000	238.97
70	1,2,3-Trichloropropane	110	9.330	9.330	(0.907)	282357	250.000	268.84
71	Bromobenzene	156	9.306	9.306	(0.905)	795553	250.000	261.06
72	n-Propylbenzene	91	9.401	9.401	(0.914)	2735885	250.000	273.59
73	2-Chlorotoluene	126	9.495	9.495	(0.923)	654701	250.000	258.15
74	1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	2013814	250.000	275.31
75	4-Chlorotoluene	126	9.602	9.602	(0.933)	714015	250.000	260.80
76	tert-Butylbenzene	119	9.886	9.886	(0.961)	1615325	250.000	268.81

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	2155539	250.000	276.57
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	2186176	250.000	280.23
79 4-Isopropyltoluene	119	10.241	10.241	(0.995)	1912206	250.000	279.02
80 1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1342555	250.000	249.36
81 1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1433472	250.000	240.99
82 n-Butylbenzene	91	10.655	10.655	(1.036)	1609402	250.000	272.22
83 1,2-Dichlorobenzene	146	10.690	10.690	(1.039)	1377954	250.000	250.61
84 1,2-Dibromo-3-chloropropane	157	11.460	11.460	(1.114)	161329	250.000	250.73
85 1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	758582	250.000	253.36
86 Hexachlorobutadiene	225	12.454	12.454	(1.210)	291465	250.000	266.80
87 Naphthalene	128	12.548	12.548	(1.220)	2644079	250.000	282.18
88 1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	737380	250.000	250.40
98 Cyclohexane	56	4.892	4.892	(0.910)	712833	250.000	250.40
143 Methyl Acetate	43	3.271	3.271	(0.608)	1403154	500.000	495.66
144 Methylcyclohexane	83	5.851	5.851	(1.088)	537827	250.000	249.64
141 1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	757812	250.000	247.75

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129063.D
Report Date: 12-Nov-2009 17:35

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

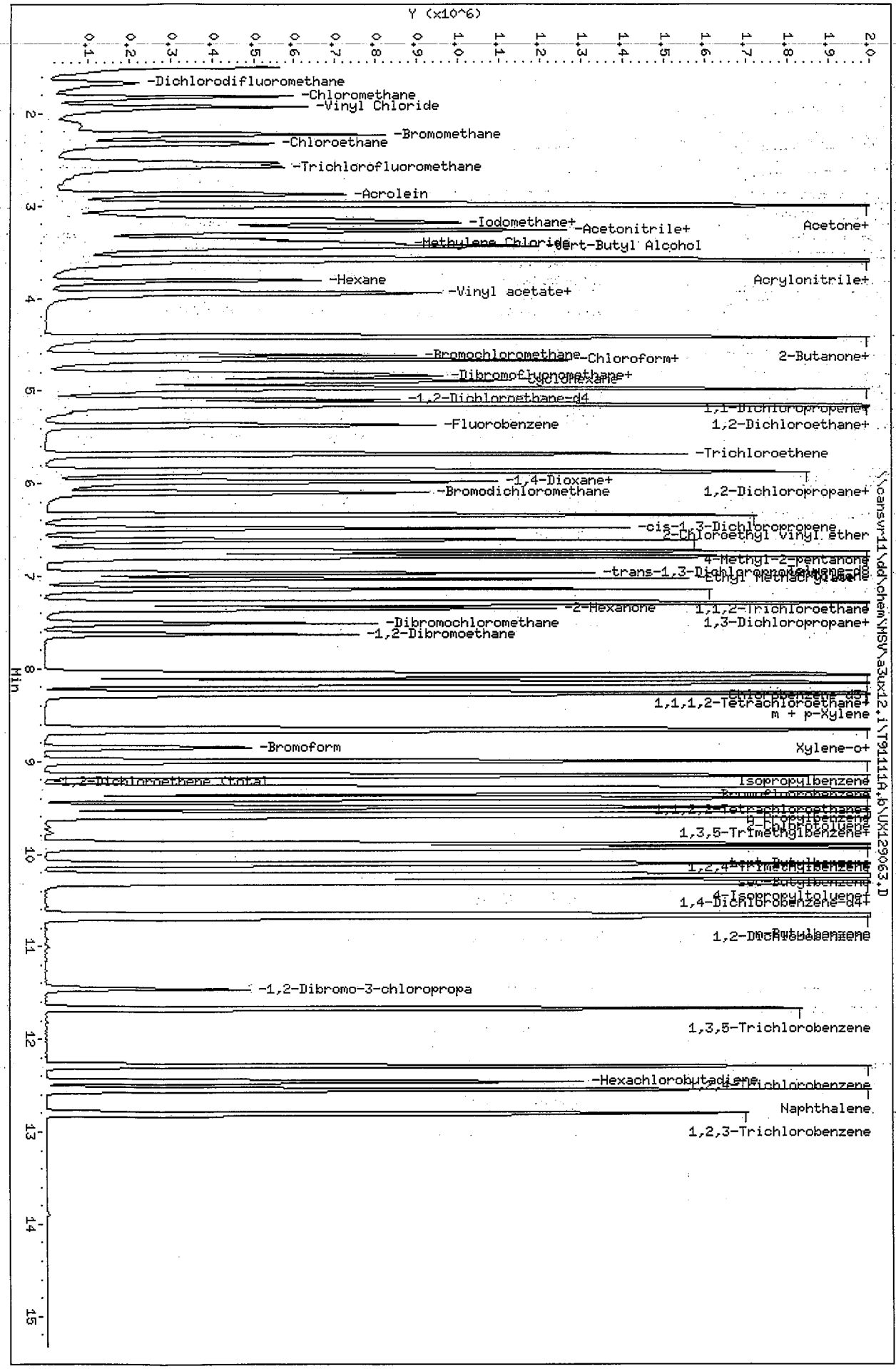
Instrument ID: a3ux12.i
Lab File ID: UX129063.D
Lab Smp Id: 250NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,1,6

Calibration Date: 11-NOV-2009
Calibration Time: 22:30
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	951542	475771	1903084	951050	-0.05
2 Chlorobenzene-d5	782184	391092	1564368	780759	-0.18
3 1,4-Dichlorobenze	434949	217475	869898	450396	3.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.38	4.88	5.88	5.38	-0.00
2 Chlorobenzene-d5	8.05	7.55	8.55	8.05	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

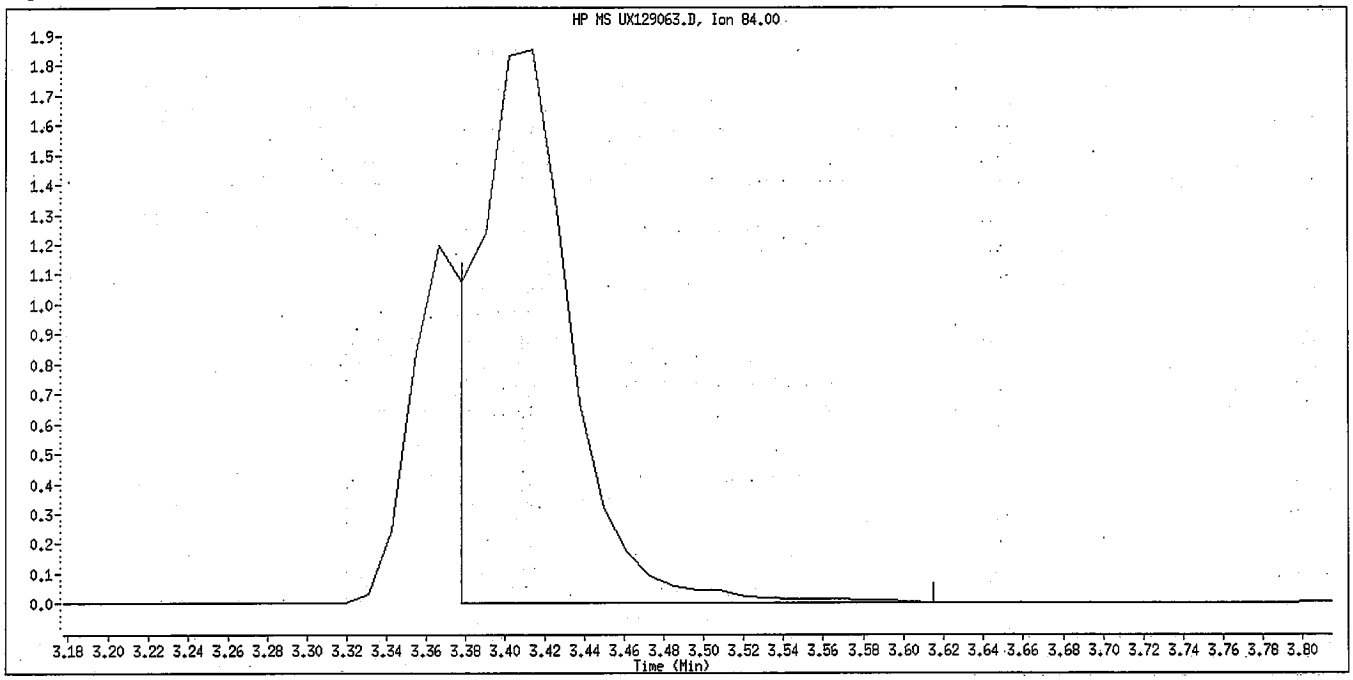
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



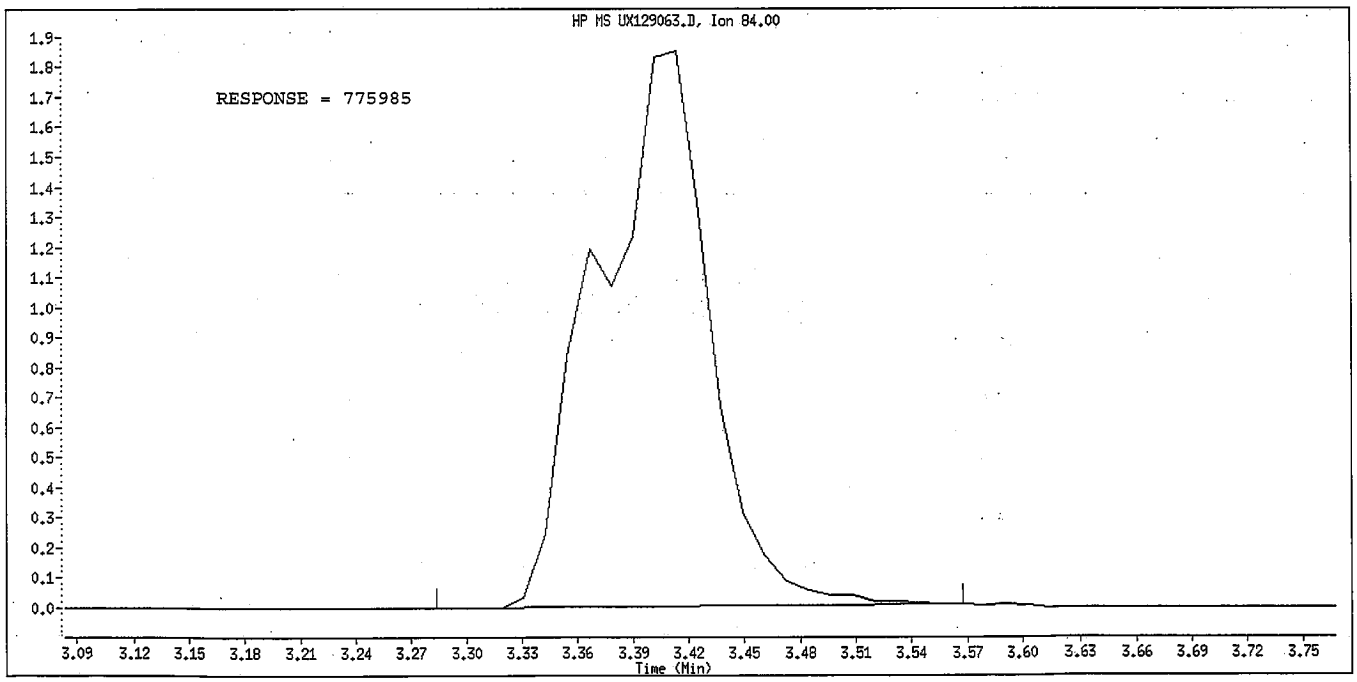
Data File: \\cansvr11\dd\chem\HSV\a3ux12,i\T91111A,b\UX129063.D
Date : 11-NOV-2009 22:07
Client ID:
Sample Info: 250NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux12,i
Operator: 1903
Column diameter: 0.18

Data File Name: UX129063.D
Inj. Date and Time: 11-NOV-2009 22:07
Instrument ID: a3ux12.i
Client ID:
Compound Name: Methylene Chloride
CAS #: 75-09-2
Report Date: 11/12/2009



Original Integration



Manual Integration

Manually Integrated By: laveyt
Manual Integration Reason: Split Peak

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Report Date: 12-Nov-2009 17:46

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Lab Smp Id: 100NG-IC
Inj Date : 11-NOV-2009 22:30
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 100NG-IC
Misc Info : T91111A,8260MIUX12,2-8260.SUB,1903,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Meth Date : 12-Nov-2009 17:46 laveyt Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV16

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.378	5.378	(1.000)	951542	100.000	
*	2 Chlorobenzene-d5	117	8.052	8.052	(1.000)	782184	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	434949	100.000	
$	4 Dibromofluoromethane	113	4.810	4.810	(0.894)	213714	100.000	106.87
$	5 1,2-Dichloroethane-d4	65	5.094	5.094	(0.947)	266537	100.000	103.43
$	6 Toluene-d8	98	6.727	6.727	(0.835)	924035	100.000	107.82
$	7 Bromofluorobenzene	95	9.152	9.152	(1.137)	366517	100.000	102.45
	8 Dichlorodifluoromethane	85	1.674	1.674	(0.311)	218735	100.000	111.84
	9 Chloromethane	50	1.828	1.828	(0.340)	328413	100.000	103.85
	10 Vinyl Chloride	62	1.922	1.922	(0.358)	344028	100.000	106.04
	11 Bromomethane	94	2.242	2.242	(0.417)	230831	100.000	81.265
	12 Chloroethane	64	2.337	2.337	(0.435)	248588	100.000	82.177
	13 Trichlorofluoromethane	101	2.550	2.550	(0.474)	396686	100.000	95.283
	15 Acrolein	56	2.881	2.881	(0.536)	322163	1000.00	974.23
	16 Acetone	43	3.011	3.011	(0.560)	185288	200.000	182.49
	17 1,1-Dichloroethene	61	2.999	2.999	(0.558)	380109	100.000	99.970
	18 Freon-113	101	2.999	2.999	(0.558)	200163	100.000	91.806
	19 Iodomethane	142	3.153	3.153	(0.586)	433656	100.000	101.82
	20 Carbon Disulfide	76	3.189	3.189	(0.593)	730484	100.000	100.61
	21 Methylene Chloride	84	3.413	3.413	(0.635)	301733	100.000	97.395(M)
	22 Acetonitrile	41	3.248	3.248	(0.604)	416660	1000.00	887.75
	23 Acrylonitrile	53	3.567	3.567	(0.663)	217065	200.000	200.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.591	3.591	(0.668)	736693	100.000	101.39
	25 trans-1,2-Dichloroethene	61	3.591	3.591	(0.668)	284889	100.000	100.94
	26 Hexane	57	3.816	3.816	(0.710)	127205	100.000	98.465
	27 Vinyl acetate	43	3.970	3.970	(0.738)	243761	100.000	100.00
	152 Vinyl acetate - 86	86	3.970	3.970	(0.738)	29325	100.000	95.888(A)
	28 1,1-Dichloroethane	63	3.946	3.946	(0.734)	337005	100.000	99.428
	29 tert-Butyl Alcohol	59	3.449	3.449	(0.641)	592663	2000.00	1933.6(A)
	30 2-Butanone	43	4.431	4.431	(0.824)	226717	200.000	188.24
M	31 1,2-Dichloroethene (total)	61				583022	200.000	200.76
	32 cis-1,2-dichloroethene	61	4.419	4.419	(0.822)	298133	100.000	99.819
	33 2,2-Dichloropropane	77	4.431	4.431	(0.824)	173800	100.000	97.019
	34 Bromochloromethane	128	4.620	4.620	(0.859)	107190	100.000	105.29
	35 Chloroform	83	4.680	4.680	(0.870)	351445	100.000	100.66
	36 Tetrahydrofuran	42	4.668	4.668	(0.868)	73236	100.000	94.156
	37 1,1,1-Trichloroethane	97	4.845	4.845	(0.901)	245659	100.000	93.252
	38 1,1-Dichloropropene	75	4.975	4.975	(0.925)	256946	100.000	93.664
	39 Carbon Tetrachloride	117	4.987	4.987	(0.927)	182957	100.000	91.047
	40 1,2-Dichloroethane	62	5.165	5.165	(0.960)	289271	100.000	96.264
	41 Benzene	78	5.153	5.153	(0.958)	861090	100.000	96.935
	42 Trichloroethene	130	5.685	5.685	(1.057)	216449	100.000	99.354
	43 1,2-Dichloropropane	63	5.875	5.875	(1.092)	201569	100.000	97.633
	44 1,4-Dioxane	88	5.993	5.993	(1.114)	152319	5000.00	4455.9
	45 Dibromomethane	93	5.981	5.981	(1.112)	129862	100.000	101.44
	46 Bromodichloromethane	83	6.099	6.099	(1.134)	230973	100.000	91.559
	47 2-Chloroethyl vinyl ether	63	6.348	6.348	(1.180)	300885	200.000	202.79
	48 cis-1,3-Dichloropropene	75	6.490	6.490	(1.207)	307635	100.000	91.159
	49 4-Methyl-2-pentanone	43	6.608	6.608	(1.229)	434408	200.000	204.29
	50 Toluene	91	6.798	6.798	(0.844)	964115	100.000	100.69
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(0.866)	290883	100.000	90.049
	52 Ethyl Methacrylate	69	7.034	7.034	(0.874)	306598	100.000	91.903
	53 1,1,2-Trichloroethane	97	7.141	7.141	(0.887)	205952	100.000	100.22
	54 1,3-Dichloropropane	76	7.295	7.295	(0.906)	384542	100.000	100.17
	55 Tetrachloroethene	164	7.283	7.283	(0.904)	152007	100.000	98.757
	56 2-Hexanone	43	7.354	7.354	(0.913)	308385	200.000	205.64
	57 Dibromochloromethane	129	7.508	7.508	(0.932)	152910	100.000	86.299
	58 1,2-Dibromoethane	107	7.626	7.626	(0.947)	209248	100.000	99.090
	59 Chlorobenzene	112	8.076	8.076	(1.003)	647661	100.000	95.206
	60 1,1,1,2-Tetrachloroethane	131	8.147	8.147	(1.012)	188677	100.000	100.17
	61 Ethylbenzene	91	8.170	8.170	(1.015)	1005375	100.000	97.712
	62 m + p-Xylene	91	8.277	8.277	(1.028)	1580882	200.000	194.03
M	63 Xylenes (total)	91				2423868	300.000	293.12
	64 Xylene-o	91	8.655	8.655	(1.075)	842986	100.000	99.086
	65 Styrene	104	8.667	8.667	(1.076)	736901	100.000	89.693
	66 Bromoform	173	8.857	8.857	(1.100)	82936	100.000	83.656
	67 Isopropylbenzene	105	8.999	8.999	(1.118)	844914	100.000	98.825
	68 1,1,2,2-Tetrachloroethane	83	9.283	9.283	(0.902)	311539	100.000	100.08
	69 1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	43006	100.000	82.713
	70 1,2,3-Trichloropropane	110	9.330	9.330	(0.907)	98627	100.000	97.239
	71 Bromobenzene	156	9.306	9.306	(0.905)	284642	100.000	96.722
	72 n-Propylbenzene	91	9.401	9.401	(0.914)	951046	100.000	98.483
	73 2-Chlorotoluene	126	9.496	9.496	(0.923)	236443	100.000	96.541
	74 1,3,5-Trimethylbenzene	105	9.567	9.567	(0.930)	695918	100.000	98.518
	75 4-Chlorotoluene	126	9.602	9.602	(0.933)	254803	100.000	96.374
	76 tert-Butylbenzene	119	9.886	9.886	(0.961)	566100	100.000	97.552

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
77	1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	755442	100.000	100.37
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	743131	100.000	98.641
79	4-Isopropyltoluene	119	10.241	10.241	(0.995)	646713	100.000	97.718
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	489554	100.000	94.156
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	525367	100.000	91.459
82	n-Butylbenzene	91	10.655	10.655	(1.036)	548473	100.000	96.064
83	1,2-Dichlorobenzene	146	10.691	10.691	(1.039)	504613	100.000	95.033
84	1,2-Dibromo-3-chloropropane	157	11.460	11.460	(1.114)	51608	100.000	89.195
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	272429	100.000	94.222
86	Hexachlorobutadiene	225	12.454	12.454	(1.210)	111337	100.000	100.08
87	Naphthalene	128	12.548	12.548	(1.220)	919675	100.000	101.63
88	1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	263615	100.000	92.698
98	Cyclohexane	56	4.893	4.893	(0.910)	249774	100.000	91.241
143	Methyl Acetate	43	3.271	3.271	(0.608)	534595	200.000	188.74
144	Methylcyclohexane	83	5.851	5.851	(1.088)	190574	100.000	91.729
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	275556	100.000	93.286

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Report Date: 12-Nov-2009 17:46

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX129064.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Calibration Date: 11-NOV-2009
Calibration Time: 22:30
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,1,5

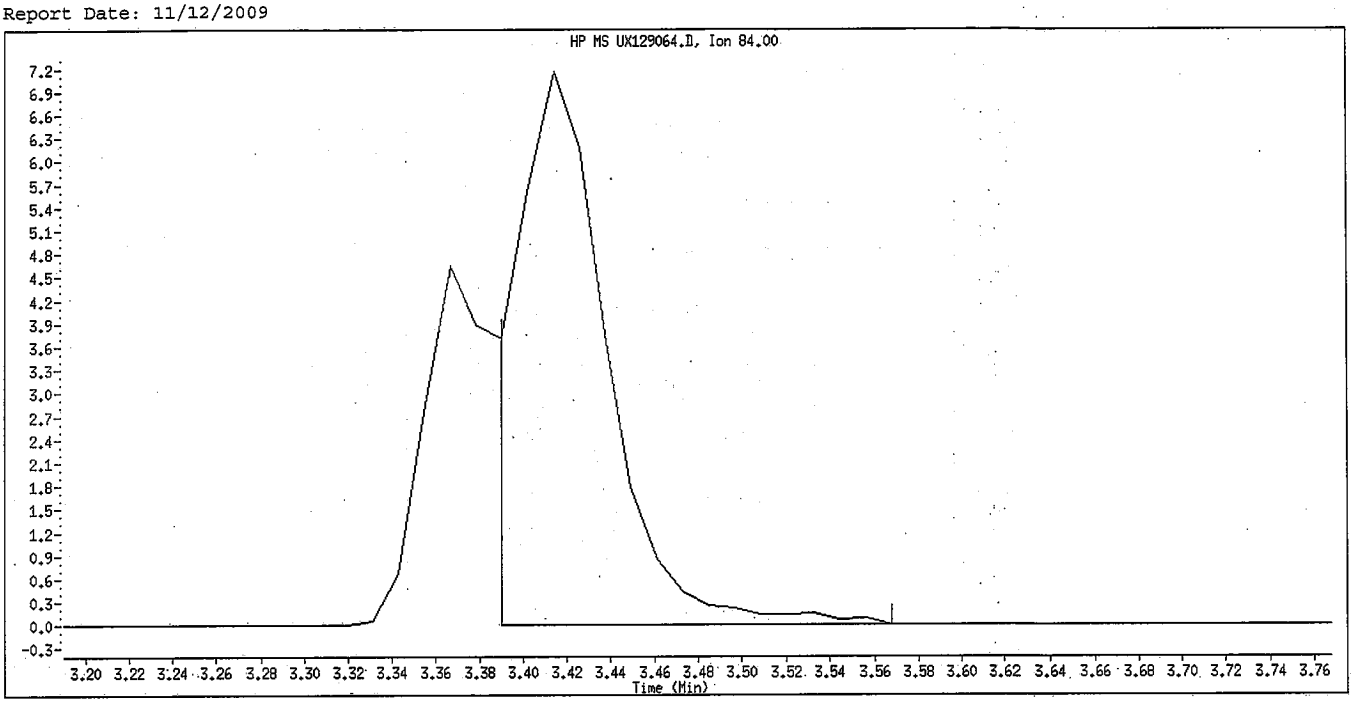
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	951542	475771	1903084	951542	0.00
2 Chlorobenzene-d5	782184	391092	1564368	782184	0.00
3 1,4-Dichlorobenze	434949	217475	869898	434949	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.38	4.88	5.88	5.38	0.00
2 Chlorobenzene-d5	8.05	7.55	8.55	8.05	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

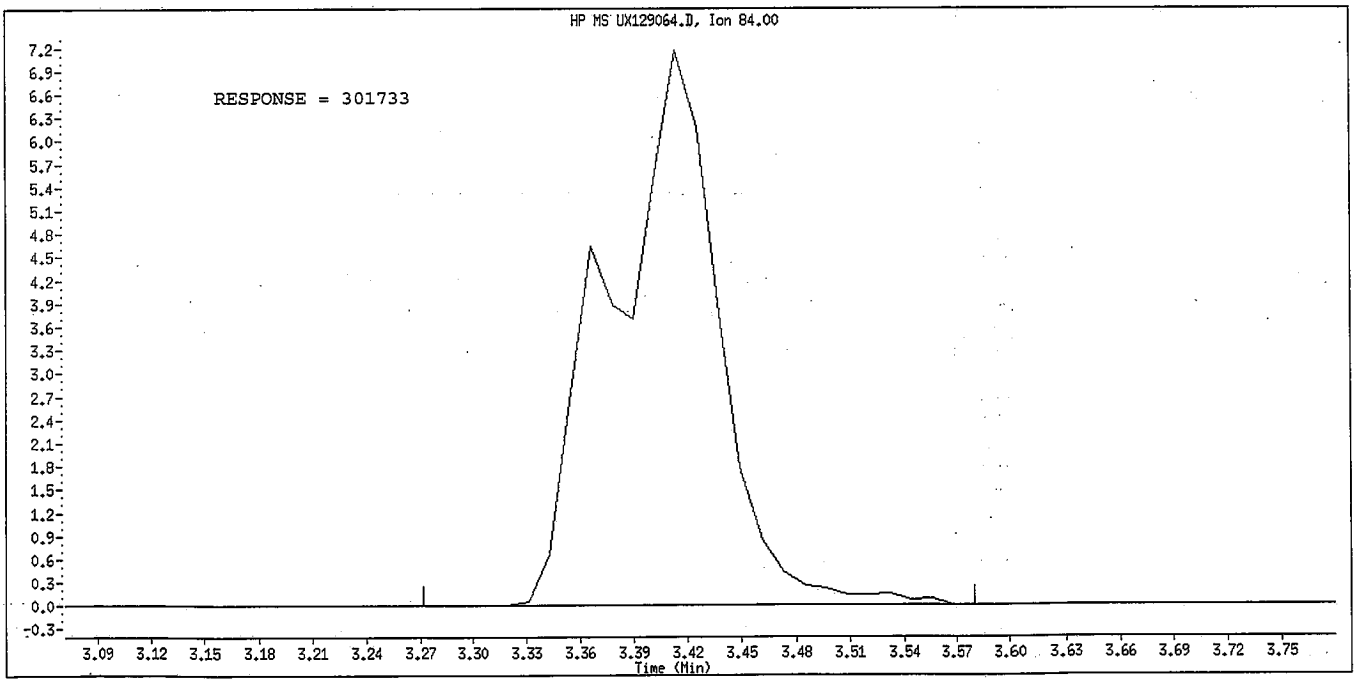
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Date : 11-NOV-2009 22:30
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Acetonitrile+
-tert-Butyl Alcohol+
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m + p-Xylene
Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
1,2-Dichloroethane (total)
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File Name: UX129064.D
Inj. Date and Time: 11-NOV-2009 22:30
Instrument ID: a3ux12.i
Client ID:
Compound Name: Methylene Chloride
CAS #: 75-09-2
Report Date: 11/12/2009



Original Integration



Manual Integration

Manually Integrated By: laveyt
Manual Integration Reason: Split Peak

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129065.D
Report Date: 12-Nov-2009 17:36

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129065.D
Lab Smp Id: 25NG-IC
Inj Date : 11-NOV-2009 22:55
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 25NG-IC
Misc Info : T91111A,8260MIUX12,2-8260.SUB,1903,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Meth Date : 12-Nov-2009 15:15 laveyt Quant Type: ISTD
Cal Date : 06-NOV-2009 01:27 Cal File: UX128922.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	5.378	5.378	(1.000)	923953	100.000	
*	2 Chlorobenzene-d5	117	8.052	8.052	(1.000)	751286	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	412559	100.000	
$	4 Dibromofluoromethane	113	4.810	4.810	(0.894)	45923	25.0000	23.650
$	5 1,2-Dichloroethane-d4	65	5.094	5.094	(0.947)	61060	25.0000	24.402
$	6 Toluene-d8	98	6.727	6.727	(0.835)	198378	25.0000	24.099
$	7 Bromofluorobenzene	95	9.152	9.152	(1.137)	86415	25.0000	25.148
	8 Dichlorodifluoromethane	85	1.662	1.662	(0.309)	44259	25.0000	23.306
	9 Chloromethane	50	1.816	1.816	(0.338)	82044	25.0000	26.720
	10 Vinyl Chloride	62	1.922	1.922	(0.358)	79857	25.0000	25.350
	11 Bromomethane	94	2.242	2.242	(0.417)	55877	25.0000	24.635
	12 Chloroethane	64	2.337	2.337	(0.435)	60241	25.0000	30.031
	13 Trichlorofluoromethane	101	2.550	2.550	(0.474)	87263	25.0000	27.548
	15 Acrolein	56	2.881	2.881	(0.536)	78503	250.000	244.48
	16 Acetone	43	3.011	3.011	(0.560)	51495	50.0000	49.645
	17 1,1-Dichloroethene	61	2.999	2.999	(0.558)	87276	25.0000	23.639
	18 Freon-113	101	2.999	2.999	(0.558)	43310	25.0000	26.941
	19 Iodomethane	142	3.153	3.153	(0.586)	100320	25.0000	24.258
	20 Carbon Disulfide	76	3.189	3.189	(0.593)	165006	25.0000	23.406
	21 Methylene Chloride	84	3.413	3.413	(0.635)	76722	25.0000	24.849(M)
	22 Acetonitrile	41	3.248	3.248	(0.604)	112826	250.000	247.57
	23 Acrylonitrile	53	3.567	3.567	(0.663)	51260	50.0000	48.673

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129065.D
Report Date: 12-Nov-2009 17:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.591	3.591	(0.668)	165792	25.0000	23.499
	25 trans-1,2-Dichloroethene	61	3.591	3.591	(0.668)	64970	25.0000	23.706
	26 Hexane	57	3.816	3.816	(0.710)	28921	25.0000	23.055
	27 Vinyl acetate	43	3.969	3.969	(0.738)	57946	25.0000	24.483
	152 Vinyl acetate - 86	86	3.969	3.969	(0.738)	6825	25.0000	22.983(A)
	28 1,1-Dichloroethane	63	3.946	3.946	(0.734)	79253	25.0000	24.081
	29 tert-Butyl Alcohol	59	3.449	3.449	(0.641)	142609	500.000	479.16(A)
	30 2-Butanone	43	4.431	4.431	(0.824)	63662	50.0000	44.836
M	31 1,2-Dichloroethene (total)	61				136817	50.0000	48.480
	32 cis-1,2-dichloroethene	61	4.419	4.419	(0.822)	71847	25.0000	24.774
	33 2,2-Dichloropropane	77	4.431	4.431	(0.824)	39257	25.0000	24.263
	34 Bromochloromethane	128	4.620	4.620	(0.859)	23613	25.0000	23.888
	35 Chloroform	83	4.679	4.679	(0.870)	82833	25.0000	24.433
	36 Tetrahydrofuran	42	4.668	4.668	(0.868)	21635	25.0000	22.311
	37 1,1,1-Trichloroethane	97	4.845	4.845	(0.901)	55147	25.0000	23.998
	38 1,1-Dichloropropene	75	4.975	4.975	(0.925)	59243	25.0000	24.742
	39 Carbon Tetrachloride	117	4.987	4.987	(0.927)	37152	25.0000	23.754
	40 1,2-Dichloroethane	62	5.165	5.165	(0.960)	70427	25.0000	24.136
	41 Benzene	78	5.153	5.153	(0.958)	205047	25.0000	23.772
	42 Trichloroethene	130	5.685	5.685	(1.057)	50854	25.0000	24.040
	43 1,2-Dichloropropane	63	5.875	5.875	(1.092)	48687	25.0000	24.286
	44 1,4-Dioxane	88	5.993	5.993	(1.114)	37996	1250.00	1387.5
	45 Dibromomethane	93	5.981	5.981	(1.112)	30531	25.0000	24.560
	46 Bromodichloromethane	83	6.099	6.099	(1.134)	49241	25.0000	24.287
	47 2-Chloroethyl vinyl ether	63	6.348	6.348	(1.180)	70285	50.0000	48.784
	48 cis-1,3-Dichloropropene	75	6.490	6.490	(1.207)	65696	25.0000	24.489
	49 4-Methyl-2-pentanone	43	6.608	6.608	(1.229)	99691	50.0000	48.283
	50 Toluene	91	6.798	6.798	(0.844)	223899	25.0000	24.346
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(0.866)	58956	25.0000	23.724
	52 Ethyl Methacrylate	69	7.034	7.034	(0.874)	63866	25.0000	23.562
	53 1,1,2-Trichloroethane	97	7.141	7.141	(0.887)	49166	25.0000	24.908
	54 1,3-Dichloropropane	76	7.295	7.295	(0.906)	88732	25.0000	24.064
	55 Tetrachloroethene	164	7.283	7.283	(0.904)	35260	25.0000	23.850
	56 2-Hexanone	43	7.354	7.354	(0.913)	70713	50.0000	49.092
	57 Dibromochloromethane	129	7.508	7.508	(0.932)	30266	25.0000	24.568
	58 1,2-Dibromoethane	107	7.626	7.626	(0.947)	47041	25.0000	23.192
	59 Chlorobenzene	112	8.076	8.076	(1.003)	155028	25.0000	23.726
	60 1,1,1,2-Tetrachloroethane	131	8.147	8.147	(1.012)	40267	25.0000	22.258
	61 Ethylbenzene	91	8.158	8.158	(1.013)	232809	25.0000	23.557
	62 m + p-Xylene	91	8.277	8.277	(1.028)	360790	50.0000	46.103
M	63 Xylenes (total)	91				554716	75.0000	69.835
	64 Xylene-o	91	8.655	8.655	(1.075)	193926	25.0000	23.732
	65 Styrene	104	8.667	8.667	(1.076)	158009	25.0000	25.186
	66 Bromoform	173	8.856	8.856	(1.100)	14633	25.0000	29.282
	67 Isopropylbenzene	105	8.998	8.998	(1.118)	188906	25.0000	23.004
	68 1,1,2,2-Tetrachloroethane	83	9.282	9.282	(0.902)	71390	25.0000	24.178
	69 1,4-Dichloro-2-butene	53	9.342	9.342	(0.908)	7153	25.0000	30.481
	70 1,2,3-Trichloropropane	110	9.330	9.330	(0.907)	23214	25.0000	24.129
	71 Bromobenzene	156	9.306	9.306	(0.905)	68602	25.0000	24.576
	72 n-Propylbenzene	91	9.401	9.401	(0.914)	213259	25.0000	23.282
	73 2-Chlorotoluene	126	9.495	9.495	(0.923)	56817	25.0000	24.458
	74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	156662	25.0000	23.382
	75 4-Chlorotoluene	126	9.602	9.602	(0.933)	59719	25.0000	23.813
	76 tert-Butylbenzene	119	9.886	9.886	(0.961)	129241	25.0000	23.480

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	167682	25.0000	23.488
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	172975	25.0000	24.206
79 4-Isopropyltoluene	119	10.241	10.241	(0.995)	147753	25.0000	23.537
80 1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	115728	25.0000	23.466
81 1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	126818	25.0000	23.275
82 n-Butylbenzene	91	10.655	10.655	(1.036)	128896	25.0000	23.801
83 1,2-Dichlorobenzene	146	10.691	10.691	(1.039)	119644	25.0000	23.755
84 1,2-Dibromo-3-chloropropane	157	11.460	11.460	(1.114)	10632	25.0000	26.560
85 1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	64372	25.0000	23.472
86 Hexachlorobutadiene	225	12.454	12.454	(1.210)	33881	25.0000	25.975
87 Naphthalene	128	12.548	12.548	(1.220)	196988	25.0000	22.951
88 1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	64078	25.0000	23.755
98 Cyclohexane	56	4.904	4.904	(0.912)	54775	25.0000	24.832
143 Methyl Acetate	43	3.271	3.271	(0.608)	132641	50.0000	48.229
144 Methylcyclohexane	83	5.863	5.863	(1.090)	41817	25.0000	24.705
141 1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	68286	25.0000	24.372

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129065.D
Report Date: 12-Nov-2009 17:36

TestAmerica North Canton

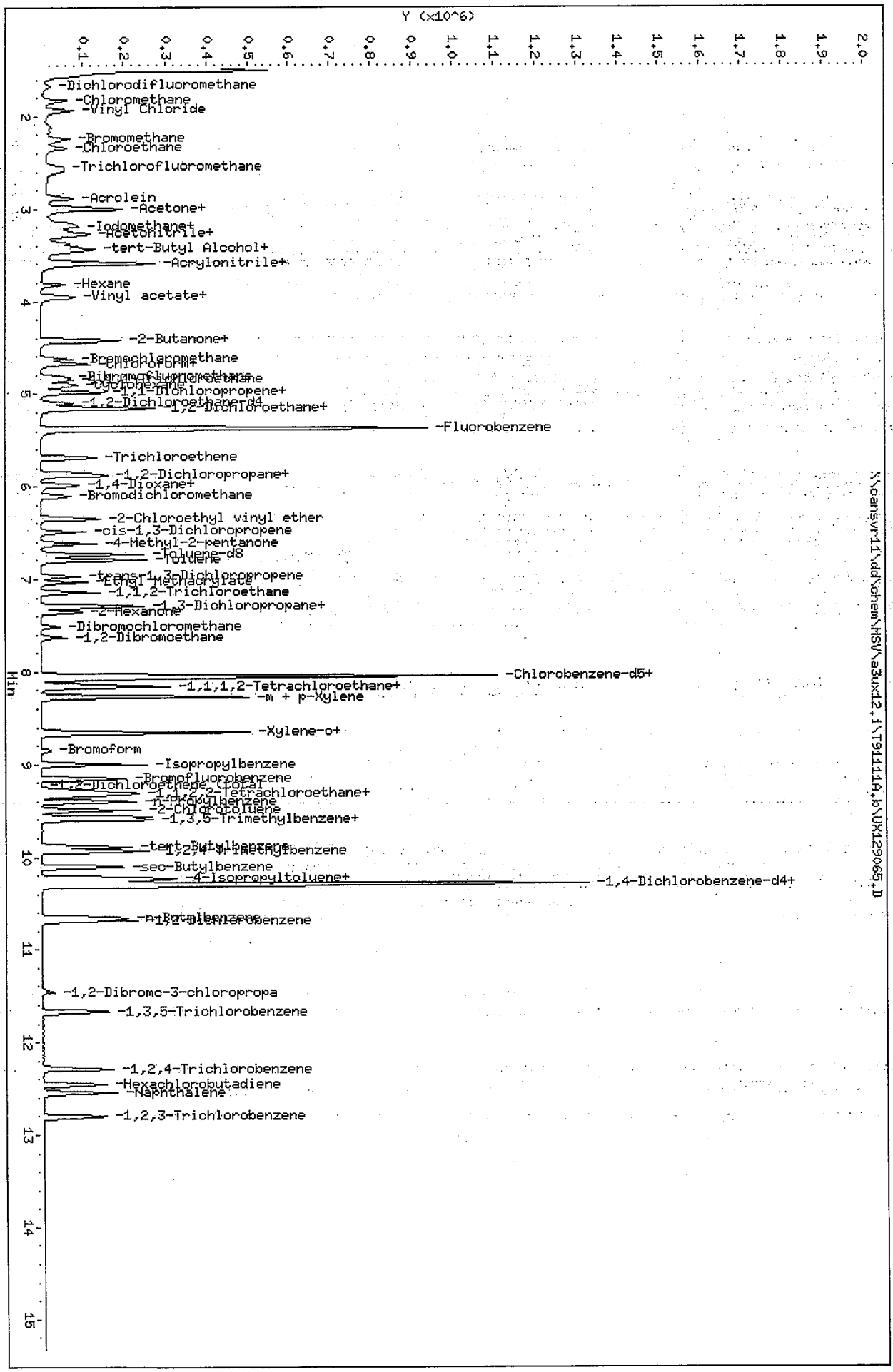
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX129065.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Calibration Date: 11-NOV-2009
Calibration Time: 22:30
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,1,3

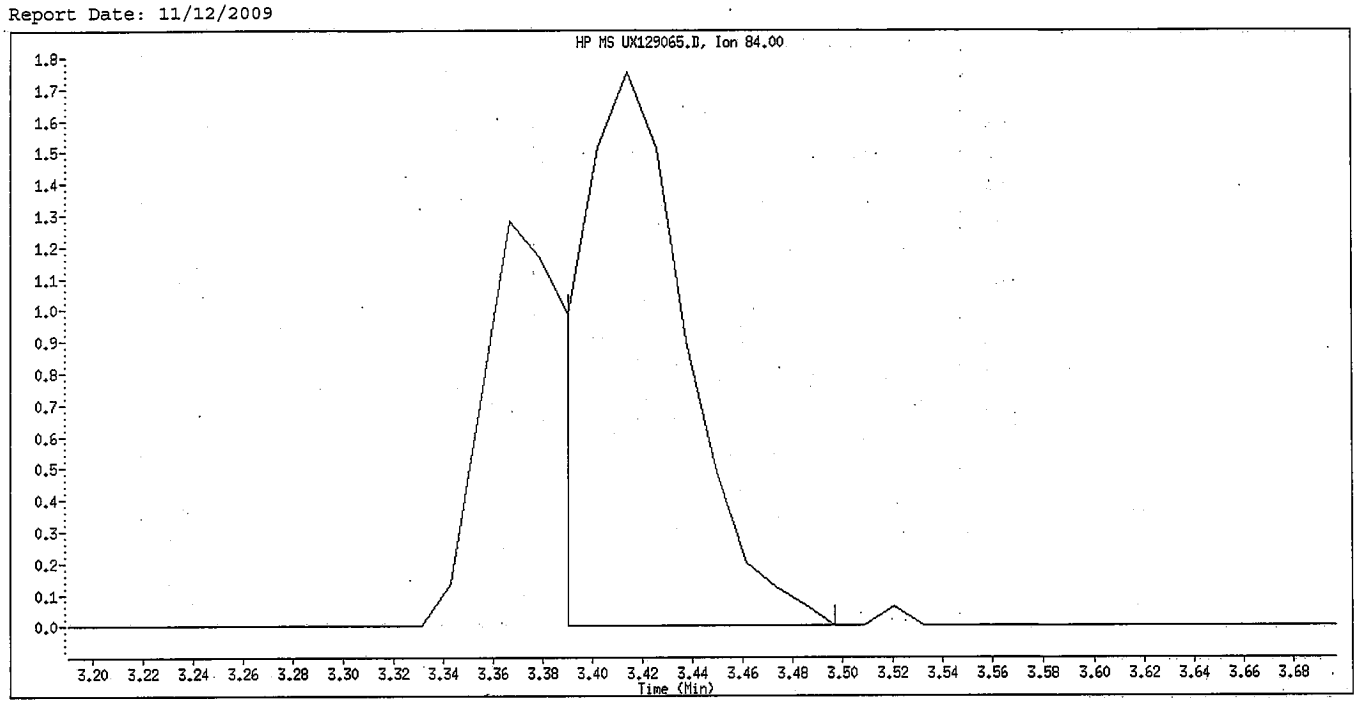
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	951542	475771	1903084	923953	-2.90
2 Chlorobenzene-d5	782184	391092	1564368	751286	-3.95
3 1,4-Dichlorobenze	434949	217475	869898	412559	-5.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.38	4.88	5.88	5.38	-0.00
2 Chlorobenzene-d5	8.05	7.55	8.55	8.05	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

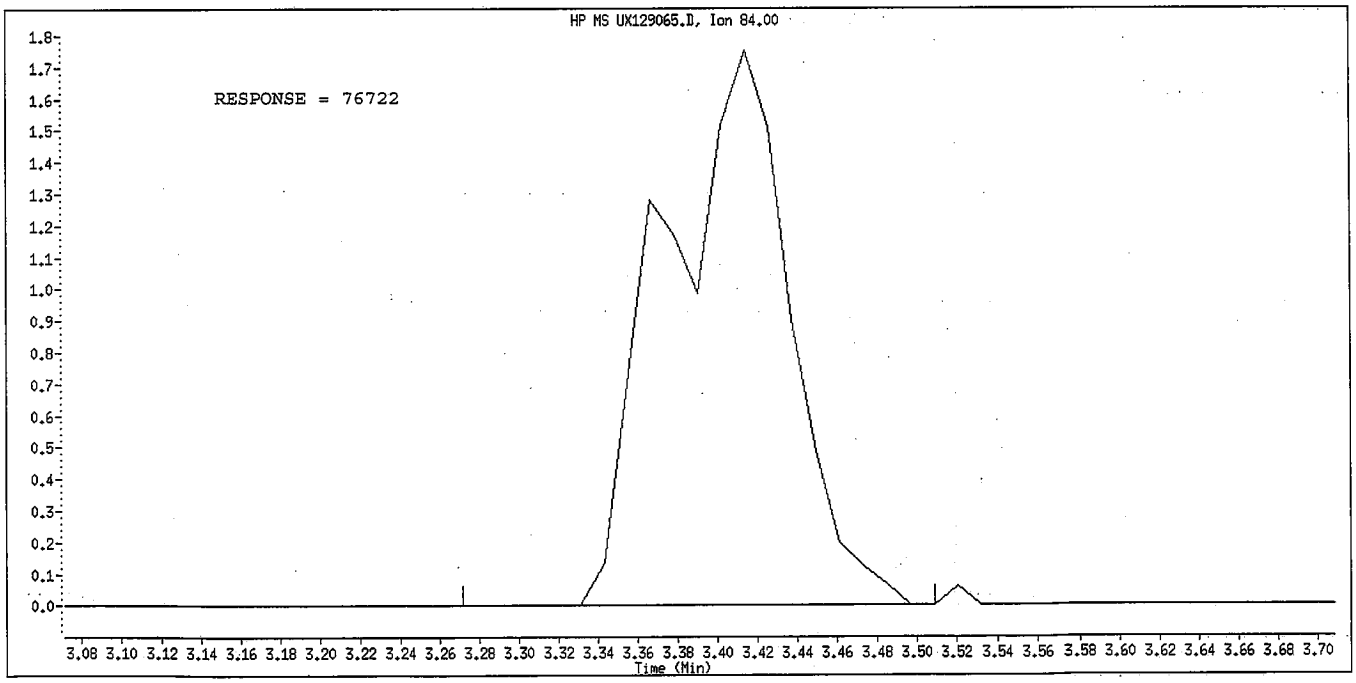
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Acetonitrile+
-tert-Butyl Alcohol+
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,2-Dichloroethene, Total
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
-1,4-Dichlorobenzene-d4+
-p-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
Min
2 3 4 5 6 7 8 9 10 11 12 13 14 15
Data File: \\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129065.D
Date : 11-NOV-2009 22:55
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
\\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129065.D

Data File Name: UX129065.D
Inj. Date and Time: 11-NOV-2009 22:55
Instrument ID: a3ux12.i
Client ID:
Compound Name: Methylene Chloride
CAS #: 75-09-2
Report Date: 11/12/2009



Original Integration



Manual Integration

Manually Integrated By: laveyt
Manual Integration Reason: Split Peak

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Report Date: 11-Nov-2009 23:36

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Lab Smp Id: 5NG-IC
Inj Date : 11-NOV-2009 23:20
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 5NG-IC
Misc Info : T91111A,8260MIUX12,2-8260.SUB,1903,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Meth Date : 11-Nov-2009 23:36 laveyt Quant Type: ISTD
Cal Date : 06-NOV-2009 01:52 Cal File: UX128923.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	5.378	5.378	(1.000)	916920	100.000	
* 2 Chlorobenzene-d5	117	8.052	8.052	(1.000)	739100	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	388006	100.000	
$ 4 Dibromofluoromethane	113	4.810	4.810	(0.894)	9385	5.00000	4.870
$ 5 1,2-Dichloroethane-d4	65	5.094	5.094	(0.947)	12973	5.00000	5.224
$ 6 Toluene-d8	98	6.727	6.727	(0.835)	38464	5.00000	4.750
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.137)	16099	5.00000	4.762
8 Dichlorodifluoromethane	85	1.674	1.674	(0.311)	7855	5.00000	4.168
9 Chloromethane	50	1.828	1.828	(0.340)	14195	5.00000	3.764
10 Vinyl Chloride	62	1.922	1.922	(0.358)	14811	5.00000	4.277
11 Bromomethane	94	2.242	2.242	(0.417)	9117	5.00000	3.085
12 Chloroethane	64	2.348	2.348	(0.437)	11351	5.00000	4.003
13 Trichlorofluoromethane	101	2.550	2.550	(0.474)	12008	5.00000	3.313
15 Acrolein	56	2.881	2.881	(0.536)	15157	50.0000	38.423
16 Acetone	43	3.011	3.011	(0.560)	30532	10.0000	22.154
17 1,1-Dichloroethene	61	2.999	2.999	(0.558)	16210	5.00000	3.793
18 Freon-113	101	2.999	2.999	(0.558)	6950	5.00000	3.646
19 Iodomethane	142	3.153	3.153	(0.586)	18748	5.00000	3.986
20 Carbon Disulfide	76	3.189	3.189	(0.593)	30732	5.00000	3.868
21 Methylene Chloride	84	3.413	3.413	(0.635)	21156	5.00000	8.011
22 Acetonitrile	41	3.248	3.248	(0.604)	27426	50.0000	60.641
23 Acrylonitrile	53	3.567	3.567	(0.663)	9445	10.0000	7.277

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.591	3.591	(0.668)	31937	5.00000	4.225
	25 trans-1,2-Dichloroethene	61	3.603	3.603	(0.670)	12231	5.00000	4.235
	26 Hexane	57	3.816	3.816	(0.710)	5273	5.00000	4.236
	27 Vinyl acetate	43	3.970	3.970	(0.738)	10041	5.00000	4.275
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	3.946	3.946	(0.734)	15539	5.00000	4.587
	29 tert-Butyl Alcohol	59	3.449	3.449	(0.641)	27504	100.000	82.251
	30 2-Butanone	43	4.431	4.431	(0.824)	36390	10.0000	22.130
M	31 1,2-Dichloroethene (total)	61				25943	10.0000	8.759
	32 cis-1,2-dichloroethene	61	4.419	4.419	(0.822)	13712	5.00000	4.524
	33 2,2-Dichloropropane	77	4.431	4.431	(0.824)	6483	5.00000	3.982
	34 Bromochloromethane	128	4.620	4.620	(0.859)	4208	5.00000	3.928
	35 Chloroform	83	4.680	4.680	(0.870)	15683	5.00000	4.524
	36 Tetrahydrofuran	42	4.668	4.668	(0.868)	13198	5.00000	11.744
	37 1,1,1-Trichloroethane	97	4.845	4.845	(0.901)	9579	5.00000	4.068
	38 1,1-Dichloropropene	75	4.975	4.975	(0.925)	9545	5.00000	3.917
	39 Carbon Tetrachloride	117	4.987	4.987	(0.927)	5787	5.00000	3.366
	40 1,2-Dichloroethane	62	5.165	5.165	(0.960)	14559	5.00000	5.000
	41 Benzene	78	5.153	5.153	(0.958)	40659	5.00000	4.758
	42 Trichloroethene	130	5.685	5.685	(1.057)	10444	5.00000	4.912
	43 1,2-Dichloropropane	63	5.875	5.875	(1.092)	9450	5.00000	4.747
	44 1,4-Dioxane	88	5.993	5.993	(1.114)	3635	250.000	125.78
	45 Dibromomethane	93	5.981	5.981	(1.112)	6286	5.00000	4.948
	46 Bromodichloromethane	83	6.099	6.099	(1.134)	8656	5.00000	3.842
	47 2-Chloroethyl vinyl ether	63	6.348	6.348	(1.180)	11199	10.0000	8.042
	48 cis-1,3-Dichloropropene	75	6.490	6.490	(1.207)	10760	5.00000	3.679
	49 4-Methyl-2-pentanone	43	6.608	6.608	(1.229)	18949	10.0000	8.168
	50 Toluene	91	6.786	6.786	(0.843)	41522	5.00000	4.513
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(0.866)	9663	5.00000	3.548
	52 Ethyl Methacrylate	69	7.034	7.034	(0.874)	10726	5.00000	3.726
	53 1,1,2-Trichloroethane	97	7.141	7.141	(0.887)	8857	5.00000	4.447
	54 1,3-Dichloropropane	76	7.295	7.295	(0.906)	17700	5.00000	4.871
	55 Tetrachloroethene	164	7.295	7.295	(0.906)	6728	5.00000	4.321
	56 2-Hexanone	43	7.354	7.354	(0.913)	11833	10.0000	7.524
	57 Dibromochloromethane	129	7.508	7.508	(0.932)	4280	5.00000	2.893
	58 1,2-Dibromoethane	107	7.626	7.626	(0.947)	9942	5.00000	4.755
	59 Chlorobenzene	112	8.076	8.076	(1.003)	31145	5.00000	4.871
	60 1,1,1,2-Tetrachloroethane	131	8.147	8.147	(1.012)	7994	5.00000	4.255
	61 Ethylbenzene	91	8.170	8.170	(1.015)	44855	5.00000	4.490
	62 m + p-Xylene	91	8.277	8.277	(1.028)	68287	10.0000	8.869
M	63 Xylenes (total)	91				104105	15.0000	13.200
	64 Xylene-o	91	8.655	8.655	(1.075)	35818	5.00000	4.331
	65 Styrene	104	8.667	8.667	(1.076)	26422	5.00000	3.883
	66 Bromoform	173	8.845	8.845	(1.098)	1683	5.00000	2.152
	67 Isopropylbenzene	105	8.999	8.999	(1.118)	36339	5.00000	4.427
	68 1,1,2,2-Tetrachloroethane	83	9.283	9.283	(0.902)	14099	5.00000	4.966
	69 1,4-Dichloro-2-butene	53	9.555	9.555	(0.929)	861	5.00000	2.210
	70 1,2,3-Trichloropropane	110	9.330	9.330	(0.907)	4351	5.00000	4.895
	71 Bromobenzene	156	9.306	9.306	(0.905)	12661	5.00000	4.780
	72 n-Propylbenzene	91	9.401	9.401	(0.914)	41089	5.00000	4.780
	73 2-Chlorotoluene	126	9.495	9.495	(0.923)	12094	5.00000	5.387
	74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	28432	5.00000	4.493
	75 4-Chlorotoluene	126	9.602	9.602	(0.933)	10749	5.00000	4.584
	76 tert-Butylbenzene	119	9.886	9.886	(0.961)	24352	5.00000	4.802

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Report Date: 11-Nov-2009 23:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
77	1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	30933	5.00000	4.478
78	sec-Butylbenzene	105	10.099	10.099	(0.982)	32118	5.00000	4.570
79	4-Isopropyltoluene	119	10.241	10.241	(0.995)	28490	5.00000	4.707
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	23624	5.00000	5.091
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	26937	5.00000	5.297
82	n-Butylbenzene	91	10.655	10.655	(1.036)	25454	5.00000	4.863
83	1,2-Dichlorobenzene	146	10.691	10.691	(1.039)	23922	5.00000	5.089
84	1,2-Dibromo-3-chloropropane	157	11.460	11.460	(1.114)	1746	5.00000	3.744
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	13073	5.00000	5.049
86	Hexachlorobutadiene	225	12.454	12.454	(1.210)	11081	5.00000	7.648
87	Naphthalene	128	12.548	12.548	(1.220)	35413	5.00000	4.205
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	13586	5.00000	5.288
98	Cyclohexane	56	4.904	4.904	(0.912)	8424	5.00000	3.573
143	Methyl Acetate	43	3.271	3.271	(0.608)	30578	10.0000	11.204
144	Methylcyclohexane	83	5.863	5.863	(1.090)	7223	5.00000	3.929
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	14019	5.00000	5.129

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Report Date: 11-Nov-2009 23:36

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX129066.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Calibration Date: 11-NOV-2009
Calibration Time: 22:30
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	951542	475771	1903084	916920	-3.64
2 Chlorobenzene-d5	782184	391092	1564368	739100	-5.51
3 1,4-Dichlorobenze	434949	217475	869898	388006	-10.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.38	4.88	5.88	5.38	-0.00
2 Chlorobenzene-d5	8.05	7.55	8.55	8.05	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Date : 11-NOV-2009 23:20
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride+
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform
-Dibromofluoromethane
-Tetrahydrofuran
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
-Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129067.D
Report Date: 12-Nov-2009 00:00

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129067.D
Lab Smp Id: 2.5NG-IC
Inj Date : 11-NOV-2009 23:45
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 2.5NG-IC
Misc Info : T91111A,8260MIUX12,2-8260.SUB,1903,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Meth Date : 12-Nov-2009 00:00 laveyt Quant Type: ISTD
Cal Date : 06-NOV-2009 02:16 Cal File: UX128924.D
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	5.377	5.377	(1.000)	887099	100.000	
*	2 Chlorobenzene-d5	117	8.052	8.052	(1.000)	720057	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	376126	100.000	
$	4 Dibromofluoromethane	113	4.810	4.810	(0.894)	3560	2.50000	1.910
$	5 1,2-Dichloroethane-d4	65	5.105	5.105	(0.949)	6599	2.50000	2.747
$	6 Toluene-d8	98	6.738	6.738	(0.837)	19313	2.50000	2.448
$	7 Bromofluorobenzene	95	9.152	9.152	(1.137)	8255	2.50000	2.506
	8 Dichlorodifluoromethane	85	1.662	1.662	(0.309)	2499	2.50000	1.371
	9 Chloromethane	50	1.828	1.828	(0.340)	7877	2.50000	2.672
	10 Vinyl Chloride	62	1.922	1.922	(0.358)	7075	2.50000	2.339
	11 Bromomethane	94	2.242	2.242	(0.417)	4942	2.50000	2.150
	12 Chloroethane	64	2.336	2.336	(0.435)	4412	2.50000	1.788
	13 Trichlorofluoromethane	101	2.561	2.561	(0.476)	5680	2.50000	1.620
	15 Acrolein	56	2.881	2.881	(0.536)	6801	25.0000	22.060
	16 Acetone	43	3.011	3.011	(0.560)	20105	5.00000	15.078
	17 1,1-Dichloroethene	61	2.999	2.999	(0.558)	7552	2.50000	2.130
	18 Freon-113	101	2.999	2.999	(0.558)	2113	2.50000	1.146
	19 Iodomethane	142	3.153	3.153	(0.586)	8858	2.50000	2.231
	20 Carbon Disulfide	76	3.188	3.188	(0.593)	14628	2.50000	2.161
	21 Methylene Chloride	84	3.413	3.413	(0.635)	10728	2.50000	4.199
	22 Acetonitrile	41	3.248	3.248	(0.604)	21027	25.0000	48.055
	23 Acrylonitrile	53	3.567	3.567	(0.663)	5037	5.00000	4.982

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.591	3.591	(0.668)	15968	2.50000	2.357
	25 trans-1,2-Dichloroethene	61	3.603	3.603	(0.670)	5718	2.50000	2.173
	26 Hexane	57	3.827	3.827	(0.712)	1400	2.50000	1.162
	27 Vinyl acetate	43	3.969	3.969	(0.738)	5171	2.50000	2.276
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	3.946	3.946	(0.734)	7513	2.50000	2.378
	29 tert-Butyl Alcohol	59	3.449	3.449	(0.641)	15103	50.0000	52.853
	30 2-Butanone	43	4.431	4.431	(0.824)	28672	5.00000	18.022
M	31 1,2-Dichloroethene (total)	61				12225	5.00000	4.510
	32 cis-1,2-dichloroethene	61	4.431	4.431	(0.824)	6507	2.50000	2.337
	33 2,2-Dichloropropane	77	4.431	4.431	(0.824)	2347	2.50000	1.613
	34 Bromochloromethane	128	4.620	4.620	(0.859)	2142	2.50000	2.257
	35 Chloroform	83	4.679	4.679	(0.870)	7552	2.50000	2.320
	36 Tetrahydrofuran	42	4.668	4.668	(0.868)	11800	2.50000	10.853
	37 1,1,1-Trichloroethane	97	4.845	4.845	(0.901)	4438	2.50000	2.030
	38 1,1-Dichloropropene	75	4.987	4.987	(0.927)	4648	2.50000	2.043
	39 Carbon Tetrachloride	117	4.975	4.975	(0.925)	2202	2.50000	1.455
	40 1,2-Dichloroethane	62	5.164	5.164	(0.960)	6931	2.50000	2.474
	41 Benzene	78	5.153	5.153	(0.958)	20597	2.50000	2.487
	42 Trichloroethene	130	5.685	5.685	(1.057)	4534	2.50000	2.232
	43 1,2-Dichloropropane	63	5.874	5.874	(1.092)	4729	2.50000	2.457
	44 1,4-Dioxane	88	6.005	6.005	(1.117)	2568	125.000	91.848
	45 Dibromomethane	93	5.981	5.981	(1.112)	2451	2.50000	2.054
	46 Bromodichloromethane	83	6.111	6.111	(1.136)	4405	2.50000	2.132
	47 2-Chloroethyl vinyl ether	63	6.336	6.336	(1.178)	5436	5.00000	4.075
	48 cis-1,3-Dichloropropene	75	6.490	6.490	(1.207)	4515	2.50000	1.706
	49 4-Methyl-2-pentanone	43	6.608	6.608	(1.229)	8725	5.00000	4.401
	50 Toluene	91	6.797	6.797	(0.844)	20142	2.50000	2.285
	51 trans-1,3-Dichloropropene	75	6.963	6.963	(0.865)	4891	2.50000	1.949
	52 Ethyl Methacrylate	69	7.034	7.034	(0.874)	5622	2.50000	2.105
	53 1,1,2-Trichloroethane	97	7.141	7.141	(0.887)	4592	2.50000	2.427
	54 1,3-Dichloropropane	76	7.294	7.294	(0.906)	8198	2.50000	2.320
	55 Tetrachloroethene	164	7.283	7.283	(0.904)	3513	2.50000	2.479
	56 2-Hexanone	43	7.354	7.354	(0.913)	6218	5.00000	4.504
	57 Dibromochloromethane	129	7.507	7.507	(0.932)	1885	2.50000	1.472
	58 1,2-Dibromoethane	107	7.626	7.626	(0.947)	4583	2.50000	2.358
	59 Chlorobenzene	112	8.075	8.075	(1.003)	16780	2.50000	2.679
	60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.010)	3741	2.50000	2.158
	61 Ethylbenzene	91	8.158	8.158	(1.013)	22141	2.50000	2.338
	62 m + p-Xylene	91	8.277	8.277	(1.028)	35327	5.00000	4.710
M	63 Xylenes (total)	91				52800	7.50000	6.941
	64 Xylene-o	91	8.655	8.655	(1.075)	17473	2.50000	2.231
	65 Styrene	104	8.667	8.667	(1.076)	14004	2.50000	2.126
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	8.998	8.998	(1.118)	17502	2.50000	2.224
	68 1,1,2,2-Tetrachloroethane	83	9.282	9.282	(0.902)	6035	2.50000	2.242
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	9.342	9.342	(0.908)	2157	2.50000	2.459
	71 Bromobenzene	156	9.306	9.306	(0.905)	6315	2.50000	2.481
	72 n-Propylbenzene	91	9.401	9.401	(0.914)	18812	2.50000	2.253
	73 2-Chlorotoluene	126	9.495	9.495	(0.923)	4653	2.50000	2.197
	74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	14381	2.50000	2.354
	75 4-Chlorotoluene	126	9.602	9.602	(0.933)	6162	2.50000	2.695
	76 tert-Butylbenzene	119	9.886	9.886	(0.961)	12235	2.50000	2.438

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129067.D
Report Date: 12-Nov-2009 00:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
77	1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	14230	2.50000	2.186
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	13422	2.50000	2.060
79	4-Isopropyltoluene	119	10.241	10.241	(0.995)	12236	2.50000	2.138
80	1,3-Dichlorobenzene	146	10.217	10.217	(0.993)	12252	2.50000	2.725
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	14386	2.50000	2.896
82	n-Butylbenzene	91	10.655	10.655	(1.036)	11253	2.50000	2.279
83	1,2-Dichlorobenzene	146	10.690	10.690	(1.039)	12269	2.50000	2.672
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	6776	2.50000	2.710
86	Hexachlorobutadiene	225	12.454	12.454	(1.210)	4220	2.50000	3.209
87	Naphthalene	128	12.548	12.548	(1.220)	17638	2.50000	2.254
88	1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	6611	2.50000	2.688
98	Cyclohexane	56	4.892	4.892	(0.910)	2203	2.50000	1.075
143	Methyl Acetate	43	3.271	3.271	(0.608)	18193	5.00000	6.890
144	Methylcyclohexane	83	5.863	5.863	(1.090)	2358	2.50000	1.448
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	6757	2.50000	2.645

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129067.D
Report Date: 12-Nov-2009 00:00

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX129067.D
Lab Smp Id: 2.5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Calibration Date: 11-NOV-2009
Calibration Time: 22:30
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,1,1

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	951542	475771	1903084	887099	-6.77
2 Chlorobenzene-d5	782184	391092	1564368	720057	-7.94
3 1,4-Dichlorobenze	434949	217475	869898	376126	-13.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.38	4.88	5.88	5.38	-0.00
2 Chlorobenzene-d5	8.05	7.55	8.55	8.05	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129067.D
Date : 11-NOV-2009 23:45
Client ID:
Sample Info: 2.5NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
\\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129067.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride+
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform
-Dibromofluoromethane
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
-Xylene-o+
-Isopropylbenzene
-Bromofluorobenzene
-1,1-Dichloroethene (total)
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129068.D
Lab Smp Id: ICV
Inj Date : 12-NOV-2009 00:09
Operator : 1903 Inst ID: a3ux12.i
Smp Info : ICV
Misc Info : T91111A,8260MIUX12,2-8260.SUB,1903,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Meth Date : 12-Nov-2009 15:15 laveyt Quant Type: ISTD
Cal Date : 06-NOV-2009 02:16 Cal File: UX128924.D
Als bottle: 12 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.378	5.378	(1.000)	916080	100.000	
* 2 Chlorobenzene-d5	117	8.052	8.052	(1.000)	745668	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	421272	100.000	
$ 4 Dibromofluoromethane	113	4.810	4.810	(0.894)	207249	107.649	21.530
$ 5 1,2-Dichloroethane-d4	65	5.094	5.094	(0.947)	254217	102.468	20.494
$ 6 Toluene-d8	98	6.727	6.727	(0.835)	878763	107.559	21.512
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.137)	361333	105.944	21.189
8 Dichlorodifluoromethane	85	1.662	1.662	(0.309)	146414	77.7634	15.553
9 Chloromethane	50	1.816	1.816	(0.338)	306734	100.754	20.151
10 Vinyl Chloride	62	1.922	1.922	(0.358)	305578	97.8388	19.568
11 Bromomethane	94	2.242	2.242	(0.417)	200846	74.0066	14.801
12 Chloroethane	64	2.337	2.337	(0.435)	233346	80.4418	16.088
13 Trichlorofluoromethane	101	2.550	2.550	(0.474)	341132	85.9339	17.187
15 Acrolein	56	2.881	2.881	(0.536)	163671	514.107	102.82
16 Acetone	43	3.011	3.011	(0.560)	89122	89.3624	17.872
17 1,1-Dichloroethene	61	2.999	2.999	(0.558)	443932	121.276	24.255
18 Freon-113	101	2.999	2.999	(0.558)	225554	106.034	21.207
19 Iodomethane	142	3.153	3.153	(0.586)	490698	119.674	23.935
20 Carbon Disulfide	76	3.189	3.189	(0.593)	847755	121.285	24.257
21 Methylene Chloride	84	3.413	3.413	(0.635)	326117	109.450	21.890(M)
22 Acetonitrile	41	3.248	3.248	(0.604)	136506	302.102	60.420
23 Acrylonitrile	53	3.567	3.567	(0.663)	328760	314.853	62.970
24 Methyl tert-butyl ether	73	3.591	3.591	(0.668)	774711	110.748	22.150

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129068.D
Report Date: 12-Nov-2009 17:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	25 trans-1,2-Dichloroethene	61	3.591	3.591	(0.668)	322416	118.656	23.731
	26 Hexane	57	3.816	3.816	(0.710)	134633	108.249	21.650
	27 Vinyl acetate	43	3.970	3.969	(0.738)	826359	352.145	70.429(A)
	152 Vinyl acetate - 86	86	3.970	3.969	(0.738)	57856	196.502	39.300(A)
	28 1,1-Dichloroethane	63	3.946	3.946	(0.734)	379215	116.213	23.242
	29 tert-Butyl Alcohol	59	3.449	3.449	(0.641)	604752	2049.38	409.88(A)
	30 2-Butanone	43	4.431	4.431	(0.824)	121284	98.5997	19.720
M	31 1,2-Dichloroethene (total)	61				649206	232.305	46.461
	32 cis-1,2-dichloroethene	61	4.419	4.419	(0.822)	326790	113.649	22.730
	33 2,2-Dichloropropane	77	4.431	4.431	(0.824)	178213	103.190	20.638
	34 Bromochloromethane	128	4.620	4.620	(0.859)	115781	118.136	23.627
	35 Chloroform	83	4.680	4.679	(0.870)	383529	114.100	22.820
	36 Tetrahydrofuran	42	4.668	4.668	(0.868)	76295	102.634	20.527
	37 1,1,1-Trichloroethane	97	4.845	4.845	(0.901)	268963	105.615	21.123
	38 1,1-Dichloropropene	75	4.975	4.975	(0.925)	277064	104.513	20.903
	39 Carbon Tetrachloride	117	4.987	4.987	(0.927)	193106	99.2434	19.849
	40 1,2-Dichloroethane	62	5.165	5.165	(0.960)	327618	113.245	22.649
	41 Benzene	78	5.153	5.153	(0.958)	977837	114.338	22.868
	42 Trichloroethene	130	5.685	5.685	(1.057)	229804	109.567	21.913
	43 1,2-Dichloropropane	63	5.875	5.875	(1.092)	224186	112.792	22.558
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.981	5.981	(1.112)	145448	118.010	23.602
	46 Bromodichloromethane	83	6.099	6.099	(1.134)	252111	103.090	20.618
	47 2-Chloroethyl vinyl ether	63	6.348	6.348	(1.180)	158293	110.814	22.163
	48 cis-1,3-Dichloropropene	75	6.490	6.490	(1.207)	334625	102.256	20.451
	49 4-Methyl-2-pentanone	43	6.608	6.608	(1.229)	212652	103.878	20.776
	50 Toluene	91	6.798	6.798	(0.844)	1034677	113.353	22.670
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(0.866)	314704	101.387	20.277
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	7.141	7.141	(0.887)	220008	112.300	22.460
	54 1,3-Dichloropropane	76	7.295	7.295	(0.906)	415943	113.656	22.731
	55 Tetrachloroethene	164	7.283	7.283	(0.904)	154116	105.031	21.006
	56 2-Hexanone	43	7.354	7.354	(0.913)	150610	105.348	21.070
	57 Dibromochloromethane	129	7.508	7.508	(0.932)	164959	96.5334	19.307
	58 1,2-Dibromoethane	107	7.626	7.626	(0.947)	224229	111.384	22.277
	59 Chlorobenzene	112	8.076	8.076	(1.003)	708002	109.173	21.834
	60 1,1,1,2-Tetrachloroethane	131	8.147	8.147	(1.012)	197970	110.256	22.051
	61 Ethylbenzene	91	8.170	8.158	(1.015)	1091458	111.274	22.255
	62 m + p-Xylene	91	8.277	8.277	(1.028)	1731920	222.980	44.596
M	63 Xylenes (total)	91				2671826	338.868	67.774
	64 Xylene-o	91	8.655	8.655	(1.075)	939906	115.888	23.178
	65 Styrene	104	8.667	8.667	(1.076)	798698	101.066	20.213
	66 Bromoform	173	8.857	8.856	(1.100)	89593	92.5259	18.505
	67 Isopropylbenzene	105	8.999	8.998	(1.118)	930373	114.150	22.830
	68 1,1,2,2-Tetrachloroethane	83	9.283	9.282	(0.902)	337999	112.103	22.421
	69 1,4-Dichloro-2-butene	53	9.567	9.342	(0.930)	22149	53.0542	10.611
	70 1,2,3-Trichloropropane	110	9.330	9.330	(0.907)	120474	122.635	24.527
	71 Bromobenzene	156	9.306	9.306	(0.905)	311462	109.272	21.854
	72 n-Propylbenzene	91	9.401	9.401	(0.914)	1058764	113.197	22.639
	73 2-Chlorotoluene	126	9.496	9.495	(0.923)	254677	107.362	21.472
	74 1,3,5-Trimethylbenzene	105	9.567	9.566	(0.930)	760485	111.153	22.231
	75 4-Chlorotoluene	126	9.602	9.602	(0.933)	284854	111.238	22.248
	76 tert-Butylbenzene	119	9.886	9.886	(0.961)	611324	108.765	21.753
	77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	859324	117.881	23.576

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129068.D
Report Date: 12-Nov-2009 17:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	801217	109.804	21.961
79	4-Isopropyltoluene	119	10.241	10.241	(0.995)	718158	112.036	22.407
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	536387	106.513	21.302
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	584780	105.107	21.021
82	n-Butylbenzene	91	10.655	10.655	(1.036)	579600	104.811	20.962
83	1,2-Dichlorobenzene	146	10.691	10.691	(1.039)	542628	105.510	21.102
84	1,2-Dibromo-3-chloropropane	157	11.460	11.460	(1.114)	54146	95.8556	19.171
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	290044	103.571	20.714
86	Hexachlorobutadiene	225	12.454	12.454	(1.210)	97813	89.9355	17.987
87	Naphthalene	128	12.548	12.548	(1.220)	964030	109.995	21.999
88	1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	272561	98.9559	19.791
98	Cyclohexane	56	4.904	4.904	(0.912)	236311	89.7587	17.952
143	Methyl Acetate	43	3.271	3.271	(0.608)	221670	81.2930	16.258
144	Methylcyclohexane	83	5.851	5.863	(1.088)	183476	91.7308	18.346
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	1542	0.53897	0.1078

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129068.D
Report Date: 12-Nov-2009 17:36

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX129068.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Calibration Date: 11-NOV-2009
Calibration Time: 22:30
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	951542	475771	1903084	916080	-3.73
2 Chlorobenzene-d5	782184	391092	1564368	745668	-4.67
3 1,4-Dichlorobenze	434949	217475	869898	421272	-3.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.38	4.88	5.88	5.38	0.00
2 Chlorobenzene-d5	8.05	7.55	8.55	8.05	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129068.D
Report Date: 12-Nov-2009 17:36

TestAmerica North Canton

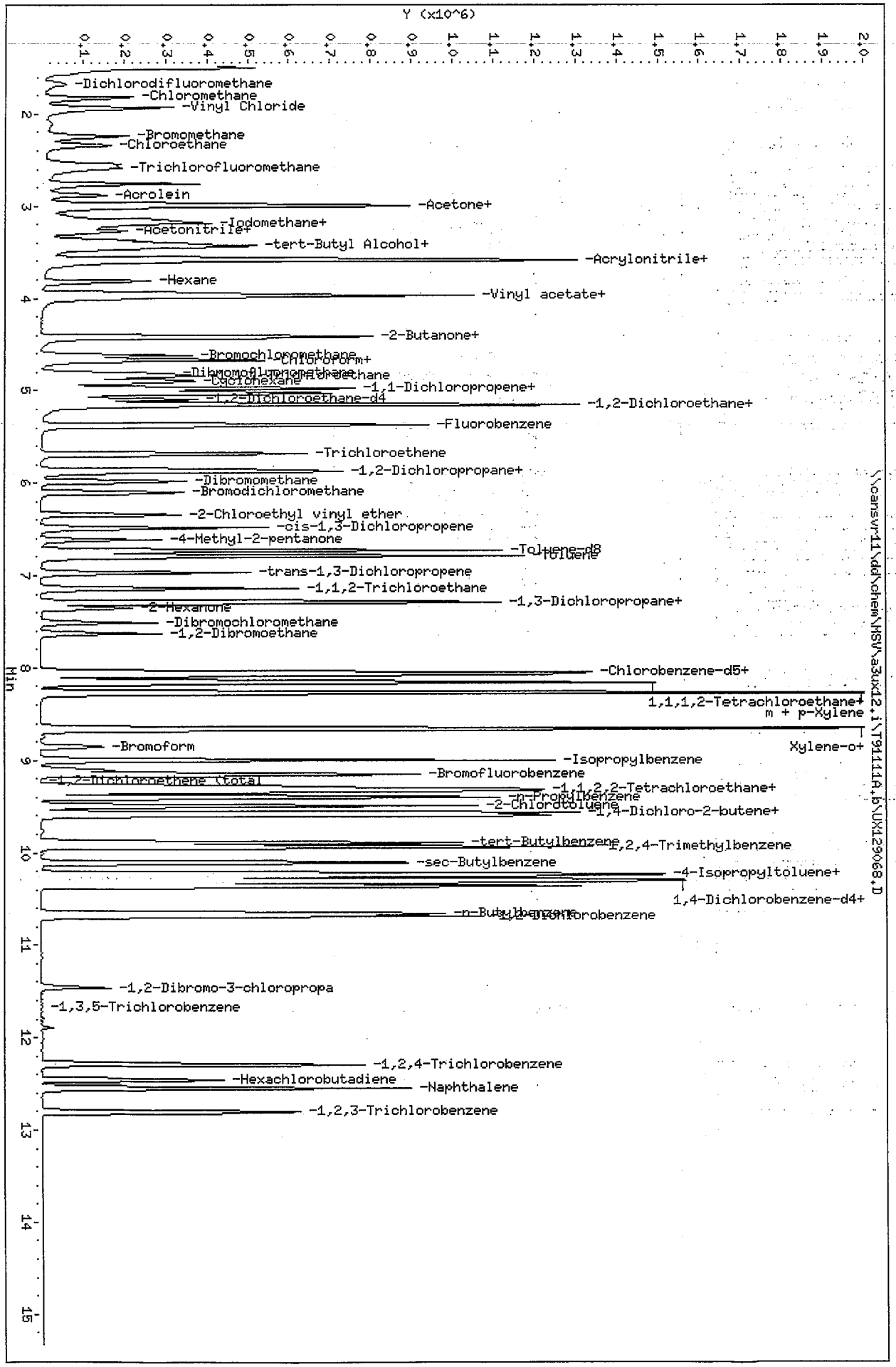
RECOVERY REPORT

Client Name: Client SDG: SDGa01252
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: ICV
Level: LOW Operator: 1903
Data Type: MS DATA SampleType: METHSPIKE
SpikeList File: plexus-ck.spk Quant Type: ISTD
Sublist File: 2-8260.SUB
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\8260MIUX12.m
Misc Info: T91111A,8260MIUX12,2-8260.SUB,1903,3

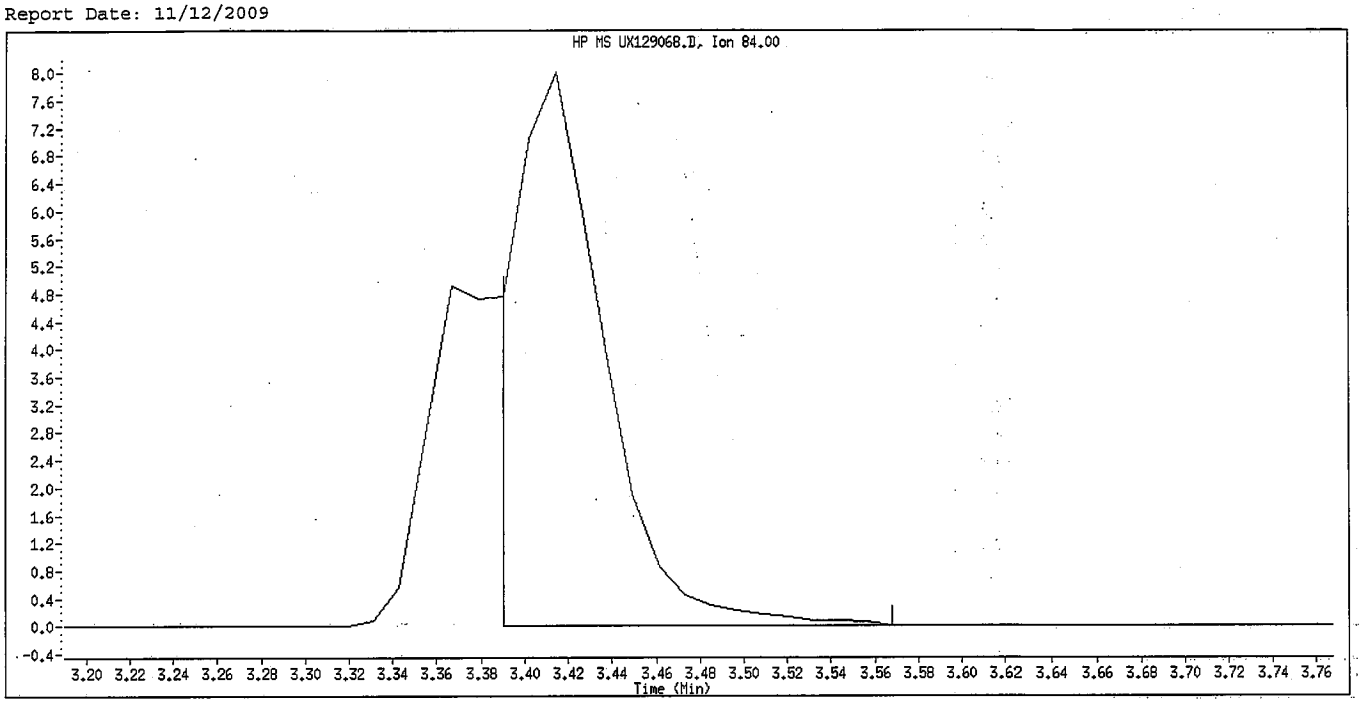
	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	17	1,1-Dichloroethene	20.000	24.255	121.28	45-155
	42	Trichloroethene	20.000	21.913	109.57	45-155
	59	Chlorobenzene	20.000	21.834	109.17	45-155
	50	Toluene	20.000	22.670	113.35	45-155
	41	Benzene	20.000	22.868	114.34	45-155
	16	Acetone	20.000	17.872	89.36	45-155
	20	Carbon Disulfide	20.000	24.257	121.29	45-155
	9	Chloromethane	20.000	20.151	100.75	45-155
	11	Bromomethane	20.000	14.801	74.01	45-155
	10	Vinyl Chloride	20.000	19.568	97.84	45-155
	12	Chloroethane	20.000	16.088	80.44	45-155
	21	Methylene Chloride	20.000	21.890	109.45	45-155
	28	1,1-Dichloroethane	20.000	23.242	116.21	45-155
M	31	1,2-Dichloroethene	40.000	46.461	116.15	45-155
	35	Chloroform	20.000	22.820	114.10	45-155
	40	1,2-Dichloroethane	20.000	22.649	113.25	45-155
	30	2-Butanone	20.000	19.720	98.60	45-155
	37	1,1,1-Trichloroeth	20.000	21.123	105.61	45-155
	39	Carbon Tetrachlori	20.000	19.849	99.24	45-155
	46	Bromodichlorometha	20.000	20.618	103.09	45-155
	43	1,2-Dichloropropan	20.000	22.558	112.79	45-155
	48	cis-1,3-Dichloropr	20.000	20.451	102.26	45-155
	57	Dibromochlorometha	20.000	19.307	96.53	45-155
	53	1,1,2-Trichloroeth	20.000	22.460	112.30	45-155
	51	trans-1,3-Dichloro	20.000	20.277	101.39	45-155
	66	Bromoform	20.000	18.505	92.53	45-155
	49	4-Methyl-2-pentano	20.000	20.776	103.88	45-155
	56	2-Hexanone	20.000	21.070	105.35	45-155
	55	Tetrachloroethene	20.000	21.006	105.03	45-155
	68	1,1,2,2-Tetrachlor	20.000	22.421	112.10	45-155
	61	Ethylbenzene	20.000	22.255	111.27	45-155
	65	Styrene	20.000	20.213	101.07	45-155
M	63	Xylenes (total)	60.000	67.774	112.96	45-155
	32	cis-1,2-dichloroet	20.000	22.730	113.65	45-155
	25	trans-1,2-Dichloro	20.000	23.731	118.66	45-155
	8	Dichlorodifluorome	20.000	15.553	77.76	45-155
	13	Trichlorofluoromet	20.000	17.187	85.93	45-155
	18	Freon-113	20.000	21.207	106.03	45-155
	24	Methyl tert-butyl	20.000	22.150	110.75	45-155
	58	1,2-Dibromoethane	20.000	22.277	111.38	45-155

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
67 Isopropylbenzene	20.000	22.830	114.15	45-155
80 1,3-Dichlorobenzen	20.000	21.302	106.51	45-155
81 1,4-Dichlorobenzen	20.000	21.021	105.11	45-155
83 1,2-Dichlorobenzen	20.000	21.102	105.51	45-155
84 1,2-Dibromo-3-chlo	20.000	19.171	95.86	45-155
85 1,2,4-Trichloroben	20.000	20.714	103.57	45-155
98 Cyclohexane	20.000	17.952	89.76	45-155
143 Methyl Acetate	20.000	16.258	81.29	45-155
144 Methylcyclohexane	20.000	18.346	91.73	45-155

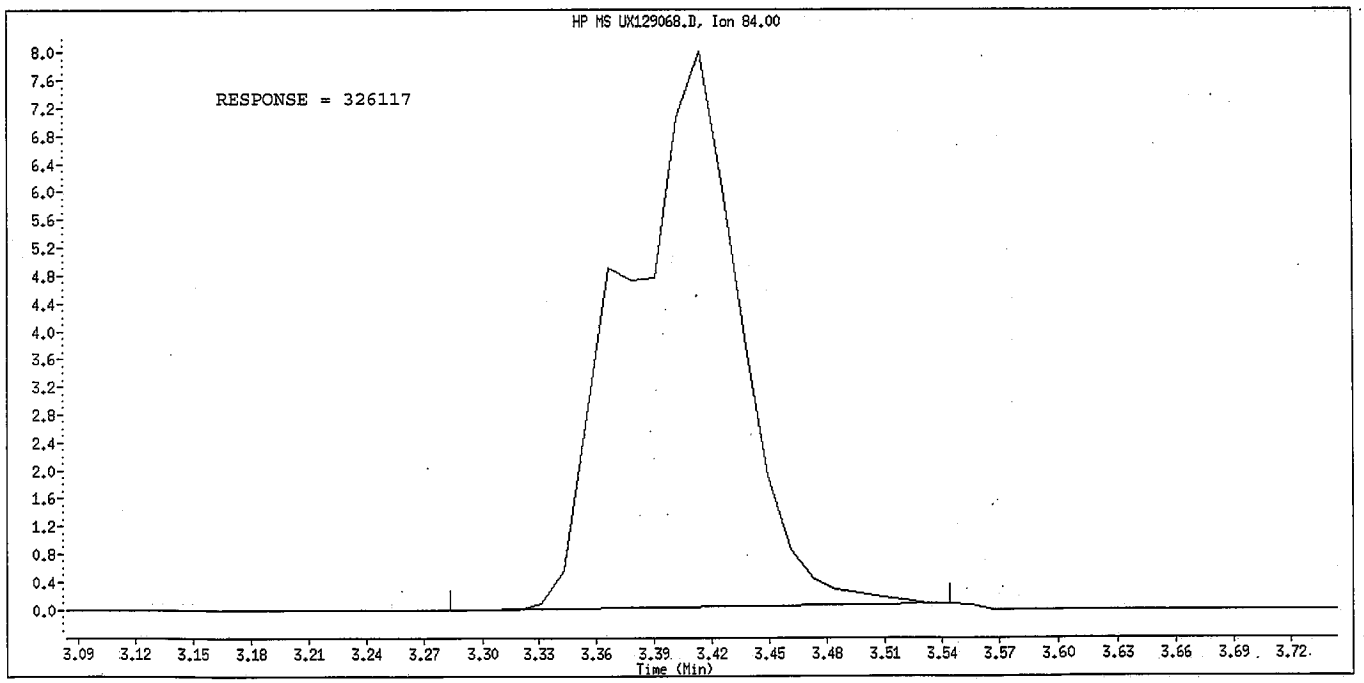
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	20.000	21.530	107.65	73-122
$ 5 1,2-Dichloroethane	20.000	20.494	102.47	61-128
$ 6 Toluene-d8	20.000	21.512	107.56	76-110
$ 7 Bromofluorobenzene	20.000	21.189	105.94	74-116


Data File: \\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129068.D
Date : 12-NOV-2009 00:09
Client ID:
Sample Info: ICV
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
\\cansvr11\dd\chem\HSV\a3ux12.i\T91111A.b\UX129068.D
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Acetonitrile+
-tert-Butyl Alcohol+
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
Toluene
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,2-Dichloroethene (total
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
1,4-Dichloro-2-butene+
-tert-Butylbenzene
1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File Name: UX129068.D
Inj. Date and Time: 12-NOV-2009 00:09
Instrument ID: a3ux12.i
Client ID:
Compound Name: Methylene Chloride
CAS #: 75-09-2
Report Date: 11/12/2009



Original Integration



Manual Integration

Manually Integrated By: laveyt
Manual Integration Reason: Split Peak

Report Date: 06-Aug-2010 09:38

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Start Cal Date: 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 2.50000		
06-NOV-2009 02:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128924.D
11-NOV-2009 23:45	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129067.D
Cal Level: 2 , Cal Amount: 5.00000		
06-NOV-2009 01:52	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128923.D
11-NOV-2009 23:20	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Cal Level: 3 , Cal Amount: 25.00000		
06-NOV-2009 01:27	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128922.D
11-NOV-2009 22:55	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129065.D
Cal Level: 5 , Cal Amount: 100.00000		
06-NOV-2009 01:02	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128921.D
11-NOV-2009 22:30	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Cal Level: 6 , Cal Amount: 250.00000		
06-NOV-2009 00:40	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128920.D
11-NOV-2009 22:07	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129063.D
Cal Level: 7 , Cal Amount: 500.00000		
06-NOV-2009 00:14	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128919.D
11-NOV-2009 21:45	2-8260	

\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129062.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

01-AUG-2010 12:57	2-8260+	
\\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Report Date: 01-Aug-2010 13:13

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux12.i Injection Date: 01-AUG-2010 12:57
Lab File ID: UX123004.D Init. Cal. Date(s): 05-NOV-2009 11-NOV-2009
Analysis Type: WATER Init. Cal. Times: 20:44 23:45
Lab Sample ID: 100NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m

COMPOUND	RRF / AMOUNT	RF100	CCAL RRF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.21016	0.23486	0.23486	0.010	-11.75259	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.27082	0.27372	0.27372	0.010	-1.06990	50.00000	Averaged	
$ 6 Toluene-d8	1.09567	1.10400	1.10400	0.010	-0.76038	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.45739	0.42470	0.42470	0.010	7.14709	50.00000	Averaged	
8 Dichlorodifluoromethane	0.20553	0.22570	0.22570	0.010	-9.81544	50.00000	Averaged	
9 Chloromethane	0.33233	0.29931	0.29931	0.100	9.93571	50.00000	Averaged	
10 Vinyl Chloride	0.34094	0.28536	0.28536	0.010	16.30250	20.00000	Averaged	
11 Bromomethane	100	60.02945	0.17430	0.010	39.97055	50.00000	Linear	
12 Chloroethane	100	60.15013	0.17843	0.010	39.84987	50.00000	Linear	
13 Trichlorofluoromethane	100	77.25774	0.33108	0.010	22.74226	50.00000	Linear	
15 Acrolein	0.03475	0.02413	0.02413	0.010	30.56547	50.00000	Averaged	
16 Acetone	200	109	0.05896	0.010	45.45822	50.00000	Linear	
17 1,1-Dichloroethene	0.39958	0.33514	0.33514	0.010	16.12878	20.00000	Averaged	
18 Freon-113	100	82.47599	0.18684	0.010	17.52401	50.00000	Linear	
19 Iodomethane	0.44759	0.43834	0.43834	0.010	2.06609	50.00000	Averaged	
20 Carbon Disulfide	0.76301	0.62660	0.62660	0.010	17.87738	50.00000	Averaged	
21 Methylene Chloride	100	82.05311	0.26760	0.010	17.94689	50.00000	Linear	
22 Acetonitrile	0.04932	0.02606	0.02606	0.010	47.16556	50.00000	Averaged	
23 Acrylonitrile	0.11398	0.06388	0.06388	0.010	43.95677	50.00000	Averaged	
24 Methyl tert-butyl ether	0.76361	0.47454	0.47454	0.010	37.85539	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.29662	0.26785	0.26785	0.010	9.69638	50.00000	Averaged	
26 Hexane	0.13577	0.13218	0.13218	0.010	2.64096	20.00000	Averaged	
27 Vinyl acetate	0.25616	0.23717	0.23717	0.010	7.41437	50.00000	Averaged	
28 1,1-Dichloroethane	0.35620	0.34053	0.34053	0.100	4.40061	50.00000	Averaged	
29 tert-Butyl Alcohol	0.03221	0.01186	0.01186	0.010	63.16972	50.00000	Averaged	<-
30 2-Butanone	200	123	0.08058	0.010	38.52221	50.00000	Linear	
M 31 1,2-Dichloroethene (total)	0.30526	0.28059	0.28059	0.010	8.08065	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.31388	0.29332	0.29332	0.010	6.55085	50.00000	Averaged	
33 2,2-Dichloropropane	100	79.04695	0.14803	0.010	20.95305	50.00000	Linear	
34 Bromochloromethane	0.10698	0.11666	0.11666	0.010	-9.04049	50.00000	Averaged	
35 Chloroform	0.36693	0.35891	0.35891	0.010	2.18370	20.00000	Averaged	
36 Tetrahydrofuran	100	52.98425	0.04628	0.010	47.01575	50.00000	Linear	
37 1,1,1-Trichloroethane	100	92.75143	0.25673	0.010	7.24857	50.00000	Linear	
38 1,1-Dichloropropene	100	92.16408	0.26555	0.010	7.83592	50.00000	Linear	
39 Carbon Tetrachloride	100	95.28645	0.20185	0.010	4.71355	50.00000	Linear	
40 1,2-Dichloroethane	0.31580	0.27705	0.27705	0.010	12.27104	50.00000	Averaged	
41 Benzene	0.93356	0.88990	0.88990	0.010	4.67705	50.00000	Averaged	
42 Trichloroethene	0.22895	0.23771	0.23771	0.010	-3.82541	50.00000	Averaged	
44 1,4-Dioxane	5000	3192	0.00222	0.010	36.16513	50.00000	Linear	<-
43 1,2-Dichloropropane	0.21697	0.20197	0.20197	0.010	6.91186	20.00000	Averaged	
45 Dibromomethane	0.13454	0.12198	0.12198	0.010	9.33943	50.00000	Averaged	
46 Bromodichloromethane	100	93.30675	0.24766	0.010	6.69325	50.00000	Linear	
47 2-Chloroethyl vinyl ether	0.15593	0.08831	0.08831	0.010	43.36311	50.00000	Averaged	

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Report Date: 01-Aug-2010 13:13

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux12.i Injection Date: 01-AUG-2010 12:57
Lab File ID: UX123004.D Init. Cal. Date(s): 05-NOV-2009 11-NOV-2009
Analysis Type: WATER Init. Cal. Times: 20:44 23:45
Lab Sample ID: 100NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m

COMPOUND	RRF / AMOUNT	RF100	CCAL RRF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 cis-1,3-Dichloropropene	100	82.42890	0.29028	0.010	17.57110	50.00000	Linear
49 4-Methyl-2-pentanone	0.22347	0.13350	0.13350	0.010	40.25869	50.00000	Averaged
50 Toluene	1.22413	1.21739	1.21739	0.010	0.55068	20.00000	Averaged
51 trans-1,3-Dichloropropene	100	72.79279	0.29555	0.010	27.20721	50.00000	Linear
52 Ethyl Methacrylate	100	61.35329	0.25476	0.010	38.64671	50.00000	Linear
53 1,1,2-Trichloroethane	0.26273	0.23619	0.23619	0.010	10.10178	50.00000	Averaged
54 1,3-Dichloropropane	0.49079	0.41605	0.41605	0.010	15.22949	50.00000	Averaged
55 Tetrachloroethene	0.19678	0.21931	0.21931	0.010	-11.44636	50.00000	Averaged
56 2-Hexanone	0.19173	0.11280	0.11280	0.010	41.16438	50.00000	Averaged
57 Dibromochloromethane	100	93.22010	0.21289	0.010	6.77990	50.00000	Linear
58 1,2-Dibromoethane	0.26998	0.23622	0.23622	0.010	12.50186	50.00000	Averaged
59 Chlorobenzene	0.86971	0.82563	0.82563	0.300	5.06855	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.24080	0.23645	0.23645	0.010	1.80774	50.00000	Averaged
61 Ethylbenzene	1.31543	1.22401	1.22401	0.010	6.95006	20.00000	Averaged
62 m + p-Xylene	1.04164	0.94598	0.94598	0.010	9.18373	50.00000	Averaged
M 63 Xylenes (total)	1.05699	0.96464	0.96464	0.010	8.73659	50.00000	Averaged
64 Xylene-o	1.08768	1.00197	1.00197	0.010	7.87952	50.00000	Averaged
65 Styrene	100	85.00239	0.88889	0.010	14.99761	50.00000	Linear
66 Bromoform	100	97.03640	0.12733	0.100	2.96360	50.00000	Linear
67 Isopropylbenzene	1.09304	1.07529	1.07529	0.010	1.62394	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.71571	0.45738	0.45738	0.300	36.09341	50.00000	Averaged
69 1,4-Dichloro-2-butene	100	82.51347	0.09856	0.010	17.48653	50.00000	Linear
70 1,2,3-Trichloropropane	0.23319	0.16996	0.16996	0.010	27.11669	50.00000	Averaged
71 Bromobenzene	0.67660	0.57360	0.57360	0.010	15.22396	50.00000	Averaged
72 n-Propylbenzene	2.22024	1.77653	1.77653	0.010	19.98478	50.00000	Averaged
73 2-Chlorotoluene	0.56309	0.45026	0.45026	0.010	20.03701	50.00000	Averaged
74 1,3,5-Trimethylbenzene	1.62407	1.36306	1.36306	0.010	16.07108	50.00000	Averaged
75 4-Chlorotoluene	0.60787	0.50487	0.50487	0.010	16.94352	50.00000	Averaged
76 tert-Butylbenzene	1.33420	1.13443	1.13443	0.010	14.97306	50.00000	Averaged
77 1,2,4-Trimethylbenzene	1.73041	1.46400	1.46400	0.010	15.39610	50.00000	Averaged
78 sec-Butylbenzene	1.73209	1.53150	1.53150	0.010	11.58050	50.00000	Averaged
79 4-Isopropyltoluene	1.52160	1.36013	1.36013	0.010	10.61218	50.00000	Averaged
80 1,3-Dichlorobenzene	1.19540	1.00907	1.00907	0.010	15.58779	50.00000	Averaged
81 1,4-Dichlorobenzene	1.32068	1.09306	1.09306	0.010	17.23497	50.00000	Averaged
82 n-Butylbenzene	1.31267	1.12164	1.12164	0.010	14.55343	50.00000	Averaged
83 1,2-Dichlorobenzene	1.22080	1.01012	1.01012	0.010	17.25728	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	100	59.72831	0.07496	0.010	40.27169	50.00000	Linear
85 1,2,4-Trichlorobenzene	0.66476	0.56117	0.56117	0.010	15.58316	50.00000	Averaged
86 Hexachlorobutadiene	100	120	0.30213	0.010	-19.75001	50.00000	Linear
87 Naphthalene	2.08044	1.27716	1.27716	0.010	38.61073	50.00000	Averaged
88 1,2,3-Trichlorobenzene	0.65382	0.50592	0.50592	0.010	22.62099	50.00000	Averaged
98 Cyclohexane	100	80.94984	0.23100	0.010	19.05016	50.00000	Linear
143 Methyl Acetate	0.29766	0.13783	0.13783	0.010	53.69460	50.00000	Averaged <-

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Report Date: 01-Aug-2010 13:13

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux12.i Injection Date: 01-AUG-2010 12:57
Lab File ID: UX123004.D Init. Cal. Date(s): 05-NOV-2009 11-NOV-2009
Analysis Type: WATER Init. Cal. Times: 20:44 23:45
Lab Sample ID: 100NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m

COMPOUND	RRF / AMOUNT	RF100	CCAL RRF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
144 Methylcyclohexane	100	88.04040	0.19175	0.010	11.95960	50.00000	Linear	
141 1,3,5-Trichlorobenzene	0.67913	0.62908	0.62908	0.010	7.37009	50.00000	Averaged	
146 2-Methylnaphthalene	1.14562	0.44635	0.44635	0.010	61.03897	50.00000	Averaged	<-

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Report Date: 01-Aug-2010 13:13

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Lab Smp Id: 100NG-CC
Inj Date : 01-AUG-2010 12:57
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 100NG-CC
Misc Info : T00801A,8260MIUX12,2-8260+.SUB,1903,2
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Meth Date : 01-Aug-2010 13:13 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260+.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.368	5.368	(1.000)	1100933	100.000	
*	2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	893197	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	604126	100.000	
$	4 Dibromofluoromethane	113	4.800	4.800	(0.894)	258564	100.000	111.75
$	5 1,2-Dichloroethane-d4	65	5.084	5.084	(0.947)	301346	100.000	101.07
$	6 Toluene-d8	98	6.729	6.729	(0.837)	986093	100.000	100.76
$	7 Bromofluorobenzene	95	9.143	9.143	(1.137)	379340	100.000	92.853
	8 Dichlorodifluoromethane	85	1.665	1.665	(0.310)	248484	100.000	109.82
	9 Chloromethane	50	1.819	1.819	(0.339)	329518	100.000	90.064
	10 Vinyl Chloride	62	1.925	1.925	(0.359)	314160	100.000	83.697
	11 Bromomethane	94	2.233	2.233	(0.416)	191890	100.000	60.029
	12 Chloroethane	64	2.327	2.327	(0.434)	196444	100.000	60.150
	13 Trichlorofluoromethane	101	2.540	2.540	(0.473)	364498	100.000	77.258
	15 Acrolein	56	2.872	2.872	(0.535)	265657	1000.00	694.34
	16 Acetone	43	3.002	3.002	(0.559)	129821	200.000	109.08
	17 1,1-Dichloroethene	61	2.990	2.990	(0.557)	368963	100.000	83.871
	18 Freon-113	101	2.990	2.990	(0.557)	205701	100.000	82.476
	19 Iodomethane	142	3.144	3.144	(0.586)	482587	100.000	97.934
	20 Carbon Disulfide	76	3.179	3.179	(0.592)	689846	100.000	82.123

21 Methylene Chloride	84	3.404	3.404 (0.634)	294609	100.000	82.053
22 Acetonitrile	41	3.227	3.227 (0.601)	286908	1000.00	528.34
23 Acrylonitrile	53	3.558	3.558 (0.663)	140654	200.000	112.09

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Report Date: 01-Aug-2010 13:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.582	3.582	(0.667)	522437	100.000	62.145
	25 trans-1,2-Dichloroethene	61	3.593	3.593	(0.669)	294890	100.000	90.304
	26 Hexane	57	3.806	3.806	(0.709)	145523	100.000	97.359
	27 Vinyl acetate	43	3.960	3.960	(0.738)	261107	100.000	92.586
	28 1,1-Dichloroethane	63	3.937	3.937	(0.733)	374899	100.000	95.599
	29 tert-Butyl Alcohol	59	3.440	3.440	(0.641)	261226	2000.00	736.60(A)
	30 2-Butanone	43	4.410	4.410	(0.821)	177424	200.000	122.96
M	31 1,2-Dichloroethene (total)	61				617818	200.000	183.75
	32 cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	322928	100.000	93.449
	33 2,2-Dichloropropane	77	4.422	4.422	(0.824)	162969	100.000	79.047
	34 Bromochloromethane	128	4.611	4.611	(0.859)	128431	100.000	109.04
	35 Chloroform	83	4.670	4.670	(0.870)	395139	100.000	97.816
	36 Tetrahydrofuran	42	4.658	4.658	(0.868)	50949	100.000	52.984
	37 1,1,1-Trichloroethane	97	4.836	4.836	(0.901)	282648	100.000	92.751
	38 1,1-Dichloropropene	75	4.966	4.966	(0.925)	292354	100.000	92.164
	39 Carbon Tetrachloride	117	4.978	4.978	(0.927)	222228	100.000	95.286
	40 1,2-Dichloroethane	62	5.155	5.155	(0.960)	305013	100.000	87.729
	41 Benzene	78	5.144	5.144	(0.958)	979715	100.000	95.323
	42 Trichloroethene	130	5.676	5.676	(1.057)	261703	100.000	103.82
	44 1,4-Dioxane	88	5.972	5.972	(1.112)	122279	5000.00	3191.7(A)
	43 1,2-Dichloropropane	63	5.877	5.877	(1.095)	222358	100.000	93.088
	45 Dibromomethane	93	5.972	5.972	(1.112)	134287	100.000	90.660
	46 Bromodichloromethane	83	6.090	6.090	(1.134)	272654	100.000	93.307
	47 2-Chloroethyl vinyl ether	63	6.339	6.339	(1.181)	194457	200.000	113.27
	48 cis-1,3-Dichloropropene	75	6.481	6.481	(1.207)	319575	100.000	82.429
	49 4-Methyl-2-pentanone	43	6.599	6.599	(1.229)	293953	200.000	119.48
	50 Toluene	91	6.788	6.788	(0.844)	1087369	100.000	99.449
	51 trans-1,3-Dichloropropene	75	6.966	6.966	(0.866)	263982	100.000	72.793
	52 Ethyl Methacrylate	69	7.025	7.025	(0.873)	227547	100.000	61.353
	53 1,1,2-Trichloroethane	97	7.132	7.132	(0.887)	210966	100.000	89.898
	54 1,3-Dichloropropane	76	7.285	7.285	(0.906)	371611	100.000	84.770
	55 Tetrachloroethene	164	7.285	7.285	(0.906)	195884	100.000	111.45
	56 2-Hexanone	43	7.345	7.345	(0.913)	201512	200.000	117.67
	57 Dibromochloromethane	129	7.498	7.498	(0.932)	190155	100.000	93.220
	58 1,2-Dibromoethane	107	7.617	7.617	(0.947)	210994	100.000	87.498
	59 Chlorobenzene	112	8.066	8.066	(1.003)	737450	100.000	94.931
	60 1,1,1,2-Tetrachloroethane	131	8.137	8.137	(1.012)	211192	100.000	98.192
	61 Ethylbenzene	91	8.161	8.161	(1.015)	1093283	100.000	93.050
	62 m + p-Xylene	91	8.267	8.267	(1.028)	1689889	200.000	181.63
M	63 Xylenes (total)	91				2584848	300.000	273.75
	64 Xylene-o	91	8.646	8.646	(1.075)	894959	100.000	92.120
	65 Styrene	104	8.658	8.658	(1.077)	793956	100.000	85.002
	66 Bromoform	173	8.847	8.847	(1.100)	113732	100.000	97.036
	67 Isopropylbenzene	105	8.989	8.989	(1.118)	960447	100.000	98.376
	68 1,1,2,2-Tetrachloroethane	83	9.273	9.273	(0.902)	276317	100.000	63.906
	69 1,4-Dichloro-2-butene	53	9.332	9.332	(0.908)	59545	100.000	82.513
	70 1,2,3-Trichloropropane	110	9.321	9.321	(0.907)	102677	100.000	72.883
	71 Bromobenzene	156	9.309	9.309	(0.906)	346526	100.000	84.776
	72 n-Propylbenzene	91	9.392	9.392	(0.914)	1073248	100.000	80.015
	73 2-Chlorotoluene	126	9.486	9.486	(0.923)	272016	100.000	79.963
	74 1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	823463	100.000	83.929
	75 4-Chlorotoluene	126	9.593	9.593	(0.933)	305006	100.000	83.056

76 tert-Butylbenzene	119	9.889	9.889 (0.962)	685338	100.000	85.027
77 1,2,4-Trimethylbenzene	105	9.924	9.924 (0.965)	884439	100.000	84.604

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Report Date: 01-Aug-2010 13:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	925220	100.000	88.419
79	4-Isopropyltoluene	119	10.232	10.232	(0.995)	821687	100.000	89.388
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	609604	100.000	84.412
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	660348	100.000	82.765
82	n-Butylbenzene	91	10.646	10.646	(1.036)	677609	100.000	85.446
83	1,2-Dichlorobenzene	146	10.681	10.681	(1.039)	610241	100.000	82.743
84	1,2-Dibromo-3-chloropropane	157	11.451	11.451	(1.114)	45283	100.000	59.728
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	339015	100.000	84.417
86	Hexachlorobutadiene	225	12.445	12.445	(1.211)	182527	100.000	119.75
87	Naphthalene	128	12.539	12.539	(1.220)	771568	100.000	61.389
88	1,2,3-Trichlorobenzene	180	12.799	12.799	(1.245)	305640	100.000	77.379
98	Cyclohexane	56	4.895	4.895	(0.912)	254320	100.000	80.950
143	Methyl Acetate	43	3.262	3.262	(0.608)	303489	200.000	92.611
144	Methylcyclohexane	83	5.854	5.854	(1.090)	211102	100.000	88.040
141	1,3,5-Trichlorobenzene	180	11.664	11.664	(1.135)	380044	100.000	92.630
146	2-Methylnaphthalene	142	13.888	13.888	(1.351)	674122	250.000	97.402

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123004.D
Report Date: 01-Aug-2010 13:13

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

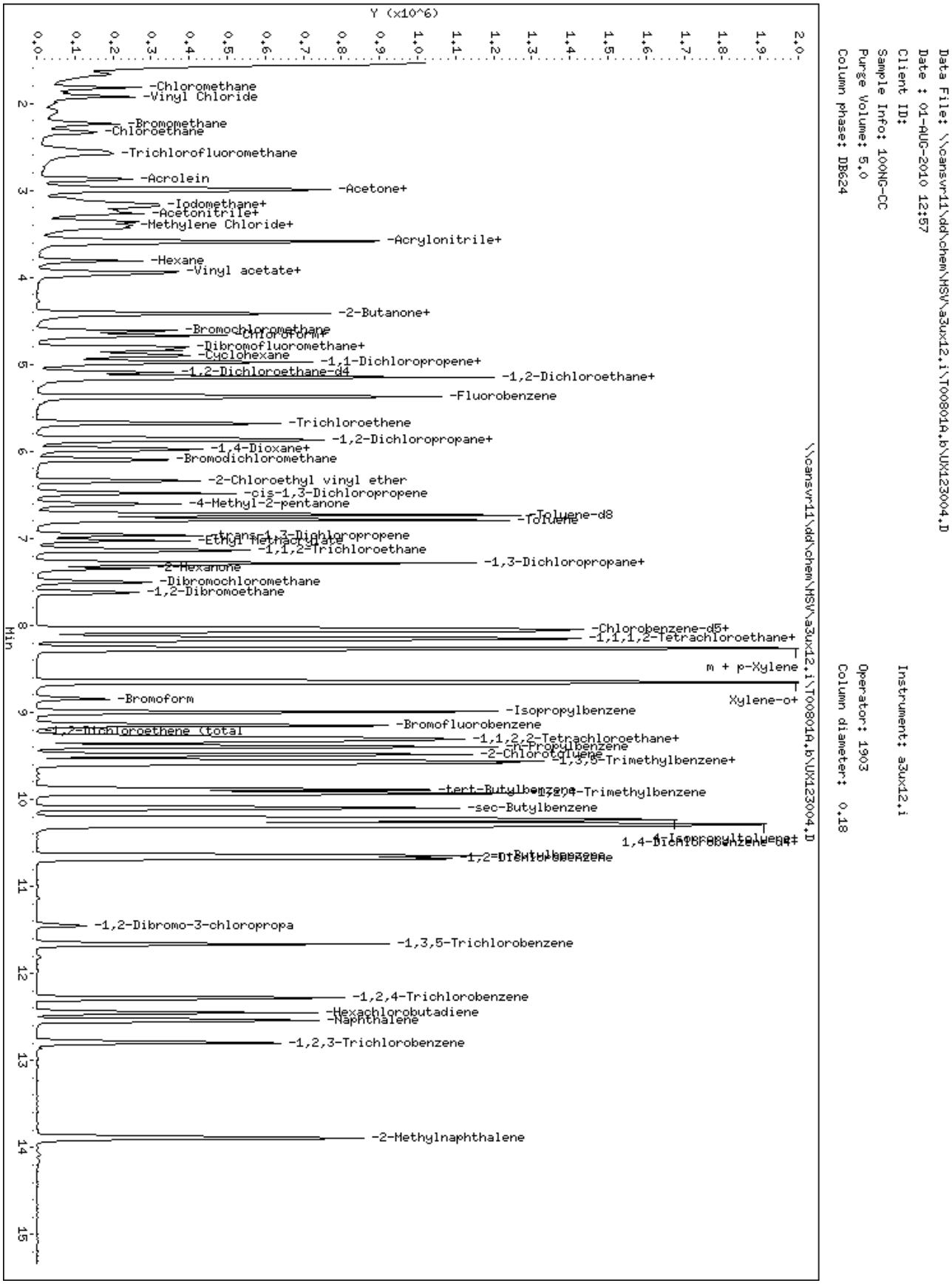
Instrument ID: a3ux12.i
Lab File ID: UX123004.D
Lab Smp Id: 100NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Misc Info: T00801A,8260MIUX12,2-8260+.SUB,1903,2

Calibration Date: 01-AUG-2010
Calibration Time: 12:57
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1100933	550467	2201866	1100933	0.00
2 Chlorobenzene-d5	893197	446599	1786394	893197	0.00
3 1,4-Dichlorobenze	604126	302063	1208252	604126	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T000801A.b\UX123004.D
Date : 01-AUG-2010 12:57
Client ID:
Sample Info: 100NG-CC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride+
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m + p-Xylene
Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
-1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux12.i\T000801A.b\UX123004.D

Report Date: 03-Aug-2010 18:00

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Start Cal Date: 05-NOV-2009 20:44
End Cal Date : 11-NOV-2009 23:45
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 2.50000		
06-NOV-2009 02:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128924.D
11-NOV-2009 23:45	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129067.D
Cal Level: 2 , Cal Amount: 5.00000		
06-NOV-2009 01:52	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128923.D
11-NOV-2009 23:20	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129066.D
Cal Level: 3 , Cal Amount: 25.00000		
06-NOV-2009 01:27	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128922.D
11-NOV-2009 22:55	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129065.D
Cal Level: 5 , Cal Amount: 100.00000		
06-NOV-2009 01:02	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128921.D
11-NOV-2009 22:30	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129064.D
Cal Level: 6 , Cal Amount: 250.00000		
06-NOV-2009 00:40	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128920.D
11-NOV-2009 22:07	2-8260	\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129063.D
Cal Level: 7 , Cal Amount: 500.00000		
06-NOV-2009 00:14	3-IX	\\cansvr11\dd\chem\MSV\a3ux12.i\T91105A.b\UX128919.D
11-NOV-2009 21:45	2-8260	

\\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\UX129062.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

02-AUG-2010 16:54	2-8260	
\\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D
Report Date: 02-Aug-2010 17:10

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux12.i Injection Date: 02-AUG-2010 16:54
Lab File ID: UX123032.D Init. Cal. Date(s): 05-NOV-2009 11-NOV-2009
Analysis Type: WATER Init. Cal. Times: 20:44 23:45
Lab Sample ID: 100NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m

COMPOUND	RRF / AMOUNT	RF100	CCAL RRF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.21016	0.23377	0.23377	0.010	-11.23569	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.27082	0.24552	0.24552	0.010	9.34411	50.00000	Averaged	
$ 6 Toluene-d8	1.09567	1.09532	1.09532	0.010	0.03240	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.45739	0.40637	0.40637	0.010	11.15420	50.00000	Averaged	
8 Dichlorodifluoromethane	0.20553	0.27079	0.27079	0.010	-31.75035	50.00000	Averaged	
9 Chloromethane	0.33233	0.32623	0.32623	0.100	1.83323	50.00000	Averaged	
10 Vinyl Chloride	0.34094	0.31407	0.31407	0.010	7.87969	20.00000	Averaged	
11 Bromomethane	100	64.29072	0.18800	0.010	35.70928	50.00000	Linear	
12 Chloroethane	100	64.82768	0.19602	0.010	35.17232	50.00000	Linear	
13 Trichlorofluoromethane	100	88.05080	0.38246	0.010	11.94920	50.00000	Linear	
15 Acrolein	0.03475	0.02665	0.02665	0.010	23.32647	50.00000	Averaged	
16 Acetone	200	121	0.06522	0.010	39.47027	50.00000	Linear	
17 1,1-Dichloroethene	0.39958	0.34799	0.34799	0.010	12.91112	20.00000	Averaged	
18 Freon-113	100	86.06301	0.19588	0.010	13.93699	50.00000	Linear	
19 Iodomethane	0.44759	0.47247	0.47247	0.010	-5.55796	50.00000	Averaged	
20 Carbon Disulfide	0.76301	0.64935	0.64935	0.010	14.89573	50.00000	Averaged	
21 Methylene Chloride	100	82.35904	0.26859	0.010	17.64096	50.00000	Linear	
22 Acetonitrile	0.04932	0.03010	0.03010	0.010	38.97541	50.00000	Averaged	
23 Acrylonitrile	0.11398	0.07536	0.07536	0.010	33.88053	50.00000	Averaged	
24 Methyl tert-butyl ether	0.76361	0.51408	0.51408	0.010	32.67791	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.29662	0.28666	0.28666	0.010	3.35548	50.00000	Averaged	
26 Hexane	0.13577	0.13514	0.13514	0.010	0.46127	20.00000	Averaged	
27 Vinyl acetate	0.25616	0.23852	0.23852	0.010	6.88774	50.00000	Averaged	
152 Vinyl acetate - 86	0.03214	0.03062	0.03062	0.010	4.71828	50.00000	Averaged	
28 1,1-Dichloroethane	0.35620	0.37421	0.37421	0.100	-5.05476	50.00000	Averaged	
29 tert-Butyl Alcohol	0.03221	0.01360	0.01360	0.010	57.77412	50.00000	Averaged	<-
30 2-Butanone	200	139	0.09012	0.010	30.44665	50.00000	Linear	
M 31 1,2-Dichloroethene (total)	0.30526	0.29927	0.29927	0.010	1.95936	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.31388	0.31189	0.31189	0.010	0.63685	50.00000	Averaged	
33 2,2-Dichloropropane	100	85.96202	0.16135	0.010	14.03798	50.00000	Linear	
34 Bromochloromethane	0.10698	0.12882	0.12882	0.010	-20.41382	50.00000	Averaged	
35 Chloroform	0.36693	0.40035	0.40035	0.010	-9.10824	20.00000	Averaged	
36 Tetrahydrofuran	100	62.11109	0.05308	0.010	37.88891	50.00000	Linear	
37 1,1,1-Trichloroethane	100	100	0.27817	0.010	-0.23098	50.00000	Linear	
38 1,1-Dichloropropene	100	98.13506	0.28339	0.010	1.86494	50.00000	Linear	
39 Carbon Tetrachloride	100	101	0.21398	0.010	-0.65386	50.00000	Linear	
40 1,2-Dichloroethane	0.31580	0.30706	0.30706	0.010	2.76930	50.00000	Averaged	
41 Benzene	0.93356	0.95501	0.95501	0.010	-2.29742	50.00000	Averaged	
42 Trichloroethene	0.22895	0.25999	0.25999	0.010	-13.55775	50.00000	Averaged	
43 1,2-Dichloropropane	0.21697	0.21955	0.21955	0.010	-1.19009	20.00000	Averaged	
44 1,4-Dioxane	5000	3624	0.00256	0.010	27.51738	50.00000	Linear	<-
45 Dibromomethane	0.13454	0.13458	0.13458	0.010	-0.02732	50.00000	Averaged	
46 Bromodichloromethane	100	104	0.27765	0.010	-3.95797	50.00000	Linear	

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D
Report Date: 02-Aug-2010 17:10

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux12.i Injection Date: 02-AUG-2010 16:54
Lab File ID: UX123032.D Init. Cal. Date(s): 05-NOV-2009 11-NOV-2009
Analysis Type: WATER Init. Cal. Times: 20:44 23:45
Lab Sample ID: 100NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m

COMPOUND	RRF / AMOUNT	RF100	CCAL RRF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
47 2-Chloroethyl vinyl ether	0.15593	0.09536	0.09536	0.010	38.84279	50.00000	Averaged
48 cis-1,3-Dichloropropene	100	90.87398	0.32222	0.010	9.12602	50.00000	Linear
49 4-Methyl-2-pentanone	0.22347	0.16143	0.16143	0.010	27.76024	50.00000	Averaged
50 Toluene	1.22413	1.26957	1.26957	0.010	-3.71183	20.00000	Averaged
51 trans-1,3-Dichloropropene	100	79.06608	0.32330	0.010	20.93392	50.00000	Linear
52 Ethyl Methacrylate	100	70.64113	0.29647	0.010	29.35887	50.00000	Linear
53 1,1,2-Trichloroethane	0.26273	0.25818	0.25818	0.010	1.73371	50.00000	Averaged
54 1,3-Dichloropropane	0.49079	0.45711	0.45711	0.010	6.86309	50.00000	Averaged
55 Tetrachloroethene	0.19678	0.22487	0.22487	0.010	-14.27285	50.00000	Averaged
56 2-Hexanone	0.19173	0.13266	0.13266	0.010	30.80626	50.00000	Averaged
57 Dibromochloromethane	100	104	0.24004	0.010	-4.01771	50.00000	Linear
58 1,2-Dibromoethane	0.26998	0.26112	0.26112	0.010	3.28132	50.00000	Averaged
59 Chlorobenzene	0.86971	0.87776	0.87776	0.300	-0.92555	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.24080	0.26600	0.26600	0.010	-10.46741	50.00000	Averaged
61 Ethylbenzene	1.31543	1.27608	1.27608	0.010	2.99139	20.00000	Averaged
62 m + p-Xylene	1.04164	0.99585	0.99585	0.010	4.39589	50.00000	Averaged
M 63 Xylenes (total)	1.05699	1.01488	1.01488	0.010	3.98392	50.00000	Averaged
64 Xylene-o	1.08768	1.05293	1.05293	0.010	3.19419	50.00000	Averaged
65 Styrene	100	91.22380	0.95947	0.010	8.77620	50.00000	Linear
66 Bromoform	100	107	0.14363	0.100	-7.27449	50.00000	Linear
67 Isopropylbenzene	1.09304	1.10788	1.10788	0.010	-1.35730	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.71571	0.52826	0.52826	0.300	26.18986	50.00000	Averaged
69 1,4-Dichloro-2-butene	100	89.30295	0.10916	0.010	10.69705	50.00000	Linear
70 1,2,3-Trichloropropane	0.23319	0.19636	0.19636	0.010	15.79640	50.00000	Averaged
71 Bromobenzene	0.67660	0.61974	0.61974	0.010	8.40390	50.00000	Averaged
72 n-Propylbenzene	2.22024	1.89379	1.89379	0.010	14.70351	50.00000	Averaged
73 2-Chlorotoluene	0.56309	0.47989	0.47989	0.010	14.77488	50.00000	Averaged
74 1,3,5-Trimethylbenzene	1.62407	1.43468	1.43468	0.010	11.66119	50.00000	Averaged
75 4-Chlorotoluene	0.60787	0.53707	0.53707	0.010	11.64724	50.00000	Averaged
76 tert-Butylbenzene	1.33420	1.16268	1.16268	0.010	12.85595	50.00000	Averaged
77 1,2,4-Trimethylbenzene	1.73041	1.56005	1.56005	0.010	9.84536	50.00000	Averaged
78 sec-Butylbenzene	1.73209	1.59502	1.59502	0.010	7.91322	50.00000	Averaged
79 4-Isopropyltoluene	1.52160	1.44134	1.44134	0.010	5.27479	50.00000	Averaged
80 1,3-Dichlorobenzene	1.19540	1.09048	1.09048	0.010	8.77719	50.00000	Averaged
81 1,4-Dichlorobenzene	1.32068	1.18550	1.18550	0.010	10.23614	50.00000	Averaged
82 n-Butylbenzene	1.31267	1.15986	1.15986	0.010	11.64170	50.00000	Averaged
83 1,2-Dichlorobenzene	1.22080	1.11015	1.11015	0.010	9.06377	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	100	72.63422	0.09409	0.010	27.36578	50.00000	Linear
85 1,2,4-Trichlorobenzene	0.66476	0.60561	0.60561	0.010	8.89716	50.00000	Averaged
86 Hexachlorobutadiene	100	104	0.26458	0.010	-3.74380	50.00000	Linear
87 Naphthalene	2.08044	1.46535	1.46535	0.010	29.56516	50.00000	Averaged
88 1,2,3-Trichlorobenzene	0.65382	0.55286	0.55286	0.010	15.44129	50.00000	Averaged
98 Cyclohexane	100	82.99947	0.23728	0.010	17.00053	50.00000	Linear

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D
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TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux12.i Injection Date: 02-AUG-2010 16:54
Lab File ID: UX123032.D Init. Cal. Date(s): 05-NOV-2009 11-NOV-2009
Analysis Type: WATER Init. Cal. Times: 20:44 23:45
Lab Sample ID: 100NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m

COMPOUND	RRF / AMOUNT	RF100	CCAL RRF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
143 Methyl Acetate	0.29766	0.15720	0.15720	0.010	47.18721	50.00000	Averaged
144 Methylcyclohexane	100	91.32630	0.19935	0.010	8.67370	50.00000	Linear
141 1,3,5-Trichlorobenzene	0.67913	0.65669	0.65669	0.010	3.30489	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D
Report Date: 02-Aug-2010 17:10

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D
Lab Smp Id: 100NG-CC
Inj Date : 02-AUG-2010 16:54
Operator : 1903 Inst ID: a3ux12.i
Smp Info : 100NG-CC
Misc Info : T00802A,8260MIUX12,2-8260.SUB,1903,2
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	5.369	5.369	(1.000)	1001644	100.000	
*	2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	825482	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	542805	100.000	
$	4 Dibromofluoromethane	113	4.801	4.801	(0.894)	234157	100.000	111.24
$	5 1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	245919	100.000	90.656
$	6 Toluene-d8	98	6.729	6.729	(0.837)	904165	100.000	99.968
$	7 Bromofluorobenzene	95	9.143	9.143	(1.137)	335452	100.000	88.846
	8 Dichlorodifluoromethane	85	1.665	1.665	(0.310)	271231	100.000	131.75
	9 Chloromethane	50	1.819	1.819	(0.339)	326771	100.000	98.167
	10 Vinyl Chloride	62	1.925	1.925	(0.359)	314591	100.000	92.120
	11 Bromomethane	94	2.233	2.233	(0.416)	188310	100.000	64.291
	12 Chloroethane	64	2.327	2.327	(0.434)	196342	100.000	64.828
	13 Trichlorofluoromethane	101	2.540	2.540	(0.473)	383088	100.000	88.051
	15 Acrolein	56	2.872	2.872	(0.535)	266897	1000.00	766.74
	16 Acetone	43	3.002	3.002	(0.559)	130663	200.000	121.06
	17 1,1-Dichloroethene	61	2.990	2.990	(0.557)	348566	100.000	87.089
	18 Freon-113	101	2.990	2.990	(0.557)	196205	100.000	86.063
	19 Iodomethane	142	3.144	3.144	(0.586)	473245	100.000	105.56
	20 Carbon Disulfide	76	3.179	3.179	(0.592)	650419	100.000	85.104

21	Methylene Chloride	84	3.357	3.357 (0.625)	269028	100.000	82.359
22	Acetonitrile	41	3.239	3.239 (0.603)	301497	1000.00	610.24
23	Acrylonitrile	53	3.558	3.558 (0.663)	150977	200.000	132.24

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 Methyl tert-butyl ether	73	3.582	3.582	(0.667)	514921	100.000	67.322
	25 trans-1,2-Dichloroethene	61	3.594	3.594	(0.669)	287134	100.000	96.644
	26 Hexane	57	3.807	3.807	(0.709)	135363	100.000	99.539
	27 Vinyl acetate	43	3.960	3.960	(0.738)	238910	100.000	93.112
	152 Vinyl acetate - 86	86	3.960	3.960	(0.738)	30674	100.000	95.282(A)
	28 1,1-Dichloroethane	63	3.937	3.937	(0.733)	374824	100.000	105.05
	29 tert-Butyl Alcohol	59	3.440	3.440	(0.641)	272485	2000.00	844.52(A)
	30 2-Butanone	43	4.410	4.410	(0.821)	180528	200.000	139.11
M	31 1,2-Dichloroethene (total)	61				599532	200.000	196.01
	32 cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	312398	100.000	99.363
	33 2,2-Dichloropropane	77	4.422	4.422	(0.824)	161615	100.000	85.962
	34 Bromochloromethane	128	4.611	4.611	(0.859)	129036	100.000	120.41
	35 Chloroform	83	4.670	4.670	(0.870)	401004	100.000	109.11
	36 Tetrahydrofuran	42	4.659	4.659	(0.868)	53168	100.000	62.111
	37 1,1,1-Trichloroethane	97	4.836	4.836	(0.901)	278629	100.000	100.23
	38 1,1-Dichloropropene	75	4.966	4.966	(0.925)	283856	100.000	98.135
	39 Carbon Tetrachloride	117	4.978	4.978	(0.927)	214335	100.000	100.65
	40 1,2-Dichloroethane	62	5.156	5.156	(0.960)	307561	100.000	97.231
	41 Benzene	78	5.144	5.144	(0.958)	956576	100.000	102.30
	42 Trichloroethene	130	5.676	5.676	(1.057)	260420	100.000	113.56
	43 1,2-Dichloropropane	63	5.877	5.877	(1.095)	219912	100.000	101.19
	44 1,4-Dioxane	88	5.972	5.972	(1.112)	128041	5000.00	3624.1
	45 Dibromomethane	93	5.972	5.972	(1.112)	134799	100.000	100.03
	46 Bromodichloromethane	83	6.090	6.090	(1.134)	278108	100.000	103.96
	47 2-Chloroethyl vinyl ether	63	6.339	6.339	(1.181)	191040	200.000	122.31
	48 cis-1,3-Dichloropropene	75	6.481	6.481	(1.207)	322752	100.000	90.874
	49 4-Methyl-2-pentanone	43	6.599	6.599	(1.229)	323394	200.000	144.48
	50 Toluene	91	6.788	6.788	(0.844)	1048006	100.000	103.71
	51 trans-1,3-Dichloropropene	75	6.966	6.966	(0.866)	266878	100.000	79.066
	52 Ethyl Methacrylate	69	7.025	7.025	(0.873)	244734	100.000	70.641
	53 1,1,2-Trichloroethane	97	7.132	7.132	(0.887)	213121	100.000	98.266
	54 1,3-Dichloropropane	76	7.297	7.297	(0.907)	377334	100.000	93.137
	55 Tetrachloroethene	164	7.285	7.285	(0.906)	185625	100.000	114.27
	56 2-Hexanone	43	7.345	7.345	(0.913)	219022	200.000	138.39
	57 Dibromochloromethane	129	7.498	7.498	(0.932)	198149	100.000	104.02
	58 1,2-Dibromoethane	107	7.617	7.617	(0.947)	215547	100.000	96.719
	59 Chlorobenzene	112	8.066	8.066	(1.003)	724576	100.000	100.92
	60 1,1,1,2-Tetrachloroethane	131	8.137	8.137	(1.012)	219581	100.000	110.47
	61 Ethylbenzene	91	8.161	8.161	(1.015)	1053385	100.000	97.009
	62 m + p-Xylene	91	8.268	8.268	(1.028)	1644112	200.000	191.21
M	63 Xylenes (total)	91				2513290	300.000	288.01
	64 Xylene-o	91	8.646	8.646	(1.075)	869178	100.000	96.806
	65 Styrene	104	8.658	8.658	(1.077)	792025	100.000	91.224
	66 Bromoform	173	8.847	8.847	(1.100)	118563	100.000	107.27
	67 Isopropylbenzene	105	8.989	8.989	(1.118)	914533	100.000	101.36
	68 1,1,2,2-Tetrachloroethane	83	9.273	9.273	(0.902)	286744	100.000	73.810
	69 1,4-Dichloro-2-butene	53	9.333	9.333	(0.908)	59254	100.000	89.303
	70 1,2,3-Trichloropropane	110	9.321	9.321	(0.907)	106584	100.000	84.204
	71 Bromobenzene	156	9.309	9.309	(0.906)	336400	100.000	91.596
	72 n-Propylbenzene	91	9.392	9.392	(0.914)	1027957	100.000	85.296
	73 2-Chlorotoluene	126	9.486	9.486	(0.923)	260489	100.000	85.225
	74 1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	778754	100.000	88.339

75	4-Chlorotoluene	126	9.593	9.593 (0.933)	291522	100.000	88.353
76	tert-Butylbenzene	119	9.889	9.889 (0.962)	631106	100.000	87.144

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D
Report Date: 02-Aug-2010 17:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
77	1,2,4-Trimethylbenzene	105	9.924	9.924	(0.965)	846802	100.000	90.155
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	865786	100.000	92.087
79	4-Isopropyltoluene	119	10.244	10.244	(0.997)	782366	100.000	94.725
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	591919	100.000	91.223
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	643493	100.000	89.764
82	n-Butylbenzene	91	10.646	10.646	(1.036)	629576	100.000	88.358
83	1,2-Dichlorobenzene	146	10.682	10.682	(1.039)	602594	100.000	90.936
84	1,2-Dibromo-3-chloropropane	157	11.451	11.451	(1.114)	51075	100.000	72.634
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	328729	100.000	91.103
86	Hexachlorobutadiene	225	12.445	12.445	(1.211)	143616	100.000	103.74
87	Naphthalene	128	12.539	12.539	(1.220)	795400	100.000	70.435
88	1,2,3-Trichlorobenzene	180	12.800	12.800	(1.245)	300097	100.000	84.559
98	Cyclohexane	56	4.895	4.895	(0.912)	237666	100.000	82.999
143	Methyl Acetate	43	3.262	3.262	(0.608)	314922	200.000	105.62
144	Methylcyclohexane	83	5.854	5.854	(1.090)	199676	100.000	91.326
141	1,3,5-Trichlorobenzene	180	11.664	11.664	(1.135)	356454	100.000	96.695

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123032.D
Report Date: 02-Aug-2010 17:10

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

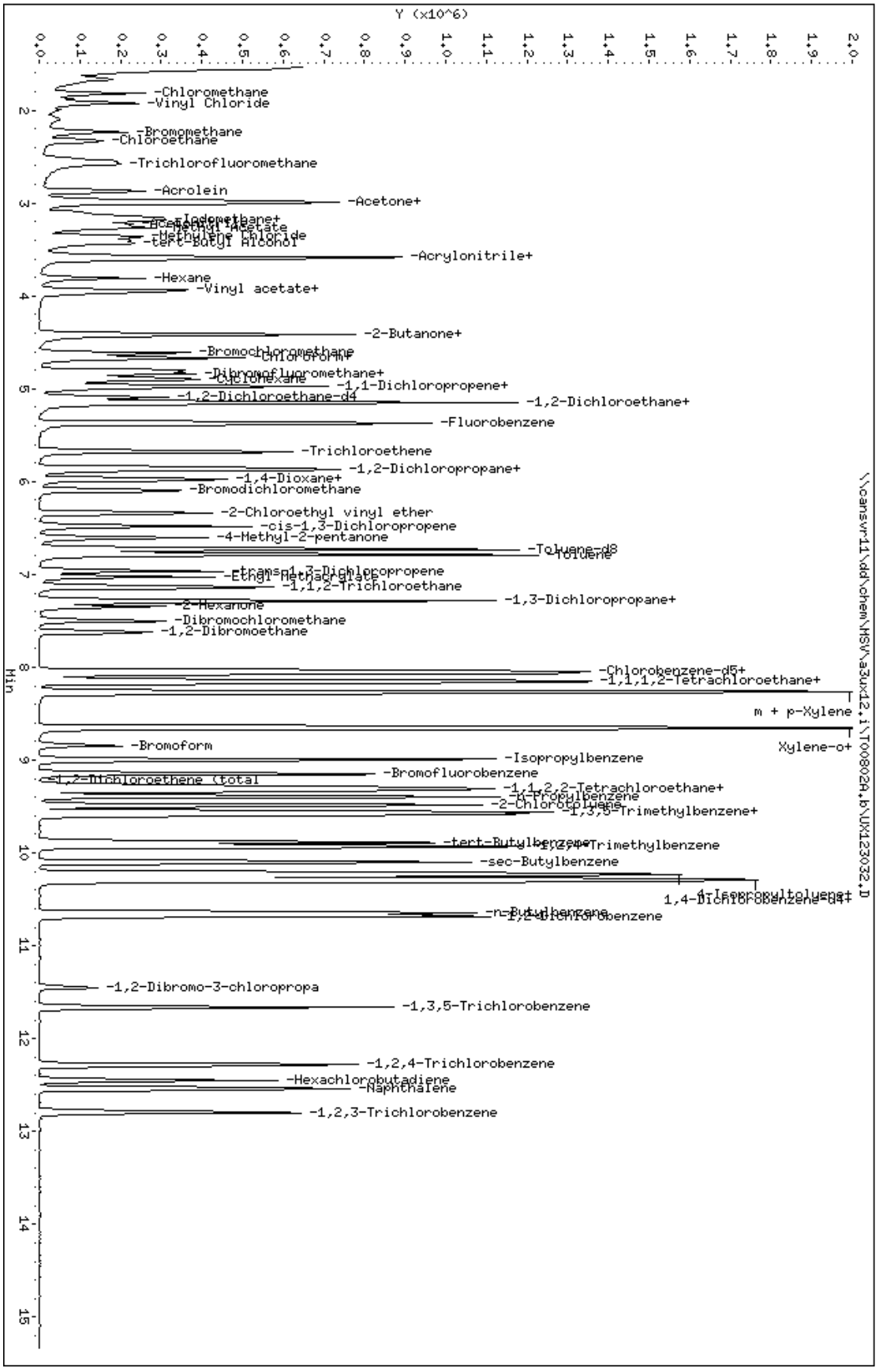
Instrument ID: a3ux12.i
Lab File ID: UX123032.D
Lab Smp Id: 100NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,2-8260.SUB,1903,2

Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	1001644	0.00
2 Chlorobenzene-d5	825482	412741	1650964	825482	0.00
3 1,4-Dichlorobenze	542805	271403	1085610	542805	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T000802A.b\UX123032.D
Date : 02-AUG-2010 16:54
Client ID:
Sample Info: 100NG-CC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18

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RAW QC DATA

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\BFB1108.D
Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
Inj Date : 11-NOV-2009 19:45
Operator : 1903 Inst ID: a3ux12.i
Smp Info :
Misc Info : T91111A,BFBUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A.b\BFBUX12.m
Meth Date : 14-May-2008 15:55 laveyt Quant Type: ESTD
Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.780	3.850	-0.070	95	168960			100.00- 100.00	100.00
3.780	3.850	-0.070	50	31160			15.00- 40.00	18.44
3.780	3.850	-0.070	75	80768			30.00- 60.00	47.80
3.780	3.850	-0.070	96	11873			5.00- 9.00	7.03
3.780	3.850	-0.070	173	0	0.0	0.0	0.00- 2.00	0.00
3.780	3.850	-0.070	174	124024			50.00- 100.00	73.40
3.780	3.850	-0.070	175	9078			5.00- 9.00	7.32
3.780	3.850	-0.070	176	119760			95.00- 101.00	96.56
3.780	3.850	-0.070	177	7877			5.00- 9.00	6.58

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\BFB1108.D Page 1

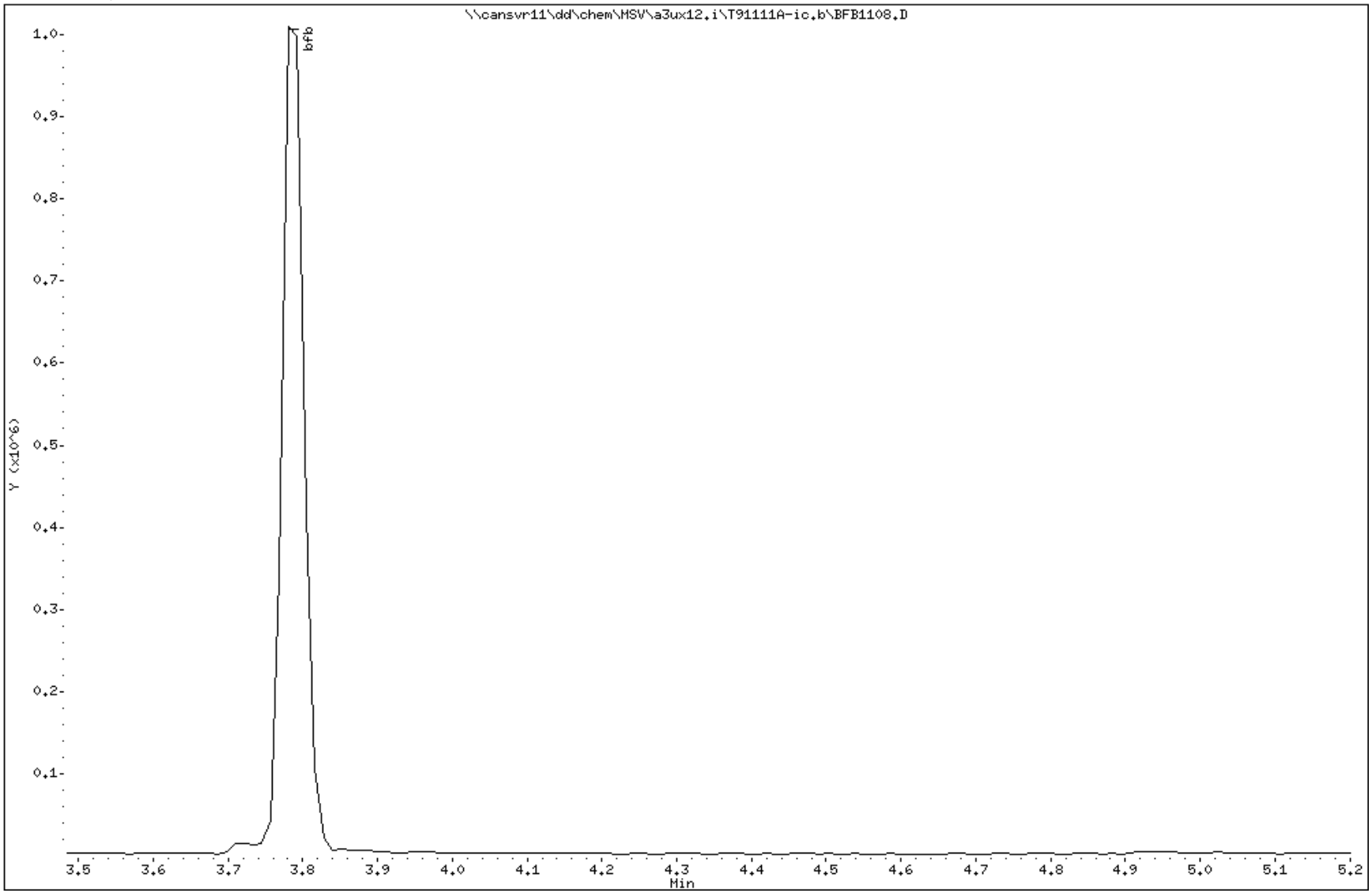
Date : 11-NOV-2009 19:45

Client ID: 50NG BFB Instrument: a3ux12.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 1903

Column phase: DB624 20M Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T91111A-ic.b\BFB1108.D

Date : 11-NOV-2009 19:45

Client ID: 50NG BFB

Instrument: a3ux12.i

Sample Info:

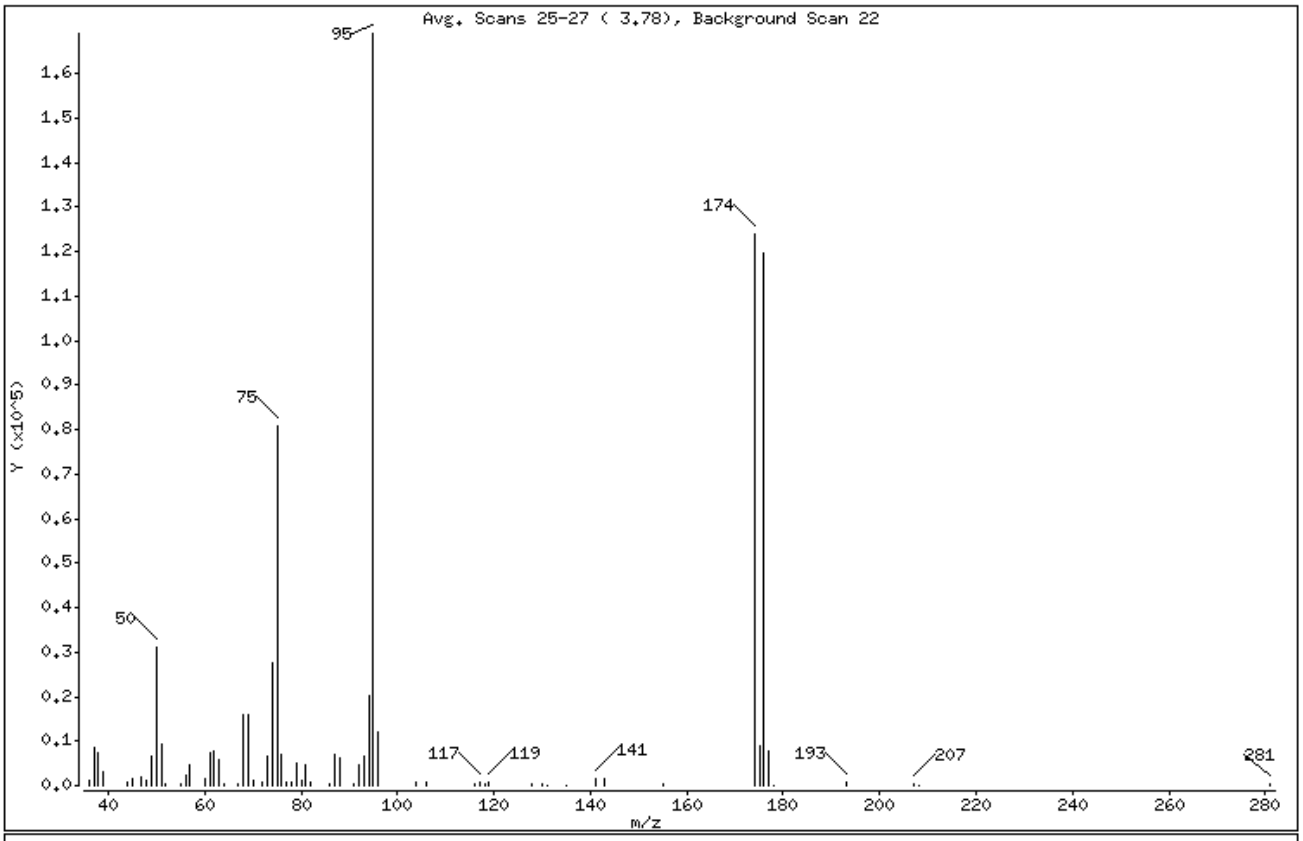
Volume Injected (uL): 1.0

Operator: 1903

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.44
75	30.00 - 60.00% of mass 95	47.80
96	5.00 - 9.00% of mass 95	7.03
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	73.40
175	5.00 - 9.00% of mass 174	5.37 (7.32)
176	95.00 - 101.00% of mass 174	70.88 (96.56)
177	5.00 - 9.00% of mass 176	4.66 (6.58)

Date : 11-NOV-2009 19:45

Client ID: 50NG BFB Instrument: a3ux12.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 1903

Column phase: DB624 20M Column diameter: 0.18

Data File: BFB1108.D
Spectrum: Avg. Scans 25-27 (3.78), Background Scan 22
Location of Maximum: 95.00
Number of points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1355	62.00	7802	82.00	837	130.00	478
37.00	8552	63.00	5888	86.00	246	131.00	186
38.00	7263	64.00	486	87.00	6819	135.00	171
39.00	3000	67.00	494	88.00	6249	141.00	1580
44.00	687	68.00	16116	91.00	425	143.00	1478
45.00	1594	69.00	16107	92.00	4694	155.00	414
47.00	1784	70.00	1168	93.00	6675	174.00	124024
48.00	1034	72.00	879	94.00	20056	175.00	9078
49.00	6596	73.00	6418	95.00	168960	176.00	119760
50.00	31160	74.00	27536	96.00	11873	177.00	7877
51.00	9438	75.00	80768	104.00	658	178.00	186
52.00	425	76.00	7144	106.00	610	193.00	605
55.00	367	77.00	939	116.00	514	207.00	251
56.00	2500	78.00	618	117.00	760	208.00	179
57.00	4817	79.00	4979	118.00	507	281.00	530
60.00	1485	80.00	1350	119.00	677		
61.00	7436	81.00	4726	128.00	514		

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Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\BFB1296.D
Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
Inj Date : 01-AUG-2010 12:33
Operator : 1903 Inst ID: a3ux12.i
Smp Info :
Misc Info : T00801A,BFBUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\BFBUX12.m
Meth Date : 03-May-2010 19:26 laveyt Quant Type: ESTD
Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.780	3.850	-0.070	95	203456			100.00- 100.00	100.00
3.780	3.850	-0.070	50	36160			15.00- 40.00	17.77
3.780	3.850	-0.070	75	98800			30.00- 60.00	48.56
3.780	3.850	-0.070	96	14555			5.00- 9.00	7.15
3.780	3.850	-0.070	173	0	0.0	0.0	0.00- 2.00	0.00
3.780	3.850	-0.070	174	188992			50.00- 0.00	92.89
3.780	3.850	-0.070	175	13996			5.00- 9.00	7.41
3.780	3.850	-0.070	176	183744			95.00- 101.00	97.22
3.780	3.850	-0.070	177	11542			5.00- 9.00	6.28

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\BFB1296.D

Page 1

Date : 01-AUG-2010 12:33

Client ID: 50NG BFB

Instrument: a3ux12.i

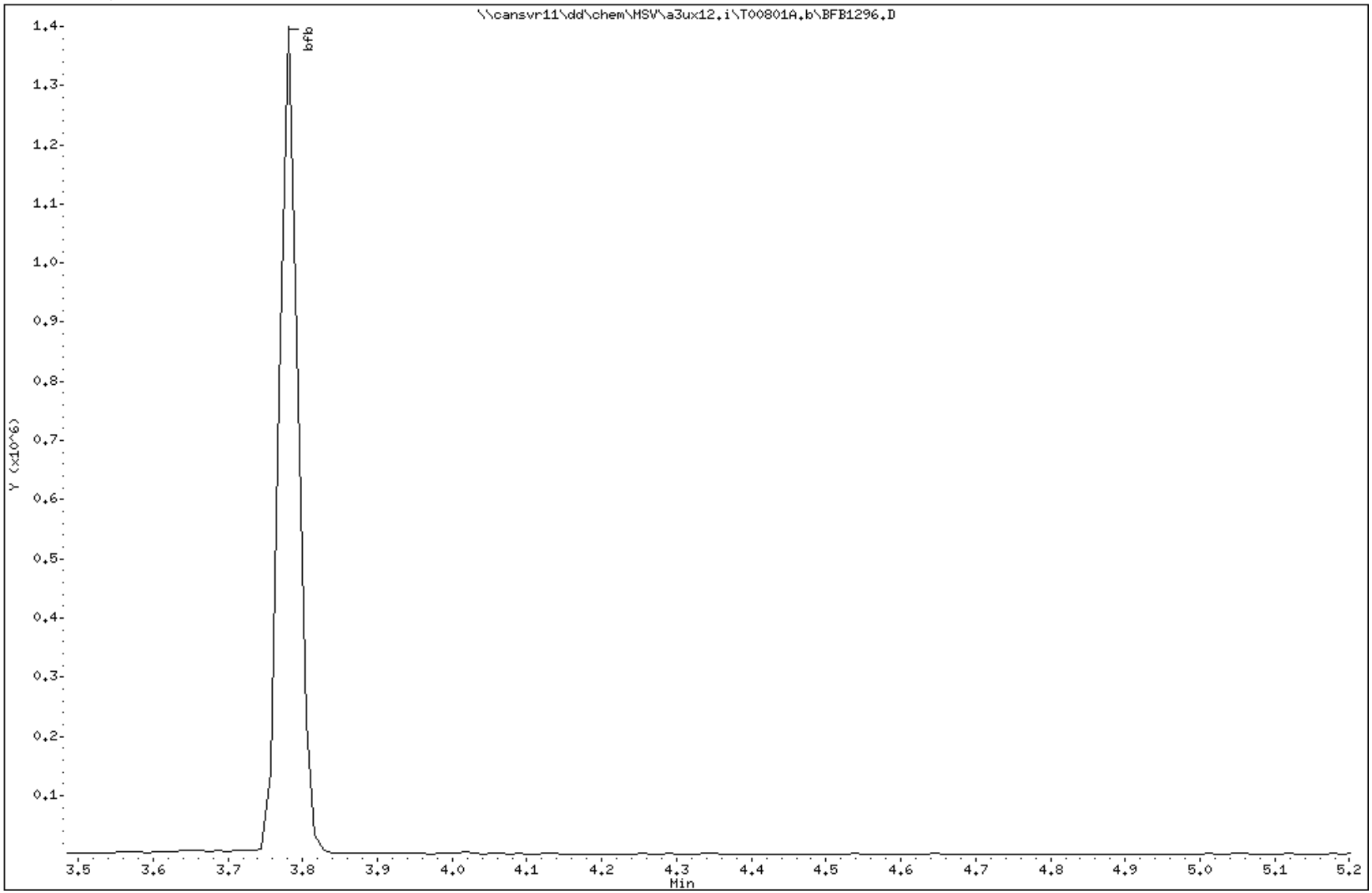
Sample Info:

Volume Injected (uL): 1.0

Operator: 1903

Column phase: DB624 20M

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\BFB1296.D

Date : 01-AUG-2010 12:33

Client ID: 50NG BFB

Instrument: a3ux12.i

Sample Info:

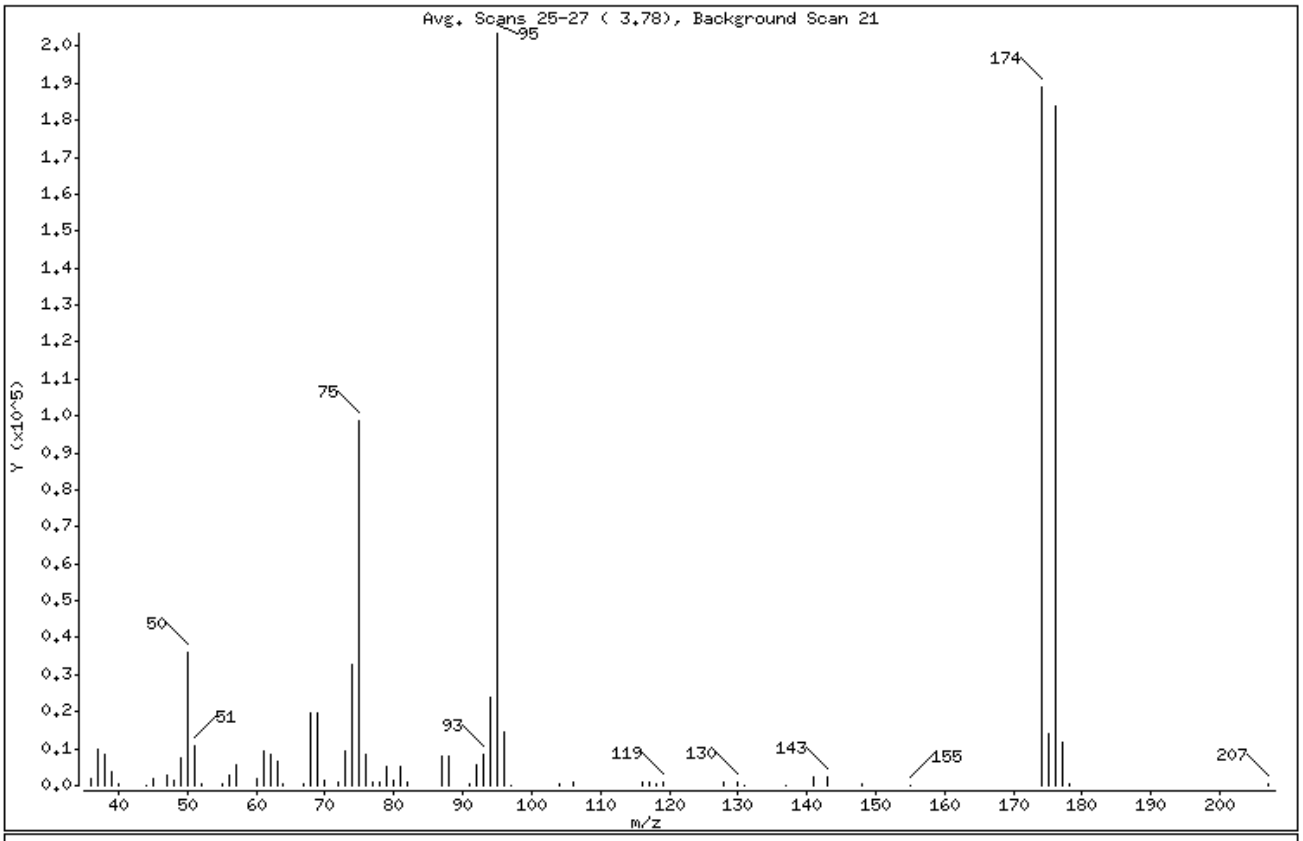
Volume Injected (uL): 1.0

Operator: 1903

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.77
75	30.00 - 60.00% of mass 95	48.56
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	92.89
175	5.00 - 9.00% of mass 174	6.88 (7.41)
176	95.00 - 101.00% of mass 174	90.31 (97.22)
177	5.00 - 9.00% of mass 176	5.67 (6.28)

Date : 01-AUG-2010 12:33

Client ID: 50NG BFB Instrument: a3ux12.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 1903

Column phase: DB624 20M Column diameter: 0.18

Data File: BFB1296.D
Spectrum: Avg. Scans 25-27 (3.78), Background Scan 21
Location of Maximum: 95.00
Number of points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1836	61.00	9262	81.00	4932	128.00	756
37.00	9891	62.00	8555	82.00	1056	130.00	984
38.00	8342	63.00	6727	87.00	8017	131.00	179
39.00	3525	64.00	689	88.00	8042	137.00	180
40.00	352	67.00	358	91.00	502	141.00	2201
44.00	143	68.00	19856	92.00	5838	143.00	2239
45.00	1708	69.00	19704	93.00	8574	148.00	597
47.00	2619	70.00	1577	94.00	23976	155.00	212
48.00	1250	72.00	1127	95.00	203456	174.00	188992
49.00	7697	73.00	9427	96.00	14555	175.00	13996
50.00	36160	74.00	32512	97.00	182	176.00	183744
51.00	10547	75.00	98800	104.00	503	177.00	11542
52.00	476	76.00	8408	106.00	836	178.00	238
55.00	477	77.00	1067	116.00	832	207.00	428
56.00	2703	78.00	959	117.00	1027		
57.00	5413	79.00	4986	118.00	616		
60.00	1693	80.00	1556	119.00	1045		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\BFB1297.D
Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
Inj Date : 02-AUG-2010 16:28
Operator : 1903 Inst ID: a3ux12.i
Smp Info :
Misc Info : T00802A,BFBUX12,,1903
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\BFBUX12.m
Meth Date : 03-May-2010 19:26 laveyt Quant Type: ESTD
Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.780	3.850	-0.070	95	208320			100.00- 100.00	100.00
3.780	3.850	-0.070	50	37032			15.00- 40.00	17.78
3.780	3.850	-0.070	75	102192			30.00- 60.00	49.06
3.780	3.850	-0.070	96	13385			5.00- 9.00	6.43
3.780	3.850	-0.070	173	0	0.0	0.0	0.00- 2.00	0.00
3.780	3.850	-0.070	174	188544			50.00- 0.00	90.51
3.780	3.850	-0.070	175	14729			5.00- 9.00	7.81
3.780	3.850	-0.070	176	183936			95.00- 101.00	97.56
3.780	3.850	-0.070	177	12280			5.00- 9.00	6.68

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\BFB1297.D

Page 1

Date : 02-AUG-2010 16:28

Client ID: 50NG BFB

Instrument: a3ux12.i

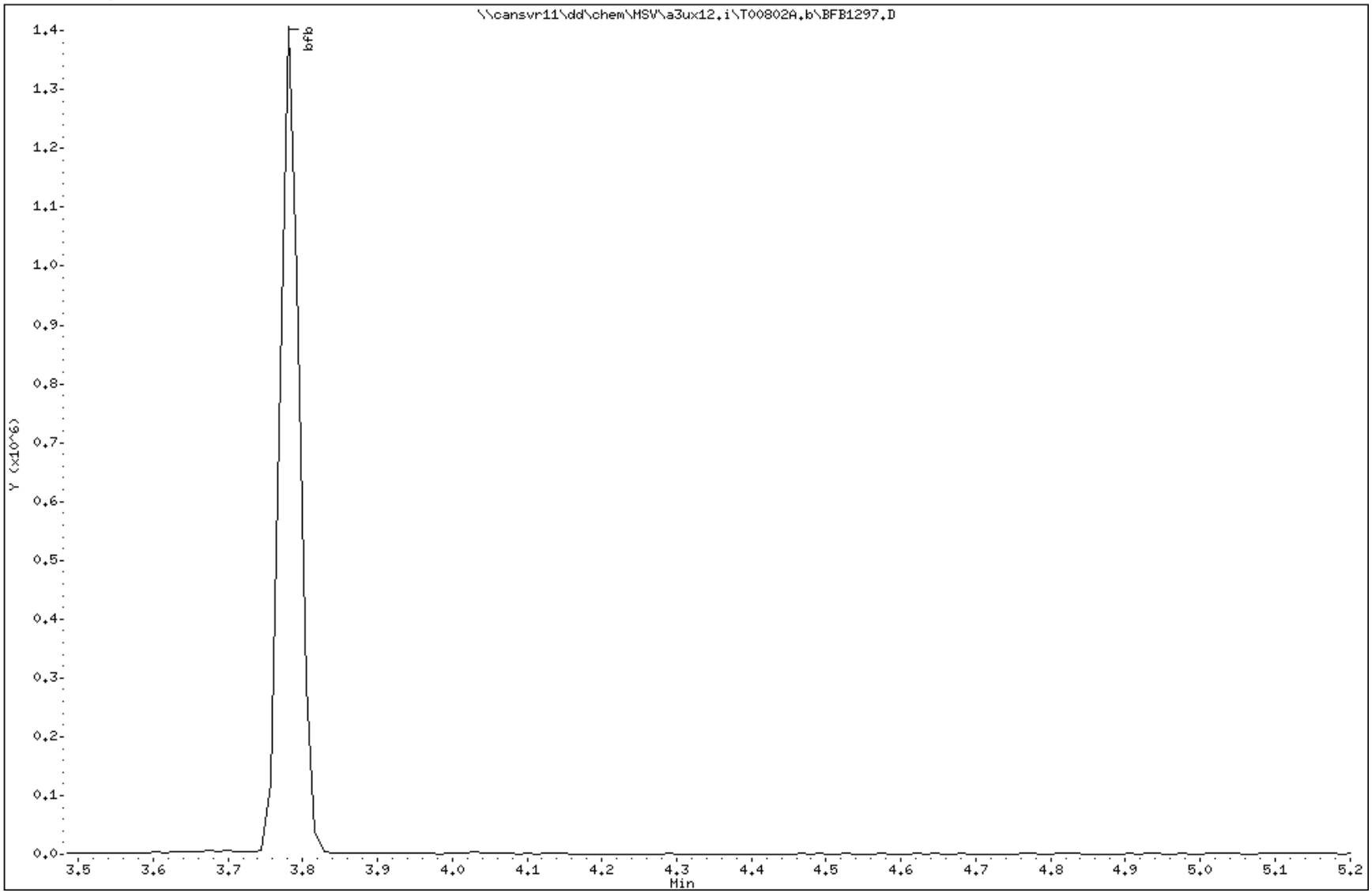
Sample Info:

Volume Injected (uL): 1.0

Operator: 1903

Column phase: DB624 20M

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\BFB1297.D Page 2

Date : 02-AUG-2010 16:28

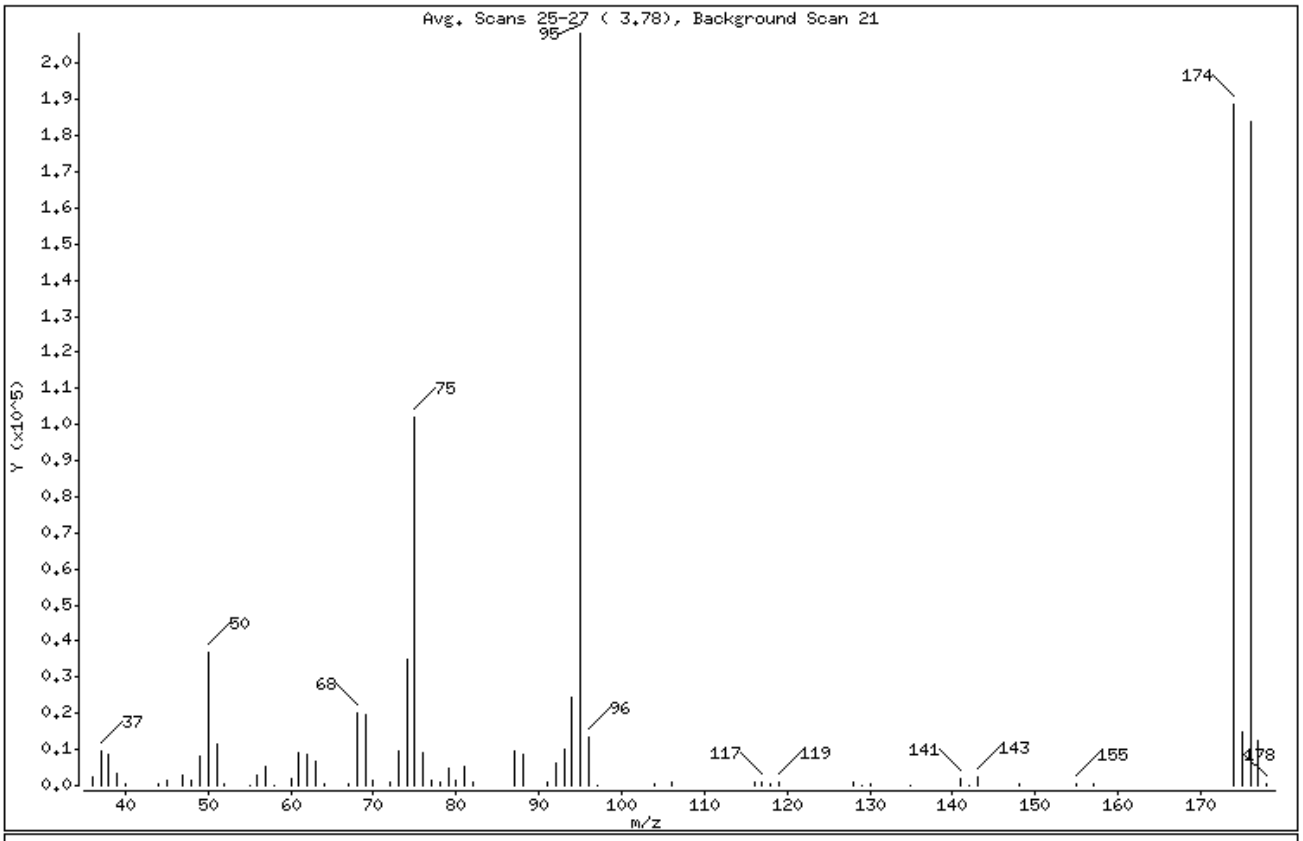
Client ID: 50NG BFB Instrument: a3ux12.i

Sample Info:

Volume Injected (uL): 1.0 Operator: 1903

Column phase: DB624 20M Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.78
75	30.00 - 60.00% of mass 95	49.06
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	90.51
175	5.00 - 9.00% of mass 174	7.07 (7.81)
176	95.00 - 101.00% of mass 174	88.29 (97.56)
177	5.00 - 9.00% of mass 176	5.89 (6.68)

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\BFB1297.D

Date : 02-AUG-2010 16:28

Client ID: 50NG BFB

Instrument: a3ux12.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1903

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB1297.D
Spectrum: Avg. Scans 25-27 (3.78), Background Scan 21
Location of Maximum: 95.00
Number of points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2206	60.00	2054	80.00	1637	119.00	900
37.00	9567	61.00	8903	81.00	5445	128.00	719
38.00	8678	62.00	8677	82.00	1149	129.00	225
39.00	3413	63.00	6738	87.00	9366	130.00	635
40.00	387	64.00	562	88.00	8809	135.00	176
44.00	291	67.00	352	91.00	796	141.00	2094
45.00	1630	68.00	19936	92.00	6358	142.00	217
47.00	2740	69.00	19856	93.00	9962	143.00	2242
48.00	1327	70.00	1626	94.00	24584	148.00	383
49.00	7911	72.00	1117	95.00	208320	155.00	582
50.00	37032	73.00	9762	96.00	13385	157.00	387
51.00	11429	74.00	34744	97.00	173	174.00	188544
52.00	460	75.00	102192	104.00	685	175.00	14729
55.00	188	76.00	9015	106.00	970	176.00	183936
56.00	2922	77.00	1206	116.00	829	177.00	12280
57.00	5118	78.00	965	117.00	1167	178.00	400
58.00	219	79.00	4930	118.00	652		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L41D91AC **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-377
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**86**	**(63 - 130)**	**SW846 8260B**
Trichloroethene	**115**	**(75 - 122)**	**SW846 8260B**
Benzene	**103**	**(80 - 116)**	**SW846 8260B**
Toluene	**104**	**(74 - 119)**	**SW846 8260B**
Chlorobenzene	**102**	**(76 - 117)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	103	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L41D91AC **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-377
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**20**	**17**	**ug/L**	**86**	**SW846 8260B**
Trichloroethene	**20**	**23**	**ug/L**	**115**	**SW846 8260B**
Benzene	**20**	**21**	**ug/L**	**103**	**SW846 8260B**
Toluene	**20**	**21**	**ug/L**	**104**	**SW846 8260B**
Chlorobenzene	**20**	**20**	**ug/L**	**102**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	103	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123005.D
Report Date: 01-Aug-2010 13:36

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123005.D
Lab Smp Id: CHECK
Inj Date : 01-AUG-2010 13:20
Operator : 1903 Inst ID: a3ux12.i
Smp Info : CHECK
Misc Info : T00801A,8260MIUX12,,1903,3
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Meth Date : 01-Aug-2010 13:13 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 3 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.368	5.368	(1.000)	1029604	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	824505	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	458650	100.000	
$ 4 Dibromofluoromethane	113	4.800	4.800	(0.894)	234953	108.583	21.716
$ 5 1,2-Dichloroethane-d4	65	5.096	5.084	(0.949)	256341	91.9317	18.386
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	929731	102.916	20.583
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	359222	95.2541	19.051
8 Dichlorodifluoromethane	85	1.665	1.665	(0.310)	239743	113.293	22.658
9 Chloromethane	50	1.819	1.819	(0.339)	315966	92.3431	18.469
10 Vinyl Chloride	62	1.925	1.925	(0.359)	297783	84.8305	16.966
11 Bromomethane	94	2.233	2.233	(0.416)	173311	58.1730	11.635
12 Chloroethane	64	2.339	2.327	(0.436)	184093	60.2474	12.049
13 Trichlorofluoromethane	101	2.552	2.540	(0.475)	360862	81.3342	16.267
15 Acrolein	56	2.872	2.872	(0.535)	95468	266.810	53.362
16 Acetone	43	3.002	3.002	(0.559)	120201	107.961	21.592
17 1,1-Dichloroethene	61	2.990	2.990	(0.557)	355035	86.2963	17.259
18 Freon-113	101	2.990	2.990	(0.557)	230838	97.2987	19.460
19 Iodomethane	142	3.144	3.144	(0.586)	511099	110.906	22.181
20 Carbon Disulfide	76	3.179	3.179	(0.592)	714749	90.9819	18.196
21 Methylene Chloride	84	3.369	3.404	(0.628)	288446	85.9438	17.189

22 Acetonitrile	41	3.227	3.227 (0.601)	91970	181.097	36.219
23 Acrylonitrile	53	3.558	3.558 (0.663)	229145	195.255	39.051

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123005.D
Report Date: 01-Aug-2010 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	3.582	3.582	(0.667)	543092	69.0770	13.815
	25 trans-1,2-Dichloroethene	61	3.593	3.593	(0.669)	299269	97.9936	19.599
	26 Hexane	57	3.806	3.806	(0.709)	158474	113.369	22.674
	27 Vinyl acetate	43	3.972	3.960	(0.740)	675325	256.052	51.210(A)
	152 Vinyl acetate - 86	86	3.960	3.970	(0.738)	43451	131.305	26.261(A)
	28 1,1-Dichloroethane	63	3.937	3.937	(0.733)	392367	106.985	21.397
	29 tert-Butyl Alcohol	59	3.440	3.440	(0.641)	299899	904.241	180.85(A)
	30 2-Butanone	43	4.422	4.410	(0.824)	179032	133.732	26.746
M	31 1,2-Dichloroethene (total)	61				629936	200.311	40.062
	32 cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	330667	102.318	20.464
	33 2,2-Dichloropropane	77	4.422	4.422	(0.824)	185166	95.5611	19.112
	34 Bromochloromethane	128	4.611	4.611	(0.859)	131555	119.431	23.886
	35 Chloroform	83	4.670	4.670	(0.870)	410242	108.591	21.718
	36 Tetrahydrofuran	42	4.658	4.658	(0.868)	55367	63.0426	12.608
	37 1,1,1-Trichloroethane	97	4.836	4.836	(0.901)	280841	98.3449	19.669
	38 1,1-Dichloropropene	75	4.966	4.966	(0.925)	290758	97.8030	19.560
	39 Carbon Tetrachloride	117	4.978	4.978	(0.927)	205182	94.1483	18.830
	40 1,2-Dichloroethane	62	5.155	5.155	(0.960)	311276	95.7328	19.146
	41 Benzene	78	5.144	5.144	(0.958)	988058	102.795	20.559
	42 Trichloroethene	130	5.676	5.676	(1.057)	270011	114.543	22.908
	43 1,2-Dichloropropane	63	5.877	5.877	(1.095)	224355	100.431	20.086
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.972	5.972	(1.112)	142215	102.665	20.533
	46 Bromodichloromethane	83	6.090	6.090	(1.134)	267187	97.5139	19.503
	47 2-Chloroethyl vinyl ether	63	6.339	6.339	(1.181)	98840	61.5643	12.313
	48 cis-1,3-Dichloropropene	75	6.481	6.481	(1.207)	315199	86.6215	17.324
	49 4-Methyl-2-pentanone	43	6.599	6.599	(1.229)	322284	140.074	28.015
	50 Toluene	91	6.788	6.788	(0.844)	1047748	103.809	20.762
	51 trans-1,3-Dichloropropene	75	6.966	6.966	(0.866)	272160	80.6008	16.120
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	7.132	7.132	(0.887)	209638	96.7749	19.355
	54 1,3-Dichloropropane	76	7.285	7.285	(0.906)	384291	94.9665	18.993
	55 Tetrachloroethene	164	7.285	7.285	(0.906)	186680	115.058	23.012
	56 2-Hexanone	43	7.345	7.345	(0.913)	230361	145.724	29.145
	57 Dibromochloromethane	129	7.498	7.498	(0.932)	189249	99.8376	19.968
	58 1,2-Dibromoethane	107	7.617	7.617	(0.947)	213656	95.9838	19.197
	59 Chlorobenzene	112	8.066	8.066	(1.003)	729100	101.676	20.335
	60 1,1,1,2-Tetrachloroethane	131	8.137	8.137	(1.012)	208295	104.914	20.983
	61 Ethylbenzene	91	8.161	8.161	(1.015)	1057188	97.4742	19.495
	62 m + p-Xylene	91	8.267	8.267	(1.028)	1651937	192.346	38.469
M	63 Xylenes (total)	91				2536128	290.940	58.188
	64 Xylene-o	91	8.646	8.646	(1.075)	884191	98.5946	19.719
	65 Styrene	104	8.658	8.658	(1.077)	785742	90.6523	18.130
	66 Bromoform	173	8.847	8.847	(1.100)	112334	102.635	20.527
	67 Isopropylbenzene	105	8.989	8.989	(1.118)	906510	100.587	20.117
	68 1,1,2,2-Tetrachloroethane	83	9.273	9.273	(0.902)	280898	85.5722	17.114
	69 1,4-Dichloro-2-butene	53	9.332	9.332	(0.908)	115519	180.719	36.144
	70 1,2,3-Trichloropropane	110	9.321	9.321	(0.907)	106054	99.1581	19.832
	71 Bromobenzene	156	9.309	9.309	(0.906)	350270	112.872	22.574
	72 n-Propylbenzene	91	9.392	9.392	(0.914)	1044492	102.571	20.514
	73 2-Chlorotoluene	126	9.486	9.486	(0.923)	267521	103.585	20.717
	74 1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	781921	104.973	20.994

75	4-Chlorotoluene	126	9.593	9.593 (0.933)	288417	103.450	20.690
76	tert-Butylbenzene	119	9.889	9.889 (0.962)	637803	104.228	20.846

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123005.D
Report Date: 01-Aug-2010 13:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	9.924	9.924	(0.965)	860166	108.380	21.676
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	870105	109.527	21.905
79	4-Isopropyltoluene	119	10.232	10.232	(0.995)	797173	114.227	22.845
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	583721	106.466	21.293
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	628907	103.826	20.765
82	n-Butylbenzene	91	10.646	10.646	(1.036)	653648	108.569	21.714
83	1,2-Dichlorobenzene	146	10.681	10.681	(1.039)	594819	106.233	21.246
84	1,2-Dibromo-3-chloropropane	157	11.451	11.451	(1.114)	48813	80.9510	16.190
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	338104	110.894	22.179
86	Hexachlorobutadiene	225	12.444	12.445	(1.211)	161589	141.139	28.228
87	Naphthalene	128	12.539	12.539	(1.220)	791267	82.9254	16.585
88	1,2,3-Trichlorobenzene	180	12.799	12.799	(1.245)	306524	102.217	20.443
98	Cyclohexane	56	4.895	4.895	(0.912)	246936	83.8361	16.767
143	Methyl Acetate	43	3.274	3.262	(0.610)	165584	54.0291	10.806
144	Methylcyclohexane	83	5.854	5.854	(1.090)	208880	92.8507	18.570
141	1,3,5-Trichlorobenzene	180	11.664	11.664	(1.135)	15793	5.07024	1.014

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123005.D
Report Date: 01-Aug-2010 13:36

TestAmerica North Canton

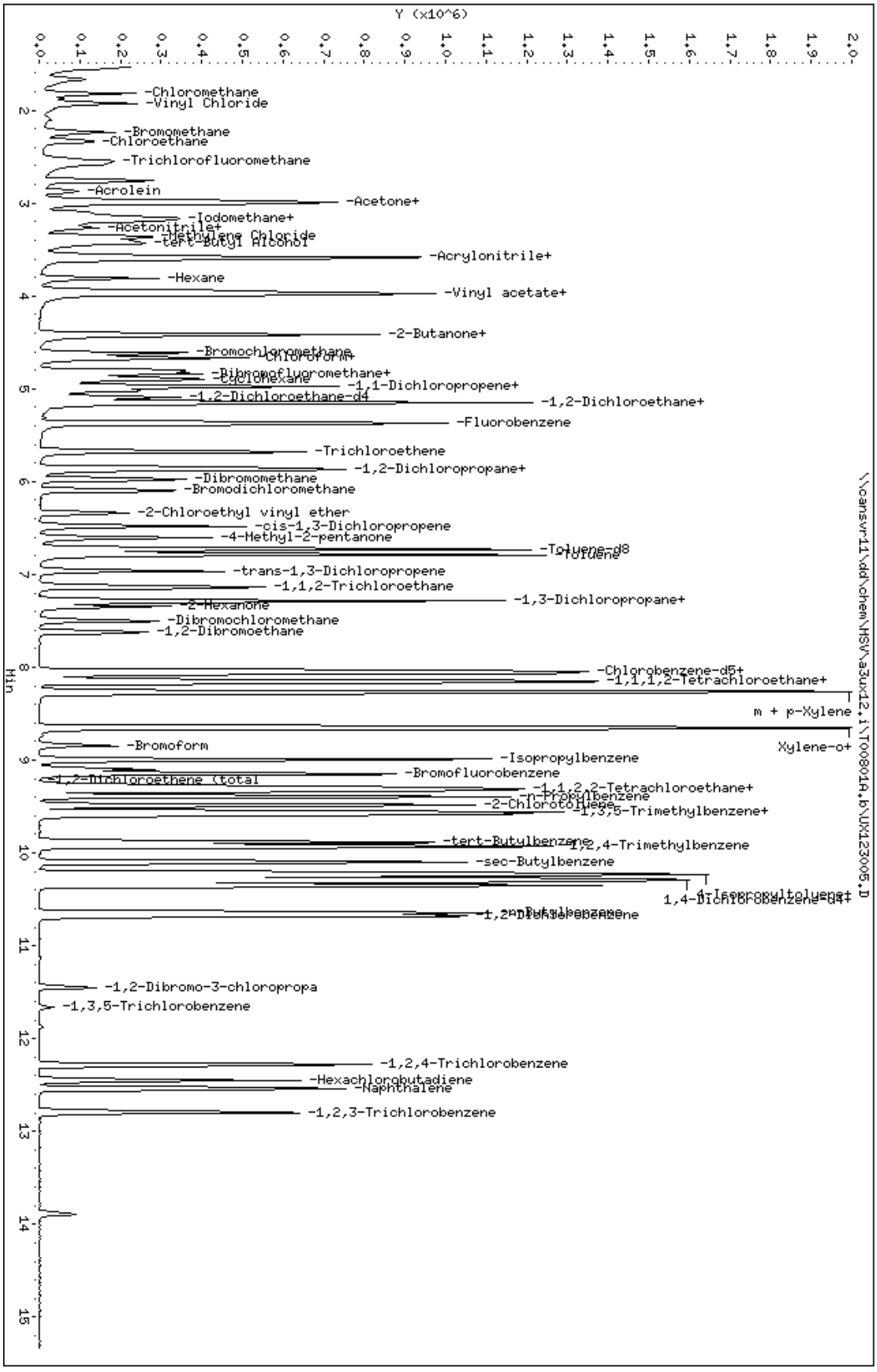
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Calibration Date: 01-AUG-2010
Lab File ID: UX123005.D
Calibration Time: 12:57
Lab Smp Id: CHECK
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: WATER
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Misc Info: T00801A,8260MIUX12,,1903,3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1100933	550467	2201866	1029604	-6.48
2 Chlorobenzene-d5	893197	446599	1786394	824505	-7.69
3 1,4-Dichlorobenze	604126	302063	1208252	458650	-24.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T008014.b\UX123005.D
Date : 01-AUG-2010 13:20
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L42H81AC **Matrix.....:** WATER
LCS Lot-Sample#: A0H030000-323
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**92**	**(63 - 130)**	**SW846 8260B**
Trichloroethene	**117**	**(75 - 122)**	**SW846 8260B**
Benzene	**107**	**(80 - 116)**	**SW846 8260B**
Toluene	**109**	**(74 - 119)**	**SW846 8260B**
Chlorobenzene	**107**	**(76 - 117)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	105	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L42H81AC **Matrix.....:** WATER
LCS Lot-Sample#: A0H030000-323
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**20**	**18**	**ug/L**	**92**	**SW846 8260B**
Trichloroethene	**20**	**23**	**ug/L**	**117**	**SW846 8260B**
Benzene	**20**	**21**	**ug/L**	**107**	**SW846 8260B**
Toluene	**20**	**22**	**ug/L**	**109**	**SW846 8260B**
Chlorobenzene	**20**	**21**	**ug/L**	**107**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	105	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123033.D
Report Date: 02-Aug-2010 17:34

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123033.D
Lab Smp Id: CHECK
Inj Date : 02-AUG-2010 17:18
Operator : 1903 Inst ID: a3ux12.i
Smp Info : CHECK
Misc Info : T00802A,8260MIUX12,,1903,3
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 3 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.368	5.369	(1.000)	976056	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	772247	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	448519	100.000	
$ 4 Dibromofluoromethane	113	4.800	4.801	(0.894)	229020	111.648	22.330
$ 5 1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	254302	96.2038	19.241
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	886851	104.813	20.962
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	335831	95.0777	19.016
8 Dichlorodifluoromethane	85	1.665	1.665	(0.310)	219084	109.210	21.842
9 Chloromethane	50	1.819	1.819	(0.339)	295163	90.9958	18.199
10 Vinyl Chloride	62	1.925	1.925	(0.359)	282572	84.9135	16.983
11 Bromomethane	94	2.233	2.233	(0.416)	171320	60.4104	12.082
12 Chloroethane	64	2.339	2.327	(0.436)	179429	61.5855	12.317
13 Trichlorofluoromethane	101	2.552	2.540	(0.475)	364254	86.1035	17.221
15 Acrolein	56	2.872	2.872	(0.535)	93503	275.655	55.131
16 Acetone	43	3.002	3.002	(0.559)	125205	118.983	23.797
17 1,1-Dichloroethene	61	2.990	2.990	(0.557)	357934	91.7739	18.355
18 Freon-113	101	3.002	2.990	(0.559)	222356	98.7310	19.746
19 Iodomethane	142	3.144	3.144	(0.586)	514020	117.659	23.532
20 Carbon Disulfide	76	3.179	3.179	(0.592)	718390	96.4622	19.292
21 Methylene Chloride	84	3.369	3.357	(0.628)	265992	83.5773	16.715

22 Acetonitrile	41	3.238	3.239 (0.603)	89746	186.413	37.282
23 Acrylonitrile	53	3.558	3.558 (0.663)	234644	210.910	42.182

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123033.D
Report Date: 02-Aug-2010 17:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	3.582	3.582	(0.667)	546601	73.3375	14.667
25	trans-1,2-Dichloroethene	61	3.593	3.594	(0.669)	292642	101.081	20.216
26	Hexane	57	3.806	3.807	(0.709)	148339	111.940	22.388
27	Vinyl acetate	43	3.972	3.960	(0.740)	644321	257.699	51.540(A)
152	Vinyl acetate - 86	86	3.960	3.960	(0.738)	39156	124.818	24.964(A)
28	1,1-Dichloroethane	63	3.937	3.937	(0.733)	384632	110.630	22.126
29	tert-Butyl Alcohol	59	3.440	3.440	(0.641)	315767	1004.32	200.86(A)
30	2-Butanone	43	4.422	4.410	(0.824)	182779	145.060	29.012
M 31	1,2-Dichloroethene (total)	61				613276	205.737	41.147
32	cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	320634	104.656	20.931
33	2,2-Dichloropropane	77	4.422	4.422	(0.824)	173092	94.2614	18.852
34	Bromochloromethane	128	4.611	4.611	(0.859)	128211	122.780	24.556
35	Chloroform	83	4.670	4.670	(0.870)	394764	110.226	22.045
36	Tetrahydrofuran	42	4.658	4.659	(0.868)	59679	72.9278	14.586
37	1,1,1-Trichloroethane	97	4.836	4.836	(0.901)	281843	103.924	20.785
38	1,1-Dichloropropene	75	4.966	4.966	(0.925)	290099	102.763	20.552
39	Carbon Tetrachloride	117	4.978	4.978	(0.927)	209764	101.064	20.213
40	1,2-Dichloroethane	62	5.155	5.156	(0.960)	305251	99.0303	19.806
41	Benzene	78	5.144	5.144	(0.958)	972420	106.718	21.344
42	Trichloroethene	130	5.676	5.676	(1.057)	261824	117.163	23.433
43	1,2-Dichloropropane	63	5.877	5.877	(1.095)	219151	103.484	20.697
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	5.972	5.972	(1.112)	139182	105.987	21.197
46	Bromodichloromethane	83	6.102	6.090	(1.137)	266022	102.146	20.429
47	2-Chloroethyl vinyl ether	63	6.339	6.339	(1.181)	95711	62.8860	12.577
48	cis-1,3-Dichloropropene	75	6.481	6.481	(1.207)	296023	85.8677	17.174
49	4-Methyl-2-pentanone	43	6.599	6.599	(1.229)	337340	154.661	30.932
50	Toluene	91	6.788	6.788	(0.844)	1030374	108.996	21.799
51	trans-1,3-Dichloropropene	75	6.966	6.966	(0.866)	257646	81.4016	16.280
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	7.132	7.132	(0.887)	210671	103.833	20.766
54	1,3-Dichloropropane	76	7.285	7.297	(0.906)	382081	100.810	20.162
55	Tetrachloroethene	164	7.285	7.285	(0.906)	184675	121.525	24.305
56	2-Hexanone	43	7.344	7.345	(0.913)	236902	160.003	32.001
57	Dibromochloromethane	129	7.498	7.498	(0.932)	191154	106.996	21.399
58	1,2-Dibromoethane	107	7.617	7.617	(0.947)	211081	101.244	20.249
59	Chlorobenzene	112	8.066	8.066	(1.003)	720948	107.343	21.468
60	1,1,1,2-Tetrachloroethane	131	8.137	8.137	(1.012)	202925	109.126	21.825
61	Ethylbenzene	91	8.161	8.161	(1.015)	1045353	102.905	20.581
62	m + p-Xylene	91	8.267	8.268	(1.028)	1603137	199.295	39.859
M 63	Xylenes (total)	91				2455448	300.766	60.153
64	Xylene-o	91	8.646	8.646	(1.075)	852311	101.471	20.294
65	Styrene	104	8.658	8.658	(1.077)	768059	94.3185	18.864
66	Bromoform	173	8.847	8.847	(1.100)	107970	104.877	20.975
67	Isopropylbenzene	105	8.989	8.989	(1.118)	890790	105.532	21.106
68	1,1,2,2-Tetrachloroethane	83	9.273	9.273	(0.902)	283748	88.3929	17.678
69	1,4-Dichloro-2-butene	53	9.332	9.333	(0.908)	86331	142.676	28.535
70	1,2,3-Trichloropropane	110	9.321	9.321	(0.907)	109980	105.151	21.030
71	Bromobenzene	156	9.309	9.309	(0.906)	331019	109.078	21.816
72	n-Propylbenzene	91	9.392	9.392	(0.914)	1012961	101.721	20.344
73	2-Chlorotoluene	126	9.486	9.486	(0.923)	257016	101.766	20.353
74	1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	759080	104.208	20.842

75	4-Chlorotoluene	126	9.593	9.593 (0.933)	282992	103.797	20.759
76	tert-Butylbenzene	119	9.889	9.889 (0.962)	620358	103.667	20.733

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123033.D
Report Date: 02-Aug-2010 17:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	9.924	9.924	(0.965)	846580	109.078	21.816
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	847551	109.098	21.820
79	4-Isopropyltoluene	119	10.244	10.244	(0.997)	790179	115.783	23.156
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	570349	106.376	21.275
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	607274	102.519	20.504
82	n-Butylbenzene	91	10.646	10.646	(1.036)	635285	107.902	21.580
83	1,2-Dichlorobenzene	146	10.681	10.682	(1.039)	581123	106.131	21.226
84	1,2-Dibromo-3-chloropropane	157	11.451	11.451	(1.114)	50181	84.6289	16.926
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	322712	108.236	21.647
86	Hexachlorobutadiene	225	12.456	12.445	(1.212)	135785	120.009	24.002
87	Naphthalene	128	12.539	12.539	(1.220)	810611	86.8715	17.374
88	1,2,3-Trichlorobenzene	180	12.799	12.800	(1.245)	304156	103.718	20.744
98	Cyclohexane	56	4.895	4.895	(0.912)	236086	84.5033	16.901
143	Methyl Acetate	43	3.262	3.262	(0.608)	172864	59.4990	11.900
144	Methylcyclohexane	83	5.854	5.854	(1.090)	205118	95.9964	19.199
141	1,3,5-Trichlorobenzene	180	11.664	11.664	(1.135)	15686	5.14963	1.030

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123033.D
Report Date: 02-Aug-2010 17:34

TestAmerica North Canton

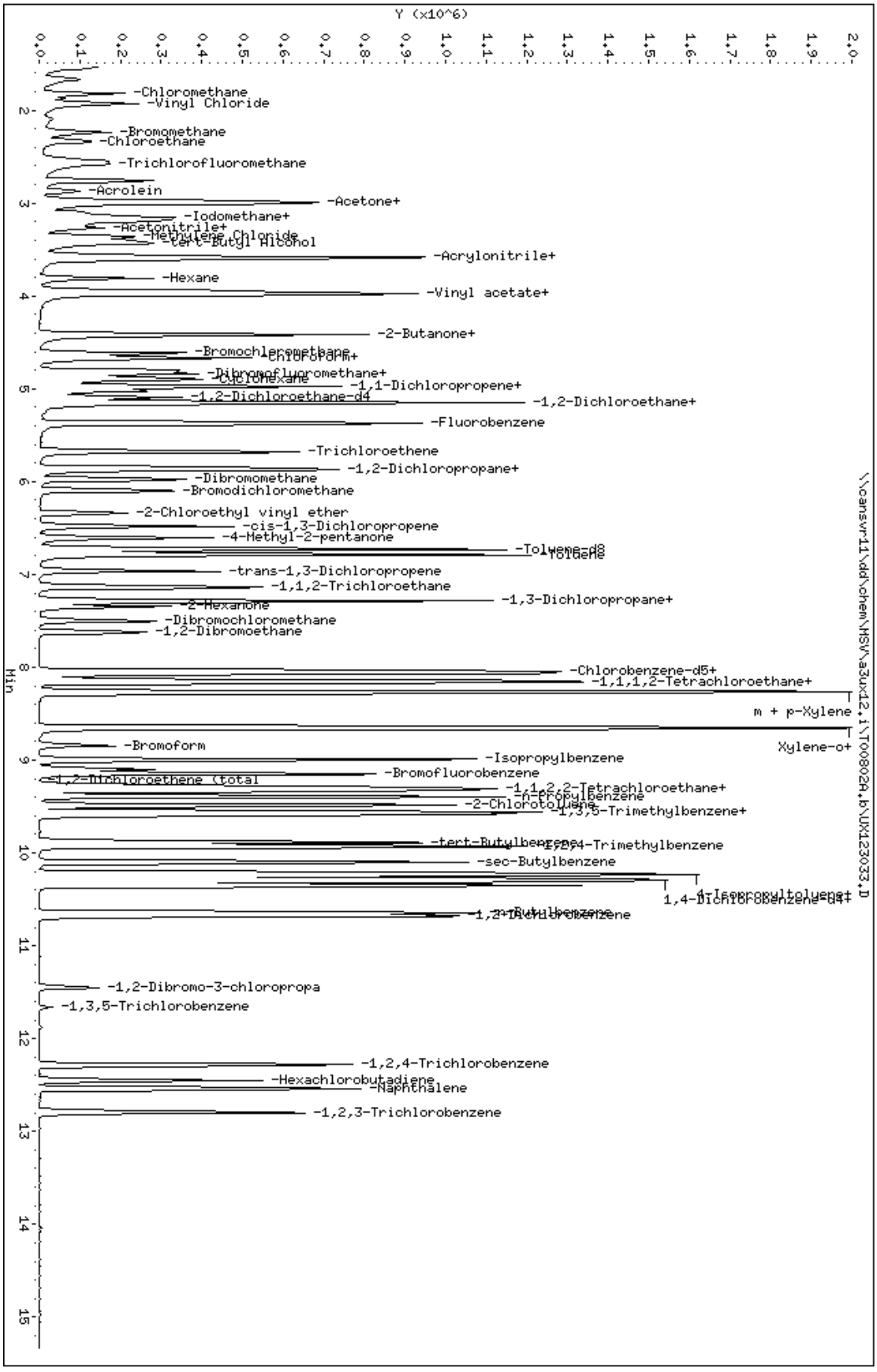
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Calibration Date: 02-AUG-2010
Lab File ID: UX123033.D
Calibration Time: 16:54
Lab Smp Id: CHECK
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: WATER
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903,3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	976056	-2.55
2 Chlorobenzene-d5	825482	412741	1650964	772247	-6.45
3 1,4-Dichlorobenze	542805	271403	1085610	448519	-17.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T000802A.b\UX123033.D
Date : 02-AUG-2010 17:18
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18
Y (x10^6)
Min
\\cansvr11\dd\chem\MSV\a3ux12.i\T000802A.b\UX123033.D
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-tert-Butyl Alcohol
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
Toluene
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m + p-Xylene
Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L41D91AA **Matrix.....:** WATER
MB Lot-Sample #: A0H020000-377

Prep Date.....: 08/01/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 08/01/10 **Prep Batch #...:** 0214377
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	**1.5**	**1.0**	**ug/L**	**SW846 8260B**
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L41D91AA **Matrix.....:** WATER

NOTE(S):

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

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D
Report Date: 01-Aug-2010 14:10

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D
Lab Smp Id: BLANK
Inj Date : 01-AUG-2010 13:45
Operator : 1903 Inst ID: a3ux12.i
Smp Info : BLANK
Misc Info : T00801A,8260MIUX12,,1903,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Meth Date : 01-Aug-2010 13:13 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.368	5.368	(1.000)	992547	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	811982	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	424460	100.000	
$ 4 Dibromofluoromethane	113	4.800	4.800	(0.894)	236541	113.398	22.680
$ 5 1,2-Dichloroethane-d4	65	5.096	5.084	(0.949)	262208	97.5466	19.509
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	889120	99.9386	19.988
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	321578	86.5873	17.317
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					
17 1,1-Dichloroethene	61	Compound Not Detected.					
18 Freon-113	101	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	3.369	3.404	(0.628)	26791	7.47855	1.496

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D
Report Date: 01-Aug-2010 14:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	61	Compound Not Detected.					
	26 Hexane	57	3.806	3.806	(0.709)	1802	1.33724	0.2674
	27 Vinyl acetate	43	Compound Not Detected.					
	152 Vinyl acetate - 86	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	61	Compound Not Detected.					
	32 cis-1,2-dichloroethene	61	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	91	Compound Not Detected.					
	62 m + p-Xylene	91	8.267	8.267	(1.028)	5093	0.60216	0.1204
M	63 Xylenes (total)	91				5093	0.60216	0.1204
	64 Xylene-o	91	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	91	9.392	9.392	(0.914)	8595	0.91203	0.1824
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	5184	0.75201	0.1504

75 4-Chlorotoluene	126	Compound Not Detected.					
76 tert-Butylbenzene	119	9.889	9.889 (0.962)		8577	1.51453	0.3029

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D
Report Date: 01-Aug-2010 14:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	9.936	9.924	(0.967)	4265	0.58067	0.1161
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	18187	2.47374	0.4947
79	4-Isopropyltoluene	119	10.232	10.232	(0.995)	16383	2.53662	0.5073
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	3836	0.75601	0.1512
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	3621	0.64594	0.1292
82	n-Butylbenzene	91	10.646	10.646	(1.036)	23693	4.25232	0.8505
83	1,2-Dichlorobenzene	146	10.681	10.681	(1.039)	3256	0.62835	0.1257
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	13018	4.61366	0.9227
86	Hexachlorobutadiene	225	12.456	12.445	(1.212)	22402	13.4663	2.693
87	Naphthalene	128	12.539	12.539	(1.220)	11127	1.26005	0.2520
88	1,2,3-Trichlorobenzene	180	12.799	12.799	(1.245)	14132	5.09222	1.018
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	11.663	11.664	(1.135)	3503	1.21520	0.2430

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D
Report Date: 01-Aug-2010 14:10

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Lab File ID: UX123006.D
Lab Smp Id: BLANK
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\8260MIUX12.m
Misc Info: T00801A,8260MIUX12,,1903,3,,BLANK,,0

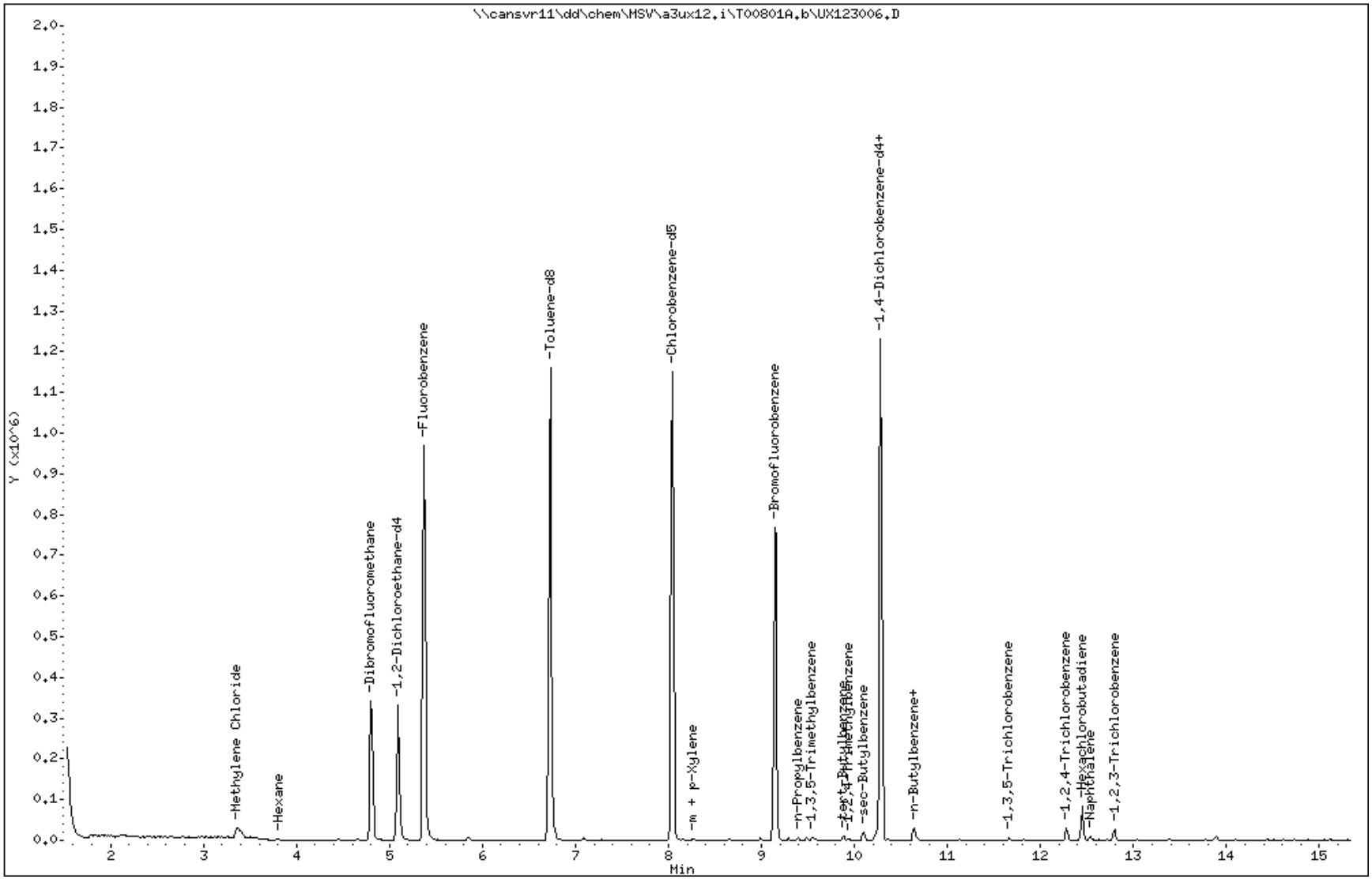
Calibration Date: 01-AUG-2010
Calibration Time: 12:57
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1100933	550467	2201866	992547	-9.84
2 Chlorobenzene-d5	893197	446599	1786394	811982	-9.09
3 1,4-Dichlorobenze	604126	302063	1208252	424460	-29.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D
Date : 01-AUG-2010 13:45
Client ID:
Instrument: a3ux12.i
Sample Info: BLANK
Purge Volume: 5.0
Operator: 1903
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

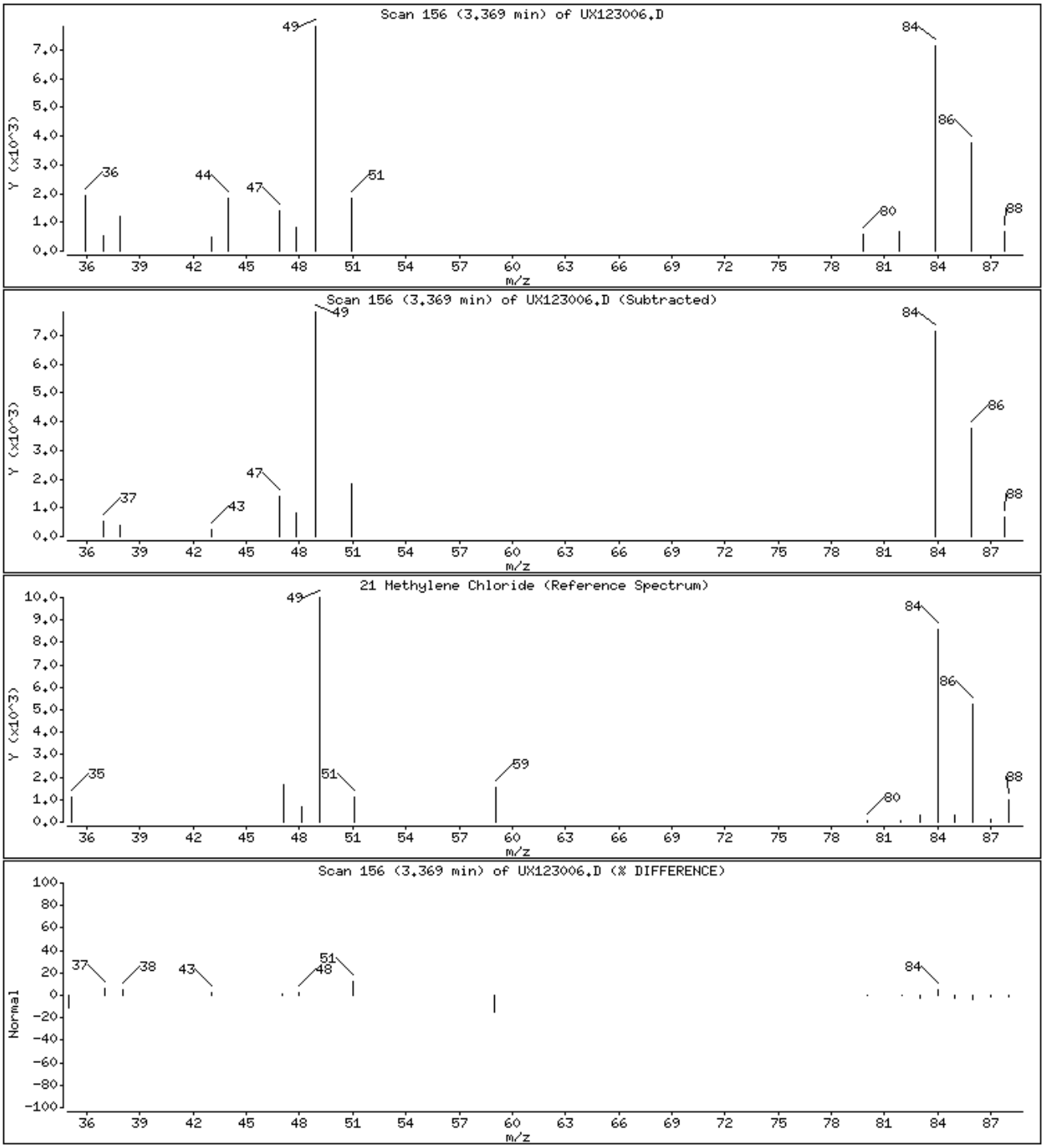
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

21 Methylene Chloride Concentration: 1.496 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

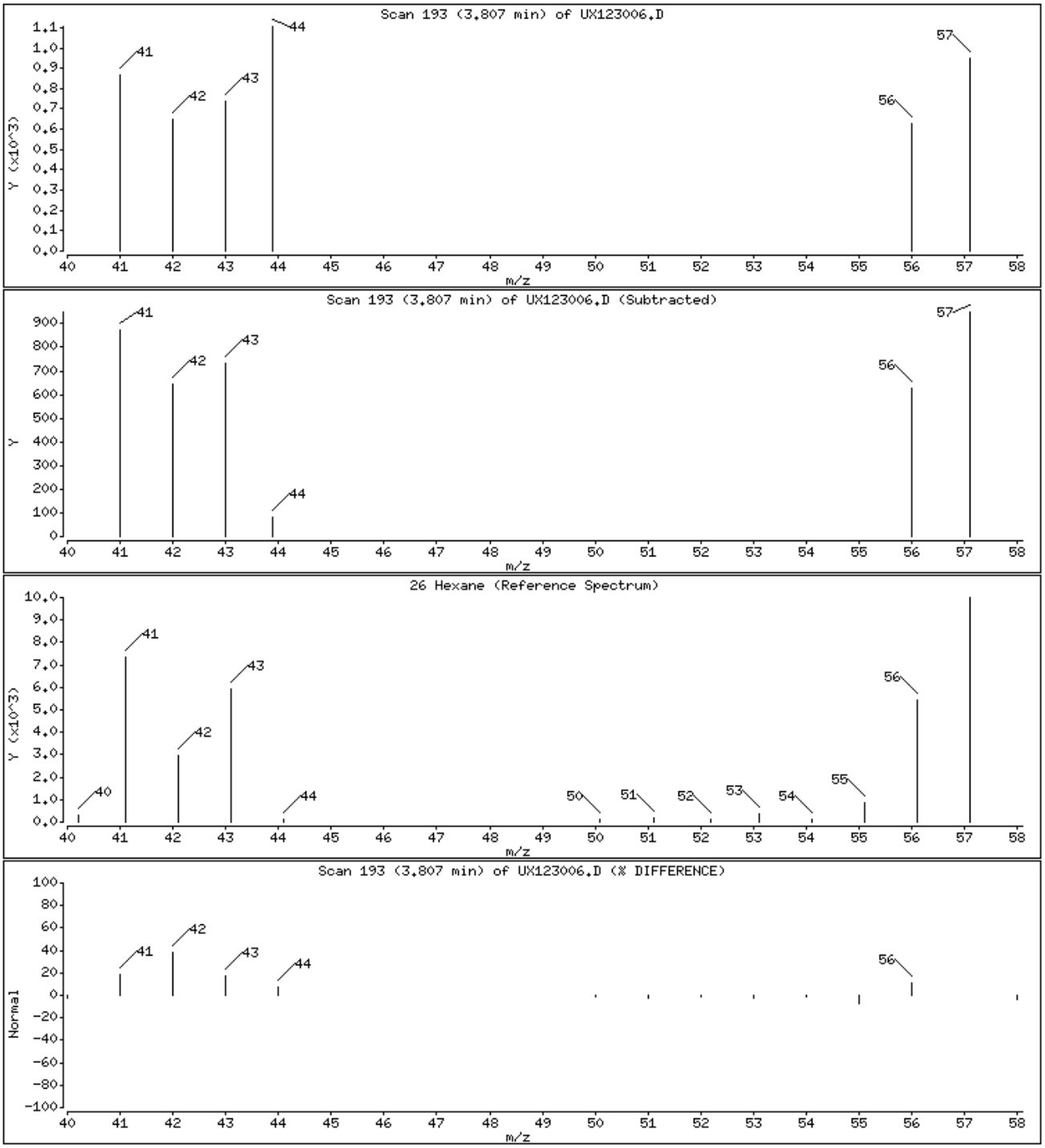
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

26 Hexane Concentration: 0.2674 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

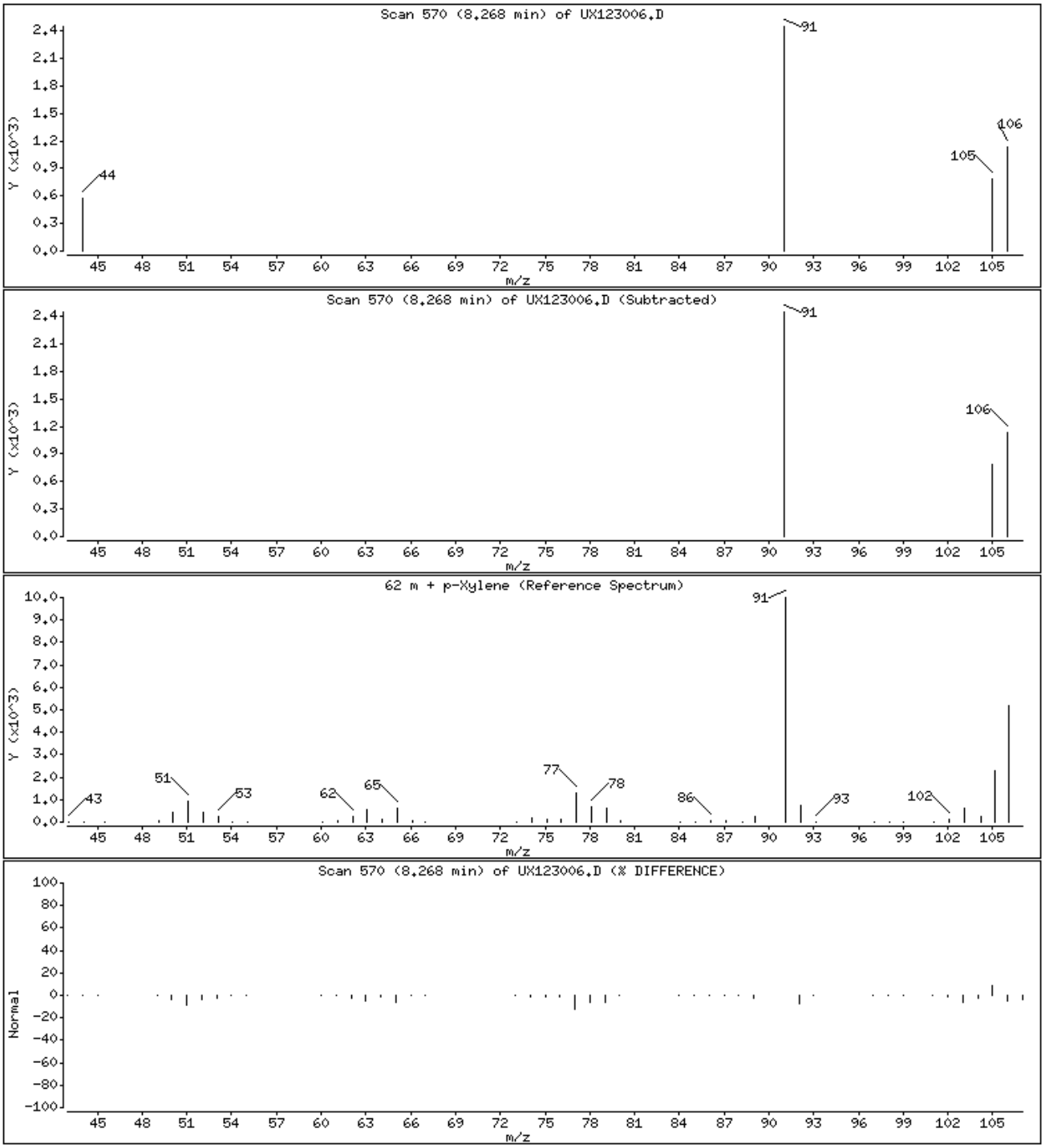
Operator: 1903

Column phase: DB624

Column diameter: 0.18

62 m + p-Xylene

Concentration: 0.1204 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

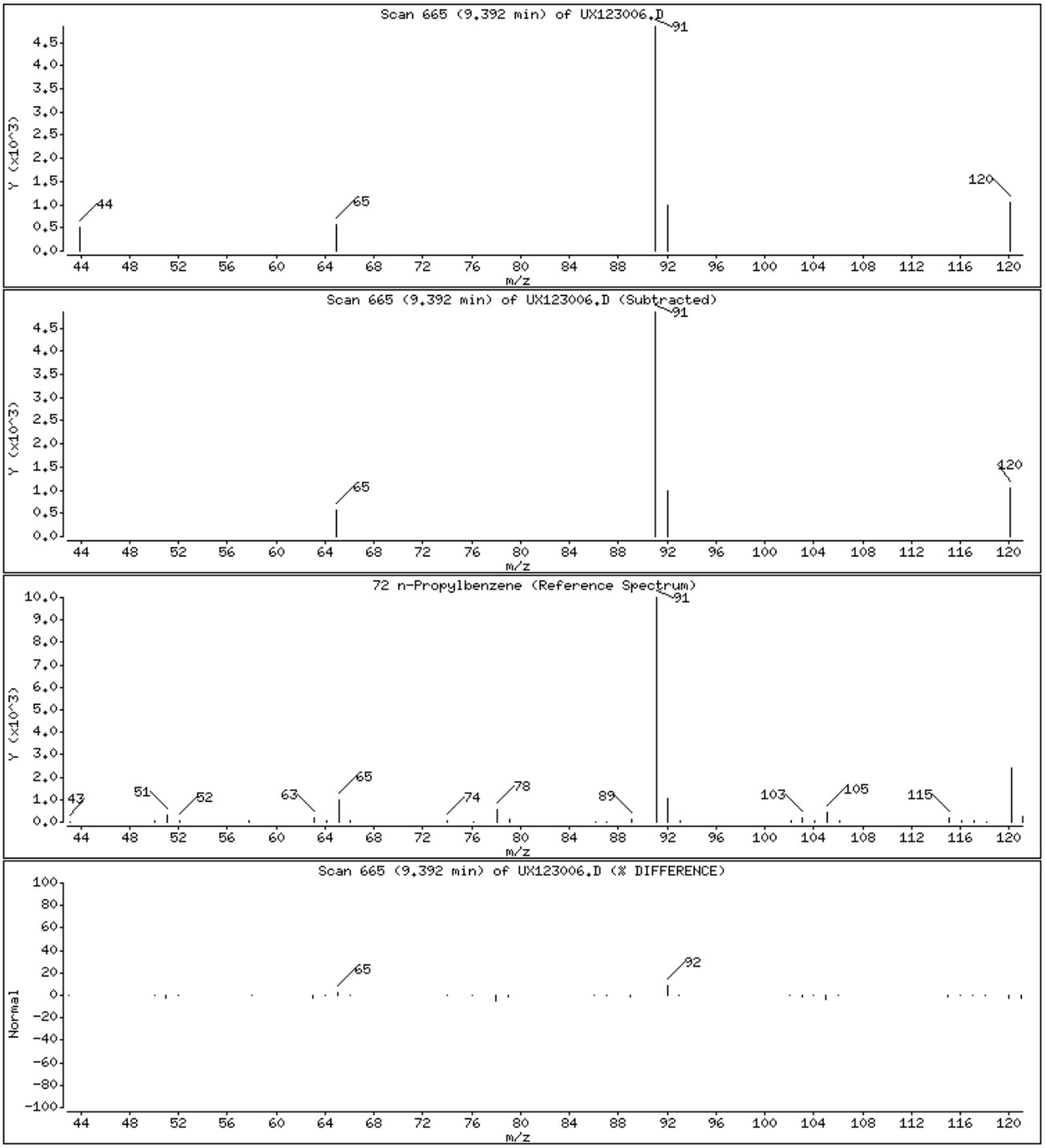
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

72 n-Propylbenzene Concentration: 0.1824 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

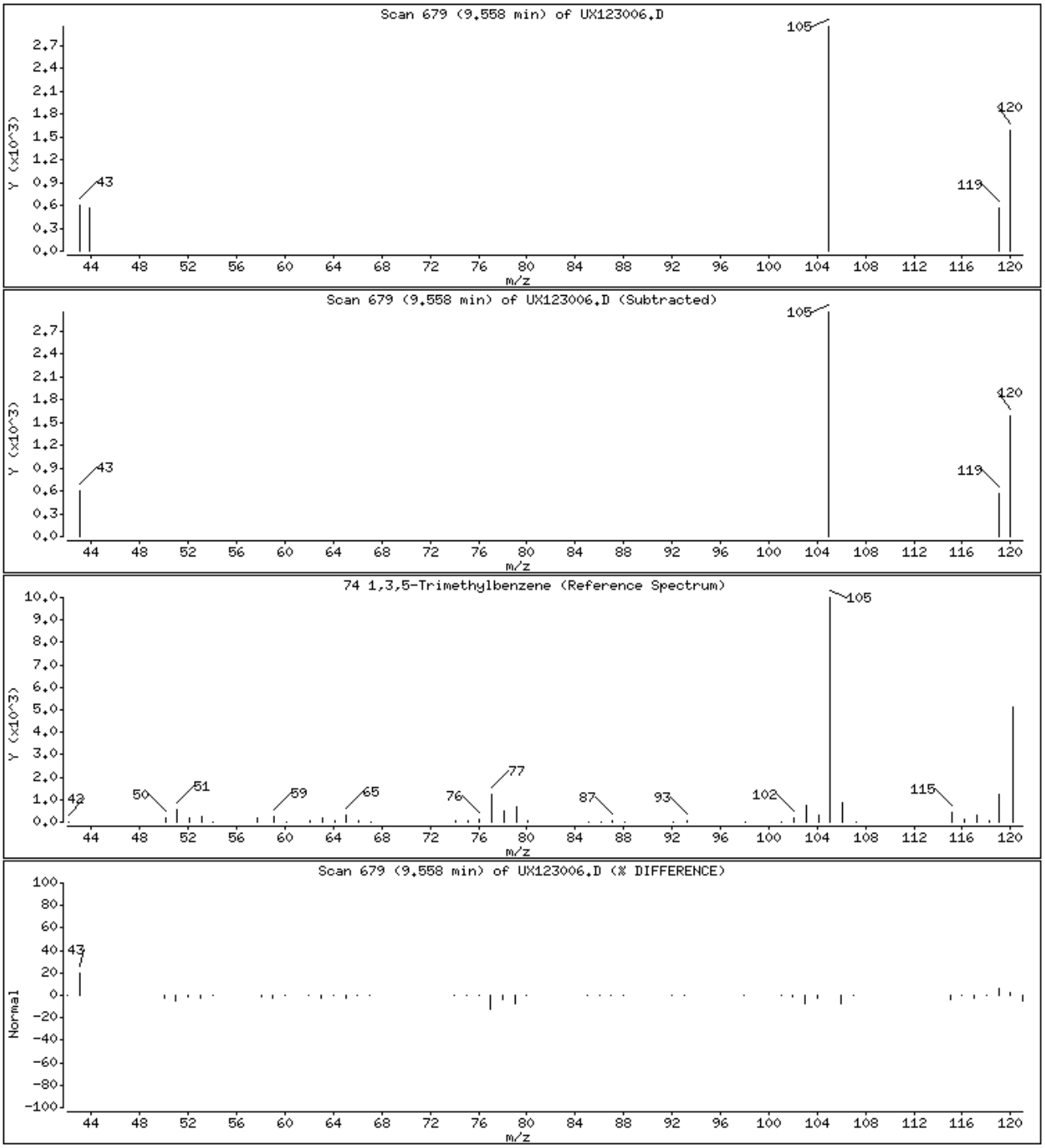
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

74 1,3,5-Trimethylbenzene Concentration: 0.1504 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

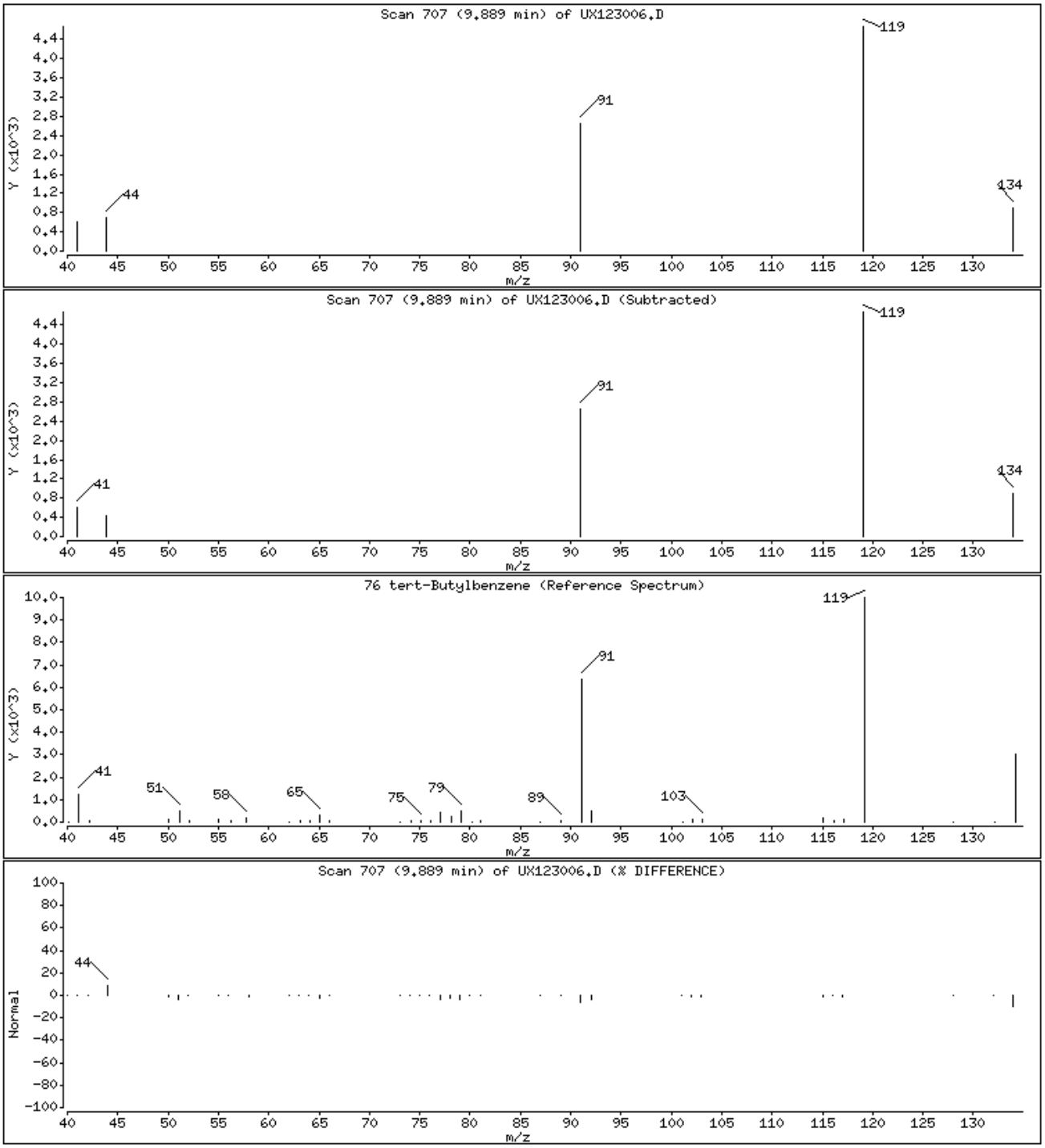
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

76 tert-Butylbenzene Concentration: 0.3029 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

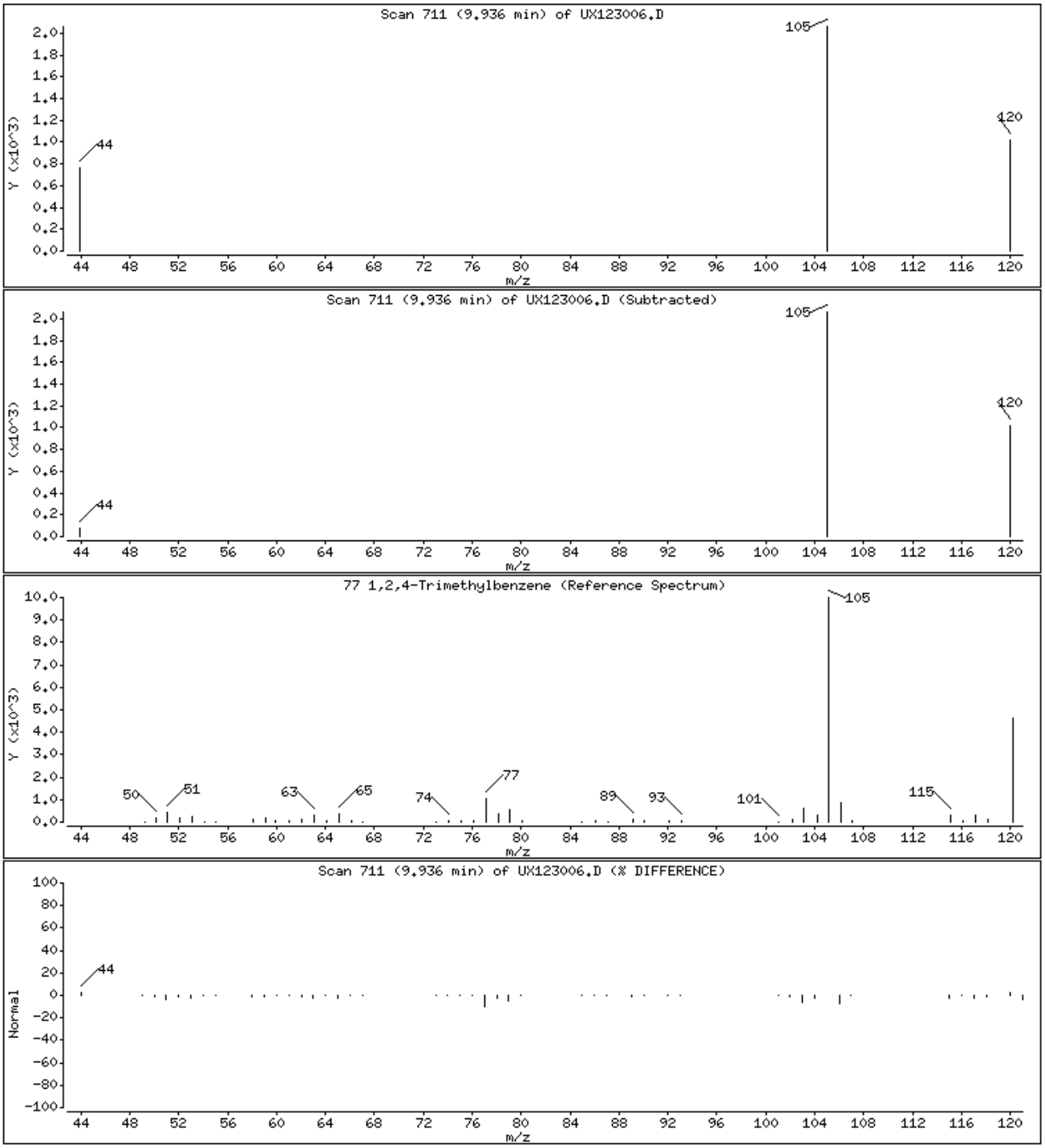
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

77 1,2,4-Trimethylbenzene Concentration: 0.1161 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

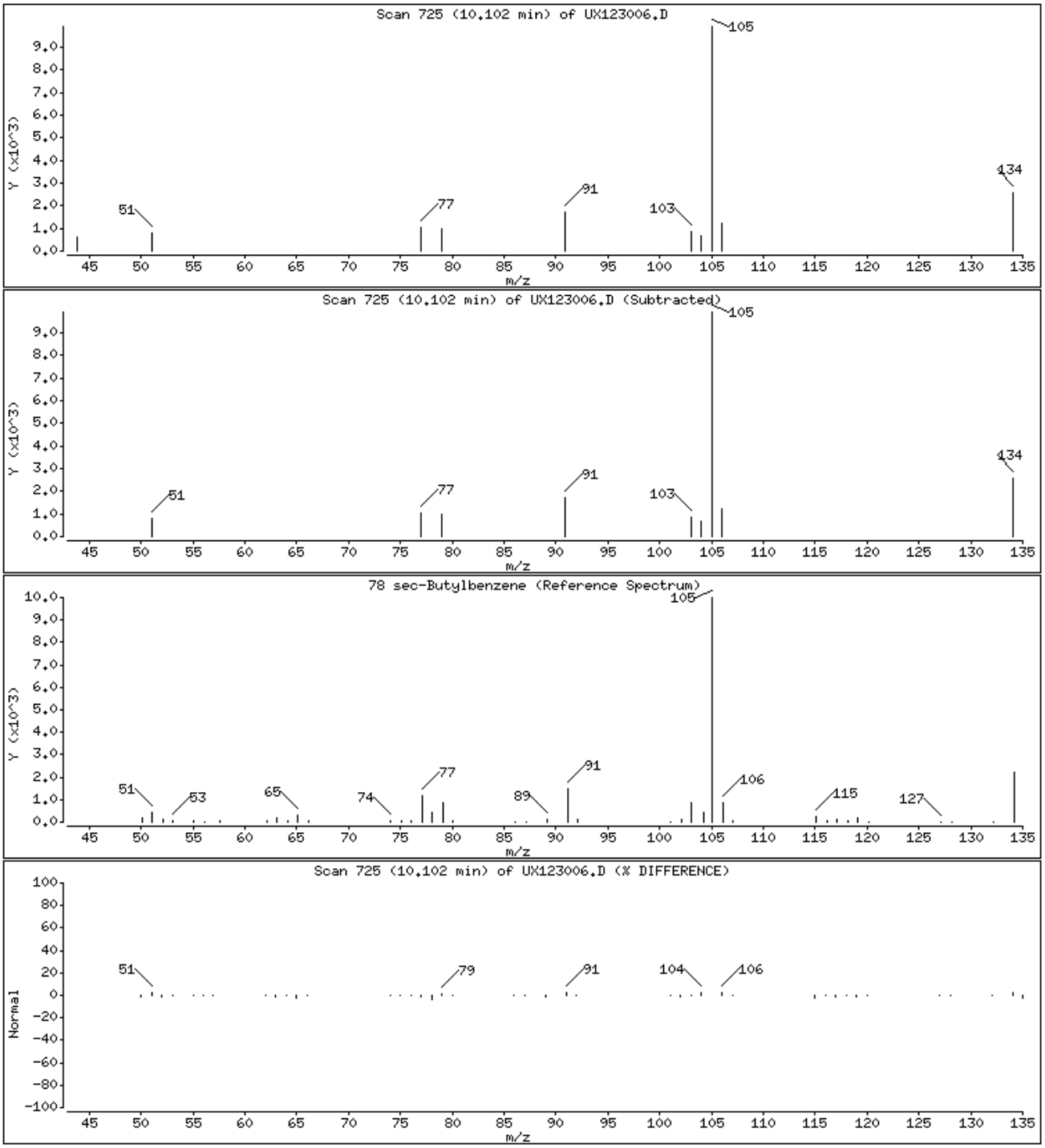
Operator: 1903

Column phase: DB624

Column diameter: 0.18

78 sec-Butylbenzene

Concentration: 0.4947 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

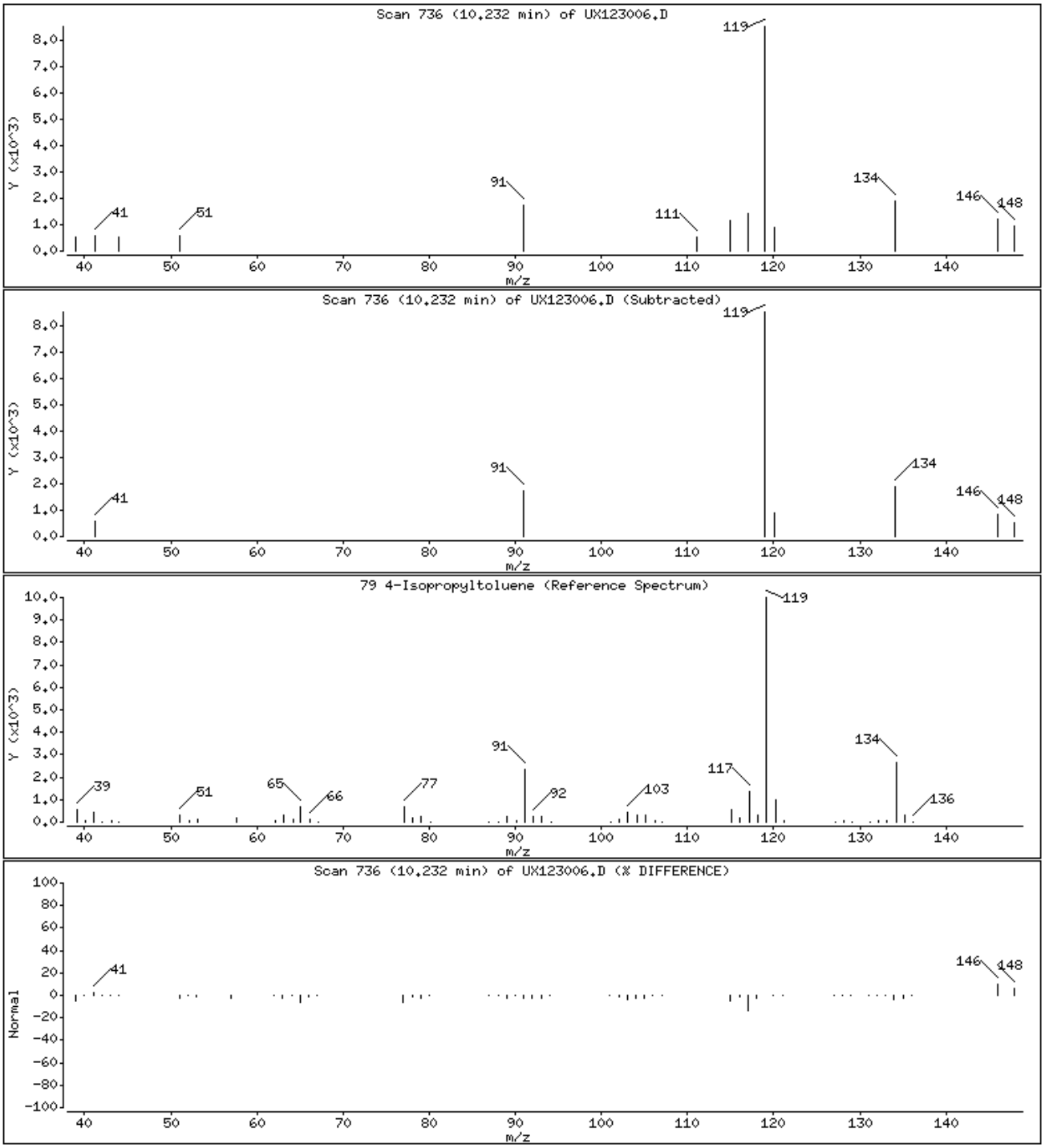
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

79 4-Isopropyltoluene Concentration: 0.5073 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

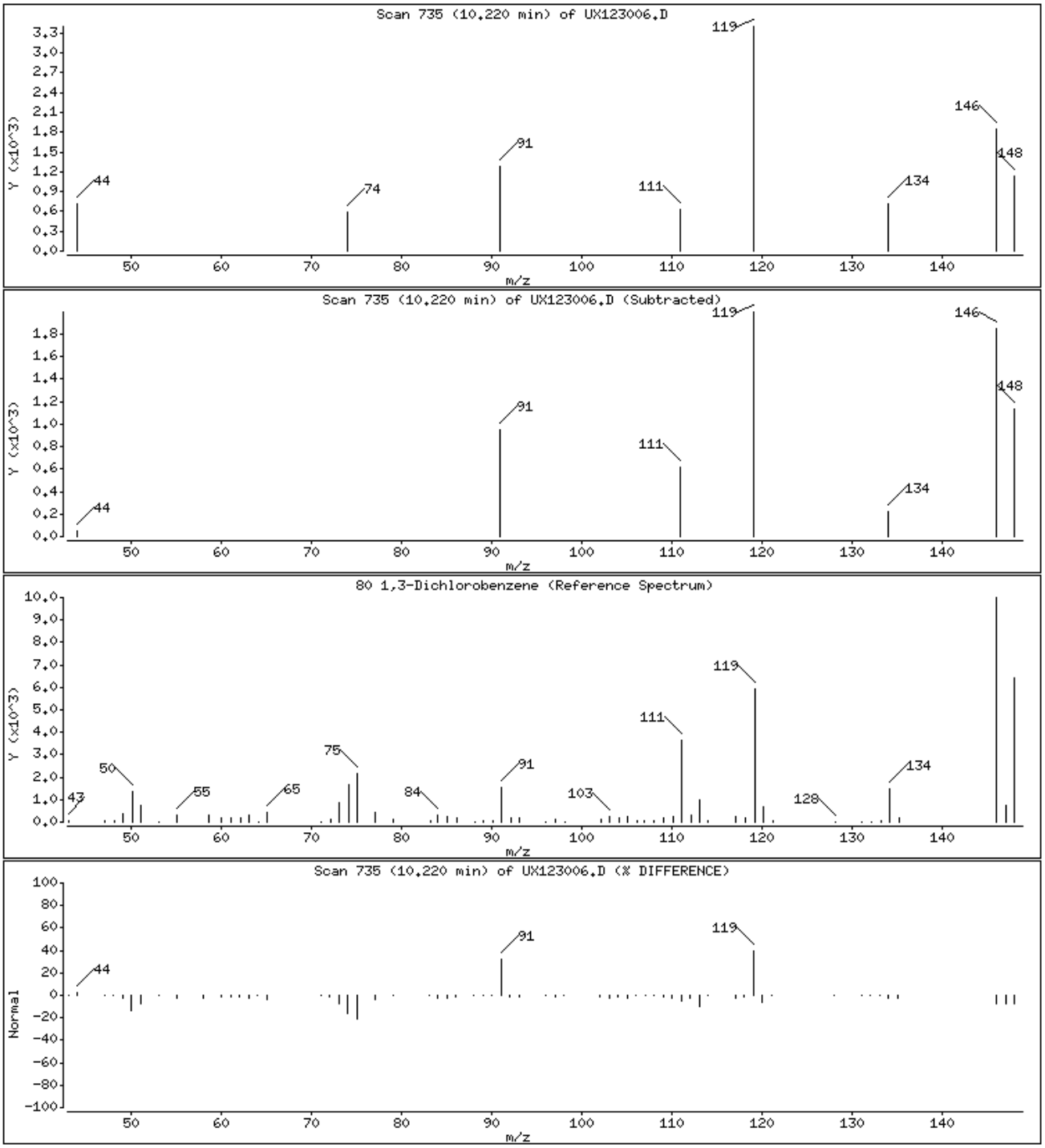
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

80 1,3-Dichlorobenzene Concentration: 0.1512 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

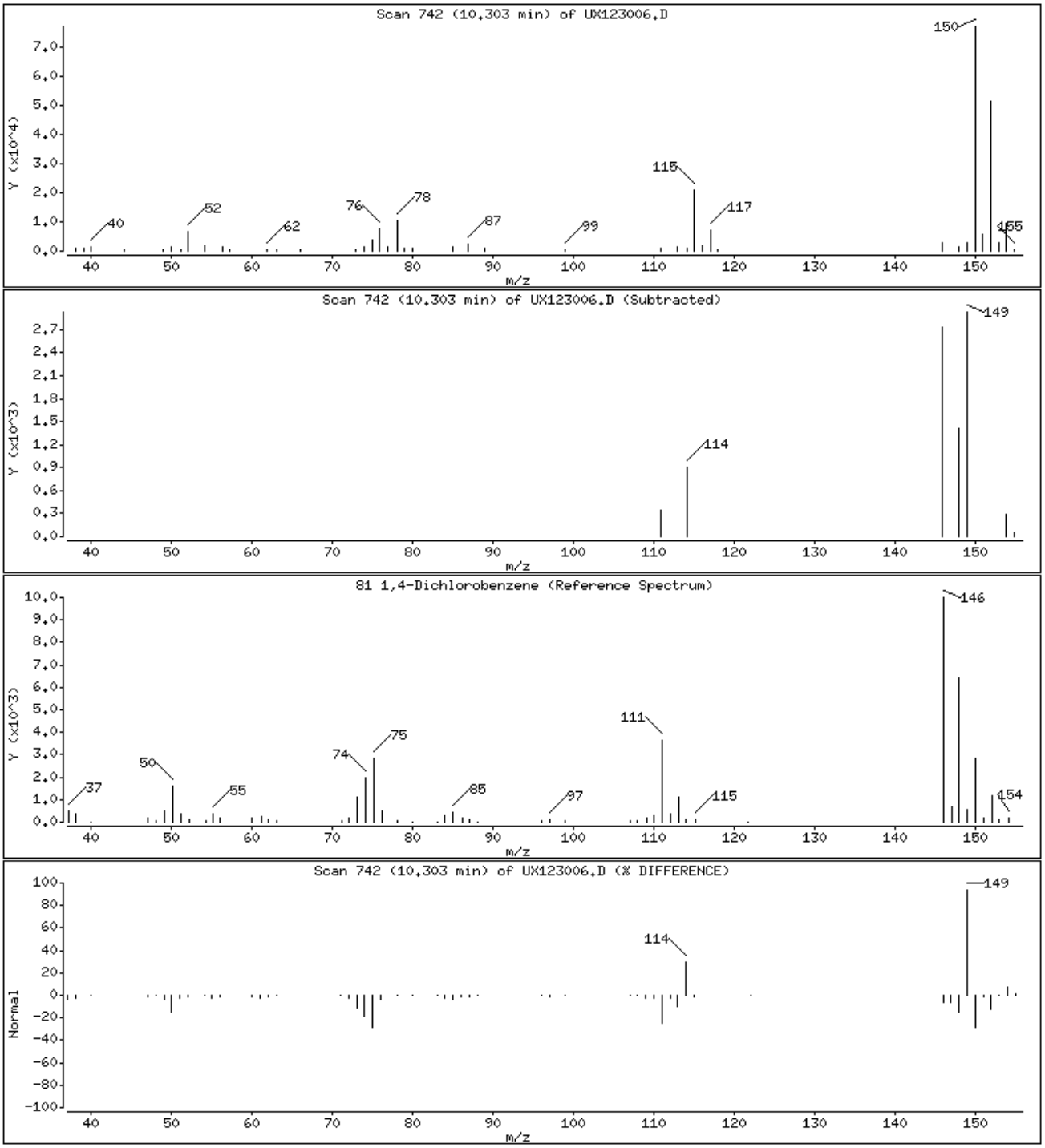
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.1292 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

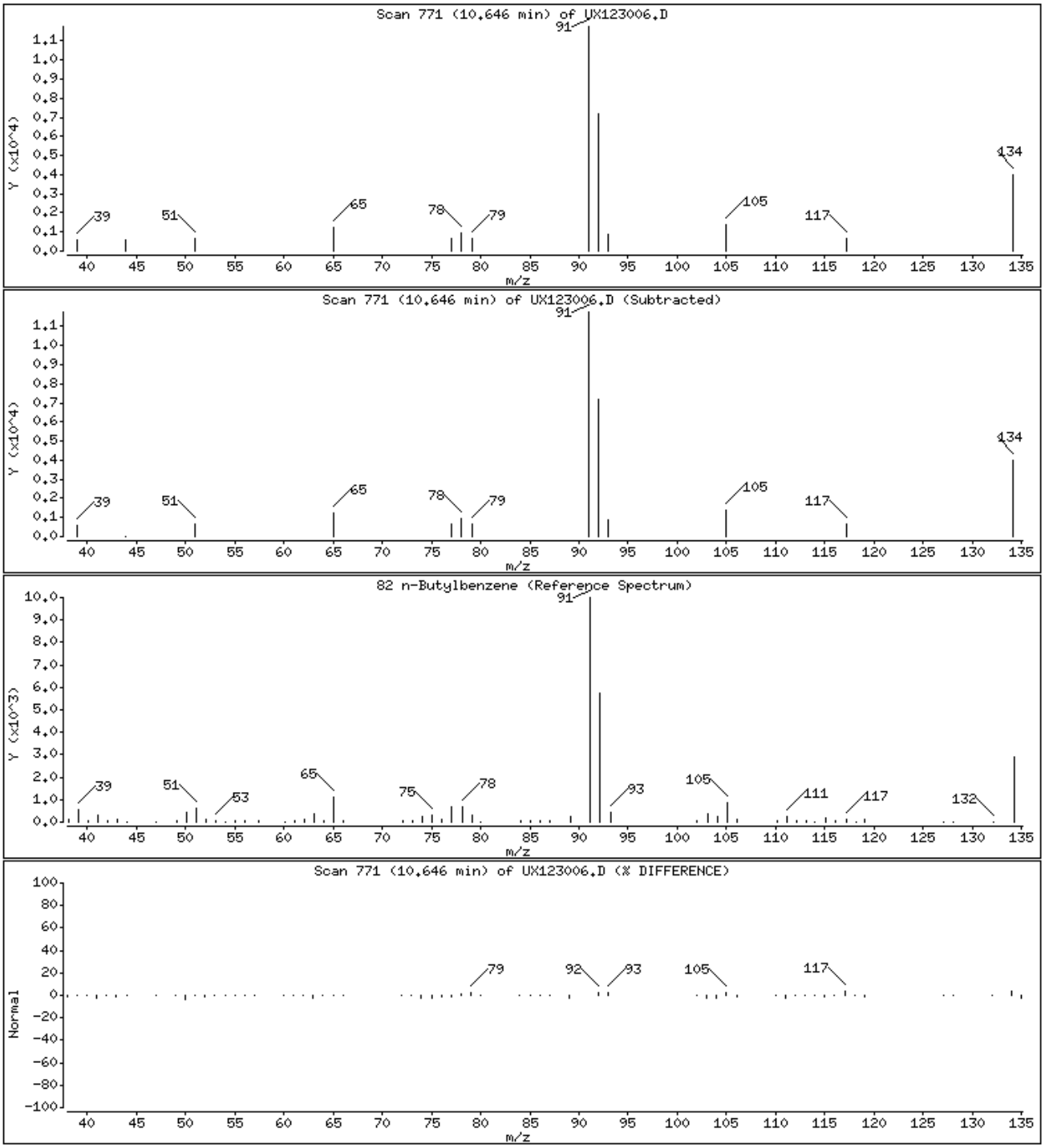
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

82 n-Butylbenzene Concentration: 0.8505 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

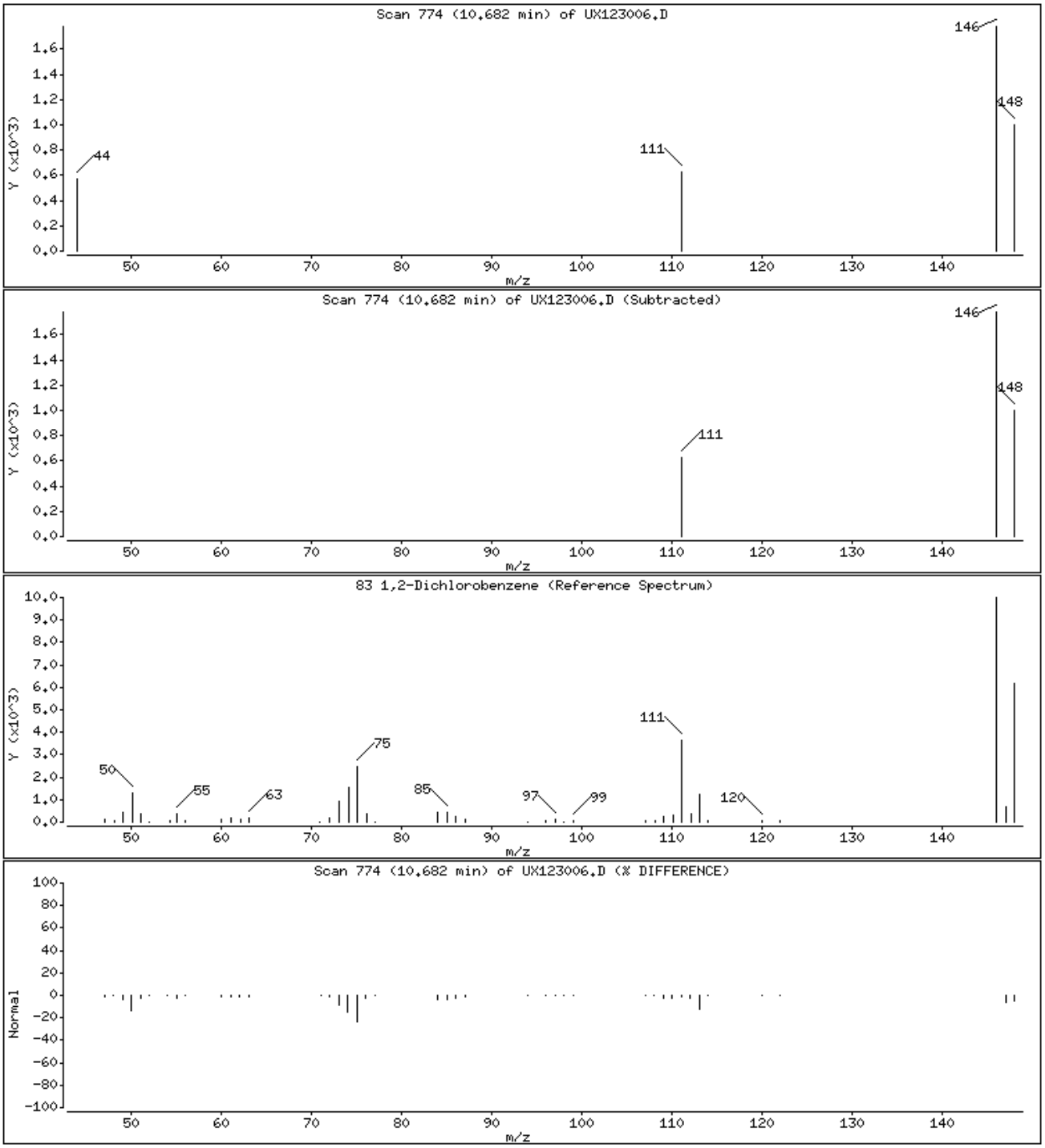
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

83 1,2-Dichlorobenzene Concentration: 0.1257 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

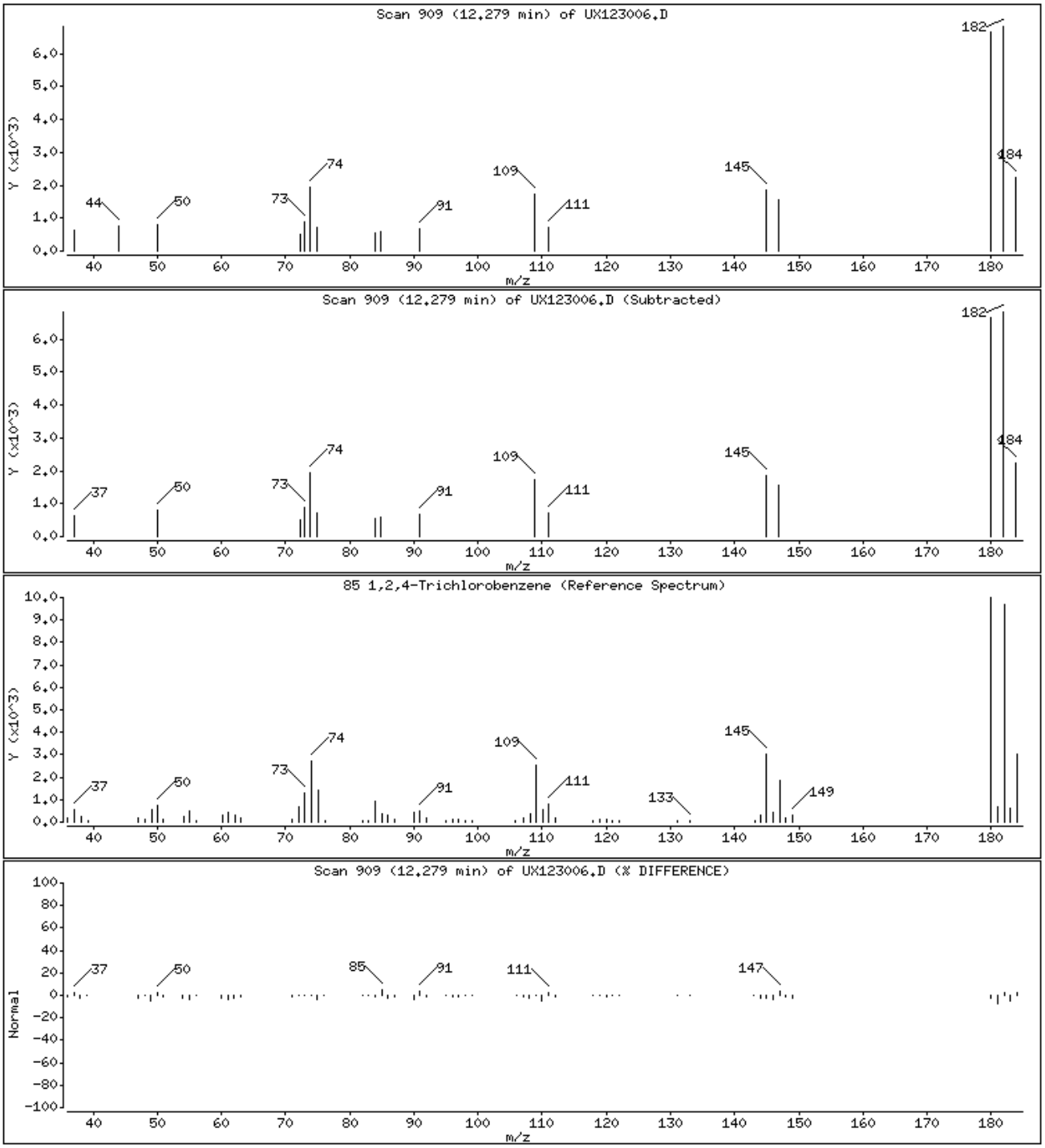
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

85 1,2,4-Trichlorobenzene Concentration: 0.9227 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

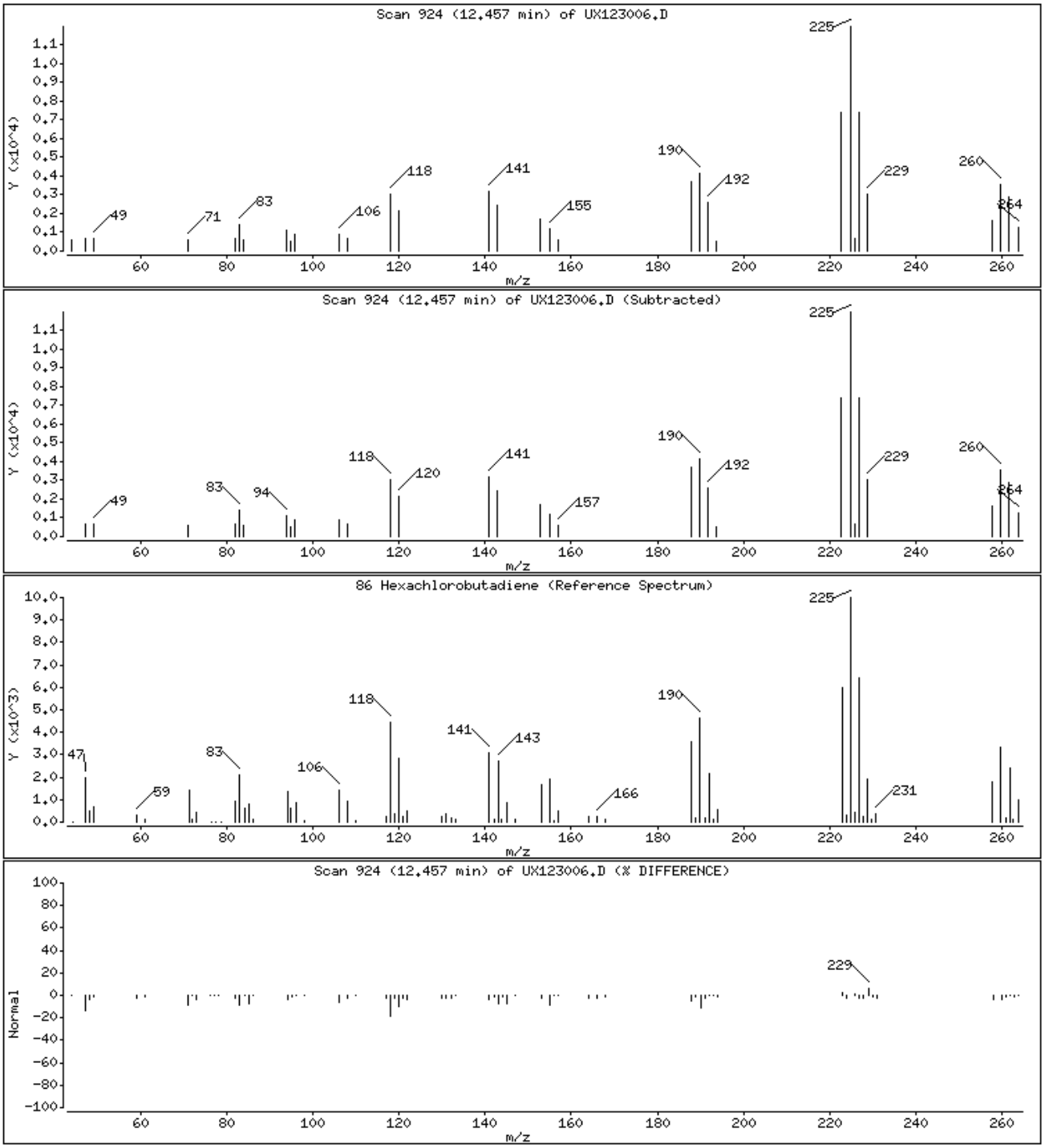
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

86 Hexachlorobutadiene Concentration: 2.693 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

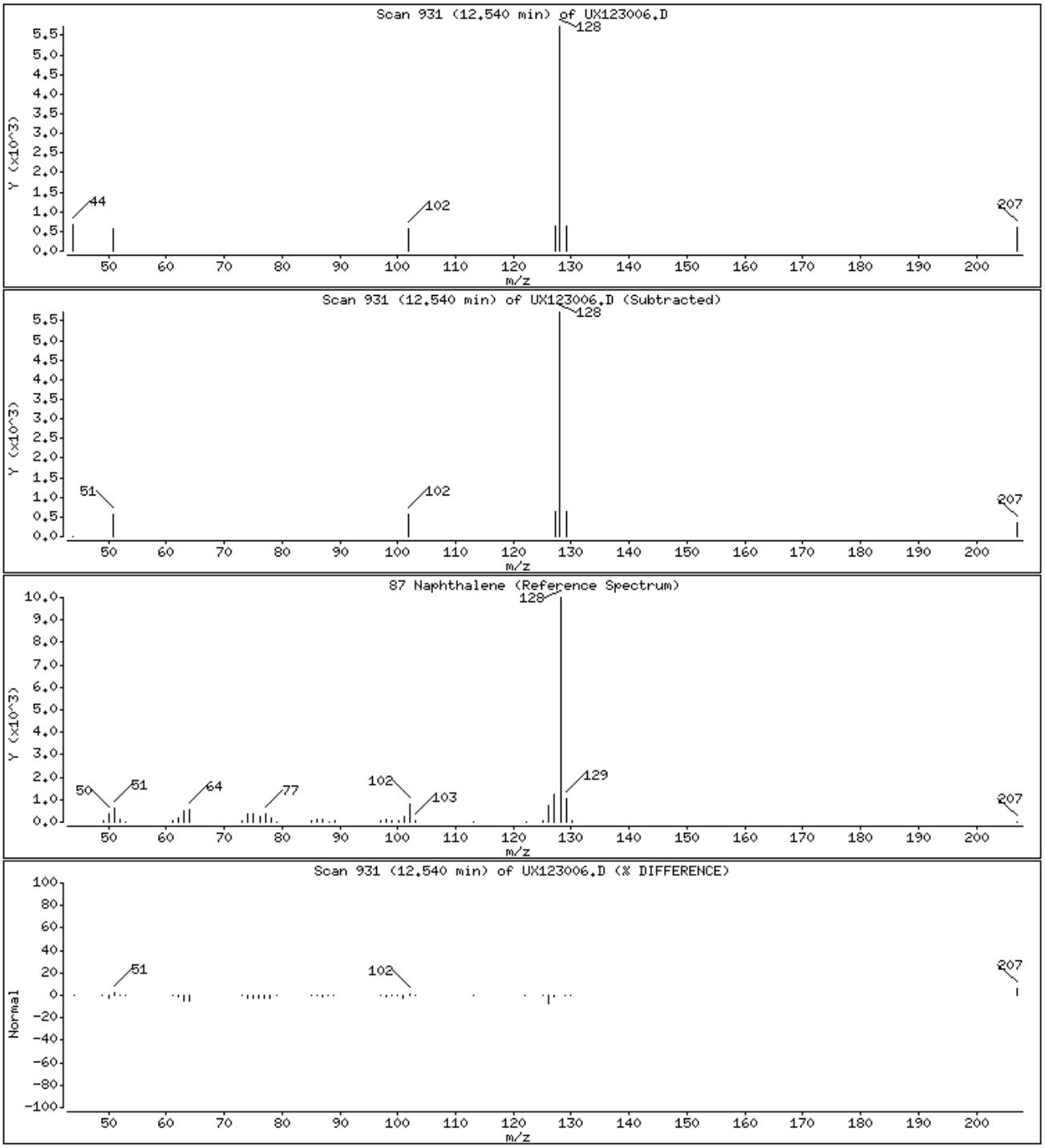
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.2520 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

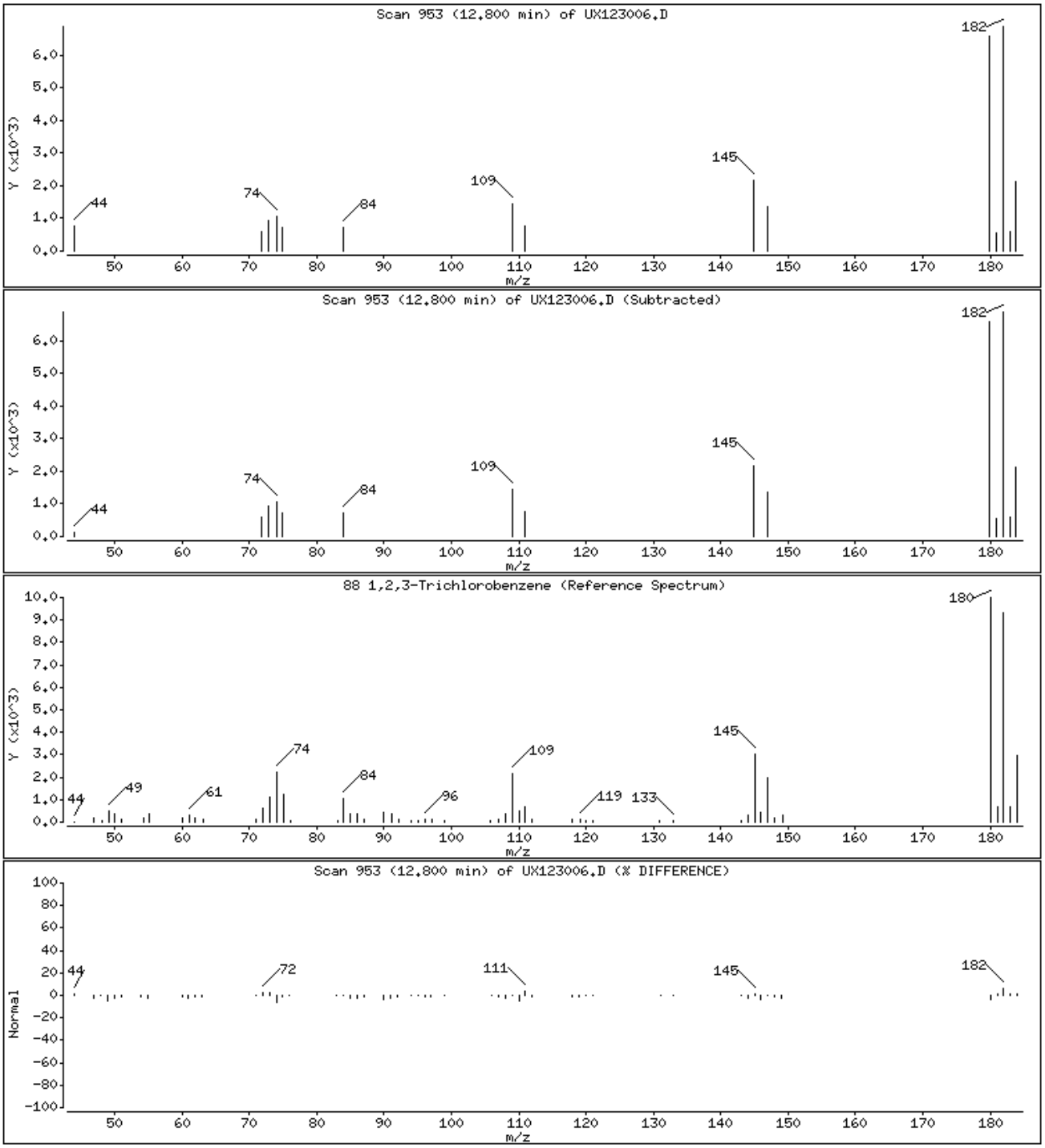
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 1.018 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00801A.b\UX123006.D

Date : 01-AUG-2010 13:45

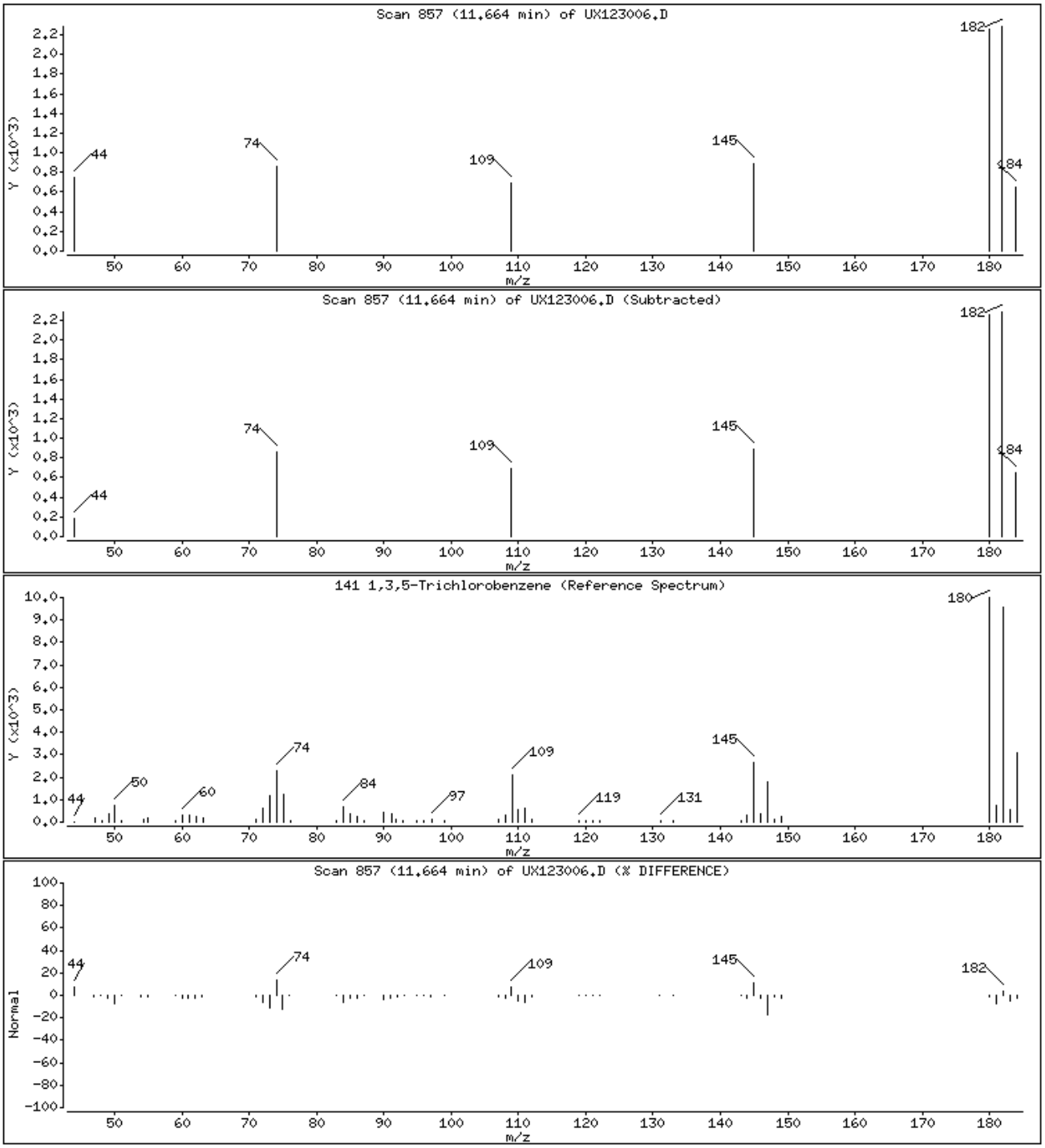
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

141 1,3,5-Trichlorobenzene Concentration: 0.2430 ug/L



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L42H81AA **Matrix.....:** WATER
MB Lot-Sample #: A0H030000-323

Prep Date.....: 08/02/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 08/02/10 **Prep Batch #...:** 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	102	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L42H81AA **Matrix.....:** WATER

NOTE(S):

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

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D
Report Date: 02-Aug-2010 19:06

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D
Lab Smp Id: BLANK
Inj Date : 02-AUG-2010 17:43
Operator : 1903 Inst ID: a3ux12.i
Smp Info : BLANK
Misc Info : T00802A,8260MIUX12,,1903,3,,BLANK,,0
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.368	5.369	(1.000)	936693	100.000	
* 2	Chlorobenzene-d5	117	8.043	8.043	(1.000)	739696	100.000	
* 3	1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	394172	100.000	
$ 4	Dibromofluoromethane	113	4.800	4.801	(0.894)	220591	112.058	22.412
$ 5	1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	252111	99.3829	19.876
$ 6	Toluene-d8	98	6.729	6.729	(0.837)	822951	101.541	20.308
$ 7	Bromofluorobenzene	95	9.143	9.143	(1.137)	292896	86.5714	17.314
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	61	Compound Not Detected.					
18	Freon-113	101	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	3.404	3.357	(0.634)	5365	0.88774	0.1775

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D
Report Date: 02-Aug-2010 19:06

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
24	Methyl tert-butyl ether	73	Compound Not Detected.					
25	trans-1,2-Dichloroethene	61	Compound Not Detected.					
26	Hexane	57	Compound Not Detected.					
27	Vinyl acetate	43	Compound Not Detected.					
152	Vinyl acetate - 86	86	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
29	tert-Butyl Alcohol	59	Compound Not Detected.					
30	2-Butanone	43	Compound Not Detected.					
M 31	1,2-Dichloroethene (total)	61	Compound Not Detected.					
32	cis-1,2-dichloroethene	61	Compound Not Detected.					
33	2,2-Dichloropropane	77	Compound Not Detected.					
34	Bromochloromethane	128	Compound Not Detected.					
35	Chloroform	83	Compound Not Detected.					
36	Tetrahydrofuran	42	Compound Not Detected.					
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	1,1-Dichloropropene	75	Compound Not Detected.					
39	Carbon Tetrachloride	117	Compound Not Detected.					
40	1,2-Dichloroethane	62	Compound Not Detected.					
41	Benzene	78	Compound Not Detected.					
42	Trichloroethene	130	Compound Not Detected.					
43	1,2-Dichloropropane	63	Compound Not Detected.					
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48	cis-1,3-Dichloropropene	75	Compound Not Detected.					
49	4-Methyl-2-pentanone	43	Compound Not Detected.					
50	Toluene	91	Compound Not Detected.					
51	trans-1,3-Dichloropropene	75	Compound Not Detected.					
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	Compound Not Detected.					
54	1,3-Dichloropropane	76	Compound Not Detected.					
55	Tetrachloroethene	164	Compound Not Detected.					
56	2-Hexanone	43	Compound Not Detected.					
57	Dibromochloromethane	129	Compound Not Detected.					
58	1,2-Dibromoethane	107	Compound Not Detected.					
59	Chlorobenzene	112	Compound Not Detected.					
60	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
61	Ethylbenzene	91	Compound Not Detected.					
62	m + p-Xylene	91	Compound Not Detected.					
M 63	Xylenes (total)	91	Compound Not Detected.					
64	Xylene-o	91	Compound Not Detected.					
65	Styrene	104	Compound Not Detected.					
66	Bromoform	173	Compound Not Detected.					
67	Isopropylbenzene	105	Compound Not Detected.					
68	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
69	1,4-Dichloro-2-butene	53	Compound Not Detected.					
70	1,2,3-Trichloropropane	110	Compound Not Detected.					
71	Bromobenzene	156	Compound Not Detected.					
72	n-Propylbenzene	91	9.392	9.392	(0.914)	5453	0.62309	0.1246
73	2-Chlorotoluene	126	Compound Not Detected.					
74	1,3,5-Trimethylbenzene	105	9.545	9.557	(0.929)	4274	0.66764	0.1335

75 4-Chlorotoluene	126	Compound Not Detected.					
76 tert-Butylbenzene	119	9.889	9.889 (0.962)		6061	1.15249	0.2305

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D
Report Date: 02-Aug-2010 19:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	9.924	9.924	(0.965)	3834	0.56210	0.1124
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	15715	2.30176	0.4604
79	4-Isopropyltoluene	119	10.244	10.244	(0.997)	13064	2.17816	0.4356
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	2939	0.62373	0.1247
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	2981	0.57263	0.1145
82	n-Butylbenzene	91	10.646	10.646	(1.036)	18604	3.59554	0.7191
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	11040	4.21329	0.8426
86	Hexachlorobutadiene	225	12.456	12.445	(1.212)	10982	2.84603	0.5692
87	Naphthalene	128	12.539	12.539	(1.220)	11495	1.40174	0.2803
88	1,2,3-Trichlorobenzene	180	12.800	12.800	(1.245)	11929	4.62870	0.9257
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	5.854	5.854	(1.090)	2502	6.29181	1.258
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D
Report Date: 02-Aug-2010 19:06

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux12.i
Calibration Date: 02-AUG-2010
Lab File ID: UX123034.D
Calibration Time: 16:54
Lab Smp Id: BLANK
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: WATER
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903,3,,BLANK,,0

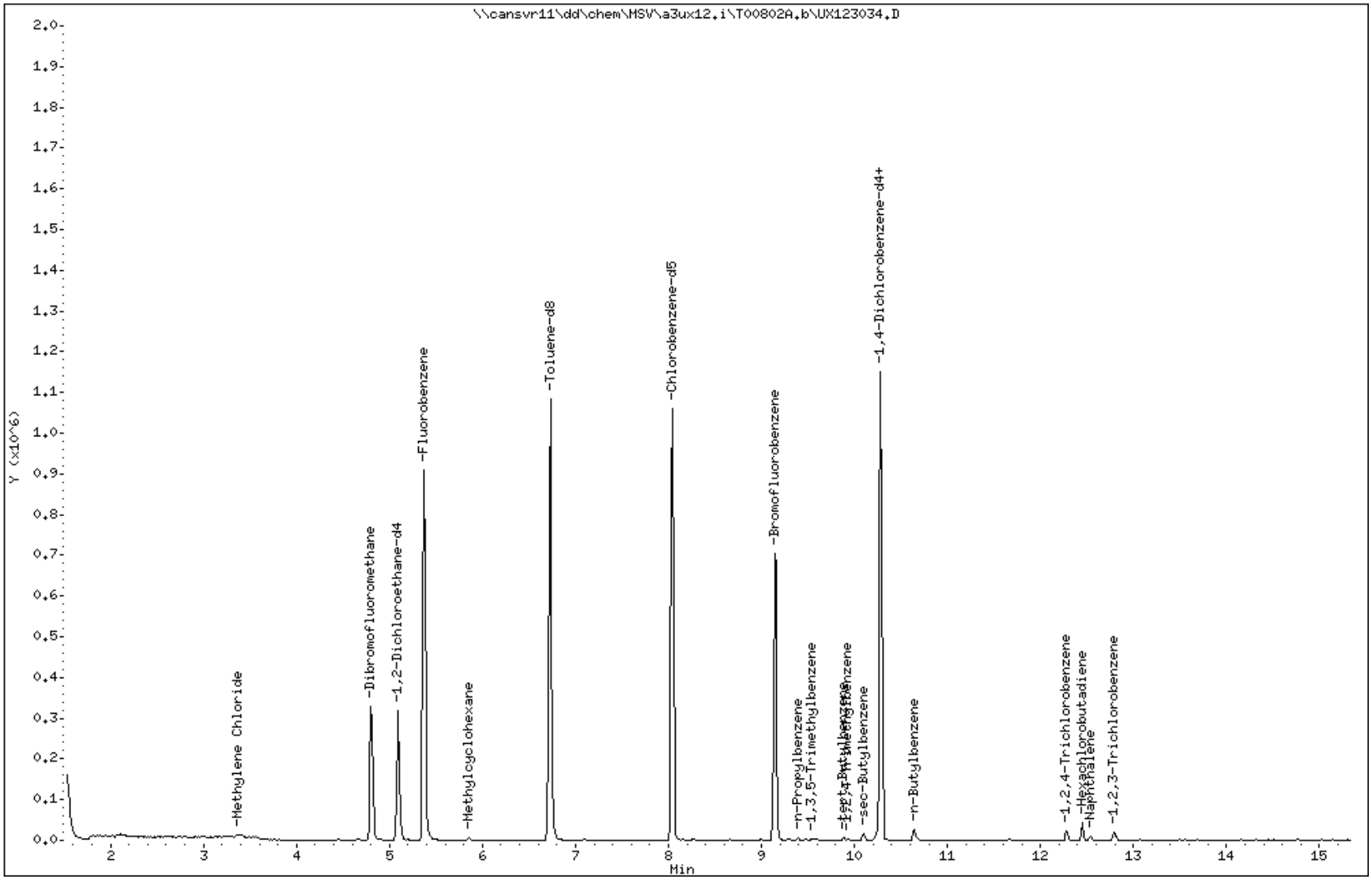
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	936693	-6.48
2 Chlorobenzene-d5	825482	412741	1650964	739696	-10.39
3 1,4-Dichlorobenze	542805	271403	1085610	394172	-27.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D
Date : 02-AUG-2010 17:43
Client ID:
Sample Info: BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

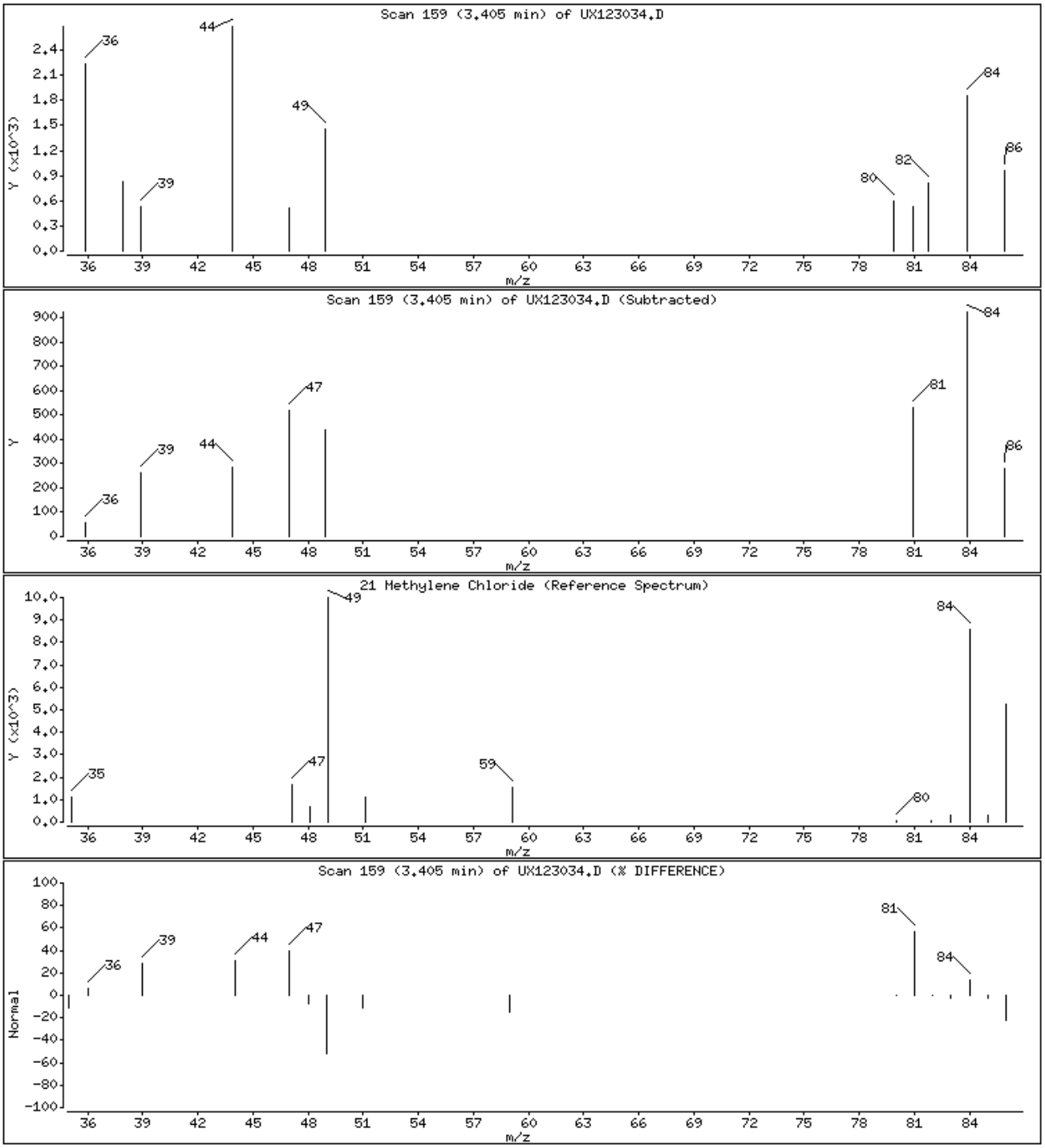
Operator: 1903

Column phase: DB624

Column diameter: 0.18

21 Methylene Chloride

Concentration: 0.1775 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

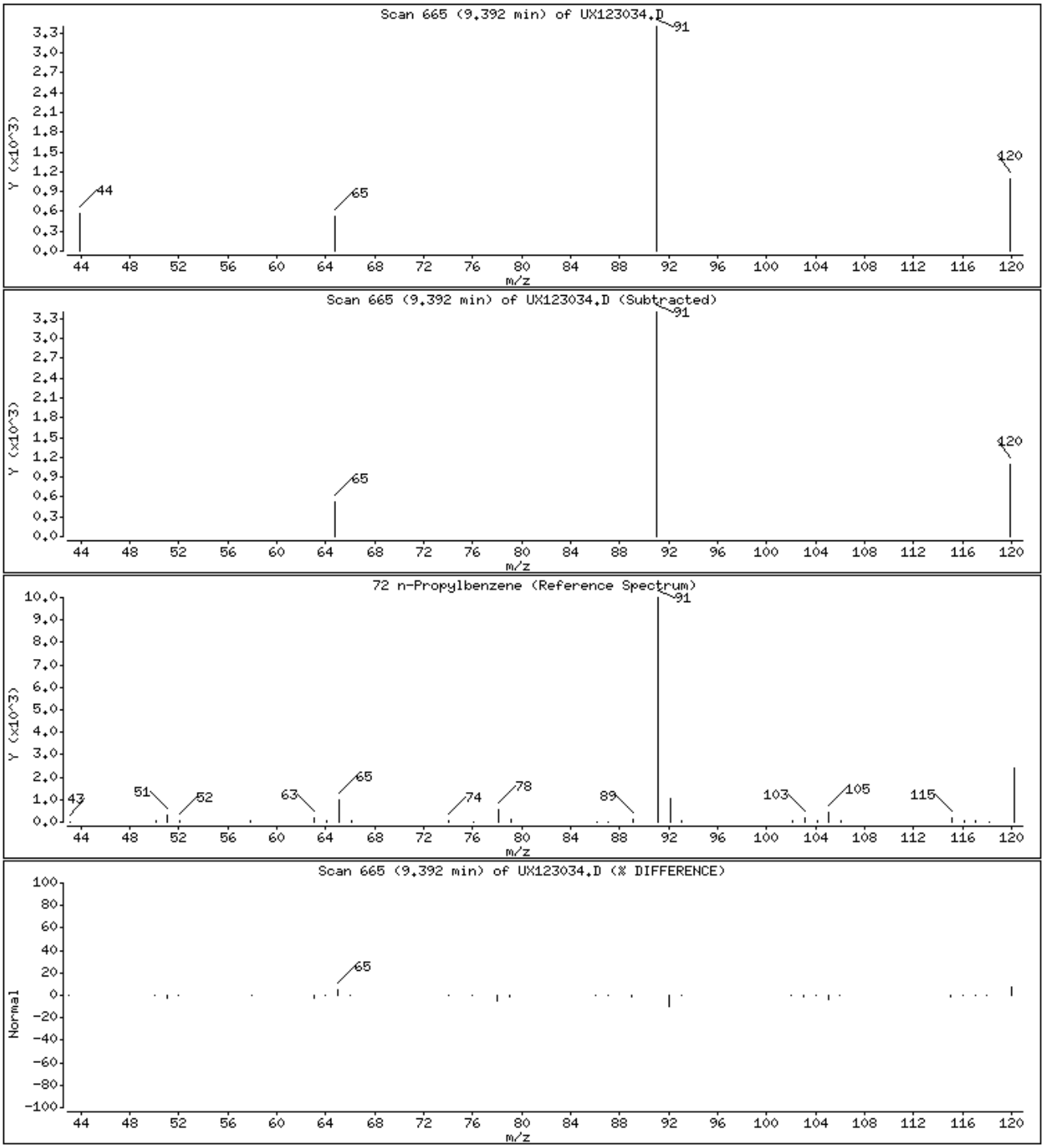
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

72 n-Propylbenzene Concentration: 0.1246 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

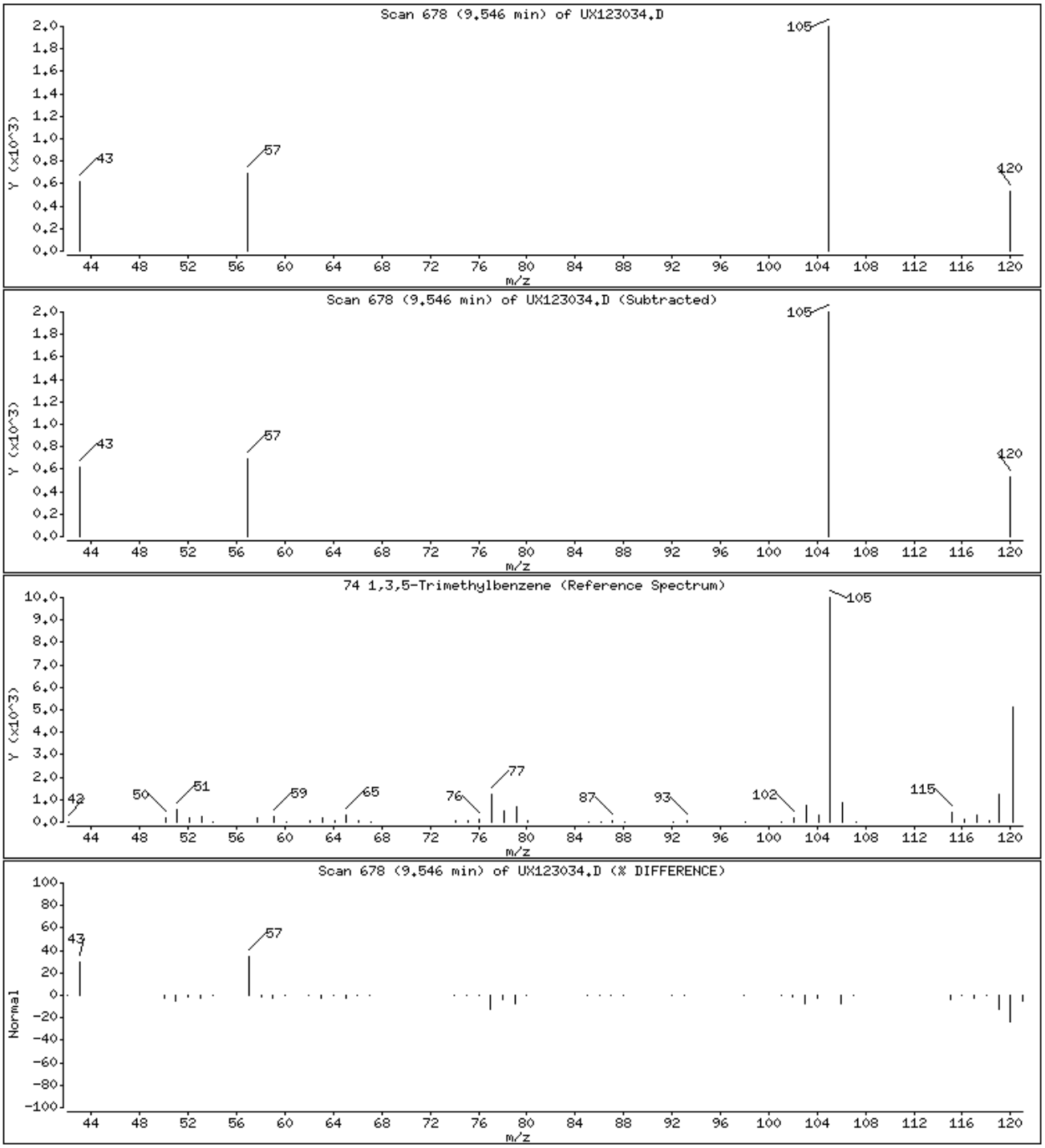
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

74 1,3,5-Trimethylbenzene Concentration: 0.1335 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

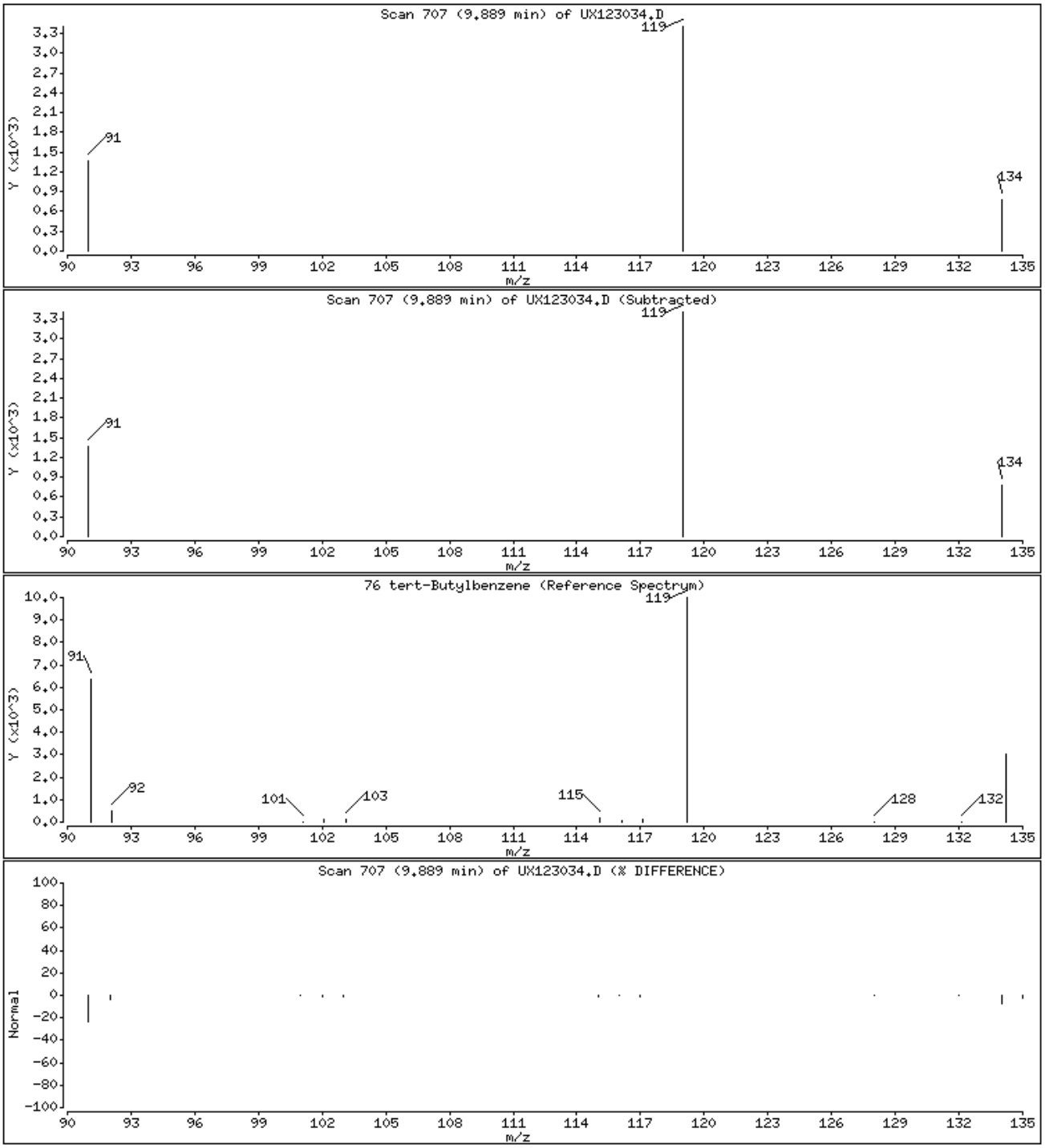
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

76 tert-Butylbenzene Concentration: 0.2305 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

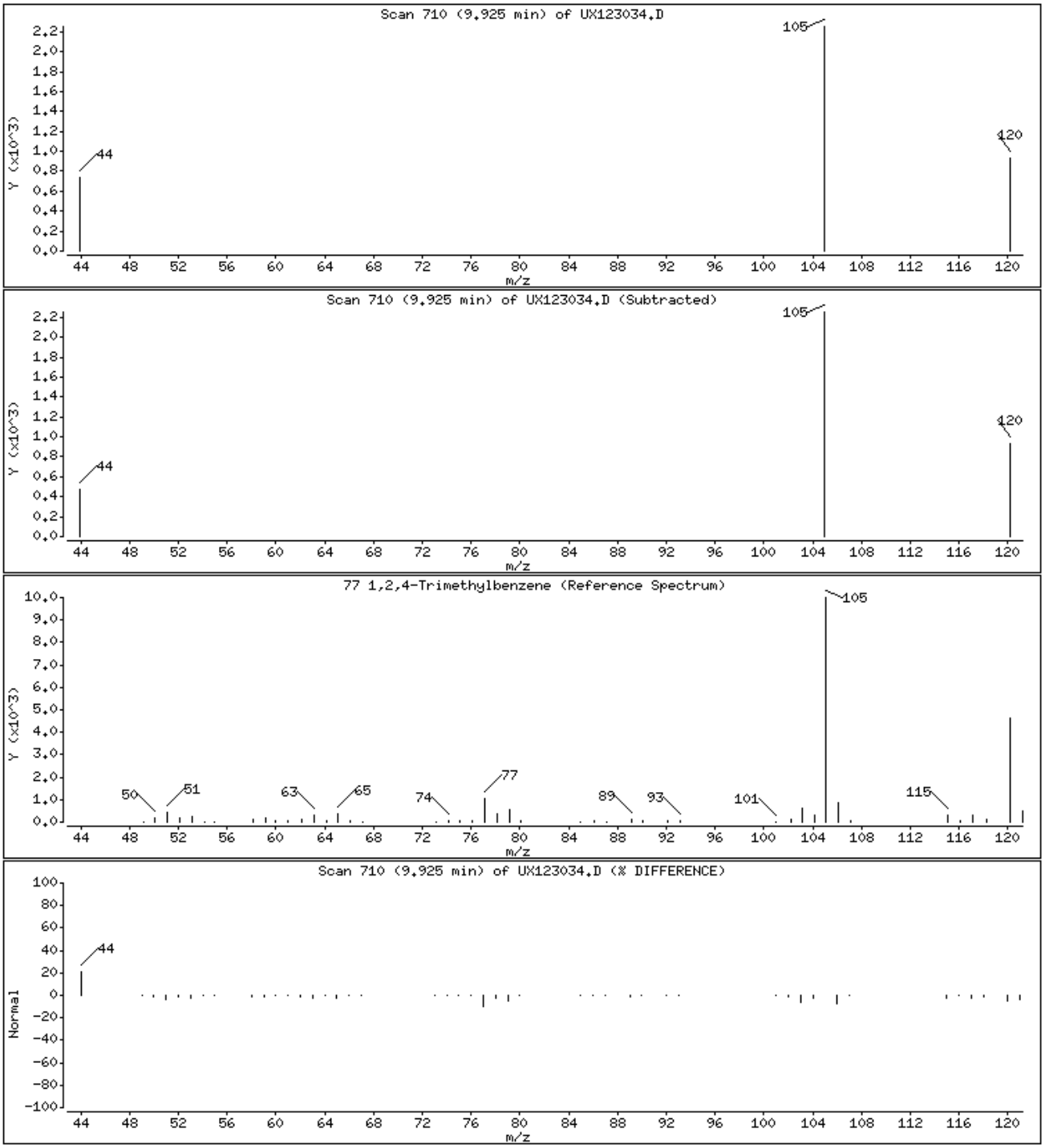
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

77 1,2,4-Trimethylbenzene Concentration: 0.1124 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

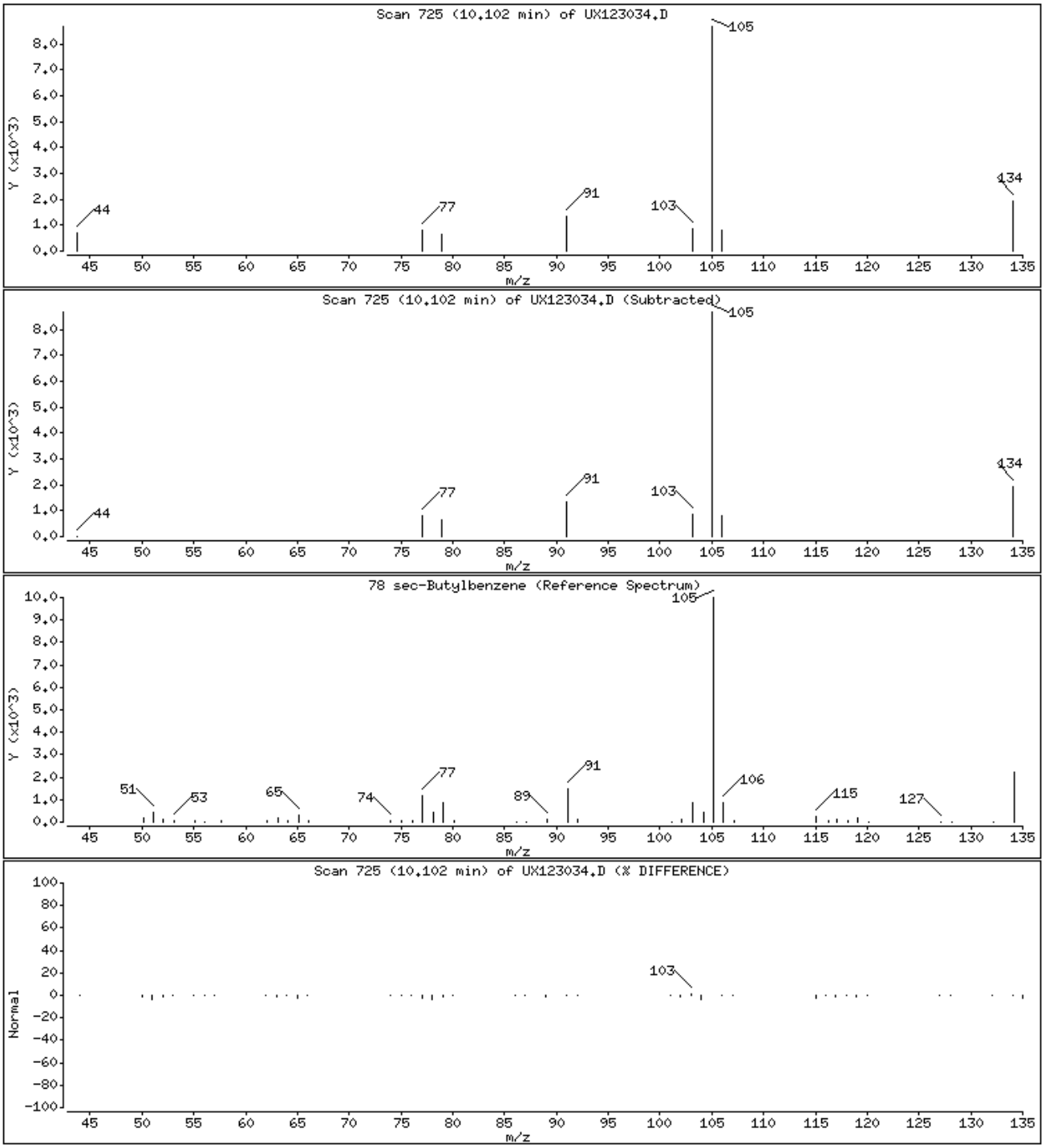
Operator: 1903

Column phase: DB624

Column diameter: 0.18

78 sec-Butylbenzene

Concentration: 0.4604 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

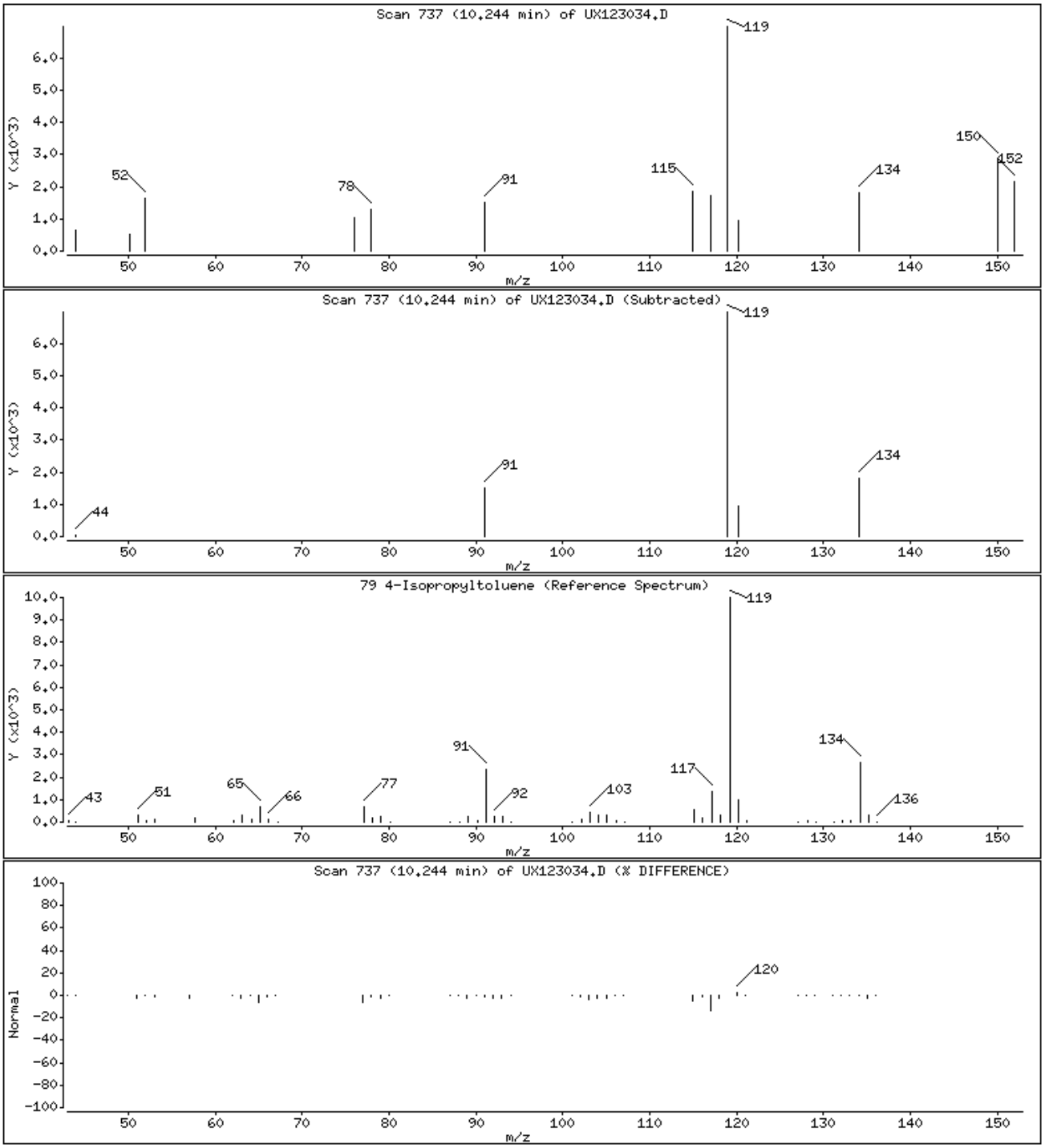
Operator: 1903

Column phase: DB624

Column diameter: 0.18

79 4-Isopropyltoluene

Concentration: 0.4356 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

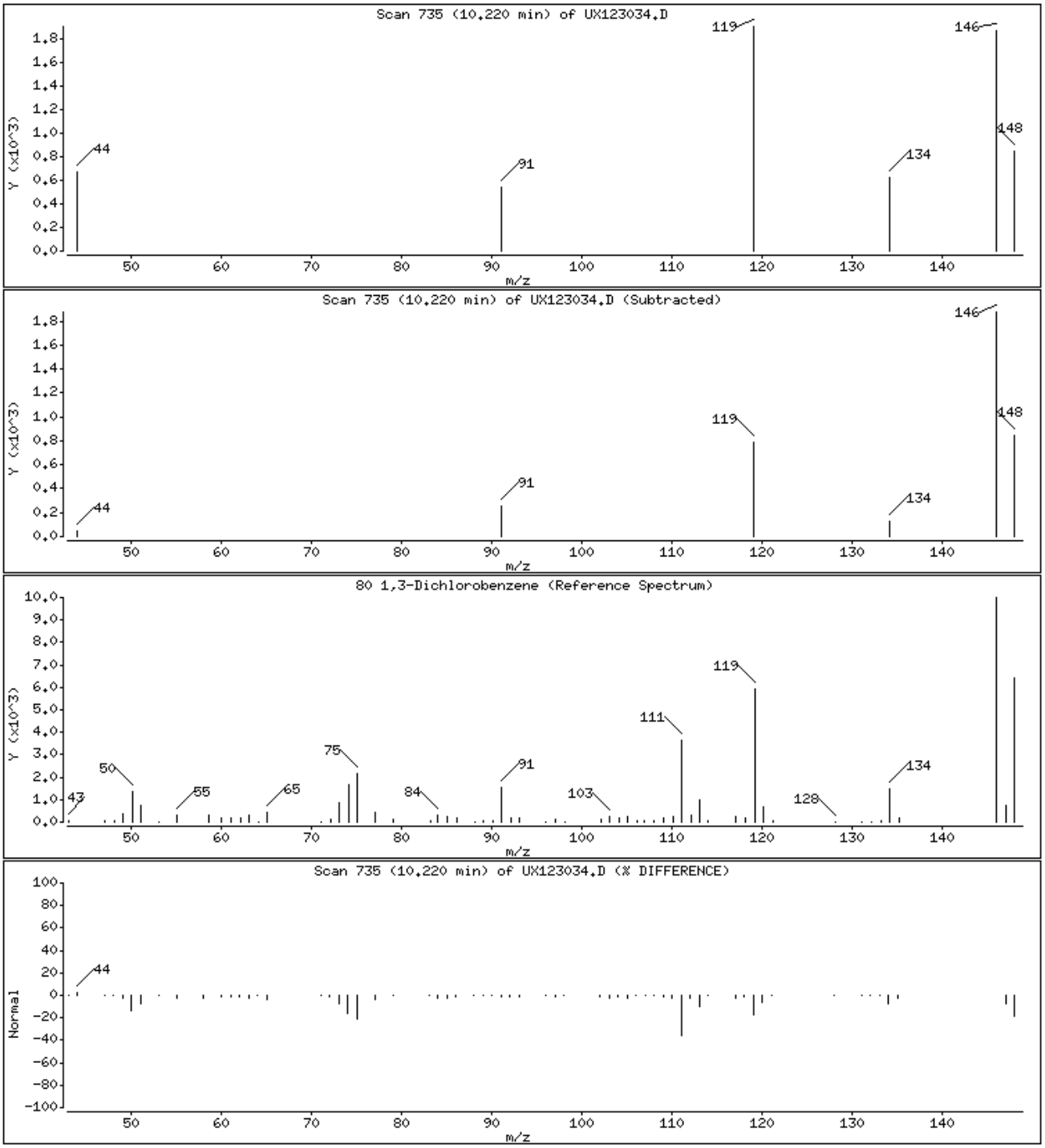
Operator: 1903

Column phase: DB624

Column diameter: 0.18

80 1,3-Dichlorobenzene

Concentration: 0.1247 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

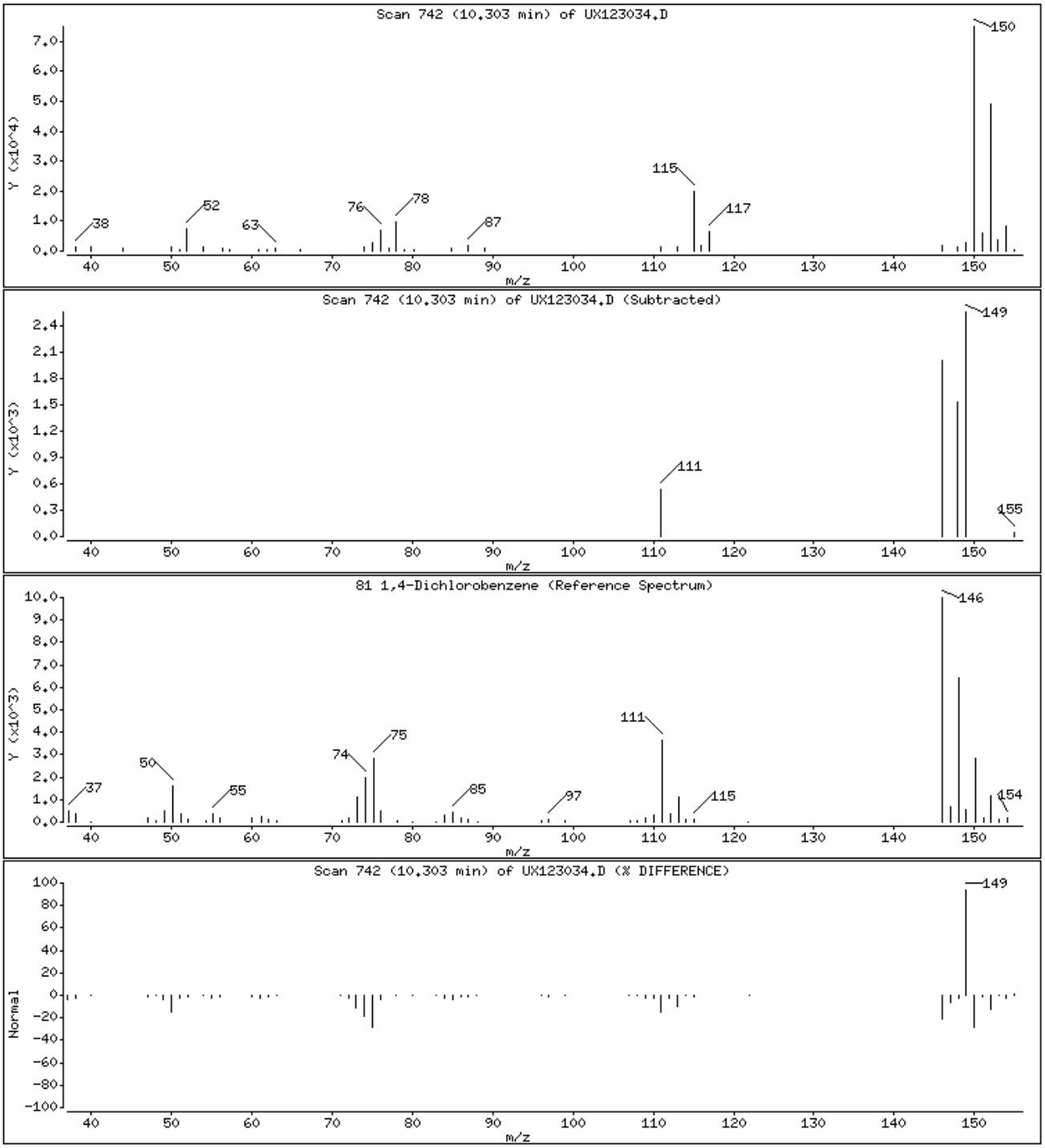
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.1145 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

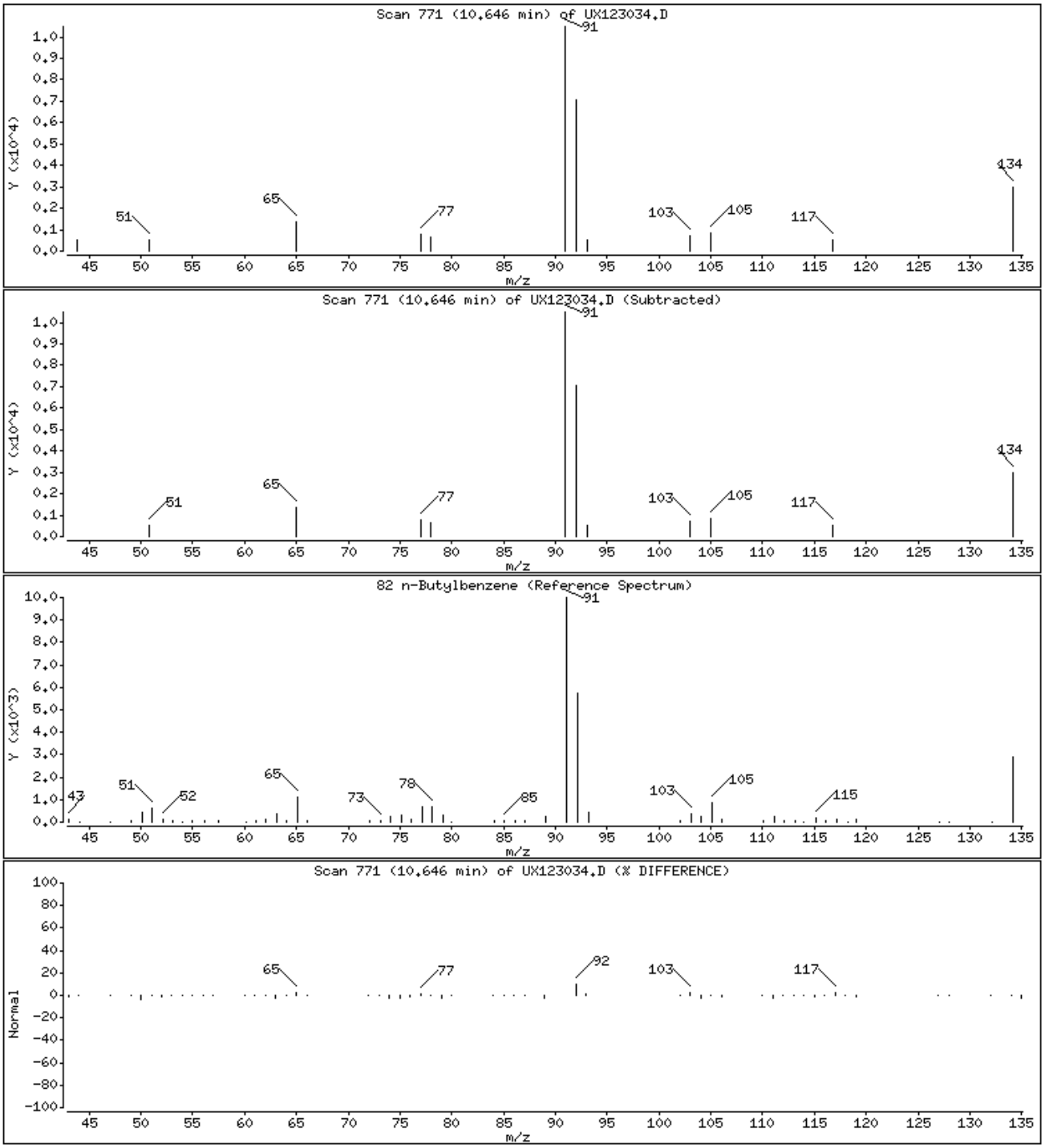
Operator: 1903

Column phase: DB624

Column diameter: 0.18

82 n-Butylbenzene

Concentration: 0.7191 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

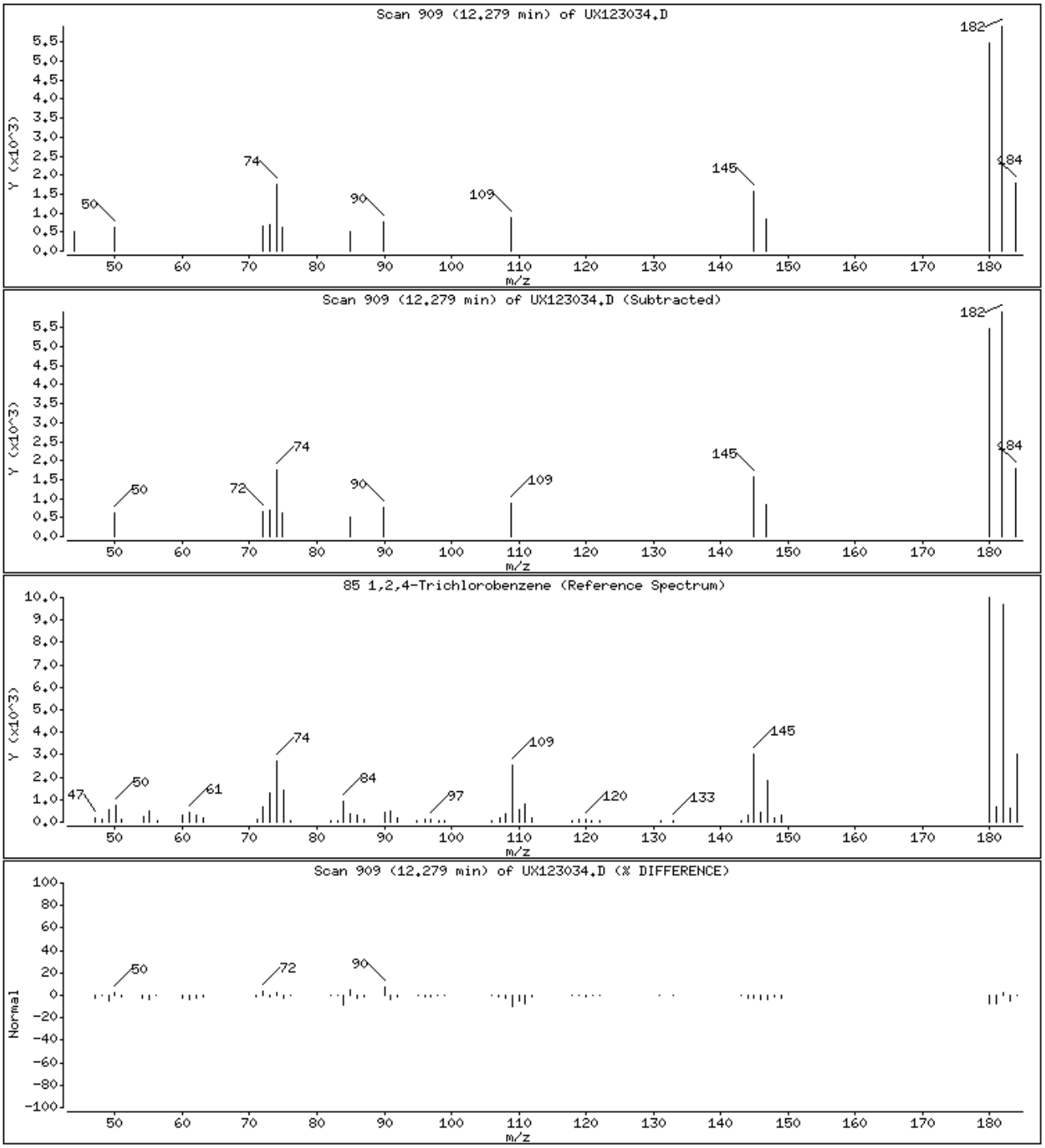
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

85 1,2,4-Trichlorobenzene Concentration: 0.8426 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

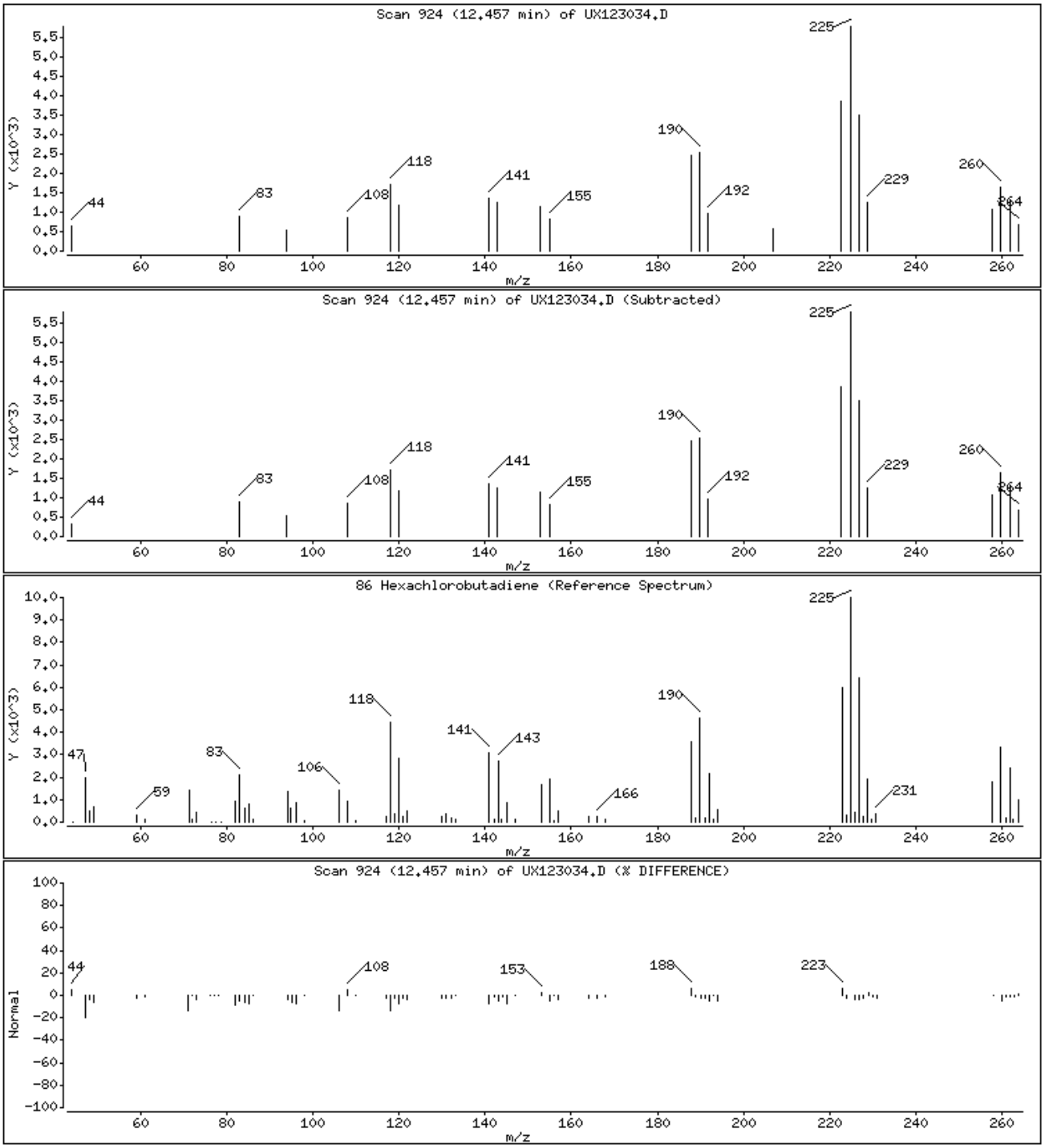
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

86 Hexachlorobutadiene Concentration: 0.5692 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

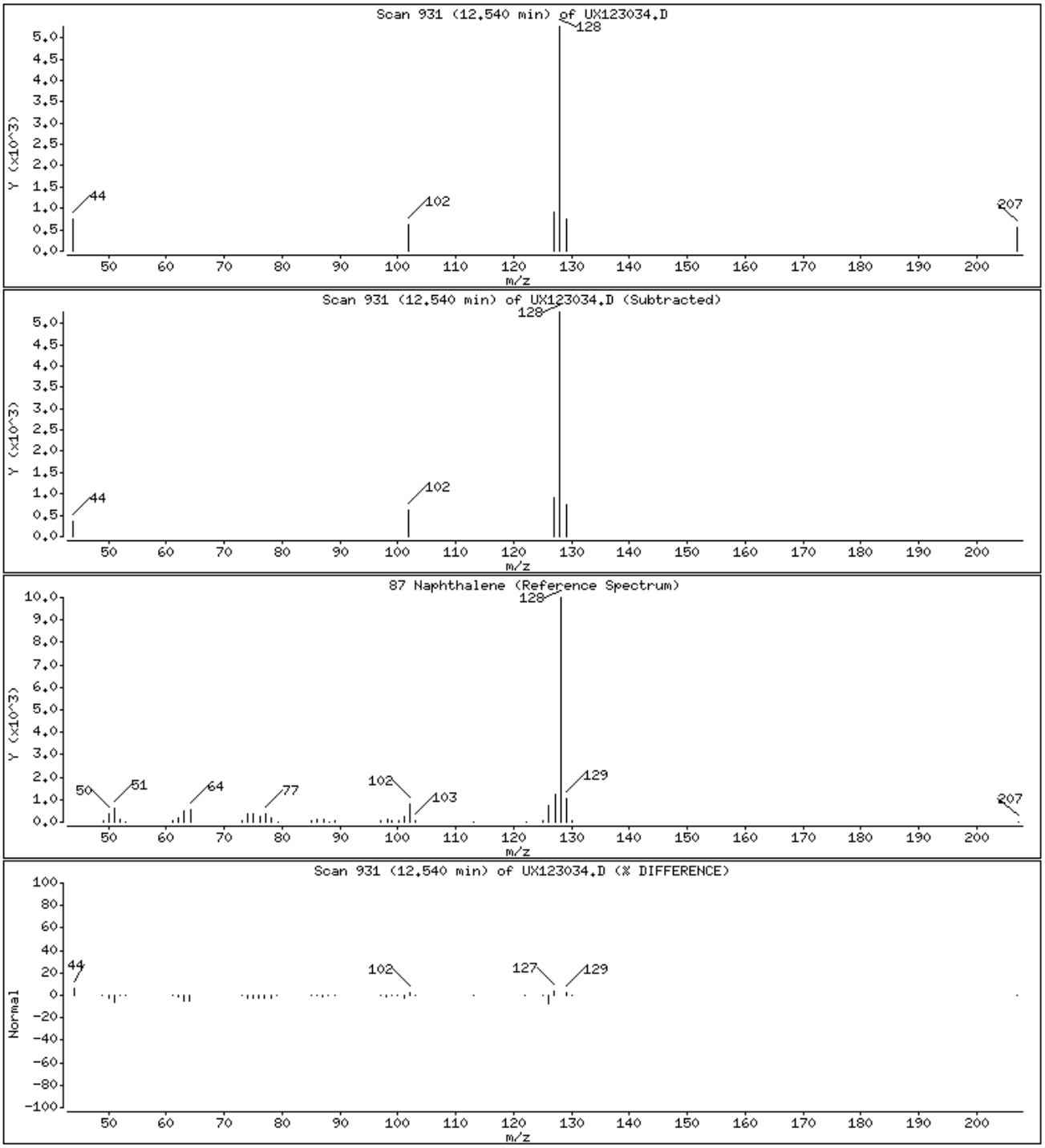
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.2803 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

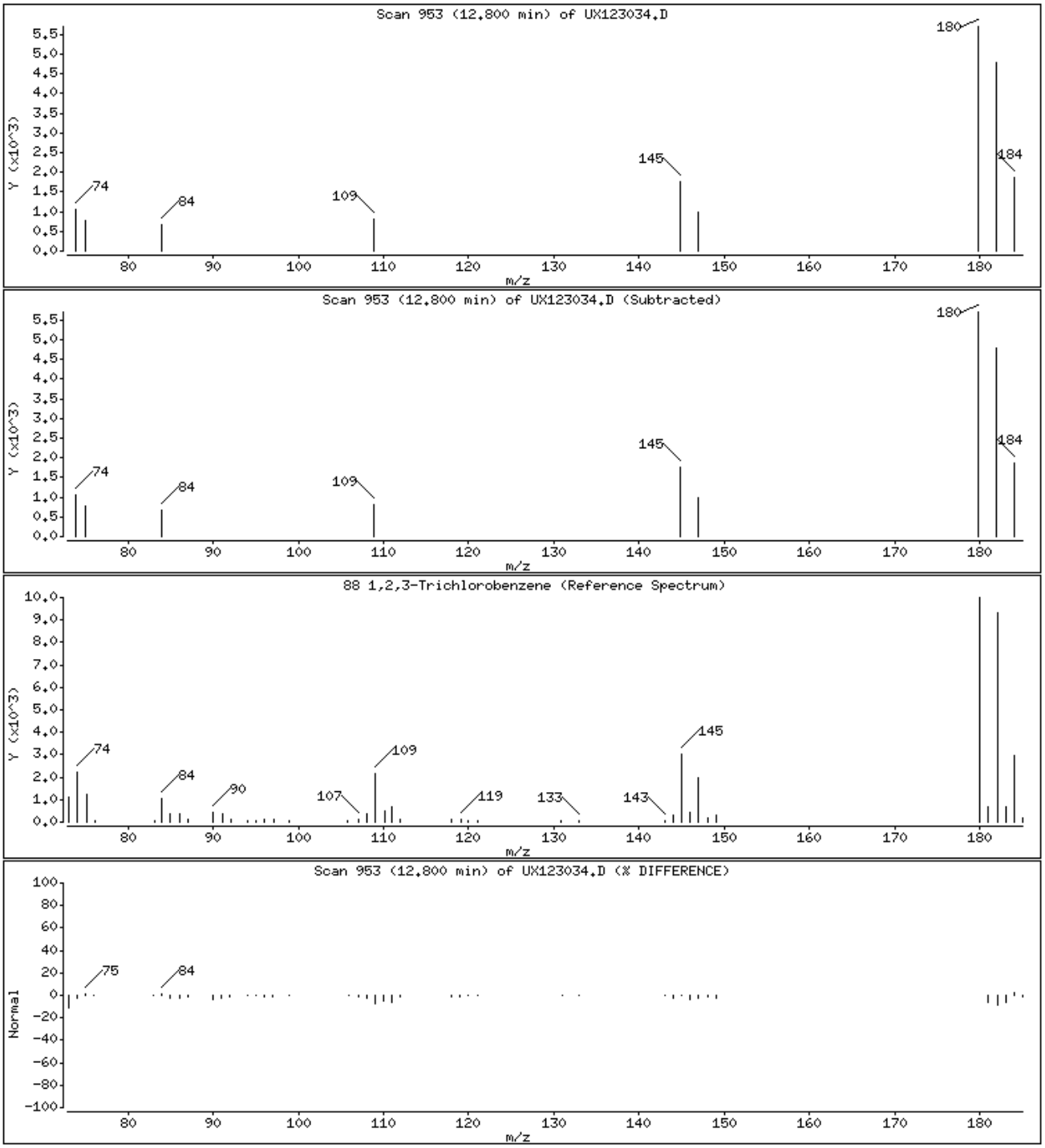
Client ID: Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0 Operator: 1903

Column phase: DB624 Column diameter: 0.18

88 1,2,3-Trichlorobenzene Concentration: 0.9257 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123034.D

Date : 02-AUG-2010 17:43

Client ID:

Instrument: a3ux12.i

Sample Info: BLANK

Purge Volume: 5.0

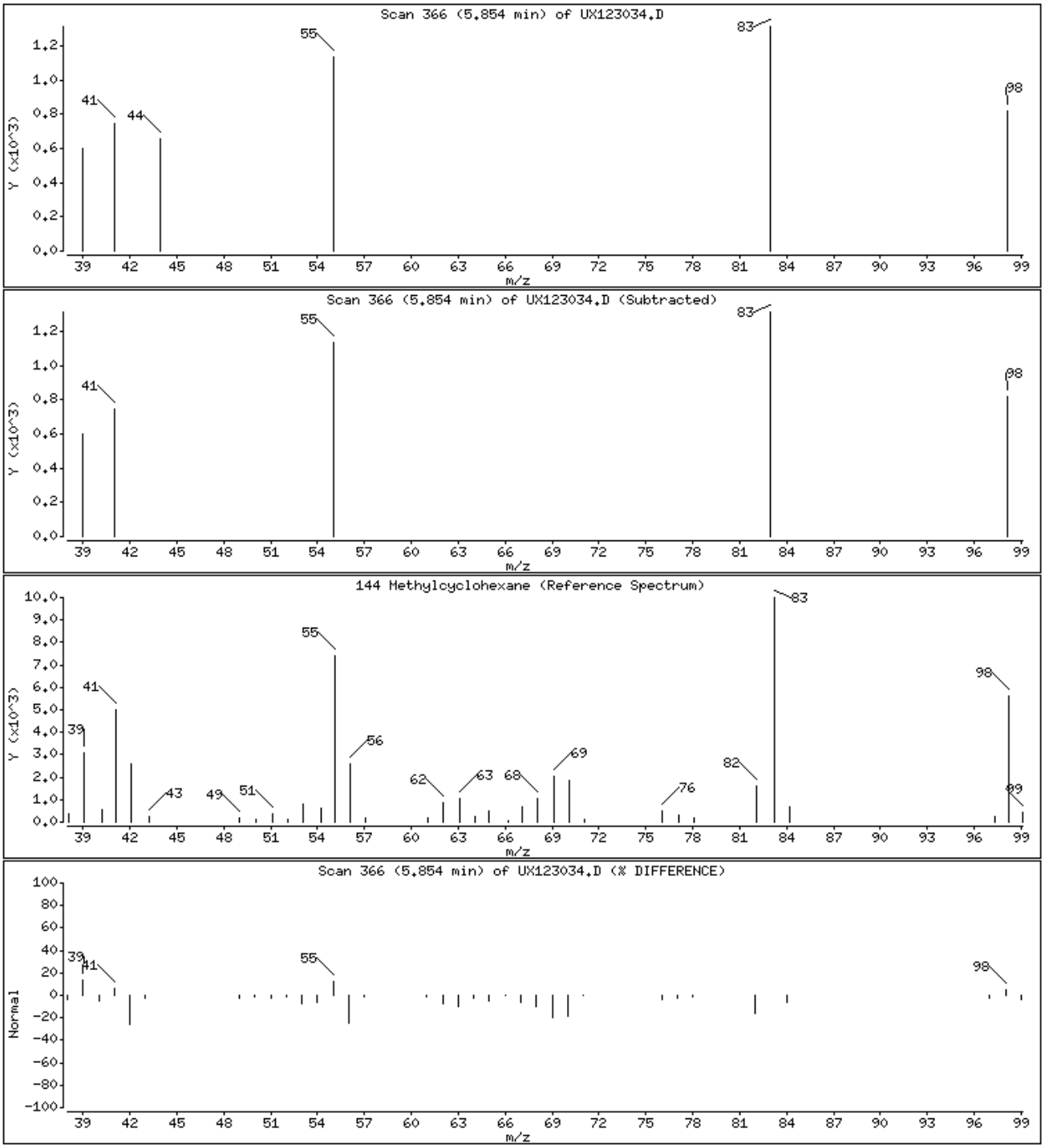
Operator: 1903

Column phase: DB624

Column diameter: 0.18

144 Methylcyclohexane

Concentration: 1.258 ug/L



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L4JD31A2-MS **Matrix.....:** WG
MS Lot-Sample #: A0G220446-005 L4JD31A3-MSD
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**88**	**(62 - 130)**			**SW846 8260B**
	87	**(62 - 130)**	**0.97**	**(0-20)**	**SW846 8260B**
Trichloroethene	**117**	**(62 - 130)**			**SW846 8260B**
	117	**(62 - 130)**	**0.06**	**(0-20)**	**SW846 8260B**
Benzene	**106**	**(78 - 118)**			**SW846 8260B**
	106	**(78 - 118)**	**0.42**	**(0-20)**	**SW846 8260B**
Toluene	**108**	**(70 - 119)**			**SW846 8260B**
	105	**(70 - 119)**	**3.0**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**106**	**(76 - 117)**			**SW846 8260B**
	105	**(76 - 117)**	**1.5**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
	110	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
	93	(61 - 128)
Toluene-d8	106	(76 - 110)
	103	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	94	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L4JD31A2-MS **Matrix.....:** WG
MS Lot-Sample #: A0G220446-005 L4JD31A3-MSD
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**20**	**18**	**ug/L**	**88**		**SW846 8260B**
	ND	**20**	**17**	**ug/L**	**87**	**0.97**	**SW846 8260B**
Trichloroethene	**1.6**	**20**	**25**	**ug/L**	**117**		**SW846 8260B**
	1.6	**20**	**25**	**ug/L**	**117**	**0.06**	**SW846 8260B**
Benzene	**0.37**	**20**	**21**	**ug/L**	**106**		**SW846 8260B**
	0.37	**20**	**22**	**ug/L**	**106**	**0.42**	**SW846 8260B**
Toluene	**ND**	**20**	**22**	**ug/L**	**108**		**SW846 8260B**
	ND	**20**	**21**	**ug/L**	**105**	**3.0**	**SW846 8260B**
Chlorobenzene	**ND**	**20**	**21**	**ug/L**	**106**		**SW846 8260B**
	ND	**20**	**21**	**ug/L**	**105**	**1.5**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
	110	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
	93	(61 - 128)
Toluene-d8	106	(76 - 110)
	103	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	94	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123043.D
Report Date: 02-Aug-2010 21:34

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123043.D
Lab Smp Id: L4JD31A2 Client Smp ID: OW5
Inj Date : 02-AUG-2010 21:18
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JD31A2,5ML/5ML
Misc Info : T00802A,8260MIUX12,,1903
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.369	5.369	(1.000)	1065224	100.000	
* 2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	830107	100.000	
* 3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	465833	100.000	
$ 4 Dibromofluoromethane	113	4.801	4.801	(0.894)	246237	109.992	21.998
$ 5 1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	274175	95.0395	19.008
$ 6 Toluene-d8	98	6.729	6.729	(0.837)	959724	105.519	21.104
$ 7 Bromofluorobenzene	95	9.143	9.143	(1.137)	373942	98.4882	19.698
8 Dichlorodifluoromethane	85	1.665	1.665	(0.310)	234491	107.105	21.421
9 Chloromethane	50	1.819	1.819	(0.339)	333489	94.2052	18.841
10 Vinyl Chloride	62	1.925	1.925	(0.359)	312897	86.1555	17.231
11 Bromomethane	94	2.233	2.233	(0.416)	186143	60.1687	12.034
12 Chloroethane	64	2.327	2.327	(0.434)	195567	61.5222	12.304
13 Trichlorofluoromethane	101	2.552	2.540	(0.475)	372508	81.1689	16.234
15 Acrolein	56	2.872	2.872	(0.535)	105992	286.317	57.263
16 Acetone	43	3.002	3.002	(0.559)	138553	120.697	24.139
17 1,1-Dichloroethene	61	2.990	2.990	(0.557)	373990	87.8638	17.573
18 Freon-113	101	2.990	2.990	(0.557)	239248	97.4566	19.491
19 Iodomethane	142	3.144	3.144	(0.586)	534637	112.134	22.427
20 Carbon Disulfide	76	3.179	3.179	(0.592)	723112	88.9685	17.794
21 Methylene Chloride	84	3.369	3.357	(0.628)	270322	77.7668	15.553

22 Acetonitrile	41	3.239	3.239 (0.603)	101833	193.813	38.762
23 Acrylonitrile	53	3.558	3.558 (0.663)	258586	212.974	42.595

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123043.D
Report Date: 02-Aug-2010 21:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	3.582	3.582	(0.667)	625772	76.9317	15.386
25	trans-1,2-Dichloroethene	61	3.594	3.594	(0.669)	313515	99.2255	19.845
26	Hexane	57	3.807	3.807	(0.709)	162751	112.535	22.507
27	Vinyl acetate	43	3.972	3.960	(0.740)	714342	261.789	52.358(A)
152	Vinyl acetate - 86	86	3.972	3.960	(0.740)	45822	133.840	26.768(A)
28	1,1-Dichloroethane	63	3.937	3.937	(0.733)	411565	108.467	21.693
29	tert-Butyl Alcohol	59	3.440	3.440	(0.641)	352777	1028.11	205.62(A)
30	2-Butanone	43	4.422	4.410	(0.824)	218063	159.835	31.967
M 31	1,2-Dichloroethene (total)	61				744056	227.992	45.598
32	cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	430541	128.767	25.753
33	2,2-Dichloropropane	77	4.422	4.422	(0.824)	178800	89.3373	17.867
34	Bromochloromethane	128	4.623	4.611	(0.861)	142611	125.138	25.028
35	Chloroform	83	4.670	4.670	(0.870)	427262	109.314	21.863
36	Tetrahydrofuran	42	4.659	4.659	(0.868)	66381	74.5022	14.900
37	1,1,1-Trichloroethane	97	4.836	4.836	(0.901)	285721	96.7609	19.352
38	1,1-Dichloropropene	75	4.966	4.966	(0.925)	320278	103.918	20.784
39	Carbon Tetrachloride	117	4.978	4.978	(0.927)	184984	82.8085	16.562
40	1,2-Dichloroethane	62	5.156	5.156	(0.960)	329011	97.8036	19.561
41	Benzene	78	5.144	5.144	(0.958)	1068461	107.443	21.488
42	Trichloroethene	130	5.676	5.676	(1.057)	305246	125.160	25.032(R)
43	1,2-Dichloropropane	63	5.877	5.877	(1.095)	240544	104.077	20.815
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	5.972	5.972	(1.112)	152730	106.568	21.314
46	Bromodichloromethane	83	6.102	6.090	(1.137)	253564	89.8910	17.978
47	2-Chloroethyl vinyl ether	63	6.481	6.339	(1.207)	925	0.55689	0.1114
48	cis-1,3-Dichloropropene	75	6.481	6.481	(1.207)	282206	75.7274	15.145
49	4-Methyl-2-pentanone	43	6.611	6.599	(1.231)	385740	162.047	32.409
50	Toluene	91	6.788	6.788	(0.844)	1102368	108.484	21.697
51	trans-1,3-Dichloropropene	75	6.966	6.966	(0.866)	234166	69.7511	13.950
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	7.132	7.132	(0.887)	229432	105.198	21.040
54	1,3-Dichloropropane	76	7.297	7.297	(0.907)	419862	103.057	20.611
55	Tetrachloroethene	164	7.285	7.285	(0.906)	229561	140.533	28.106
56	2-Hexanone	43	7.345	7.345	(0.913)	271312	170.471	34.094
57	Dibromochloromethane	129	7.510	7.498	(0.934)	153881	82.2754	16.455
58	1,2-Dibromoethane	107	7.617	7.617	(0.947)	229449	102.383	20.477
59	Chlorobenzene	112	8.066	8.066	(1.003)	767070	106.249	21.250
60	1,1,1,2-Tetrachloroethane	131	8.137	8.137	(1.012)	176644	88.3714	17.674
61	Ethylbenzene	91	8.161	8.161	(1.015)	1132327	103.698	20.740
62	m + p-Xylene	91	8.268	8.268	(1.028)	1721523	199.096	39.819
M 63	Xylenes (total)	91				2663605	303.437	60.687
64	Xylene-o	91	8.646	8.646	(1.075)	942082	104.341	20.868
65	Styrene	104	8.658	8.658	(1.077)	824156	94.1646	18.833
66	Bromoform	173	8.847	8.847	(1.100)	82283	79.3161	15.863
67	Isopropylbenzene	105	8.989	8.989	(1.118)	966329	106.501	21.300
68	1,1,2,2-Tetrachloroethane	83	9.273	9.273	(0.902)	313792	94.1190	18.824
69	1,4-Dichloro-2-butene	53	9.333	9.333	(0.908)	77343	125.733	25.146
70	1,2,3-Trichloropropane	110	9.333	9.321	(0.908)	120769	111.175	22.235
71	Bromobenzene	156	9.309	9.309	(0.906)	358577	113.767	22.753
72	n-Propylbenzene	91	9.392	9.392	(0.914)	1079388	104.363	20.873
73	2-Chlorotoluene	126	9.486	9.486	(0.923)	274558	104.671	20.934
74	1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	799058	105.619	21.124

75	4-Chlorotoluene	126	9.593	9.593 (0.933)	301213	106.374	21.275
76	tert-Butylbenzene	119	9.889	9.889 (0.962)	672609	108.221	21.644

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123043.D
Report Date: 02-Aug-2010 21:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	9.936	9.924	(0.967)	891963	110.654	22.131
78	sec-Butylbenzene	105	10.102	10.102	(0.983)	890360	110.348	22.070
79	4-Isopropyltoluene	119	10.244	10.244	(0.997)	828754	116.922	23.384
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	607072	109.017	21.803
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	653655	106.248	21.250
82	n-Butylbenzene	91	10.646	10.646	(1.036)	668128	109.263	21.852
83	1,2-Dichlorobenzene	146	10.681	10.682	(1.039)	610426	107.339	21.468
84	1,2-Dibromo-3-chloropropane	157	11.451	11.451	(1.114)	43868	72.6858	14.537
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	355834	114.909	22.982
86	Hexachlorobutadiene	225	12.456	12.445	(1.212)	134990	114.485	22.897
87	Naphthalene	128	12.539	12.539	(1.220)	936456	96.6280	19.326
88	1,2,3-Trichlorobenzene	180	12.800	12.800	(1.245)	308827	101.397	20.279
98	Cyclohexane	56	4.895	4.895	(0.912)	263654	86.3441	17.269
143	Methyl Acetate	43	3.274	3.262	(0.610)	180201	56.8324	11.366
144	Methylcyclohexane	83	5.854	5.854	(1.090)	214891	92.3574	18.471
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123043.D
Report Date: 02-Aug-2010 21:34

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

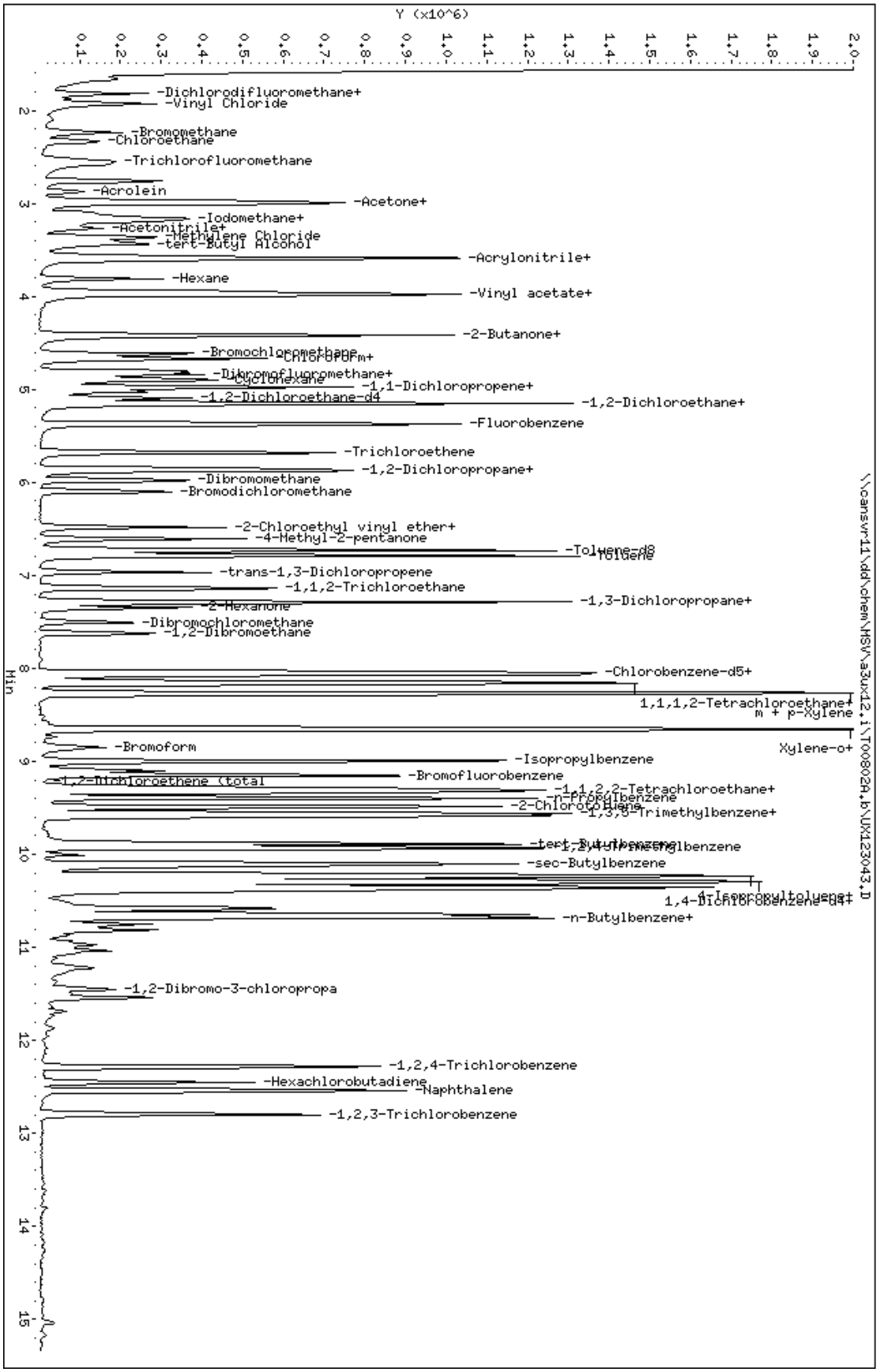
Instrument ID: a3ux12.i
Lab File ID: UX123043.D
Lab Smp Id: L4JD31A2
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903

Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Client Smp ID: OW5
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	1065224	6.35
2 Chlorobenzene-d5	825482	412741	1650964	830107	0.56
3 1,4-Dichlorobenze	542805	271403	1085610	465833	-14.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123043.D
Date : 02-AUG-2010 21:18
Client ID: OW5
Sample Info: L4JD31A2,5ML/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123044.D
Report Date: 02-Aug-2010 21:58

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123044.D
Lab Smp Id: L4JD31A3 Client Smp ID: OW5
Inj Date : 02-AUG-2010 21:42
Operator : 1903 Inst ID: a3ux12.i
Smp Info : L4JD31A3,5ML/5ML
Misc Info : T00802A,8260MIUX12,,1903
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Meth Date : 02-Aug-2010 17:10 Quant Type: ISTD
Cal Date : 06-NOV-2009 01:02 Cal File: UX128921.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.368	5.369	(1.000)	1078658	100.000	
*	2 Chlorobenzene-d5	117	8.043	8.043	(1.000)	860934	100.000	
*	3 1,4-Dichlorobenzene-d4	152	10.279	10.279	(1.000)	476948	100.000	
$	4 Dibromofluoromethane	113	4.800	4.801	(0.894)	248226	109.500	21.900
$	5 1,2-Dichloroethane-d4	65	5.096	5.096	(0.949)	270446	92.5793	18.516
$	6 Toluene-d8	98	6.729	6.729	(0.837)	967145	102.528	20.506
$	7 Bromofluorobenzene	95	9.143	9.143	(1.137)	371806	94.4193	18.884
	8 Dichlorodifluoromethane	85	1.665	1.665	(0.310)	227525	102.629	20.526
	9 Chloromethane	50	1.818	1.819	(0.339)	325485	90.7991	18.160
	10 Vinyl Chloride	62	1.925	1.925	(0.359)	313913	85.3587	17.072
	11 Bromomethane	94	2.233	2.233	(0.416)	188529	60.1798	12.036
	12 Chloroethane	64	2.327	2.327	(0.434)	191964	60.0255	12.005
	13 Trichlorofluoromethane	101	2.540	2.540	(0.473)	369692	79.7055	15.941
	15 Acrolein	56	2.872	2.872	(0.535)	101711	271.331	54.266
	16 Acetone	43	3.002	3.002	(0.559)	141242	121.531	24.306
	17 1,1-Dichloroethene	61	2.990	2.990	(0.557)	375024	87.0094	17.402
	18 Freon-113	101	2.990	2.990	(0.557)	232261	93.7767	18.755
	19 Iodomethane	142	3.144	3.144	(0.586)	530891	109.961	21.992
	20 Carbon Disulfide	76	3.179	3.179	(0.592)	722502	87.7863	17.557
	21 Methylene Chloride	84	3.357	3.357	(0.625)	268473	76.2559	15.251

22 Acetonitrile	41	3.238	3.239 (0.603)	99743	187.471	37.494
23 Acrylonitrile	53	3.558	3.558 (0.663)	261829	212.959	42.592

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123044.D
Report Date: 02-Aug-2010 21:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	3.582	3.582	(0.667)	625106	75.8928	15.178
25	trans-1,2-Dichloroethene	61	3.593	3.594	(0.669)	316893	99.0455	19.809
26	Hexane	57	3.806	3.807	(0.709)	158134	107.981	21.596
27	Vinyl acetate	43	3.972	3.960	(0.740)	728306	263.582	52.716(A)
152	Vinyl acetate - 86	86	3.960	3.960	(0.738)	46098	132.969	26.594(A)
28	1,1-Dichloroethane	63	3.937	3.937	(0.733)	425167	110.657	22.131
29	tert-Butyl Alcohol	59	3.440	3.440	(0.641)	363731	1046.83	209.36(A)
30	2-Butanone	43	4.422	4.410	(0.824)	217081	156.905	31.381
M 31	1,2-Dichloroethene (total)	61				750736	227.184	45.437
32	cis-1,2-dichloroethene	61	4.410	4.410	(0.821)	433843	128.138	25.628
33	2,2-Dichloropropane	77	4.422	4.422	(0.824)	187767	92.5673	18.513
34	Bromochloromethane	128	4.623	4.611	(0.861)	141726	122.813	24.563
35	Chloroform	83	4.670	4.670	(0.870)	424061	107.144	21.429
36	Tetrahydrofuran	42	4.658	4.659	(0.868)	66908	74.1164	14.823
37	1,1,1-Trichloroethane	97	4.836	4.836	(0.901)	293335	98.0582	19.612
38	1,1-Dichloropropene	75	4.966	4.966	(0.925)	318402	102.082	20.416
39	Carbon Tetrachloride	117	4.978	4.978	(0.927)	193538	85.3608	17.072
40	1,2-Dichloroethane	62	5.155	5.156	(0.960)	334791	98.2824	19.656
41	Benzene	78	5.143	5.144	(0.958)	1086512	107.897	21.579
42	Trichloroethene	130	5.676	5.676	(1.057)	308887	125.075	25.015(R)
43	1,2-Dichloropropane	63	5.877	5.877	(1.095)	240101	102.592	20.518
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	5.972	5.972	(1.112)	153093	105.491	21.098
46	Bromodichloromethane	83	6.102	6.090	(1.137)	261458	91.4370	18.287
47	2-Chloroethyl vinyl ether	63	6.481	6.339	(1.207)	985	0.58562	0.1171
48	cis-1,3-Dichloropropene	75	6.481	6.481	(1.207)	297608	78.6299	15.726
49	4-Methyl-2-pentanone	43	6.611	6.599	(1.231)	387428	160.729	32.146
50	Toluene	91	6.788	6.788	(0.844)	1109425	105.269	21.054
51	trans-1,3-Dichloropropene	75	6.966	6.966	(0.866)	247479	70.9633	14.193
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	7.143	7.132	(0.888)	222871	98.5303	19.706
54	1,3-Dichloropropane	76	7.297	7.297	(0.907)	417075	98.7070	19.741
55	Tetrachloroethene	164	7.285	7.285	(0.906)	233971	138.104	27.621
56	2-Hexanone	43	7.344	7.345	(0.913)	280591	169.989	33.998
57	Dibromochloromethane	129	7.510	7.498	(0.934)	164046	84.3314	16.866
58	1,2-Dibromoethane	107	7.617	7.617	(0.947)	230696	99.2536	19.851
59	Chlorobenzene	112	8.066	8.066	(1.003)	783431	104.630	20.926
60	1,1,1,2-Tetrachloroethane	131	8.137	8.137	(1.012)	185718	89.5841	17.917
61	Ethylbenzene	91	8.161	8.161	(1.015)	1123572	99.2115	19.842
62	m + p-Xylene	91	8.267	8.268	(1.028)	1710201	190.704	38.141
M 63	Xylenes (total)	91				2651604	291.236	58.247
64	Xylene-o	91	8.646	8.646	(1.075)	941403	100.532	20.106
65	Styrene	104	8.658	8.658	(1.077)	826701	91.2915	18.258
66	Bromoform	173	8.847	8.847	(1.100)	88675	81.7505	16.350
67	Isopropylbenzene	105	9.001	8.989	(1.119)	966648	102.722	20.544
68	1,1,2,2-Tetrachloroethane	83	9.273	9.273	(0.902)	315933	92.5528	18.510
69	1,4-Dichloro-2-butene	53	9.332	9.333	(0.908)	77032	122.837	24.567
70	1,2,3-Trichloropropane	110	9.332	9.321	(0.908)	118320	106.382	21.276
71	Bromobenzene	156	9.309	9.309	(0.906)	360104	111.589	22.318
72	n-Propylbenzene	91	9.392	9.392	(0.914)	1086425	102.596	20.519
73	2-Chlorotoluene	126	9.486	9.486	(0.923)	272911	101.618	20.324
74	1,3,5-Trimethylbenzene	105	9.557	9.557	(0.930)	812113	104.843	20.969

75	4-Chlorotoluene	126	9.593	9.593 (0.933)	304966	105.190	21.038
76	tert-Butylbenzene	119	9.888	9.889 (0.962)	676879	106.370	21.274

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123044.D
Report Date: 02-Aug-2010 21:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77	1,2,4-Trimethylbenzene	105	9.936	9.924	(0.967)	895383	108.490	21.698
78	sec-Butylbenzene	105	10.101	10.102	(0.983)	908613	109.986	21.997
79	4-Isopropyltoluene	119	10.243	10.244	(0.997)	838904	115.595	23.119
80	1,3-Dichlorobenzene	146	10.220	10.220	(0.994)	610402	107.061	21.412
81	1,4-Dichlorobenzene	146	10.303	10.303	(1.002)	653735	103.784	20.757
82	n-Butylbenzene	91	10.646	10.646	(1.036)	674157	107.680	21.536
83	1,2-Dichlorobenzene	146	10.681	10.682	(1.039)	621402	106.723	21.344
84	1,2-Dibromo-3-chloropropane	157	11.450	11.451	(1.114)	45643	73.7155	14.743
85	1,2,4-Trichlorobenzene	180	12.279	12.279	(1.195)	346021	109.136	21.827
86	Hexachlorobutadiene	225	12.456	12.445	(1.212)	137534	113.880	22.776
87	Naphthalene	128	12.539	12.539	(1.220)	910561	91.7664	18.353
88	1,2,3-Trichlorobenzene	180	12.799	12.800	(1.245)	320650	102.825	20.565
98	Cyclohexane	56	4.895	4.895	(0.912)	260464	84.3702	16.874
143	Methyl Acetate	43	3.274	3.262	(0.610)	179568	55.9274	11.185
144	Methylcyclohexane	83	5.853	5.854	(1.090)	219970	93.3069	18.661
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\UX123044.D
Report Date: 02-Aug-2010 21:58

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

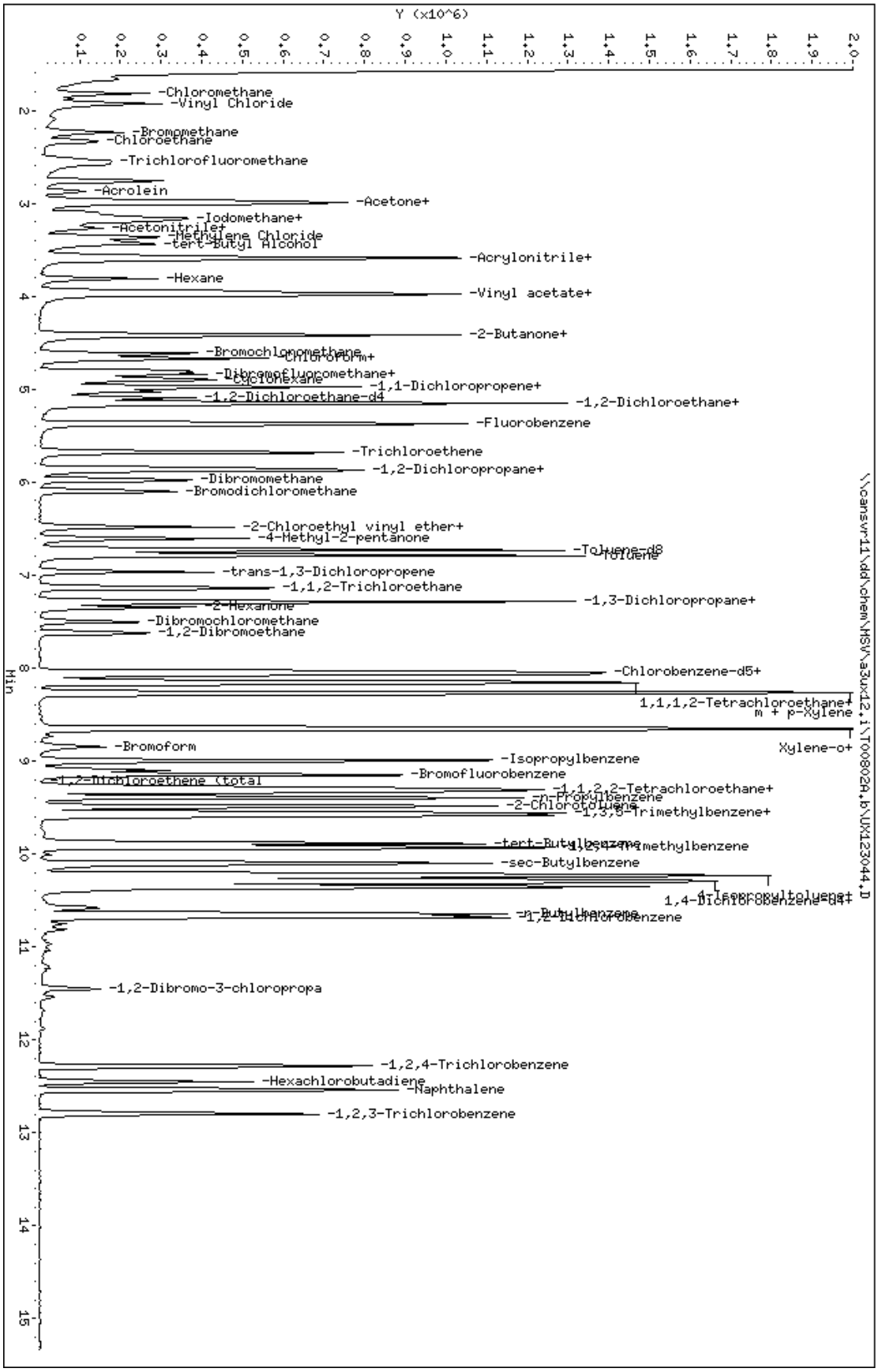
Instrument ID: a3ux12.i
Lab File ID: UX123044.D
Lab Smp Id: L4JD31A3
Analysis Type: VOA
Quant Type: ISTD
Operator: 1903
Method File: \\cansvr11\dd\chem\MSV\a3ux12.i\T00802A.b\8260MIUX12.m
Misc Info: T00802A,8260MIUX12,,1903

Calibration Date: 02-AUG-2010
Calibration Time: 16:54
Client Smp ID: OW5
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1001644	500822	2003288	1078658	7.69
2 Chlorobenzene-d5	825482	412741	1650964	860934	4.29
3 1,4-Dichlorobenze	542805	271403	1085610	476948	-12.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.37	4.87	5.87	5.37	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.28	9.78	10.78	10.28	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux12.i\T000802A.b\UX123044.D
Date : 02-AUG-2010 21:42
Client ID: OM5
Sample Info: L4JD31A3,5ML/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux12.i
Operator: 1903
Column diameter: 0.18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

UX12
Batch # _____

TestAmerica-North Canton
GC/MS VOA Run Log

Date: 11-11-9

Method: 8260B 624

Column
Type: DB-624
Length 20 M
I.D. 0.18 mm
Flow Rate 0.4ml/min

BFB
100 C for 0.1 min
to 200 C @ 20 C/min
Hold -- min
IS # V8224 SS # V8225

Analysis
45 C for 2 min
to 200 C @ 15 C/min
to -- C @ -- C/min
Hold 3 min

Purge & Trap
Trap: 10
Purge: 11
Desorb: 1 min @190 C
Bake: 6 min @ 210 C
Heated purge: Yes No

Auto num	Sample ID Workorder#	Method	File Name	Amt purged	Std number / Sample prep	Comments	Sample status
	BFB		BFB1108	50 ng	V8004	DIR 12145 BFB 11-11-9	DC
11-11-9	~~UX~~ 8260 STD		UX129058	100 ng			AR
	AP STD		59	100 ng			all
	SS TEST		60	5 mL		AUTO ADD	all
	SS TEST		61	5 mL		MAN ADD	all
	8260 STD		62	500 ng	V8205, 2228	T9 1111	all
			63	~~50~~ 250 ng			all
			64	100 ng			all
			65	25 ng			all
			66	5 ng			all
			67	2.5 ng			all
	ICV		68	100 ng	V8233		all
	CCS		69	100 ng	6		all
	BLANK		70	5 mL			all
			71				
			72				
			73				
			74				
			75				
			76				
			77				
			78				
			79				
			80				
			81				
			82				
			83				
			84				
			85				
			88				
			87				

Analyst: _____
Level 2 review: TS Date: 11/22/09

Made pdf ✓

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Instr. a3ux12.i

Date: 01-AUG-2010 12:33

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG

OVC 8-5

Standard Codes:	Column	
IS#: V8970	Type: DB624	Method: 8260 / 624
SS#: V8971	Length: 20 M	Batch: 0214377
BFB#: V8538	I.D.: 0.18 mm	Target Batch: T00801A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
12:33	BFB1296.D		BFB				all
12:57	UX123004.D	100NG-CC V8960,61,62	CCALIB_5		T91111		all
13:20	UX123005.D	CHECK V896K	METHSPIKE		L4109		all
13:45	UX123006.D	BLANK	BLANK		6		all
14:10	UX123007.D	L4K991CH,1.5ML/5ML	SAMPLE	N		A0G230474	all
14:34	UX123008.D	L4LAK1AP,1.5ML/5ML	SAMPLE	N		A0G230474	all
14:58	UX123009.D	L4K7R1AP,5ML/5ML	SAMPLE	N		A0G230474	all
15:22	UX123010.D	L4K9A1AP,5ML/5ML	SAMPLE	N		A0G230474	all
15:44	UX123011.D	L4K9T1AP,5ML/5ML	SAMPLE	N		A0G230474	all
16:08	UX123012.D	L4K911AP,5ML/5ML	SAMPLE	N		A0G230474	all
16:32	UX123013.D	L4LAQ1AP,5ML/5ML	SAMPLE	N		A0G230474	all
16:57	UX123014.D	L4LA11AC,5ML/5ML	SAMPLE	N		A0G230474	all
17:21	UX123015.D	L4K991CJ,1.5ML/5ML	MS	N	+100ng	A0G230474	all
17:45	UX123016.D	L4K991CK,1.5ML/5ML	MSD	N		A0G230474	all
18:10	UX123017.D	L4LKT1AA,0.4ML/5ML	SAMPLE	N		A0G230512	all
18:34	UX123018.D	L4LW41AA,0.125ML/5ML	SAMPLE	N		A0G230512	all
18:58	UX123019.D	L4LW51AA,5ML/5ML	SAMPLE	N		A0G230512	all
19:23	UX123020.D	L4LW61AA,0.75ML/5ML	SAMPLE	N		A0G230512	all
19:47	UX123021.D	L4LW71AA,0.75ML/5ML	SAMPLE	N		A0G230512	all
20:11	UX123022.D	L4LW81AA,0.05ML/5ML	SAMPLE	N		A0G230512	all
20:36	UX123023.D	L4LW91AA,0.2ML/5ML	SAMPLE	N		A0G230512	all
21:00	UX123024.D	L4LXD1AA,5ML/5ML	SAMPLE	N		A0G230512	all
21:24	UX123025.D	L4JEC1AJ,5ML/5ML	SAMPLE	N		A0G220446	all
21:49	UX123026.D	L4JED1AJ,5ML/5ML	SAMPLE	N		A0G220446	all
22:13	UX123027.D	L4JEG1AJ,5ML/5ML	SAMPLE	N		A0G220446	all
22:37	UX123028.D	L4JEJ1AA,5ML/5ML	SAMPLE	N		A0G220446	all

1100933

Analyst: 1903

Level 2 Review: TS Date: 8/5/10

Instr. a3ux12.i

Date: 01-AUG-2010 12:33

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#: _____	Type: DB624	Method: 8260 624
SS#: _____	Length: 20 M	Batch: _____
BFB#: _____	I.D.: 0.18 mm	Target Batch: T00801A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
23:02	UX123029.D	L4Q561AA,0.1ML/5ML	SAMPLE	N	0211282	A0G280406	o/l
23:27	UX123030.D	L4Q551AA,0.002ML/5ML,,,10	SAMPLE	N	↓	A0G280404	o/l
23:51	UX123031.D	L4M191AP,,2,5UL/5ML,,8.30,10000	SAMPLE	N	FOAMR 0209265	A0G240468	o/l

Analyst: 1903

Level 2 Review: _____ Date: _____

Page No. #2

Instr. a3ux12.i

Date: 02-AUG-2010 16:28

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG

DW 8-3

Standard Codes:
IS#: V8920
SS#: V8921
BFB#: V8538

Column
Type: DB624
Length: 20 M
I.D.: 0.18 mm

Method: 8260 / 624
Batch:
Target Batch: T00802A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
16:28	BFB1297.D		BFB				DK
16:54	UX123032.D	100NG-CC V8960, 61, 62	CCALIB_5		T9111		DK
17:18	UX123033.D	CHECK V896t	METHSPIKE		L42N8 02/5723		DK
17:43	UX123034.D	BLANK	BLANK				DK
18:06	UX123035.D	L4JD31A1,5ML/5ML	BLANK	N			DK
18:30	UX123036.D	FILTRATE LCS,0.025ML/5ML,,,5	METHSPIKE	N	02/4451		DK
18:54	UX123037.D	FILTRATE LCSD,0.025ML/5ML,,,5	METHSPIKE	N			DK
19:16	UX123038.D	FILTRATE VBLK,0.025ML/5ML,,,5	BLANK	N			DK
19:41	UX123039.D	L4KL51AK,0.002ML/5ML,,,5	SAMPLE	N	BJ ONLY DK TIC	A0G230411	DK
20:05	UX123040.D	L4KL71AK,0.0025ML/5ML,,,50	SAMPLE	N	RR 4µL	A0G230411	
20:29	UX123041.D	L4LPD1AA,,2,2UL/5ML,10,1.05,5000	SAMPLE	N	RR 5µL x10	A0G230525	
20:53	UX123042.D	L4KL71AK,0.004ML/5ML,,,5	SAMPLE	N	BJ ONLY DK TIC 02/4451	A0G230411	DK
21:18	UX123043.D	L4JD31A2,5ML/5ML	MS	N	+10ng 0215723	A0G220446	DK
21:42	UX123044.D	L4JD31A3,5ML/5ML	MSD	N		A0G220446	DK
22:06	UX123045.D	L4JDD1AA,5ML/5ML	SAMPLE	N		A0G220446	DK
22:31	UX123046.D	L4JDK1AJ,5ML/5ML	SAMPLE	N		A0G220446	DK
22:55	UX123047.D	L4JD01AJ,5ML/5ML	SAMPLE	N		A0G220446	DK
23:19	UX123048.D	L4JD11AA,5ML/5ML	SAMPLE	N		A0G220446	DK
23:44	UX123049.D	HB TEST	SAMPLE			SDGa01252	DK
00:08	UX123050.D	MLP LCS,,2,20UL/5ML,,5,5000	METHSPIKE		RR SS ADDED		
00:33	UX123051.D	MLP LCSD,,2,20UL/5ML,,5,5000	METHSPIKE				
00:57	UX123052.D	MLP VBLK,,2,20UL/5ML,,5,5000	BLANK				
01:22	UX123053.D	L4LPD1AA,,2,5UL/5ML,10,1.05,5000	SAMPLE	N		A0G230525	

Analyst: 1903

1001644

Level 2 Review: TS Date: 8/13/10

Page No. #1

Lot: A0G220446

A0G220446

Sample	Work Order	SAC	Client Sample ID	pH	Free Chlorine
1	L4JDD-1AA	XX I 25 QK 01	FIELD BLANK 2	<2	ND
2	L4JDK-1AJ	XX I 25 QK 01	OW13R	<2	ND
3	L4JD0-1AJ	XX I 25 QK 01	DUP1	<2	ND
4	L4JD1-1AA	XX I 25 QK 01	PUMP RINSE	<2	ND
5	L4JD3-1A1	XX I 25 QK 01	OW5	<2	ND
6	L4JEC-1AJ	XX I 25 QK 01	OW6	<2	ND
7	L4JED-1AJ	XX I 25 QK 01	OW2	<2	ND
8	L4JEG-1AJ	XX I 25 QK 01	MW1	<2	ND
9	L4JEJ-1AA	XX I 25 QK 01	TRIP BLANK	<2	ND

Lot/SDG Number: **A0G220446**

Sample Control Chain of Custody - TAL North Canton
GC/MS Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0G220446	1	L4JDD1AA	Volatile Organics, GC/MS (8260B)	08/02/10	Tim Lavey
A0G220446	2	L4JDK1AJ	Volatile Organics, GC/MS (8260B)	08/02/10	Tim Lavey
A0G220446	3	L4JD01AJ	Volatile Organics, GC/MS (8260B)	08/02/10	Tim Lavey
A0G220446	4	L4JD11AA	Volatile Organics, GC/MS (8260B)	08/02/10	Tim Lavey
A0G220446	5	L4JD31A1	Volatile Organics, GC/MS (8260B)	08/02/10	Tim Lavey
A0G220446	6	L4JEC1AJ	Volatile Organics, GC/MS (8260B)	08/01/10	Tim Lavey
A0G220446	7	L4JED1AJ	Volatile Organics, GC/MS (8260B)	08/01/10	Tim Lavey
A0G220446	8	L4JEG1AJ	Volatile Organics, GC/MS (8260B)	08/01/10	Tim Lavey
A0G220446	9	L4JEJ1AA	Volatile Organics, GC/MS (8260B)	08/01/10	Tim Lavey

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

DISSOLVED GASES/RSK DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

RSK SOP-175 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G300000 WO #: L4WE31AC
BATCH: 0211043

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Methane	110	110	101	75- 127	
Ethane	200	210	104	74- 138	
Ethene	190	200	106	73- 140	
Acetylene	180	160	93	70- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: OW5

Lot #: A0G220446 WO #: L4JD31AX
BATCH: 0211043

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Methane	110	0.82	100	91	75- 127	
Ethane	200	ND	190	92	74- 138	
Ethene	190	ND	180	94	73- 140	
Acetylene	180	ND	150	87	70- 130	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: OW5

Lot #: A0G220446 WO #: L4JD31A0
BATCH: 0211043

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Methane	110	100	91	0.19	30	75- 127	
Ethane	200	190	92	0.37	30	74- 138	
Ethene	190	180	94	0.16	30	73- 140	
Acetylene	180	160	88	1.1	30	70- 130	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L4WE31AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN SDG Number:

Lab File ID: ZF072829. Lot Number: A0G220446

Date Analyzed: 07/29/10 Time Analyzed: 13:20

Matrix: WATER Date Extracted:07/29/10

GC Column: HAYSEP D ID: .32 Extraction Method: RSKSOP-175

Instrument ID: Z Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	OW13R	L4JDK1AH	ZF072834.	07/29/10	16:12
02	DUP1	L4JD01AH	ZF072835.	07/29/10	16:37
03	OW5	L4JD31AW	ZF072836.	07/29/10	17:02
04	OW5	L4JD31AX S	ZF072837.	07/29/10	17:27
05	OW5	L4JD31A0 D	ZF072838.	07/29/10	17:53
06	OW6	L4JEC1AH	ZF072839.	07/29/10	18:18
07	OW2	L4JED1AH	ZF072840.	07/29/10	18:43
08	MW1	L4JEG1AH	ZF072841.	07/29/10	19:09
09	CHECK SAMPLE	L4WE31AC C	ZF072828.	07/29/10	12:55
10					
11					
12					
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30					

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Cardinal Resources

Client Sample ID: OW13R

GC Volatiles

Lot-Sample #...: A0G220446-002 **Work Order #...:** L4JDK1AH **Matrix.....:** WG
Date Sampled...: 07/21/10 09:10 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	**0.46 J**	**0.50**	**ug/L**
Ethene	ND	0.50	ug/L
Methane	**670**	**0.50**	**ug/L**

NOTE(S):

J Estimated result. Result is less than RL.

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072834.D
Lab Smp Id: L4JDK1AH Client Smp ID: OW13R
Inj Date : 29-JUL-2010 16:12
Operator : 042476 Inst ID: zpid.i
Smp Info : L4JDK1AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.615	4.635	-0.020	3924579	673.941	673.9
2 Ethene	7.225	7.203	0.022	2965	0.20801	0.2080(a)
3 Ethane	8.795	8.767	0.028	7181	0.45732	0.4573
4 Acetylene	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072834.D

Page 1

Date : 29-JUL-2010 16:12

Client ID: OW13R

Instrument: zpid.i

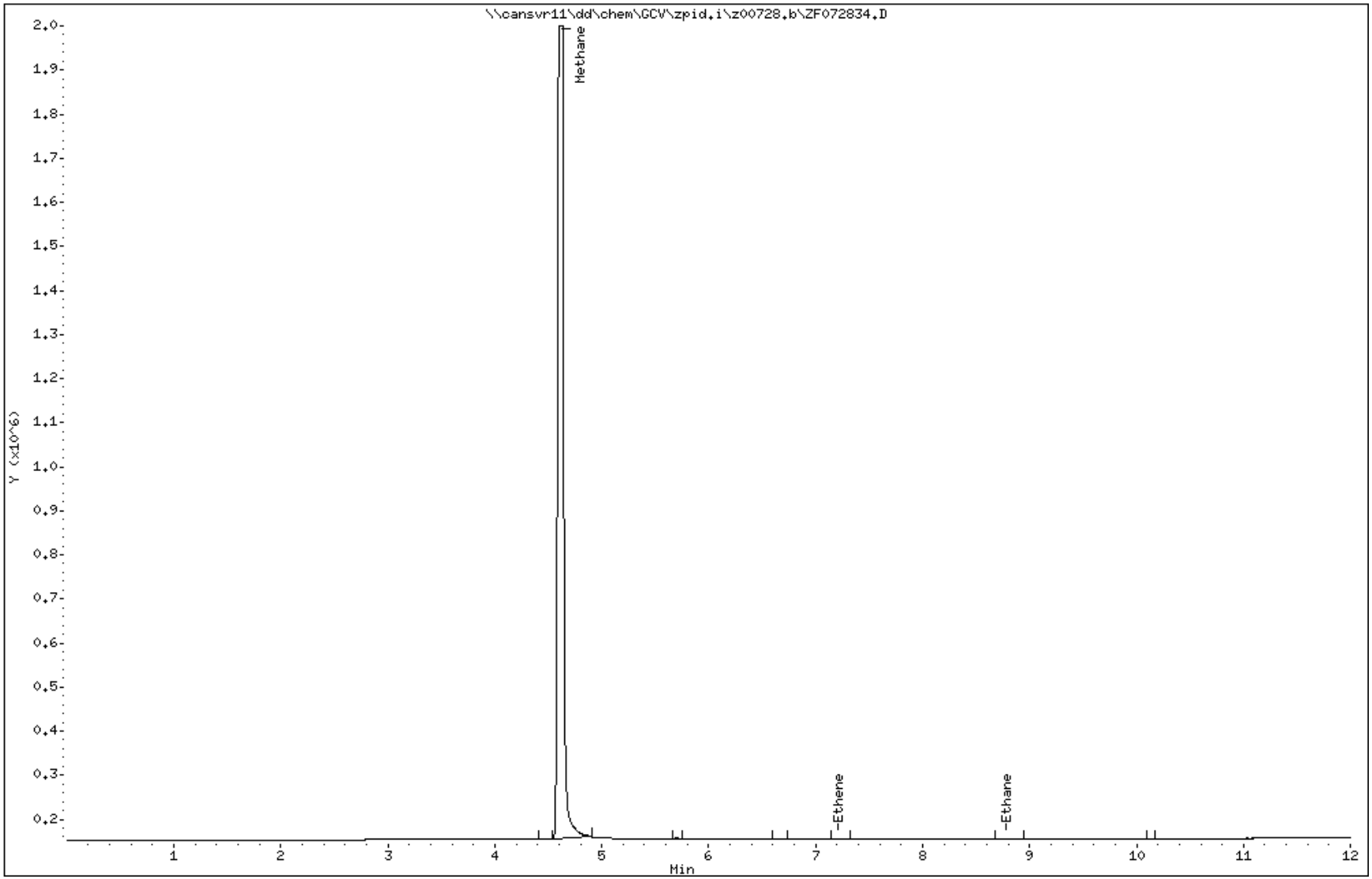
Sample Info: L4JDK1AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 16:12
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072834.D
Lab Sample ID: L4JDK1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.616	10446858	673.941	673.941 ug/L
2) Ethene	7.226	2965	0.208	0.208 ug/L
4) Acetylene	NOT DETECTED	Expected RT = 7.885		
3) Ethane	8.796	7181	0.457	0.457 ug/L

Cardinal Resources

Client Sample ID: DUP1

GC Volatiles

Lot-Sample #...: A0G220446-003 **Work Order #...:** L4JD01AH **Matrix.....:** WG
Date Sampled...: 07/21/10 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	**0.54**	**0.50**	**ug/L**
Ethene	ND	0.50	ug/L
Methane	**720**	**0.50**	**ug/L**

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072835.D
Lab Smp Id: L4JD01AH Client Smp ID: DUP1
Inj Date : 29-JUL-2010 16:37
Operator : 042476 Inst ID: zpid.i
Smp Info : L4JD01AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	4.613	4.635	-0.022	4191627	719.799	719.8
2 Ethene	7.237	7.203	0.034	3309	0.23215	0.2321(a)
3 Ethane	8.797	8.767	0.030	8441	0.53756	0.5376
4 Acetylene	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072835.D

Date : 29-JUL-2010 16:37

Client ID: DUP1

Instrument: zpid.i

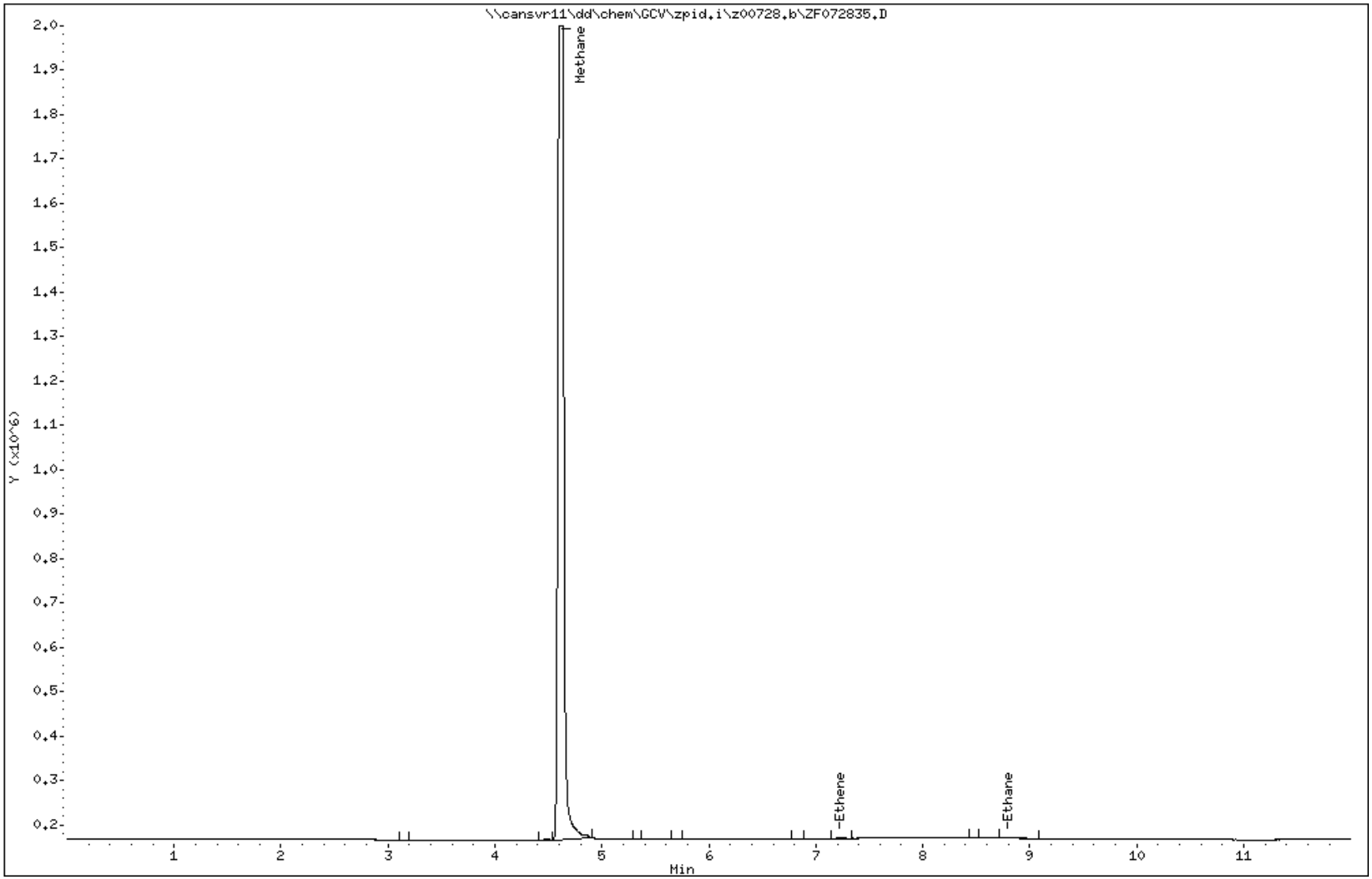
Sample Info: L4JD01AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 16:37
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072835.D
Lab Sample ID: L4JD01AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.614	11184056	719.799	719.799 ug/L
2) Ethene	7.237	3309	0.232	0.232 ug/L
4) Acetylene	NOT DETECTED Expected RT = 7.885			
3) Ethane	8.797	8441	0.538	0.538 ug/L

Cardinal Resources

Client Sample ID: OW5

GC Volatiles

Lot-Sample #...: A0G220446-005 **Work Order #...:** L4JD31AW **Matrix.....:** WG
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**0.82**	**0.50**	**ug/L**

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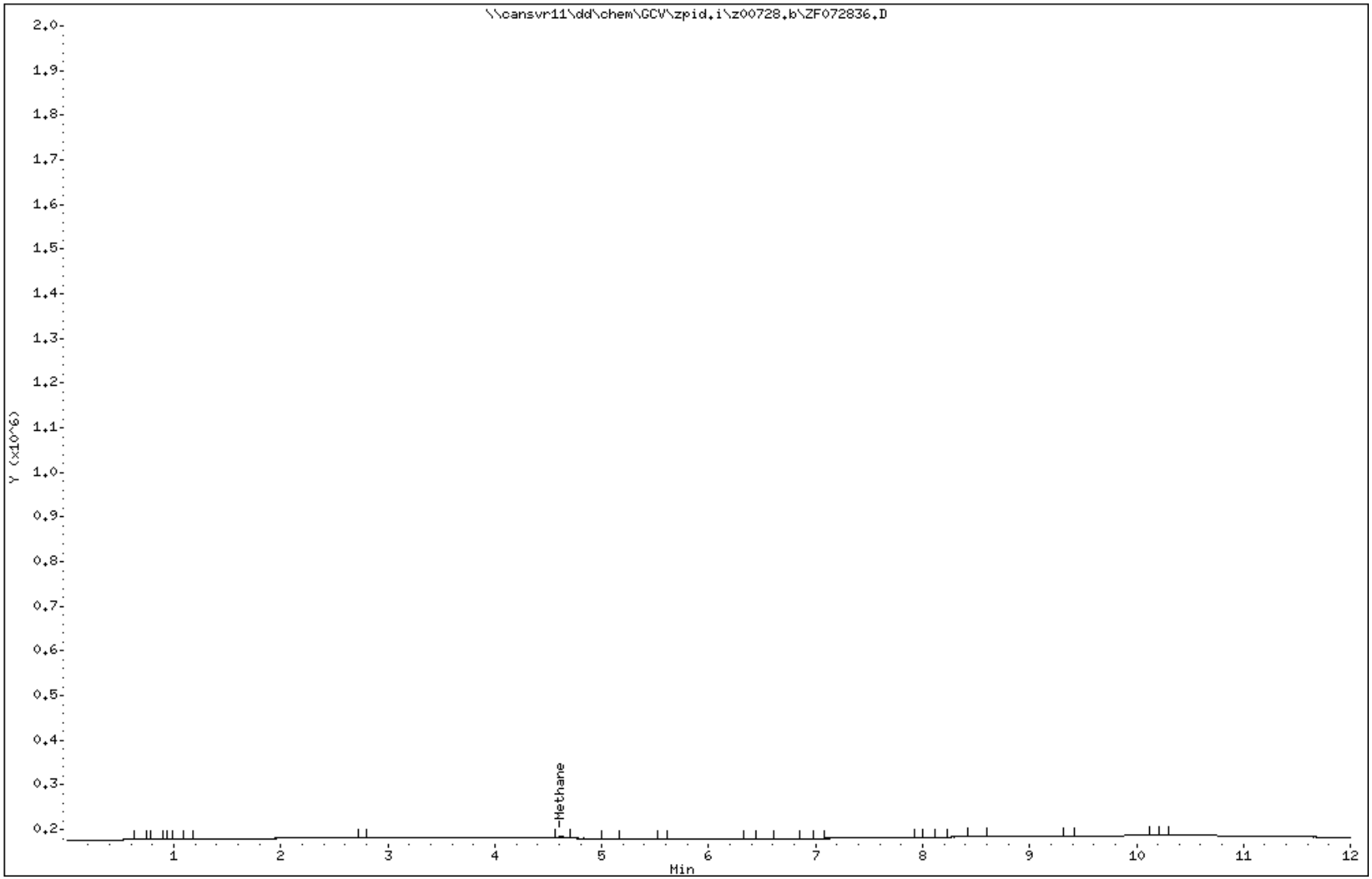
Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072836.D
Lab Smp Id: L4JD31AW Client Smp ID: OW5
Inj Date : 29-JUL-2010 17:02
Operator : 042476 Inst ID: zpid.i
Smp Info : L4JD31AW
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.615	4.635	-0.020	4785	0.82169	0.8217
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072836.D Page 1
Date : 29-JUL-2010 17:02
Client ID: OW5 Instrument: zpid.i
Sample Info: L4JD31AW
Volume Injected (uL): 1.0 Operator: 042476
Column phase: Rt-Alumina Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 17:02
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072836.D
Lab Sample ID: L4JD31AW
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.616	12936	0.822	0.822 ug/L
2) Ethene	NOT DETECTED	Expected RT = 7.204		
4) Acetylene	NOT DETECTED	Expected RT = 7.885		
3) Ethane	NOT DETECTED	Expected RT = 8.768		

Cardinal Resources

Client Sample ID: OW6

GC Volatiles

Lot-Sample #...: A0G220446-006 **Work Order #...:** L4JEC1AH **Matrix.....:** WG
Date Sampled...: 07/21/10 11:55 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	ND	0.50	ug/L

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Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072839.D
Lab Smp Id: L4JEC1AH Client Smp ID: OW6
Inj Date : 29-JUL-2010 18:18
Operator : 042476 Inst ID: zpid.i
Smp Info : L4JEC1AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	Compound Not Detected.					
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072839.D

Date : 29-JUL-2010 18:18

Client ID: OW6

Instrument: zpid.i

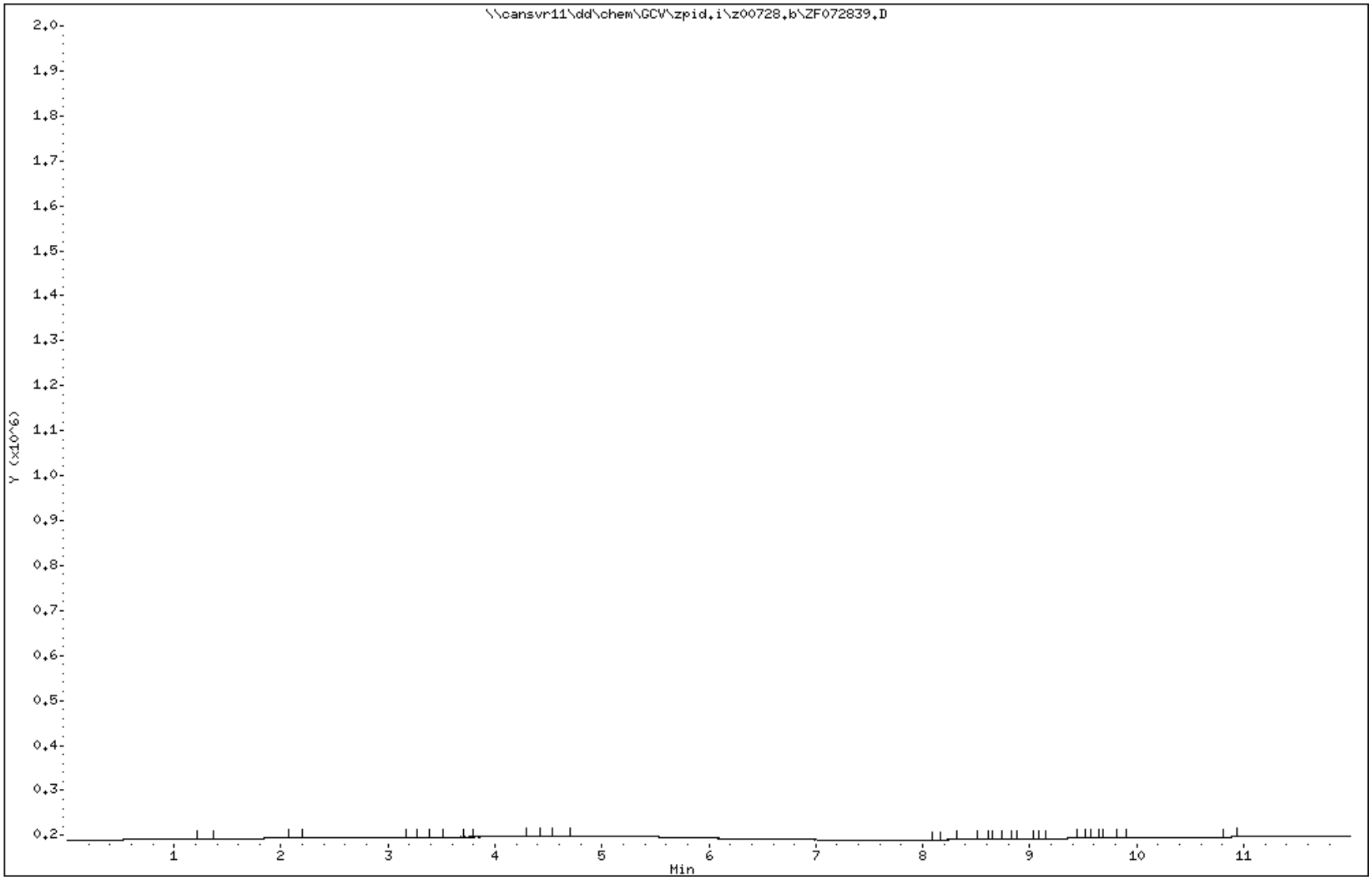
Sample Info: L4JEC1AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 18:18
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072839.D
Lab Sample ID: L4JEC1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	NOT DETECTED	Expected RT =	4.635	
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.768	

Cardinal Resources

Client Sample ID: OW2

GC Volatiles

Lot-Sample #...: A0G220446-007 **Work Order #...:** L4JED1AH **Matrix.....:** WG
Date Sampled...: 07/21/10 13:00 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**0.14 J**	**0.50**	**ug/L**

NOTE(S):

J Estimated result. Result is less than RL.

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Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072840.D
Lab Smp Id: L4JED1AH Client Smp ID: OW2
Inj Date : 29-JUL-2010 18:43
Operator : 042476 Inst ID: zpid.i
Smp Info : L4JED1AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	4.612	4.635	-0.023	813	0.13961	0.1396(a)
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072840.D

Date : 29-JUL-2010 18:43

Client ID: OW2

Instrument: zpid.i

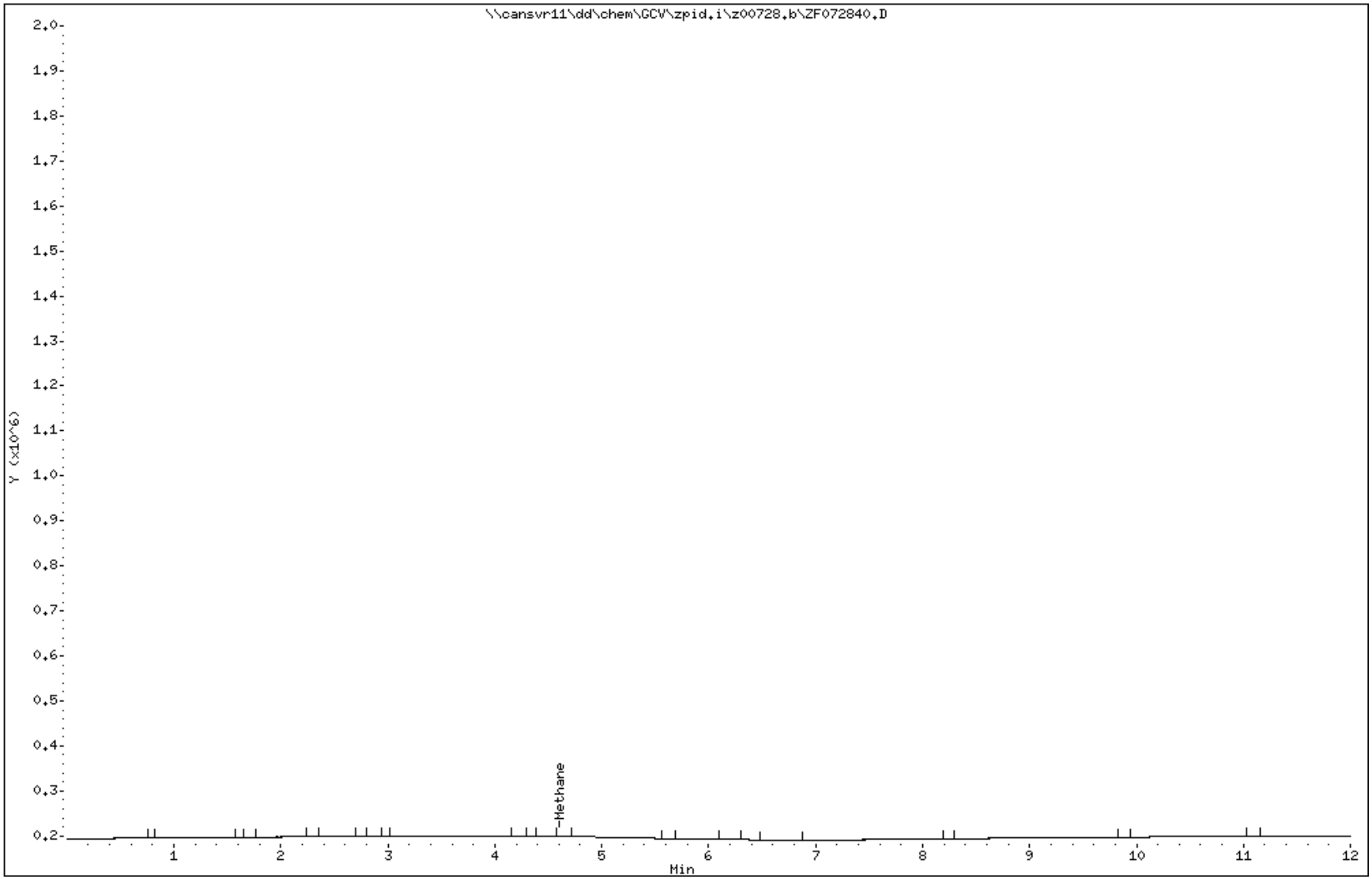
Sample Info: L4JED1AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 18:43
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072840.D
Lab Sample ID: L4JED1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.613	2455	0.140	0.140 ug/L
2) Ethene	NOT DETECTED	Expected RT = 7.204		
4) Acetylene	NOT DETECTED	Expected RT = 7.885		
3) Ethane	NOT DETECTED	Expected RT = 8.768		

Cardinal Resources

Client Sample ID: MW1

GC Volatiles

Lot-Sample #...: A0G220446-008 **Work Order #...:** L4JEG1AH **Matrix.....:** WG
Date Sampled...: 07/21/10 14:10 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**0.18 J**	**0.50**	**ug/L**

NOTE(S):

J Estimated result. Result is less than RL.

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Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072841.D
Lab Smp Id: L4JEG1AH Client Smp ID: MW1
Inj Date : 29-JUL-2010 19:09
Operator : 042476 Inst ID: zpid.i
Smp Info : L4JEG1AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.619	4.635	-0.016	1043	0.17911	0.1791(a)
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072841.D

Date : 29-JUL-2010 19:09

Client ID: MW1

Instrument: zpid.i

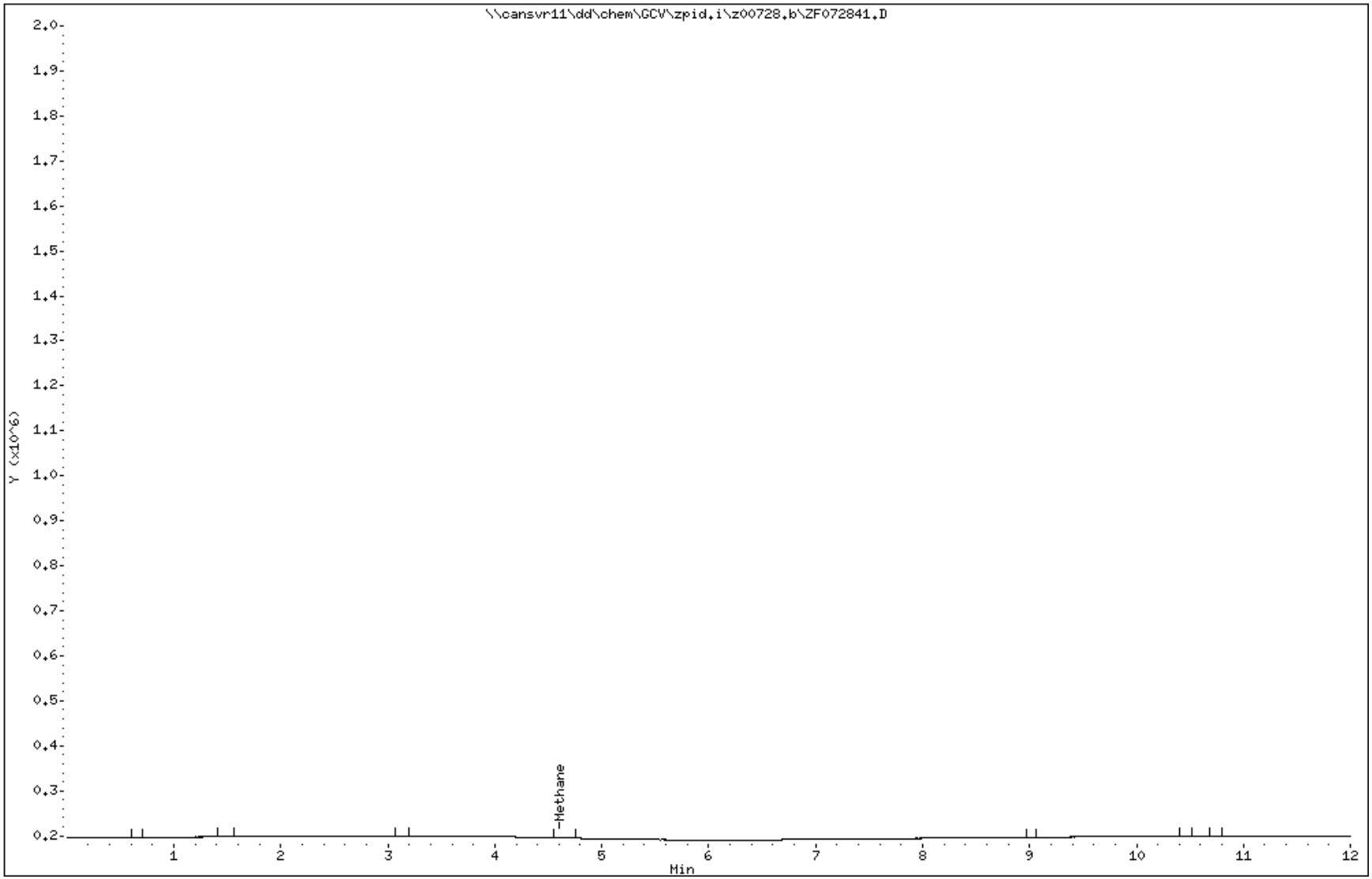
Sample Info: L4JEG1AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 19:09
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072841.D
Lab Sample ID: L4JEG1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.619	3542	0.179	0.179 ug/L
2) Ethene	NOT DETECTED	Expected RT = 7.204		
4) Acetylene	NOT DETECTED	Expected RT = 7.885		
3) Ethane	NOT DETECTED	Expected RT = 8.768		

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THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 22-Jun-2010 11:14

Calibration History

Method : \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Start Cal Date: 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Last Cal Level: 9
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.24000		
10-JUN-2010 23:44	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Cal Level: 2 , Cal Amount: 0.91000		
11-JUN-2010 00:09	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Cal Level: 3 , Cal Amount: 3.64000		
11-JUN-2010 00:34	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Cal Level: 4 , Cal Amount: 10.93000		
11-JUN-2010 01:00	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Cal Level: 5 , Cal Amount: 36.44000		
11-JUN-2010 01:25	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Cal Level: 6 , Cal Amount: 109.31000		
11-JUN-2010 01:50	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Cal Level: 7 , Cal Amount: 372.92000		
11-JUN-2010 02:16	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Cal Level: 8 , Cal Amount: 728.71000		

11-JUN-2010 02:41	rsk	
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Cal Level: 9 , Cal Amount: 1457.42000

11-JUN-2010 03:06	rsk	
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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

11-JUN-2010 01:50	rsk	
\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D		

TestAmerica - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Last Edit : 11-Jun-2010 06:52 heakind
Curve Type : Average

Calibration File Names:
Level 1: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Level 2: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Level 3: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Level 4: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Level 5: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Level 6: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Level 7: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Level 8: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D
Level 9: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Compound	0.24000 Level 1	0.91000 Level 2	3.640 Level 3	10.930 Level 4	36.440 Level 5	109.310 Level 6	___ RRF	% RSD
	372.920 Level 7	728.710 Level 8	1457.420 Level 9					
1 Methane	5350	5395	5965	5964	5659	5669		
	6027	6087	6294				5823	5.537
2 Ethene	13680	13404	14902	14689	14090	14015		
	14581	14309	14613				14254	3.493
3 Ethane	13618	14214	16492	16342	15569	15582		
	16474	16179	16850				15702	7.036
4 Acetylene	5624	6083	5837	5855	5438	5687		
	5904	5873	5670				5775	3.277

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Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Lab Smp Id: 3770
Inj Date : 10-JUN-2010 23:44
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,1
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 10-JUN-2010 23:44 Cal File: ZF061002.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.631	4.631	0.000	1284	0.24000	0.2400(a)
2 Ethene	7.255	7.255	0.000	5609	0.41000	0.4100(a)
3 Ethane	8.841	8.841	0.000	5992	0.44000	0.4400
4 Acetylene	7.965	7.965	0.000	2137	0.38000	0.3800(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D

Date : 10-JUN-2010 23:44

Client ID:

Instrument: zpid.i

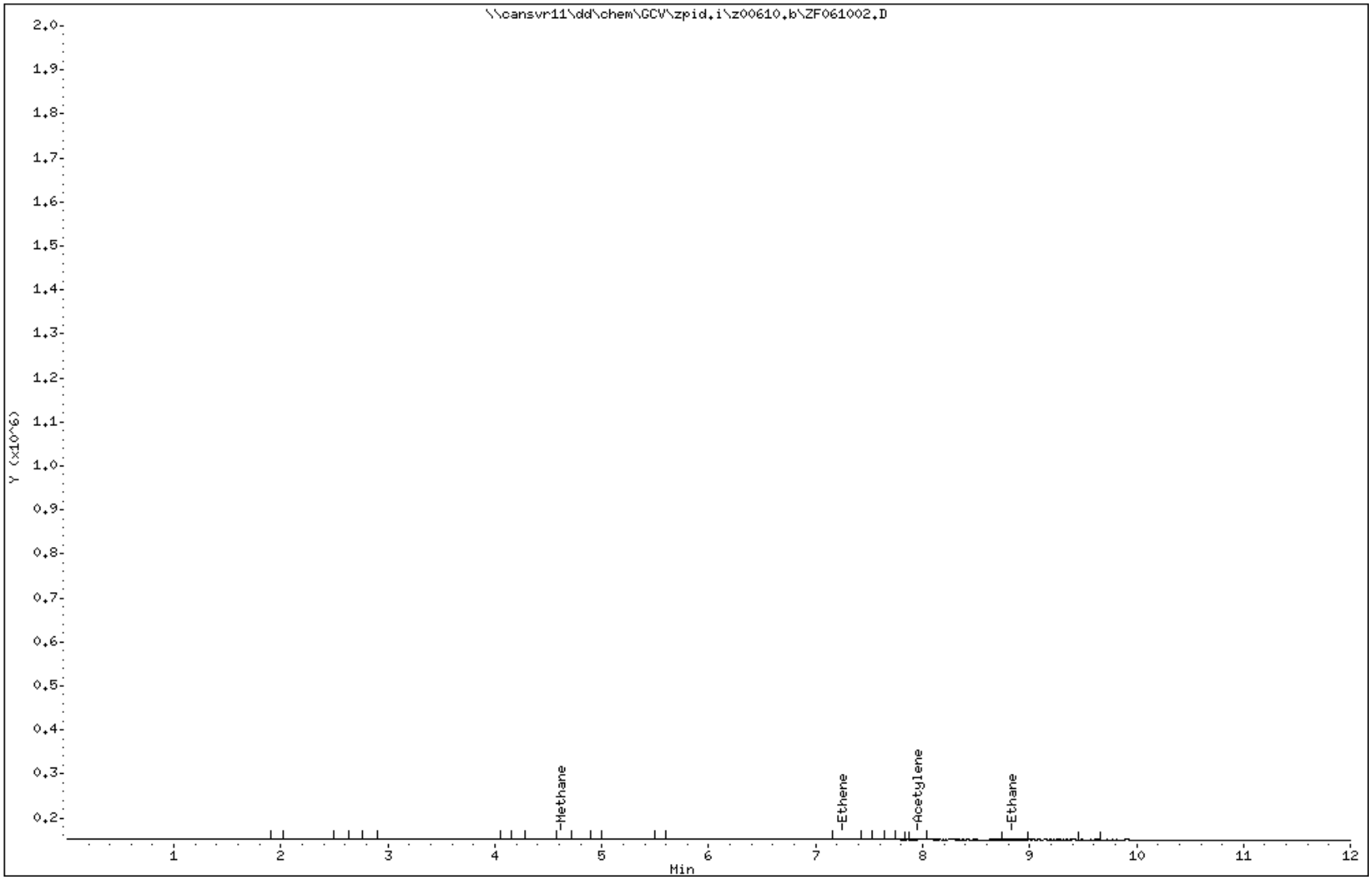
Sample Info: 3770,,1,1

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 10-JUN-2010 23:44
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061002.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.632	4031	0.240	0.240 ug/L
2) Ethene	7.255	5609	0.410	0.410 ug/L
4) Acetylene	7.965	2137	0.380	0.380 ug/L
3) Ethane	8.842	5992	0.440	0.440 ug/L

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Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 00:09
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,2
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 00:09 Cal File: ZF061003.D
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.636	4.634	0.002	4909	0.91000	0.9176
2 Ethene	7.273	7.264	0.009	21313	1.59000	1.558
3 Ethane	8.856	8.849	0.007	24306	1.71000	1.785
4 Acetylene	7.963	7.964	-0.001	9003	1.48000	1.601

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D

Date : 11-JUN-2010 00:09

Client ID:

Instrument: zpid.i

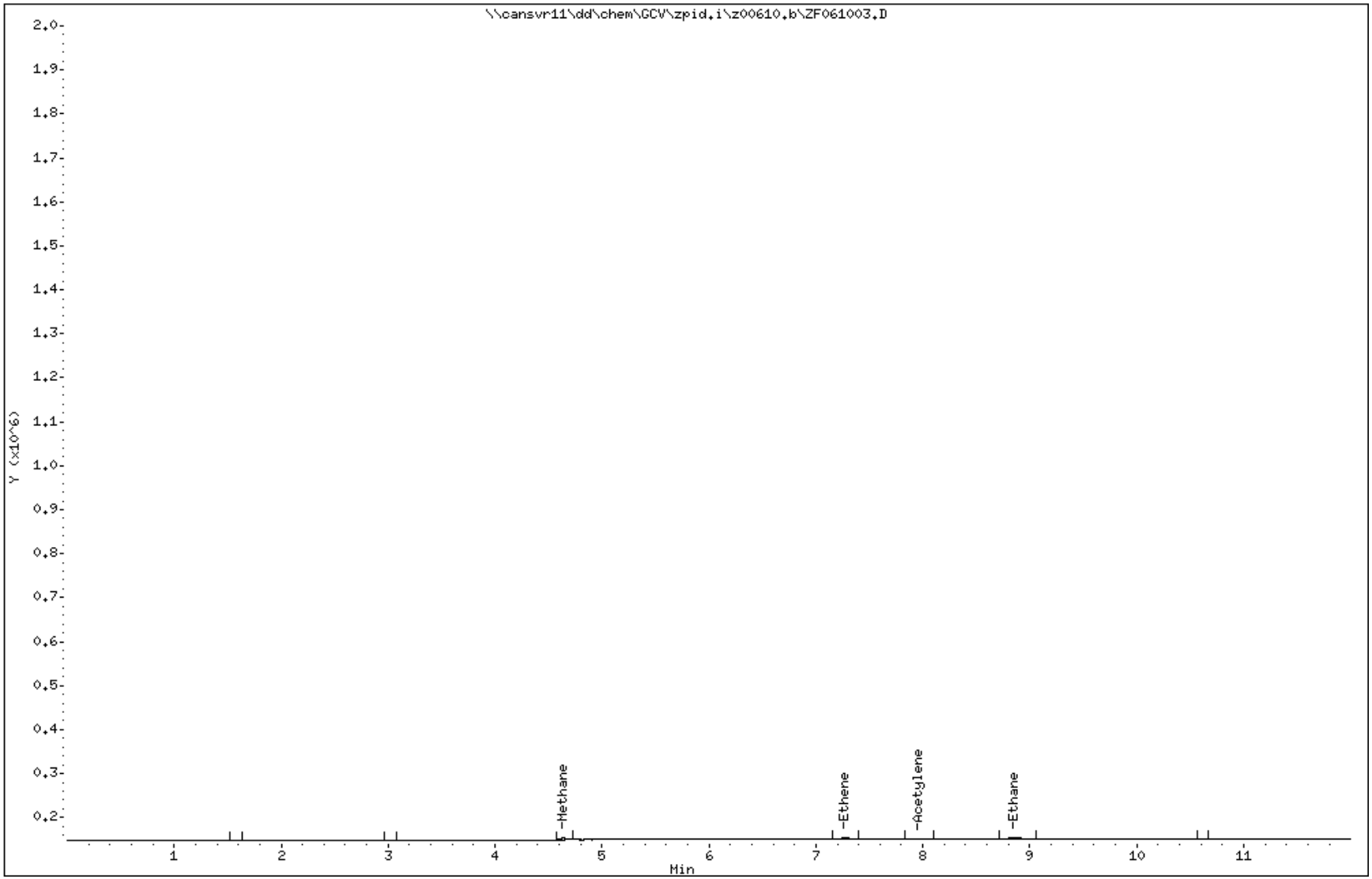
Sample Info: 3770,,1,2

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 00:09
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061003.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.637	13755	0.918	0.918 ug/L
2) Ethene	7.274	21313	1.558	1.558 ug/L
4) Acetylene	7.964	9003	1.601	1.601 ug/L
3) Ethane	8.857	24306	1.785	1.785 ug/L

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Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 00:34
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,3
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 00:34 Cal File: ZF061004.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.640	4.636	0.004	21713	3.64000	3.838
2 Ethene	7.273	7.267	0.006	95074	6.38000	6.653
3 Ethane	8.860	8.853	0.007	112643	6.83000	7.482
4 Acetylene	7.970	7.966	0.004	34555	5.92000	6.030

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D

Date : 11-JUN-2010 00:34

Client ID:

Instrument: zpid.i

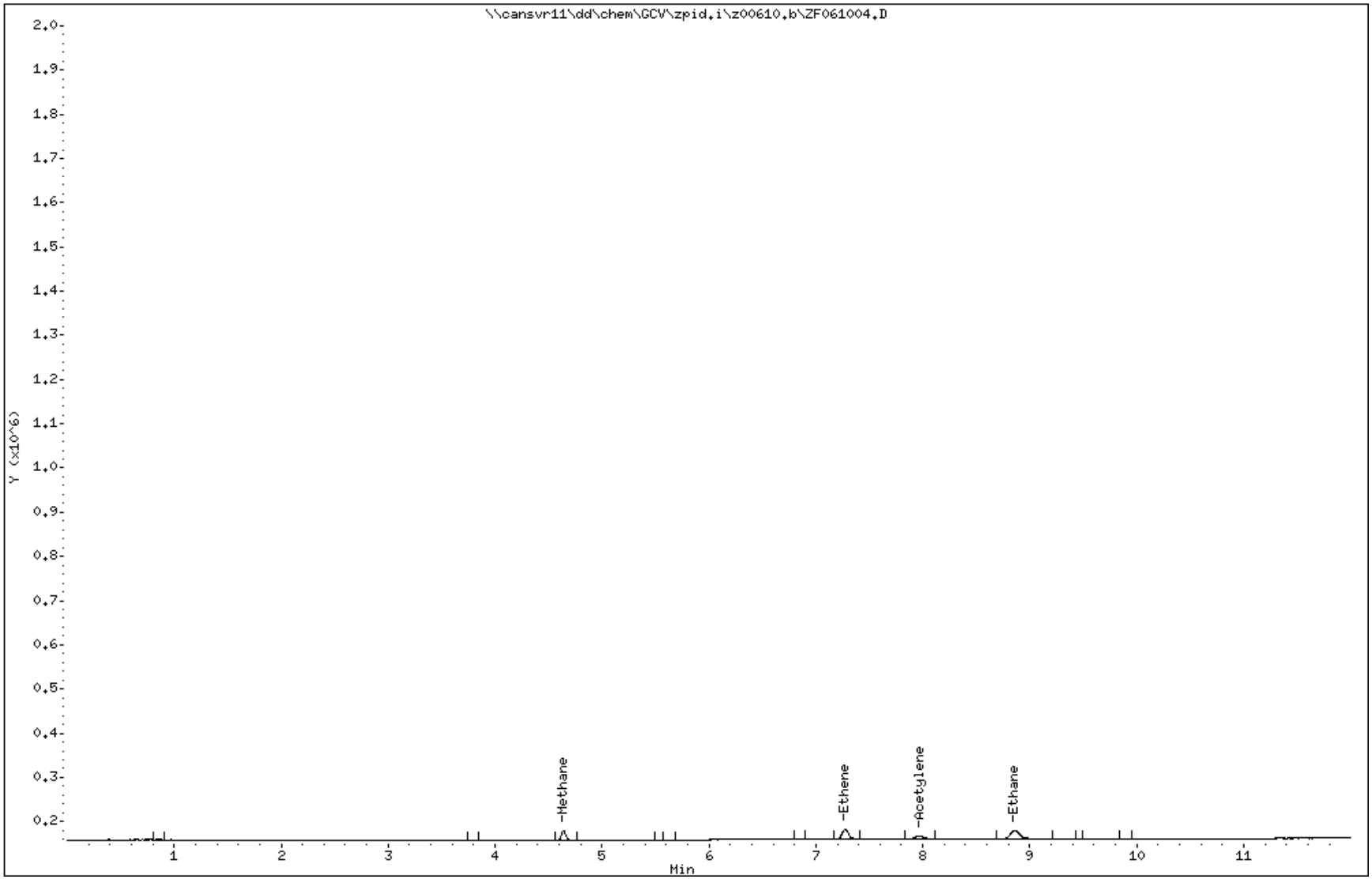
Sample Info: 3770,,1,3

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 00:34
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061004.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	60064	3.838	3.838 ug/L
2) Ethene	7.274	95074	6.653	6.653 ug/L
4) Acetylene	7.970	34555	6.030	6.030 ug/L
3) Ethane	8.860	112643	7.482	7.482 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 01:00
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,4
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:00 Cal File: ZF061005.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.640	4.637	0.003	65189	10.9300	11.32
2 Ethene	7.277	7.269	0.008	281006	19.1300	19.48
3 Ethane	8.860	8.854	0.006	335014	20.5000	21.64
4 Acetylene	7.973	7.968	0.005	103983	17.7600	18.02

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D

Page 1

Date : 11-JUN-2010 01:00

Client ID:

Instrument: zpid.i

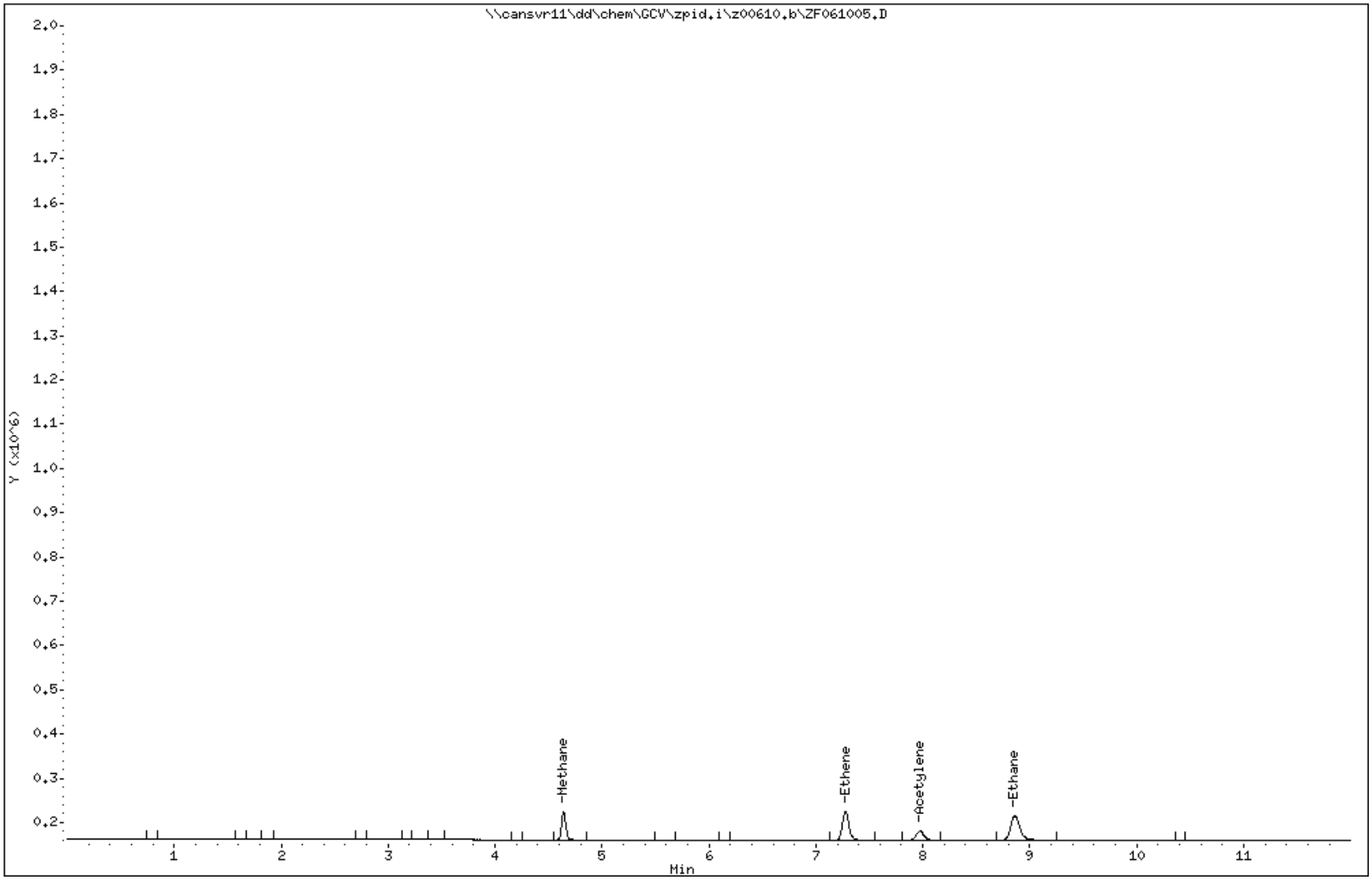
Sample Info: 3770,,1,4

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:00
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061005.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	182732	11.318	11.318 ug/L
2) Ethene	7.277	281006	19.482	19.482 ug/L
4) Acetylene	7.974	103983	18.016	18.016 ug/L
3) Ethane	8.860	335014	21.636	21.636 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 01:25
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,5
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:25 Cal File: ZF061006.D
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.642	4.638	0.004	206211	36.4400	35.96
2 Ethene	7.278	7.271	0.007	898363	63.7600	62.64
3 Ethane	8.858	8.855	0.003	1063672	68.3200	68.60
4 Acetylene	7.972	7.969	0.003	321989	59.2100	56.60

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D

Date : 11-JUN-2010 01:25

Client ID:

Instrument: zpid.i

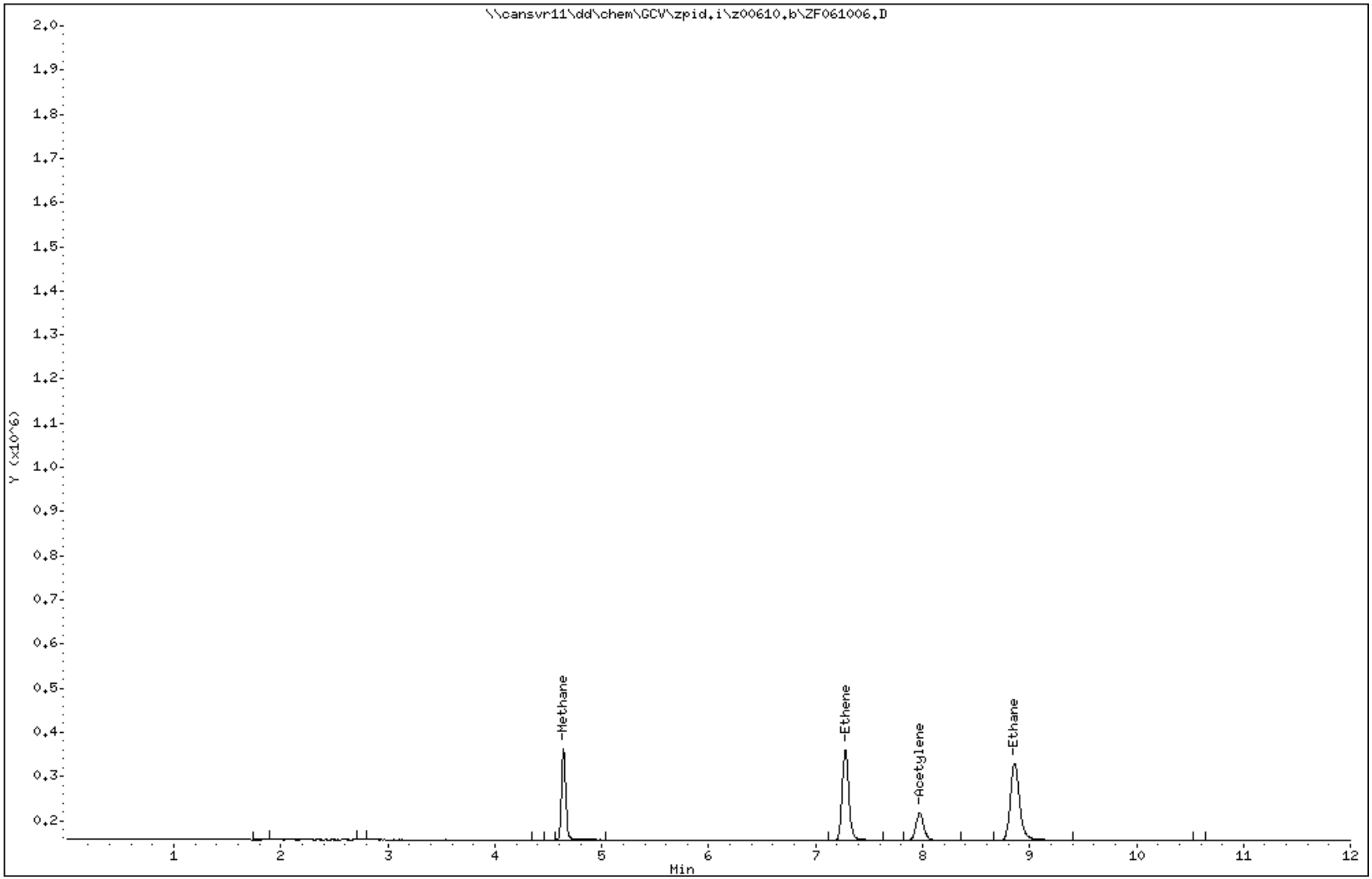
Sample Info: 3771,,1,5

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:25
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061006.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	584368	35.959	35.959 ug/L
2) Ethene	7.279	898363	62.646	62.646 ug/L
4) Acetylene	7.972	321989	56.604	56.604 ug/L
3) Ethane	8.859	1063672	68.600	68.600 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 01:50
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,6
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:50 Cal File: ZF061007.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.642	4.638	0.004	619629	109.310	108.3
2 Ethene	7.275	7.272	0.003	2680994	191.290	187.8
3 Ethane	8.858	8.856	0.002	3193571	204.950	205.8
4 Acetylene	7.972	7.969	0.003	1010122	177.620	177.6

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D

Page 1

Date : 11-JUN-2010 01:50

Client ID:

Instrument: zpid.i

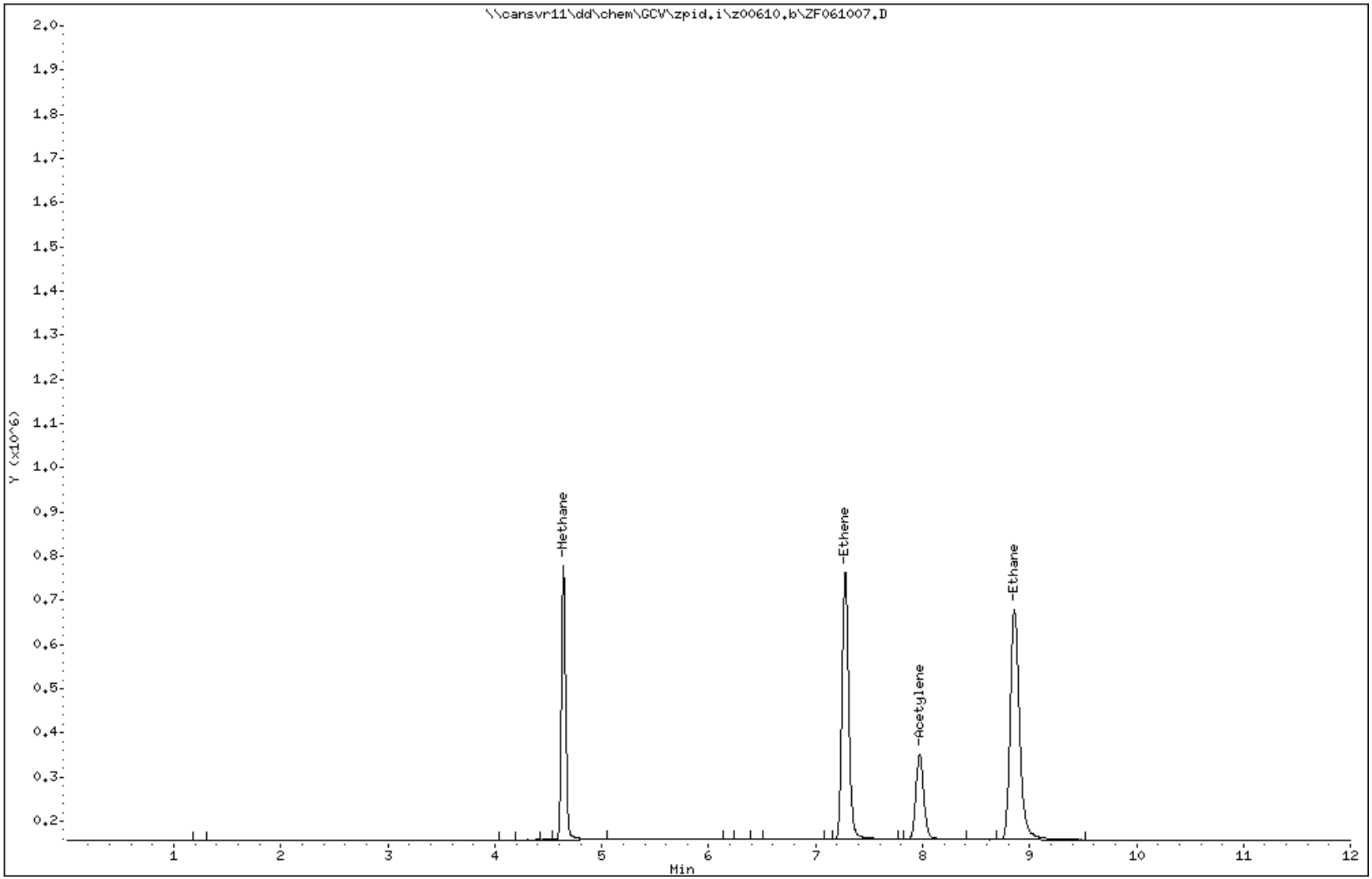
Sample Info: 3771,,1,6

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:50
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061007.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	1746876	108.301	108.301 ug/L
2) Ethene	7.275	2680994	187.806	187.806 ug/L
4) Acetylene	7.972	1010122	177.584	177.584 ug/L
3) Ethane	8.859	3193571	205.761	205.761 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 02:16
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,7
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 02:16 Cal File: ZF061008.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.642	4.639	0.003	1976470	327.920	342.4
2 Ethene	7.272	7.272	0.000	8367339	573.860	584.0
3 Ethane	8.848	8.855	-0.007	10129178	614.850	646.0
4 Acetylene	7.972	7.969	0.003	3146082	532.870	549.6

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D

Date : 11-JUN-2010 02:16

Client ID:

Instrument: zpid.i

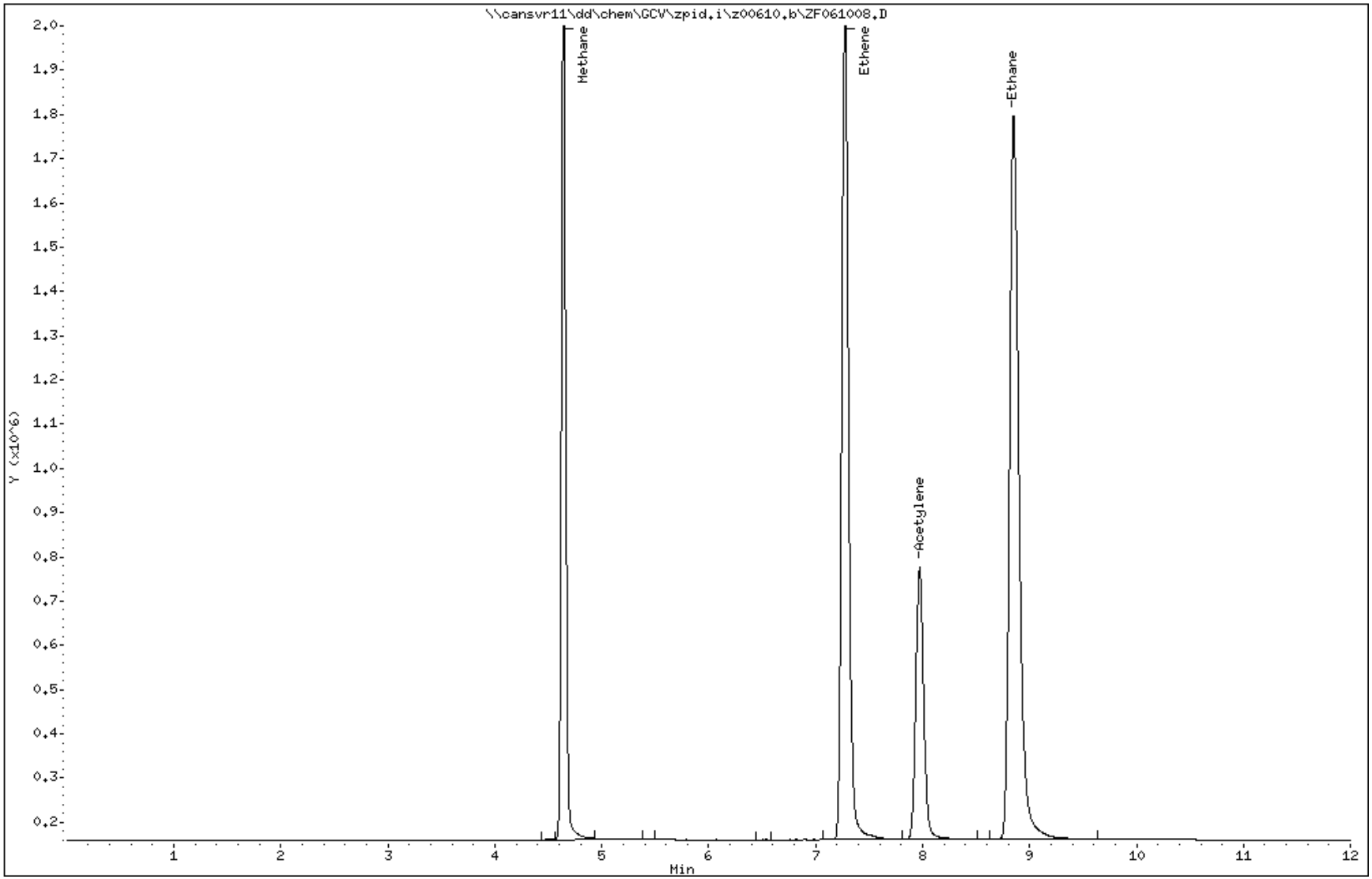
Sample Info: 3771,,1,7

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 02:16
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061008.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	5539138	342.403	342.403 ug/L
2) Ethene	7.272	8367339	584.056	584.056 ug/L
4) Acetylene	7.972	3146082	549.619	549.619 ug/L
3) Ethane	8.849	10129178	646.006	646.006 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 02:41
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,8
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 02:41 Cal File: ZF061009.D
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.640	4.639	0.001	4435737	728.710	762.5
2 Ethene	7.263	7.271	-0.008	18247462	1275.24	1274
3 Ethane	8.833	8.852	-0.019	22105977	1366.33	1403
4 Acetylene	7.967	7.969	-0.002	6954389	1184.16	1210

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D

Page 1

Date : 11-JUN-2010 02:41

Client ID:

Instrument: zpid.i

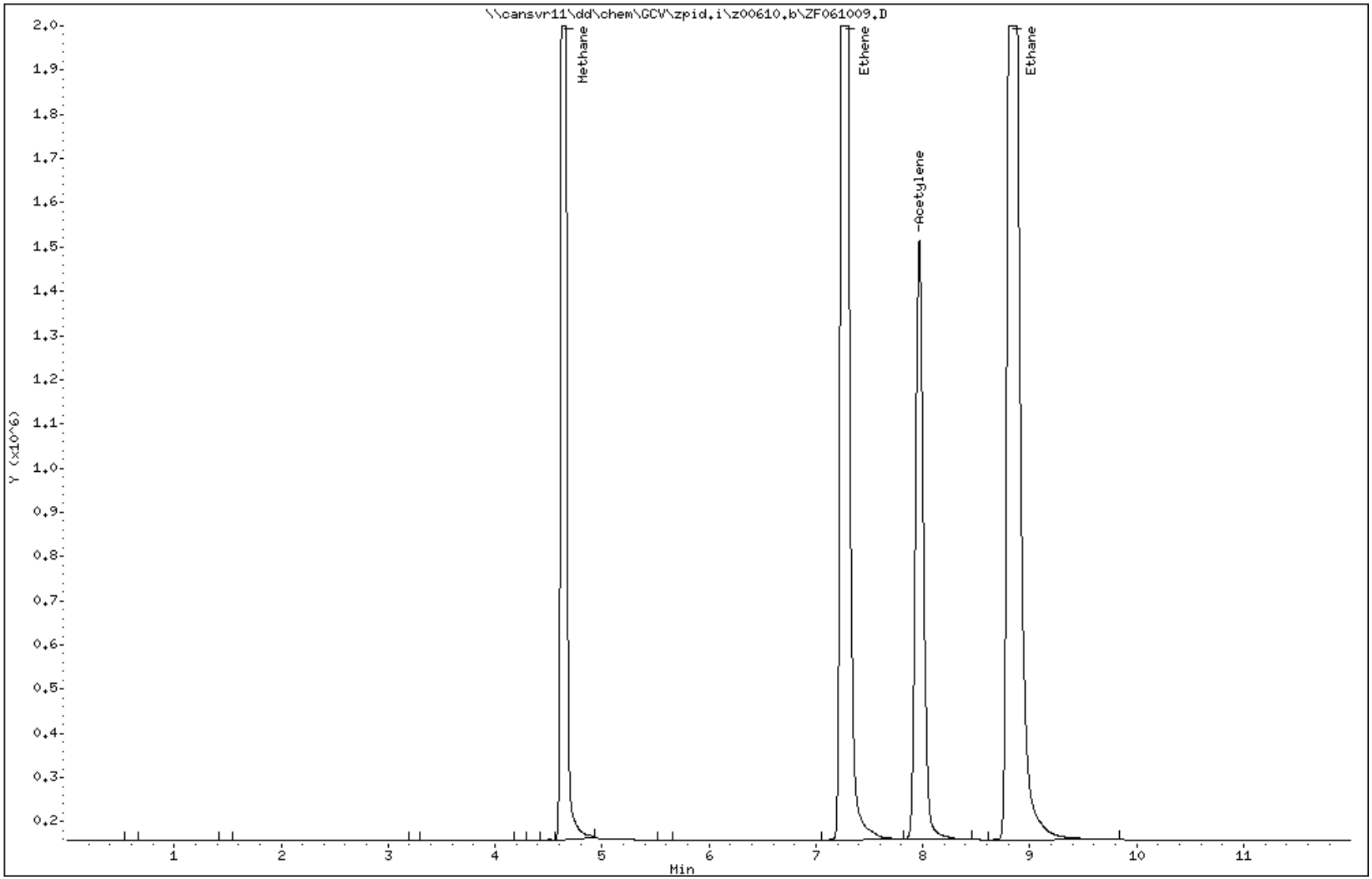
Sample Info: 3771,,1,8

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 02:41
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061009.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	12412329	762.506	762.506 ug/L
2) Ethene	7.264	18247462	1273.926	1273.926 ug/L
4) Acetylene	7.967	6954389	1210.436	1210.436 ug/L
3) Ethane	8.834	22105977	1403.462	1403.462 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 03:06
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,9
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.637	4.639	-0.002	9173393	1457.42	1561(A)
2 Ethene	7.250	7.268	-0.018	37270596	2550.49	2595(A)
3 Ethane	8.807	8.847	-0.040	46046474	2732.67	2898(A)
4 Acetylene	7.960	7.968	-0.008	13428539	2368.31	2341

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Date : 11-JUN-2010 03:06

Client ID:

Instrument: zpid.i

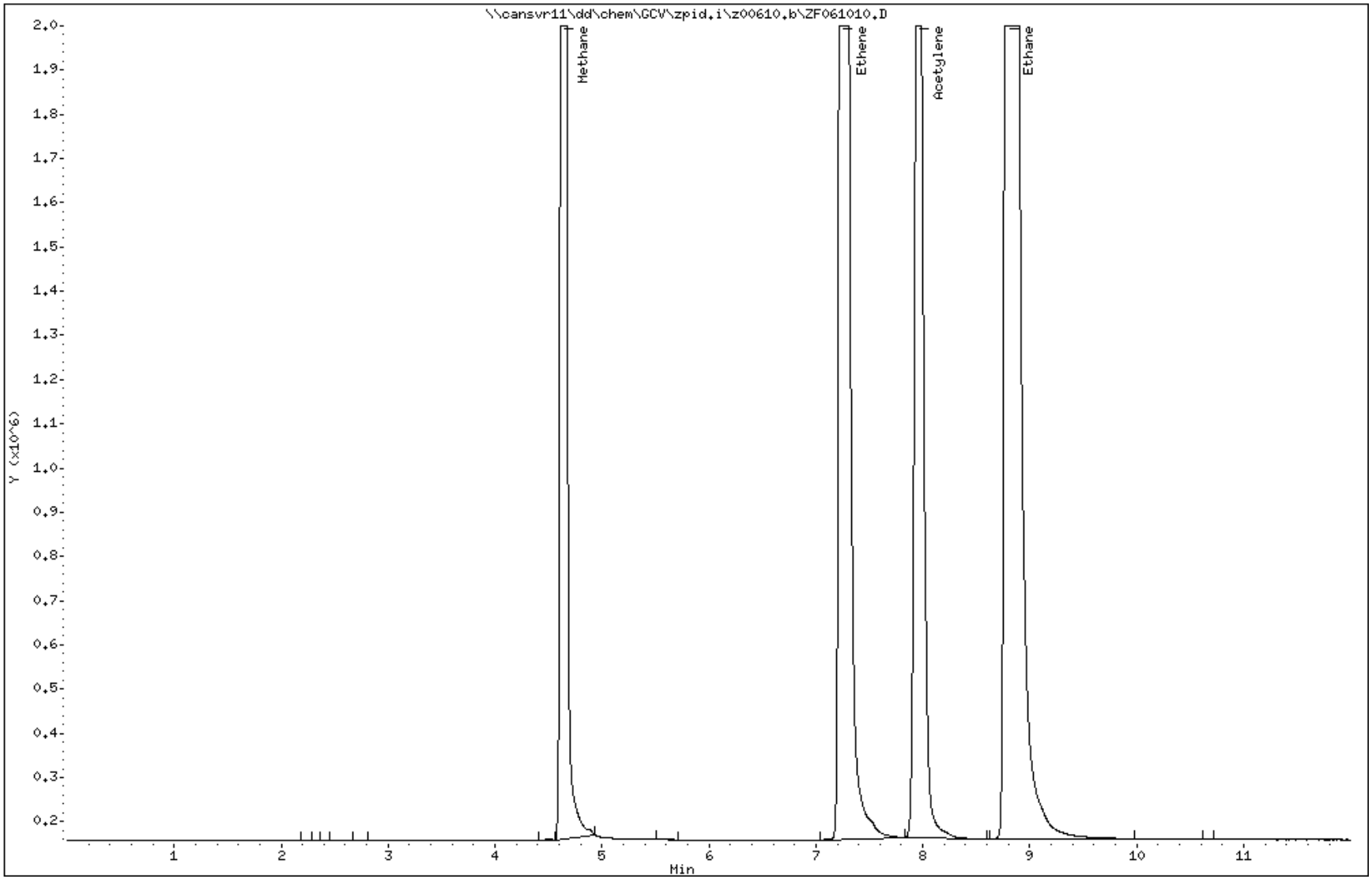
Sample Info: 3771,,1,9

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 03:06
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061010.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.637	25651389	1560.915	1560.915 ug/L
2) Ethene	7.251	37270596	2595.452	2595.452 ug/L
4) Acetylene	7.961	13428539	2341.118	2341.118 ug/L
3) Ethane	8.807	46046474	2898.111	2898.111 ug/L

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00363
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: ICV
Level: LOW Operator: 042476
Data Type: GC DATA SampleType: ICV
SpikeList File: icv.spk Quant Type: ESTD
Sublist File: rsk.sub
Method File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Misc Info: z00610

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Methane	109.3	101.6	93.00	77-142
3 Ethane	205.0	188.5	91.99	70-130
2 Ethene	191.3	174.2	91.06	70-130
4 Acetylene	177.6	150.2	84.59	70-130

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061011.D
Lab Smp Id: ICV
Inj Date : 11-JUN-2010 03:32
Operator : 042476 Inst ID: zpid.i
Smp Info : ICV
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:52 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: ICV
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	4.642	4.639	0.003	591972	101.655	101.6
2 Ethene	7.272	7.269	0.003	2482778	174.184	174.2
3 Ethane	8.852	8.847	0.005	2960408	188.532	188.5
4 Acetylene	7.968	7.969	-0.001	867618	150.249	150.2

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061011.D

Date : 11-JUN-2010 03:32

Client ID:

Instrument: zpid.i

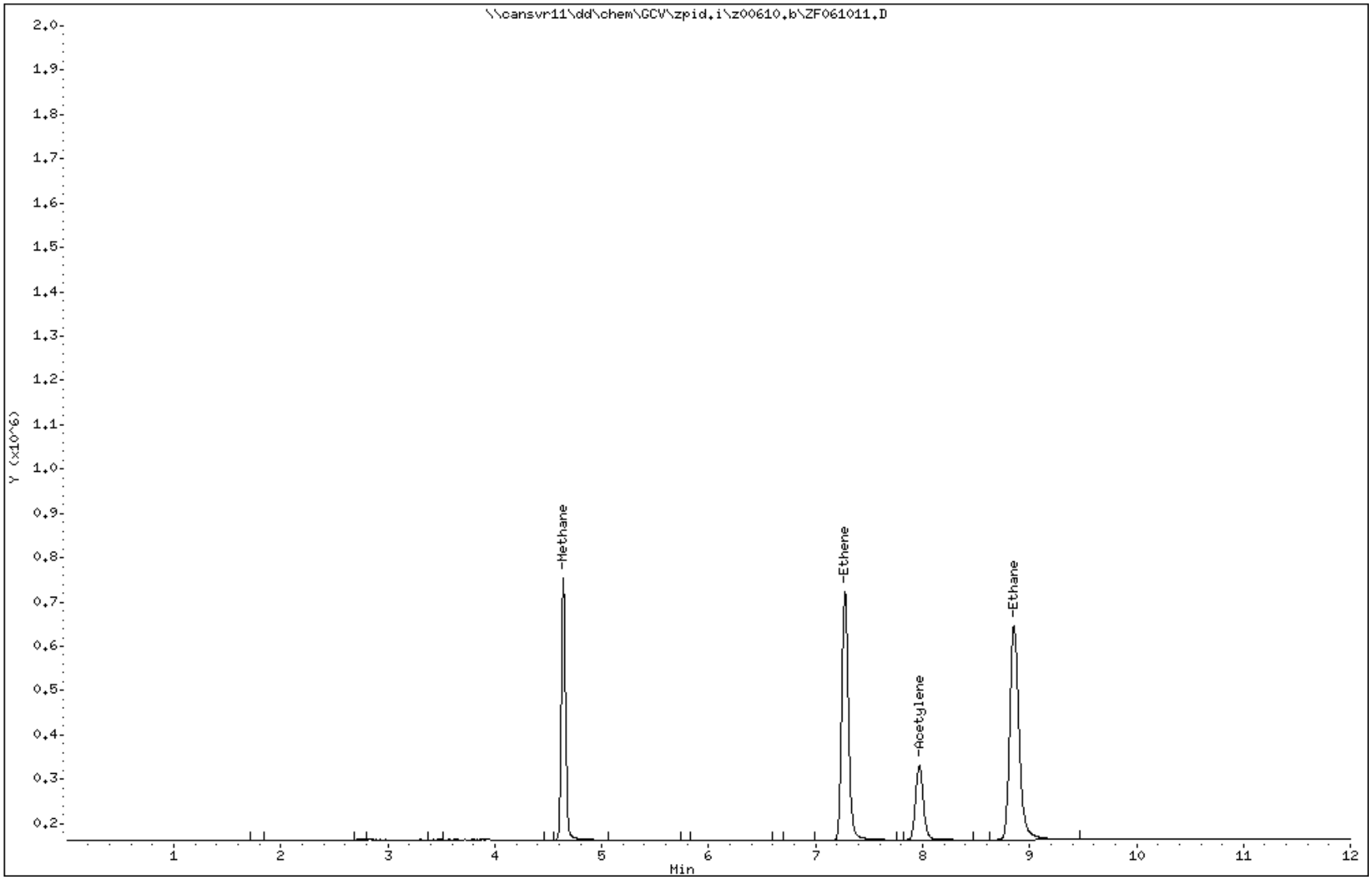
Sample Info: ICV

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 03:32
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061011.D
Lab Sample ID: ICV
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	1672890	101.655	101.655 ug/L
2) Ethene	7.272	2482778	174.184	174.184 ug/L
4) Acetylene	7.969	867618	150.249	150.249 ug/L
3) Ethane	8.852	2960408	188.532	188.532 ug/L

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G220446

GC Column: RT-ALUMINA ID: 0.53 (mm) Init. Calib. Date(s): 06/10/10 06/11/10

Instrument ID: ZPID

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		3771	07/29/10	1229		
02	L4WE3CHK	L4WE31AC	07/29/10	1255		
03	L4WE3BLK	L4WE31AA	07/29/10	1320		
04	OW13R	L4JDK1AH	07/29/10	1612		
05	DUP1	L4JD01AH	07/29/10	1637		
06	OW5	L4JD31AW	07/29/10	1702		
07	OW5 MS	L4JD31AX	07/29/10	1727		
08	OW5 MSD	L4JD31A0	07/29/10	1753		
09	OW6	L4JEC1AH	07/29/10	1818		
10	OW2	L4JED1AH	07/29/10	1843		
11	MW1	L4JEG1AH	07/29/10	1909		
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29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 30-Jul-2010 08:07

Calibration History

Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Start Cal Date: 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Last Cal Level: 9
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.24000		
10-JUN-2010 23:44	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Cal Level: 2 , Cal Amount: 0.91000		
11-JUN-2010 00:09	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Cal Level: 3 , Cal Amount: 3.64000		
11-JUN-2010 00:34	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Cal Level: 4 , Cal Amount: 10.93000		
11-JUN-2010 01:00	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Cal Level: 5 , Cal Amount: 36.44000		
11-JUN-2010 01:25	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Cal Level: 6 , Cal Amount: 109.31000		
11-JUN-2010 01:50	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Cal Level: 7 , Cal Amount: 372.92000		
11-JUN-2010 02:16	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Cal Level: 8 , Cal Amount: 728.71000		

11-JUN-2010 02:41	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D

Cal Level: 9 , Cal Amount: 1457.42000		
11-JUN-2010 03:06	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

29-JUL-2010 12:29	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072827.D
28-JUL-2010 12:56	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072802.D

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: zpid.i Injection Date: 29-JUL-2010 12:29
Lab File ID: ZF072827.D Init. Cal. Date(s): 10-JUN-2010 11-JUN-2010
Analysis Type: WATER Init. Cal. Times: 23:44 03:06
Lab Sample ID: 3771 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m

COMPOUND	RRF / AMOUNT	RF109	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	5823	6058	0.010	-4.02620	30.00000	Averaged
2 Ethene	14254	15491	0.010	-8.67857	30.00000	Averaged
3 Ethane	15702	16575	0.010	-5.55624	30.00000	Averaged
4 Acetylene	5775	6123	0.010	-6.04013	30.00000	Averaged

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072827.D
Lab Smp Id: 3771
Inj Date : 29-JUL-2010 12:29
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,2
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCV06

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.606	4.635	-0.029	662177	109.310	113.7
2 Ethene	7.213	7.203	0.010	2963238	191.290	207.9
3 Ethane	8.783	8.767	0.016	3397018	204.950	216.3
4 Acetylene	7.906	7.885	0.021	1087623	177.620	188.3

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072827.D

Date : 29-JUL-2010 12:29

Client ID:

Instrument: zpid.i

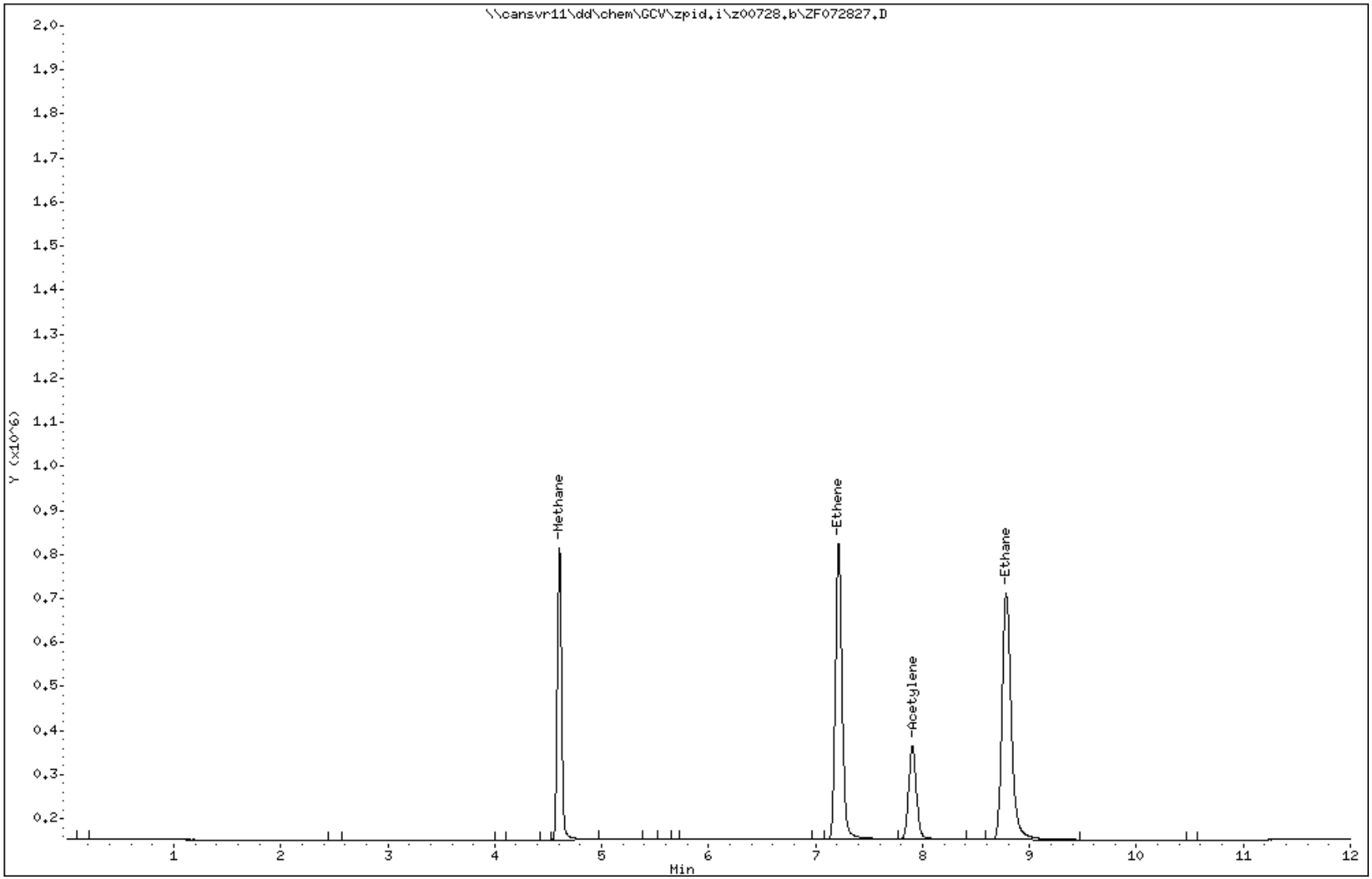
Sample Info: 3771,2

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 12:29
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072827.D
Lab Sample ID: 3771
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Methane	4.606	1857953	113.711	227.422 ug/L
2) Ethene	7.213	2963238	207.891	415.782 ug/L
4) Acetylene	7.906	1087623	188.348	376.697 ug/L
3) Ethane	8.783	3397018	216.338	432.675 ug/L

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RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L4WE31AC **Matrix.....:** WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methane	**101**	**(75 - 127)**	**RSK SOP-175**
Ethane	**104**	**(74 - 138)**	**RSK SOP-175**
Ethene	**106**	**(73 - 140)**	**RSK SOP-175**
Acetylene	**93**	**(70 - 130)**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L4WE31AC **Matrix.....:** WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methane	**110**	**110**	**ug/L**	**101**	**RSK SOP-175**
Ethane	**200**	**210**	**ug/L**	**104**	**RSK SOP-175**
Ethene	**190**	**200**	**ug/L**	**106**	**RSK SOP-175**
Acetylene	**180**	**160**	**ug/L**	**93**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072828.D
Lab Smp Id: l4we31ac
Inj Date : 29-JUL-2010 12:55
Operator : 01616 Inst ID: zpid.i
Smp Info : l4we31ac
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.611	4.635	-0.024	644900	110.744	110.7
2 Ethene	7.224	7.203	0.021	2898927	203.379	203.4
3 Ethane	8.791	8.767	0.024	3352218	213.484	213.5
4 Acetylene	7.914	7.885	0.029	951509	164.777	164.8

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072828.D

Date : 29-JUL-2010 12:55

Client ID:

Instrument: zpid.i

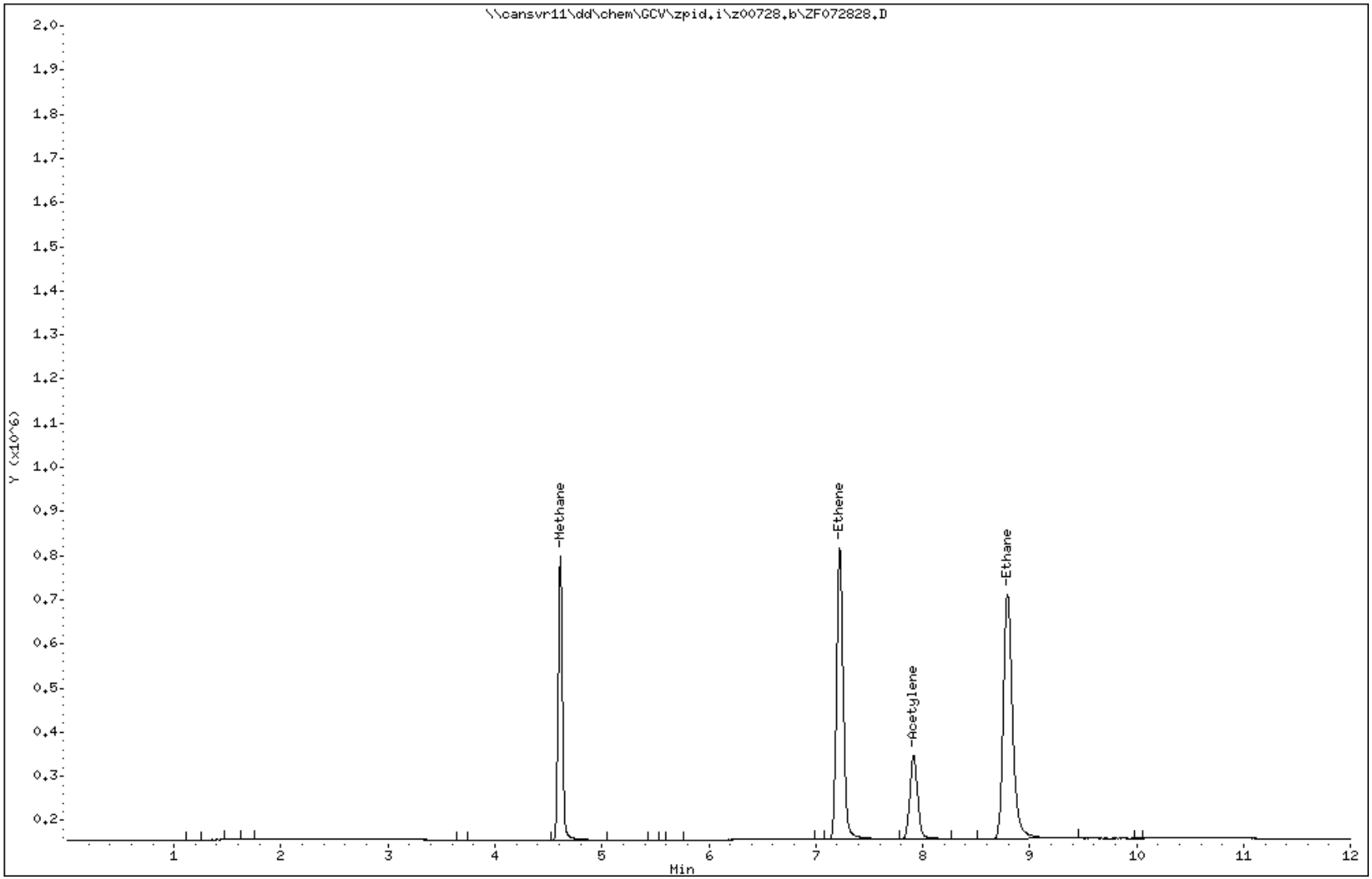
Sample Info: l4we31ac

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 29-JUL-2010 12:55
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072828.D
Lab Sample ID: l4we31ac
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.611	1806222	110.744	110.744 ug/L
2) Ethene	7.225	2898927	203.379	203.379 ug/L
4) Acetylene	7.915	951509	164.777	164.777 ug/L
3) Ethane	8.791	3352218	213.484	213.484 ug/L

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L4WE31AA **Matrix.....:** WATER
MB Lot-Sample #: A0G300000-043

Prep Date.....: 07/29/10 **Final Wgt/Vol..:** 1 mL
Analysis Date..: 07/29/10 **Prep Batch #...:** 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethene	ND	0.50	ug/L	RSK SOP-175
Methane	ND	0.50	ug/L	RSK SOP-175
Ethane	ND	0.50	ug/L	RSK SOP-175

NOTE(S):

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

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072829.D
Lab Smp Id: l4we31aa
Inj Date : 29-JUL-2010 13:20
Operator : 01616 Inst ID: zpid.i
Smp Info : l4we31aa
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	Compound Not Detected.					
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072829.D

Date : 29-JUL-2010 13:20

Client ID:

Instrument: zpid.i

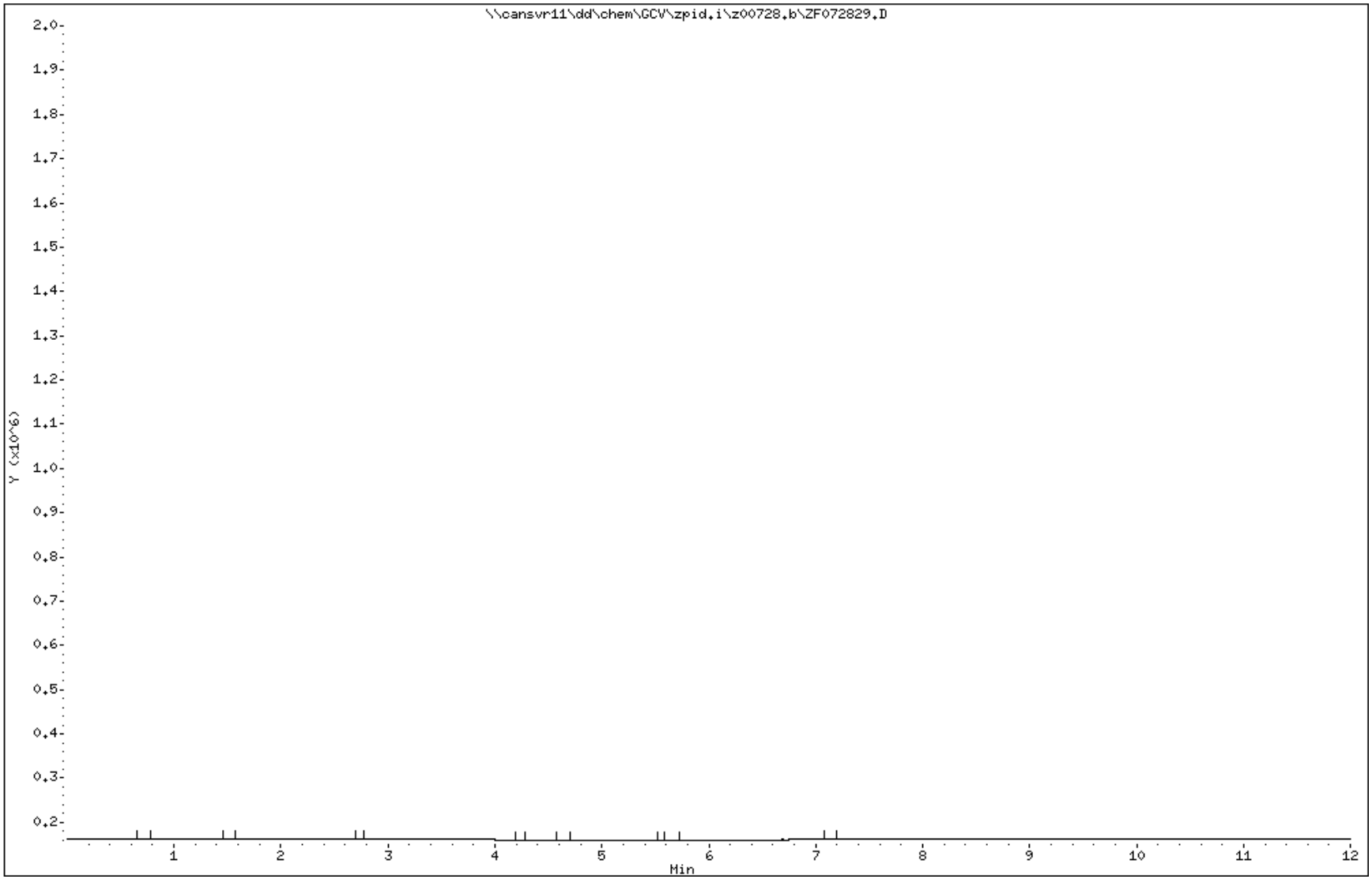
Sample Info: l4we31aa

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 29-JUL-2010 13:20
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072829.D
Lab Sample ID: l4we31aa
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	NOT DETECTED	Expected RT =	4.635	
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.768	

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L4JD31AX-MS **Matrix.....:** WG
MS Lot-Sample #: A0G220446-005 L4JD31A0-MSD
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methane	**91**	**(75 - 127)**			**RSK SOP-175**
	91	**(75 - 127)**	**0.19**	**(0-30)**	**RSK SOP-175**
Ethane	**92**	**(74 - 138)**			**RSK SOP-175**
	92	**(74 - 138)**	**0.37**	**(0-30)**	**RSK SOP-175**
Ethene	**94**	**(73 - 140)**			**RSK SOP-175**
	94	**(73 - 140)**	**0.16**	**(0-30)**	**RSK SOP-175**
Acetylene	**87**	**(70 - 130)**			**RSK SOP-175**
	88	**(70 - 130)**	**1.1**	**(0-30)**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G220446 **Work Order #...:** L4JD31AX-MS **Matrix.....:** WG
MS Lot-Sample #: A0G220446-005 L4JD31A0-MSD
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methane	**0.82**	**110**	**100**	**ug/L**	**91**		**RSK SOP-175**
	0.82	**110**	**100**	**ug/L**	**91**	**0.19**	**RSK SOP-175**
Ethane	**ND**	**200**	**190**	**ug/L**	**92**		**RSK SOP-175**
	ND	**200**	**190**	**ug/L**	**92**	**0.37**	**RSK SOP-175**
Ethene	**ND**	**190**	**180**	**ug/L**	**94**		**RSK SOP-175**
	ND	**190**	**180**	**ug/L**	**94**	**0.16**	**RSK SOP-175**
Acetylene	**ND**	**180**	**150**	**ug/L**	**87**		**RSK SOP-175**
	ND	**180**	**160**	**ug/L**	**88**	**1.1**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072837.D
Lab Smp Id: L4JD31AX Client Smp ID: OW5
Inj Date : 29-JUL-2010 17:27
Operator : 01616 Inst ID: zpid.i
Smp Info : L4JD31AX
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	4.617	4.635	-0.018	584655	100.399	100.4
2 Ethene	7.230	7.203	0.027	2565783	180.007	180.0
3 Ethane	8.804	8.767	0.037	2963613	188.736	188.7
4 Acetylene	7.927	7.885	0.042	890153	154.152	154.2

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072837.D

Page 1

Date : 29-JUL-2010 17:27

Client ID: OW5

Instrument: zpid.i

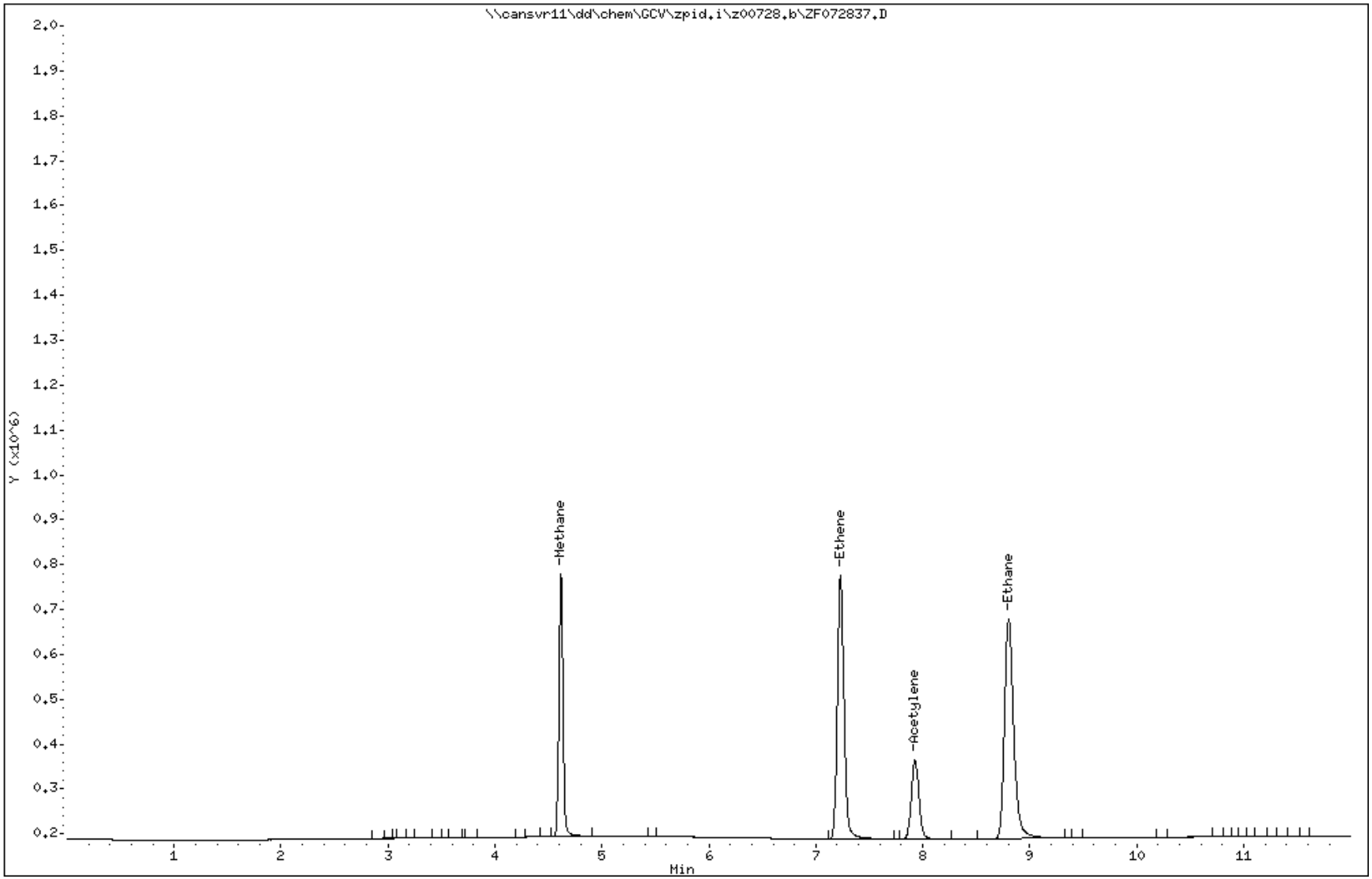
Sample Info: L4JD31AX

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 29-JUL-2010 17:27
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072837.D
Lab Sample ID: L4JD31AX
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.617	1594656	100.399	100.399 ug/L
2) Ethene	7.231	2565783	180.007	180.007 ug/L
4) Acetylene	7.927	890153	154.152	154.152 ug/L
3) Ethane	8.804	2963613	188.736	188.736 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072838.D
Lab Smp Id: L4JD31A0 Client Smp ID: OW5
Inj Date : 29-JUL-2010 17:53
Operator : 01616 Inst ID: zpid.i
Smp Info : L4JD31A0
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.615	4.635	-0.020	583774	100.247	100.2
2 Ethene	7.229	7.203	0.026	2570105	180.310	180.3
3 Ethane	8.802	8.767	0.035	2952171	188.008	188.0
4 Acetylene	7.925	7.885	0.040	900512	155.946	155.9

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072838.D

Date : 29-JUL-2010 17:53

Client ID: OW5

Instrument: zpid.i

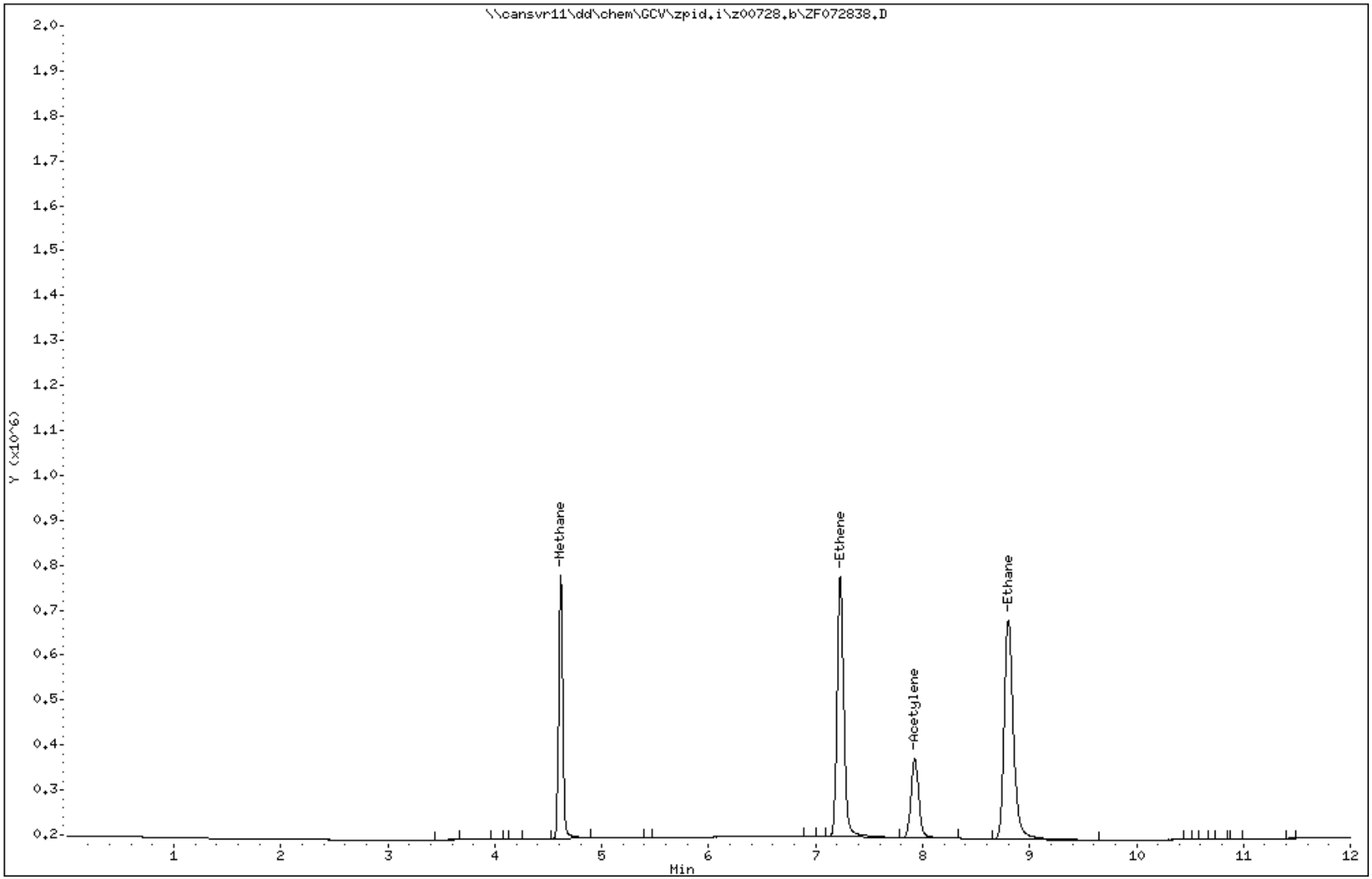
Sample Info: L4JD31A0

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 29-JUL-2010 17:53
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072838.D
Lab Sample ID: L4JD31A0
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.616	1591806	100.247	100.247 ug/L
2) Ethene	7.229	2570105	180.310	180.310 ug/L
4) Acetylene	7.926	900512	155.946	155.946 ug/L
3) Ethane	8.803	2952171	188.008	188.008 ug/L

TestAmerica
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MISCELLANEOUS DATA

Sequence: C:\HPCHEM\4\SEQUENCE\Z00610IC.S

Sequence Parameters:

Operator:

Data File Naming:	Prefix/Counter
Signal 1 Prefix:	ZF
Counter:	061001
Signal 2 Prefix:	ZR
Counter:	061001
Data Directory:	C:\HPCHEM\4\DATA\
Data Subdirectory:	Z00610IC
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:

CAL STD#: 3770 / 3771 LCS/MS STD#: 3772 ICV#_____

Level 1 Analyst: [signature] Date: 6/22/10

Level 2 Analyst: [signature] Date: 6/22/10

PDF completed by: [signature] Date:_____

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	PRIMER	RSK175	1	Sample		
2	1	3770,,1,1	RSK175	1	Sample		
3	1	3770,,1,2	RSK175	1	Sample		
4	1	3770,,1,3	RSK175	1	Sample		
5	1	3770,,1,4	RSK175	1	Sample		
6	1	3771,,1,5	RSK175	1	Sample		
7	1	3771,,1,6	RSK175	1	Sample		
8	1	3771,,1,7	RSK175	1	Sample		
9	1	3771,,1,8	RSK175	1	Sample		
10	1	3771,,1,9	RSK175	1	Sample		
11	1	ICV	RSK175	1	Sample		
12	1	LCS	RSK175	1	Sample		
13	1	LCSD	RSK175	1	Sample		
14	1	BLANK	RSK175	1	Sample		
15	1		RSK175	1	Sample		
16	1		RSK175	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00610IC.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
17	1		RSK175	1	Sample		
18	1		RSK175	1	Sample		

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	2	PRIMER	CO2RSK	1	Sample		
2	2	3770,,1,1	CO2RSK	1	Sample		
3	2	3770,,1,2	CO2RSK	1	Sample		
4	2	3770,,1,3	CO2RSK	1	Sample		
5	2	3770,,1,4	CO2RSK	1	Sample		
6	2	3771,,1,5	CO2RSK	1	Sample		
7	2	3771,,1,6	CO2RSK	1	Sample		
8	2	3771,,1,7	CO2RSK	1	Sample		
9	2	3771,,1,8	CO2RSK	1	Sample		
10	2	3771,,1,9	CO2RSK	1	Sample		
11	2	ICV	CO2RSK	1	Sample		
12	2	LCS	CO2RSK	1	Sample		
13	2	LCSD	CO2RSK	1	Sample		
14	2	BLANK	CO2RSK	1	Sample		
15	2		CO2RSK	1	Sample		
16	2		CO2RSK	1	Sample		
17	2		CO2RSK	1	Sample		
18	2		CO2RSK	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00728.S

Sequence Parameters:

Operator:	042476
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	ZF
Counter:	072801
Signal 2 Prefix:	ZR
Counter:	072801
Data Directory:	C:\HPCHEM\4\DATA\
Data Subdirectory:	Z00728
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

due 8-3-10

Sequence Comment:

CAL STD#: 3770 / 3771 LCS/MS STD#: 3772 ICV#_____

Level 1 Analyst: Barbara Tarwright Date: 7-29-10 7/30/10

Level 2 Analyst: Chong Li Date: 7/30/10

PDF completed by: BAF Date: 7-30-10

0210163 L4TXL

0211043 L4WE3

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	BAF 7/28/10 primer	RSK175	1	Sample		
2	1	3771,2 ✓	RSK175	1	Sample		
3	1	LCS ✓	RSK175	1	Sample		
4	1	LCSD ✓	RSK175	1	Sample		
5	1	BLANK ✓	RSK175	1	Sample		
6	1	L4DDL1AE ✓	RSK175	1	Sample		
7	1	L4DDN1AE ✓	RSK175	1	Sample		
8	1	L4ELT1AV ✓	RSK175	1	Sample		
9	1	L4EL11AV ✓	RSK175	1	Sample		
10	1	L4EL21AV ✓	RSK175	1	Sample		
11	1	L4EL31AV ✓	RSK175	1	Sample		
12	1	L4EL41AV ✓	RSK175	1	Sample		
13	1	L4GJG1AH,5 ✓	RSK175	1	Sample		
14	1	L4GJV1AH,5 ✓	RSK175	1	Sample		
15	1	L4GJT1AH ✓	RSK175	1	Sample		
16	1	L4GJ01AH ✓	RSK175	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00728.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
17	1	L4GJ11AH ✓	RSK175	1	Sample		
18	1	L4GHT1CW	RSK175	1	Sample		
19	1	L4GHX1CW	RSK175	1	Sample		
20	1	L4GH41C6 ✓	RSK175	1	Sample		
21	1	L4GEK1AF,5 ✓	RSK175	1	Sample		
22	1	L4GEP1AF	RSK175	1	Sample		
23	1	L4JE11AF,5	RSK175	1	Sample		
24	1	L4JE41AF ✓	RSK175	1	Sample		
25	1	L4JQH1CW ✓	RSK175	1	Sample		
26	1	RINSE	RSK175	1	Sample		
27	1	3771,2 ✓	RSK175	1	Sample		
28	1	LCS ✓	RSK175	1	Sample		
29	1	BLANK	RSK175	1	Sample		
30	1	~~L4GHT1CW,2~~	RSK175	1	Sample		
31	1	L4GHX1CW,2 ✓	RSK175	1	Sample		
32	1	L4JE11AF,2 ✓	RSK175	1	Sample		
33	1	L4GEP1AF,5 ✓	RSK175	1	Sample		
34	1	L4JDK1AH ✓	RSK175	1	Sample		
35	1	L4JD01AH ✓	RSK175	1	Sample		
36	1	L4JD31AW ✓	RSK175	1	Sample		
37	1	L4JD31AX ✓	RSK175	1	Sample		
38	1	L4JD31A0 ✓	RSK175	1	Sample		
39	1	L4JEC1AH ✓	RSK175	1	Sample		
40	1	L4JED1AH ✓	RSK175	1	Sample		
41	1	L4JEG1AH ✓	RSK175	1	Sample		
42	1	L4K1A1AH ✓	RSK175	1	Sample		
43	1	L4K1R1AH,2 ✓	RSK175	1	Sample		
44	1	L4K2T1AH	RSK175	1	Sample		
45	1	L4K291AH ✓	RSK175	1	Sample		
46	1	L4QQD1AC ✓	RSK175	1	Sample		
47	1	L4QQ31AN ✓	RSK175	1	Sample		
48	1	L4QQ41AN ✓	RSK175	1	Sample		
49	1	L4QQ51AN ✓	RSK175	1	Sample		
50	1	L4QQ71AN	RSK175	1	Sample		
51	1	~~RINSE~~ L4GHT1CW,2	RSK175	1	Sample		
52	1	Rinse ✓	RSK175	1	Sample		
53	1	L4K2T1AH,2 ✓	RSK175	1	Sample		
54	1	RINSE	RSK175	1	Sample		
55	1		RSK175	1	Sample		
56	1		RSK175	1	Sample		
57	1		RSK175	1	Sample		

— midnight

power off – restart

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	none		CO2RSK	1	Sample		
2	2		CO2RSK	1	Sample		
3	2		CO2RSK	1	Sample		
4	2		CO2RSK	1	Sample		
5	2		CO2RSK	1	Sample		
6	2		CO2RSK	1	Sample		

Lot: A0G220446

A0G220446

Sample	Work Order	SAC	Client Sample ID	pH	Free Chlorine
2	L4JDK-1AH	XX I 2X MM 01	OW13R	<2	NA
3	L4JD0-1AH	XX I 2X MM 01	DUP1	<2	NA
5	L4JD3-1AW	XX I 2X MM 01	OW5	<2	NA
6	L4JEC-1AH	XX I 2X MM 01	OW6	<2	NA
7	L4JED-1AH	XX I 2X MM 01	OW2	<2	NA
8	L4JEG-1AH	XX I 2X MM 01	MW1	<2	NA

Lot/SDG Number: A0G220446

Sample Control Chain of Custody - TAL North Canton
GC Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0G220446	2	L4JDK1AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight
A0G220446	3	L4JD01AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight
A0G220446	5	L4JD31AW	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight
A0G220446	6	L4JEC1AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight
A0G220446	7	L4JED1AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight
A0G220446	8	L4JEG1AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GENERAL CHEMISTRY DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Cardinal Resources

Client Sample ID: OW13R

General Chemistry

Lot-Sample #...: A0G220446-002 **Work Order #...:** L4JDK **Matrix.....:** WG
Date Sampled...: 07/21/10 09:10 **Date Received..:** 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**2.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204174**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0204177
		Dilution Factor: 1				
Sulfate	**25.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204187**
		Dilution Factor: 1				
Total Alkalinity	**340**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/27/10**	**0208126**
		Dilution Factor: 1				
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**	**07/26/10**	**0207249**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: DUP1

General Chemistry

Lot-Sample #...: A0G220446-003 **Work Order #...:** L4JD0 **Matrix.....:** WG
Date Sampled...: 07/21/10 **Date Received..:** 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**2.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204174**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0204177
		Dilution Factor: 1				
Sulfate	**25.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204187**
		Dilution Factor: 1				
Total Alkalinity	**330**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/27/10**	**0208126**
		Dilution Factor: 1				
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**	**07/26/10**	**0207249**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW5

General Chemistry

Lot-Sample #...: A0G220446-005 **Work Order #...:** L4JD3 **Matrix.....:** WG
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**7.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204174**
		Dilution Factor: 1				
Nitrate as N	**0.92**	**0.10**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204177**
		Dilution Factor: 1				
Sulfate	**54.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204187**
		Dilution Factor: 1				
Total Alkalinity	**100**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/27/10**	**0208126**
		Dilution Factor: 1				
Total Organic Carbon	**1**	**1**	**mg/L**	**MCAWW 415.1**	**07/26/10**	**0207249**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW6

General Chemistry

Lot-Sample #...: A0G220446-006 **Work Order #...:** L4JEC **Matrix.....:** WG
Date Sampled...: 07/21/10 11:55 **Date Received..:** 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**1.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204174**
		Dilution Factor: 1				
Nitrate as N	**0.21**	**0.10**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204177**
		Dilution Factor: 1				
Sulfate	**24.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204187**
		Dilution Factor: 1				
Total Alkalinity	**35**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/27/10**	**0208126**
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW2

General Chemistry

Lot-Sample #...: A0G220446-007 **Work Order #...:** L4JED **Matrix.....:** WG
Date Sampled...: 07/21/10 13:00 **Date Received..:** 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**2.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204174**
		Dilution Factor: 1				
Nitrate as N	**4.7**	**0.10**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204177**
		Dilution Factor: 1				
Sulfate	**15.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204188**
		Dilution Factor: 1				
Total Alkalinity	**34**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/27/10**	**0208126**
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: MW1

General Chemistry

Lot-Sample #...: A0G220446-008 **Work Order #...:** L4JEG **Matrix.....:** WG
Date Sampled...: 07/21/10 14:10 **Date Received..:** 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**3.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204174**
		Dilution Factor: 1				
Nitrate as N	**0.69**	**0.10**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204177**
		Dilution Factor: 1				
Sulfate	**10.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0204188**
		Dilution Factor: 1				
Total Alkalinity	**110**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/27/10**	**0208126**
		Dilution Factor: 1				
Total Organic Carbon	**1**	**1**	**mg/L**	**MCAWW 415.1**	**07/26/10**	**0207249**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: L4LDJ1AA		MB Lot-Sample #:	A0G230000-174	
	ND	1.0	mg/L	MCAWW 300.0A	07/22/10	0204174
		Dilution Factor: 1				
Nitrate as N		Work Order #: L4LD01AA		MB Lot-Sample #:	A0G230000-177	
	ND	0.10	mg/L	MCAWW 300.0A	07/22/10	0204177
		Dilution Factor: 1				
Sulfate		Work Order #: L4LM61AA		MB Lot-Sample #:	A0G230000-187	
	ND	1.0	mg/L	MCAWW 300.0A	07/22/10	0204187
		Dilution Factor: 1				
Sulfate		Work Order #: L4LM21AA		MB Lot-Sample #:	A0G230000-188	
	ND	1.0	mg/L	MCAWW 300.0A	07/22/10	0204188
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4PKP1AA		MB Lot-Sample #:	A0G270000-126	
	ND	5.0	mg/L	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: L4NMC1AA		MB Lot-Sample #:	A0G260000-249	
	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide		Work Order #: L4R1C1AA		MB Lot-Sample #:	A0G280000-262	
	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A0G220446 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4LDJ1AC-LCS/L4LDJ1AD-LCSD LCS Lot-Sample#: A0G230000-174					
	104	(90 - 110)			MCAWW 300.0A	07/22/10	0204174
	103	(90 - 110)	0.67	(0-20)	MCAWW 300.0A	07/22/10	0204174
		Dilution Factor: 1					
Nitrate as N		WO#:L4LD01AC-LCS/L4LD01AD-LCSD LCS Lot-Sample#: A0G230000-177					
	101	(90 - 110)			MCAWW 300.0A	07/22/10	0204177
	100	(90 - 110)	0.19	(0-20)	MCAWW 300.0A	07/22/10	0204177
		Dilution Factor: 1					
Sulfate		WO#:L4LM21AC-LCS/L4LM21AD-LCSD LCS Lot-Sample#: A0G230000-188					
	97	(90 - 110)			MCAWW 300.0A	07/23/10	0204188
	97	(90 - 110)	0.39	(0-20)	MCAWW 300.0A	07/23/10	0204188
		Dilution Factor: 1					
Sulfate		WO#:L4LM61AC-LCS/L4LM61AD-LCSD LCS Lot-Sample#: A0G230000-187					
	97	(90 - 110)			MCAWW 300.0A	07/22/10	0204187
	97	(90 - 110)	0.72	(0-20)	MCAWW 300.0A	07/22/10	0204187
		Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: A0G220446 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4LDJ1AC-LCS/L4LDJ1AD-LCSD LCS Lot-Sample#: A0G230000-174						
	50.0	51.8	mg/L	104		MCAWW 300.0A	07/22/10	0204174
	50.0	51.5	mg/L	103	0.67	MCAWW 300.0A	07/22/10	0204174
		Dilution Factor: 1						
Nitrate as N		WO#:L4LD01AC-LCS/L4LD01AD-LCSD LCS Lot-Sample#: A0G230000-177						
	2.5	2.5	mg/L	101		MCAWW 300.0A	07/22/10	0204177
	2.5	2.5	mg/L	100	0.19	MCAWW 300.0A	07/22/10	0204177
		Dilution Factor: 1						
Sulfate		WO#:L4LM21AC-LCS/L4LM21AD-LCSD LCS Lot-Sample#: A0G230000-188						
	50.0	48.5	mg/L	97		MCAWW 300.0A	07/23/10	0204188
	50.0	48.3	mg/L	97	0.39	MCAWW 300.0A	07/23/10	0204188
		Dilution Factor: 1						
Sulfate		WO#:L4LM61AC-LCS/L4LM61AD-LCSD LCS Lot-Sample#: A0G230000-187						
	50.0	48.3	mg/L	97		MCAWW 300.0A	07/22/10	0204187
	50.0	48.7	mg/L	97	0.72	MCAWW 300.0A	07/22/10	0204187
		Dilution Factor: 1						

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4PKP1AC	LCS Lot-Sample#: A0G270000-126		
	108	(90 - 127)	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: L4NMC1AC	LCS Lot-Sample#: A0G260000-249		
	93	(88 - 115)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1			
Total Sulfide		Work Order #: L4R1C1AC	LCS Lot-Sample#: A0G280000-262		
	101	(79 - 104)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4PKP1AC		LCS Lot-Sample#: A0G270000-126			
	110	120	mg/L	108	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1					
Total Organic Carbon		Work Order #: L4NMC1AC		LCS Lot-Sample#: A0G260000-249			
	69	65	mg/L	93	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1					
Total Sulfide		Work Order #: L4R1C1AC		LCS Lot-Sample#: A0G280000-262			
	15	15	mg/L	101	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WATER
Date Sampled...: 07/12/10 10:35 **Date Received..:** 07/14/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: L356W1DJ-MS/L356W1DK-MSD				MS Lot-Sample #: A0G140466-001	
	NC,MSB	(80 - 120)			MCAWW 300.0A	07/23/10	0204174
	NC,MSB	(80 - 120)		(0-20)	MCAWW 300.0A	07/23/10	0204174
		Dilution Factor: 10					
Sulfate		WO#: L356W1DM-MS/L356W1DN-MSD				MS Lot-Sample #: A0G140466-001	
	NC,MSB	(80 - 120)			MCAWW 300.0A	07/23/10	0204187
	NC,MSB	(80 - 120)		(0-20)	MCAWW 300.0A	07/23/10	0204187
		Dilution Factor: 10					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WATER
Date Sampled...: 07/12/10 10:35 **Date Received..:** 07/14/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#: L356W1DJ-MS/L356W1DK-MSD				MS Lot-Sample #: A0G140466-001		
	413	50.0	452	mg/L			MCAWW 300.0A	07/23/10	0204174
			Qualifiers: NC,MSB						
	413	50.0	434	mg/L			MCAWW 300.0A	07/23/10	0204174
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
Sulfate			WO#: L356W1DM-MS/L356W1DN-MSD				MS Lot-Sample #: A0G140466-001		
	343	50.0	380	mg/L			MCAWW 300.0A	07/23/10	0204187
			Qualifiers: NC,MSB						
	343	50.0	369	mg/L			MCAWW 300.0A	07/23/10	0204187
			Qualifiers: NC,MSB						
			Dilution Factor: 10						

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WATER
Date Sampled...: 07/20/10 10:55 **Date Received..:** 07/21/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N		Work Order #...: L4G301AL		MS Lot-Sample #: A0G210517-004	
	98	(80 - 120)	MCAWW 300.0A	07/22/10	0204177
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WATER
Date Sampled...: 07/20/10 10:55 **Date Received..:** 07/21/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	PREPARATION-METHOD	ANALYSIS DATE	PREP BATCH #
Nitrate as N			Work Order #...: L4G301AL			MS Lot-Sample #: A0G210517-004		
	ND	2.5	2.5	mg/L	98	MCAWW 300.0A	07/22/10	0204177
			Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WG
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: L4JD31AU-MS/L4JD31AV-MSD				MS Lot-Sample #: A0G220446-005	
	114	(80 - 120)			MCAWW 300.0A	07/23/10	0204174
	114	(80 - 120)	0.24	(0-20)	MCAWW 300.0A	07/23/10	0204174
		Dilution Factor: 1					
Nitrate as N		WO#: L4JD31AM-MS/L4JD31AN-MSD				MS Lot-Sample #: A0G220446-005	
	103	(80 - 120)			MCAWW 300.0A	07/23/10	0204177
	104	(80 - 120)	0.60	(0-20)	MCAWW 300.0A	07/23/10	0204177
		Dilution Factor: 1					
Sulfate		WO#: L4JD31AQ-MS/L4JD31AR-MSD				MS Lot-Sample #: A0G220446-005	
	116	(80 - 120)			MCAWW 300.0A	07/23/10	0204187
	116	(80 - 120)	0.0	(0-20)	MCAWW 300.0A	07/23/10	0204187
		Dilution Factor: 1					
Total Alkalinity		WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #: A0G220446-005	
	84	(10 - 160)			MCAWW 310.1	07/27/10	0208126
	83	(10 - 160)	0.68	(0-24)	MCAWW 310.1	07/27/10	0208126
		Dilution Factor: 1					
Total Organic Carbon		WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #: A0G220446-005	
	96	(72 - 136)			MCAWW 415.1	07/26/10	0207249
	102	(72 - 136)	5.5	(0-20)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1					
Total Sulfide		WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #: A0G220446-005	
	96	(75 - 107)			MCAWW 376.1	07/28/10	0209262
	94	(75 - 107)	2.3	(0-20)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 **Matrix.....:** WG
Date Sampled...: 07/21/10 10:50 **Date Received..:** 07/22/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#: L4JD31AU-MS/L4JD31AV-MSD				MS Lot-Sample #: A0G220446-005		
	7.6	50.0	64.4	mg/L	114		MCAWW 300.0A	07/23/10	0204174
	7.6	50.0	64.5	mg/L	114	0.24	MCAWW 300.0A	07/23/10	0204174
			Dilution Factor: 1						
Nitrate as N			WO#: L4JD31AM-MS/L4JD31AN-MSD				MS Lot-Sample #: A0G220446-005		
	0.92	2.5	3.5	mg/L	103		MCAWW 300.0A	07/23/10	0204177
	0.92	2.5	3.5	mg/L	104	0.60	MCAWW 300.0A	07/23/10	0204177
			Dilution Factor: 1						
Sulfate			WO#: L4JD31AQ-MS/L4JD31AR-MSD				MS Lot-Sample #: A0G220446-005		
	54.6	50.0	112	mg/L	116		MCAWW 300.0A	07/23/10	0204187
	54.6	50.0	112	mg/L	116	0.0	MCAWW 300.0A	07/23/10	0204187
			Dilution Factor: 1						
Total Alkalinity			WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #: A0G220446-005		
	100	500	520	mg/L	84		MCAWW 310.1	07/27/10	0208126
	100	500	520	mg/L	83	0.68	MCAWW 310.1	07/27/10	0208126
			Dilution Factor: 1						
Total Organic Carbon			WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #: A0G220446-005		
	1	25	25	mg/L	96		MCAWW 415.1	07/26/10	0207249
	1	25	26	mg/L	102	5.5	MCAWW 415.1	07/26/10	0207249
			Dilution Factor: 1						
Total Sulfide			WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #: A0G220446-005		
	ND	15	15	mg/L	96		MCAWW 376.1	07/28/10	0209262
	ND	15	14	mg/L	94	2.3	MCAWW 376.1	07/28/10	0209262
			Dilution Factor: 1						

NOTE(S):

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

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SUPPORTIVE RAW DATA

Method: 300, 9056

TestAmerica
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Ion Chromatography

DX Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m Instrument : ic320.i Level 1 ..... Date 7/23/10

Solids prep factor: 10 Maximum Cl / NO2 ratio: 1000 Level 11 ..... Date 7/23/10 Date Analyzed: ####### Units: mg/L or mg/Kg

Inj #	Inj. Date	Sample ID	Matrix	Solids Prep factor	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
						RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
		RL & CCV value:				0.1	2.5	1	50	0.1	2.5	0.2	10	0.1	2.5	0.1	2.5	1	50
	9-Jul-10	Cal 5 conc & area				10	147012131	200	2.573E+09	10	199413806	40	168441229	10	2.39E+08	10	86615864	200	1.675E+09
1	7/22/2010 14:44	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.04 B	1	ND
2	7/22/2010 15:02	RINSE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
3	7/22/2010 15:19	CCV	L	1	1	Out 112%	2.8	P 104%	52.22	P 105%	2.633	P 102%	10.17	P 100%	2.502	P 90%	2.254	P 97%	48.36
4	7/22/2010 15:37	CCB	L	1	1	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	0.05 B	Pass	ND
5	7/22/2010 15:54	LCS	L	1	1	P 98%	2.446	P 104%	51.83	P 104%	2.609	P 99%	9.854	P 101%	2.515	P 91%	2.277	P 97%	48.31
6	7/22/2010 16:11	LCS DUP	L	1	1	P 97%	2.433	P 103%	51.48	P 103%	2.583	P 98%	9.78	P 100%	2.51	P 93%	2.326	P 97%	48.66
7	7/22/2010 16:29	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
8	7/22/2010 16:46	L4G3W	L	1	1	0.1	0.3027	1	Dil 5X	0.483 G	ND	0.2	4.22	0.1	ND	0.1	0.05 B	1	0.31 B
9	7/22/2010 17:04	L4G3X	L	1	1	0.1	0.441	1	120.2	0.12 G	ND	0.2	2.608	0.1	ND	0.1	0.04 B	1	1.529
10	7/22/2010 17:21	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
11	7/22/2010 17:38	L4G30 ORG	L	1	1	0.1	0.1184	1	Dil 10X	1.084 G	ND	0.2	9.576	0.1	ND	0.1	0.05 B	1	0.36 B
12	7/22/2010 17:56	L4G30 MS	L	1	1	0.1	2.038	1	Dil 10X	1.116 G	ND	0.2	19.93	0.1	2.455	0.1	1.273	1	50.28
13	7/22/2010 18:13	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
14	7/22/2010 18:31	L4G31	L	1	1	0.1	0.1123	1	14.44	0.1	ND	0.2	ND	0.1	0.554	0.1	0.05 B	1	20.54
15	7/22/2010 18:48	CCV	L	1	1	Out 135%	3.38	P 107%	53.44	Out 118%	2.961	Out 112%	11.24	P 109%	2.715	P 93%	2.316	P 98%	49.12
16	7/22/2010 19:05	CCB	L	1	1	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	0.04 B	Pass	ND
17	7/22/2010 19:23	L4H8Q	L	1	1	0.1	0.03 B	1	5.197	0.1	ND	0.2	ND	0.1	0.1044	0.1	0.05 B	1	4.679
18	7/22/2010 19:40	L4H8W	L	1	1	0.1	0.03 B	1	4.62	0.1	ND	0.2	ND	0.1	ND	0.1	0.06 B	1	4.549
19	7/22/2010 19:58	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
20	7/22/2010 20:15	L4H8X	L	1	1	0.1	0.01 B	1	4.41	0.1	2.504	0.2	ND	0.1	ND	0.1	0.05 B	1	3.665
21	7/22/2010 20:32	L4H80	L	1	1	0.1	0.04 B	1	4.606	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	1.591
22	7/22/2010 20:50	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	ND	1	ND
23	7/22/2010 21:07	L4H81 ORG	L	1	1	0.1	0.03 B	1	4.512	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	4.366
24	7/22/2010 21:25	L4H81 MS	L	1	1	0.1	2.82	1	66.9	0.1	2.434	0.2	10.86	0.1	2.833	0.1	2.728	1	63.57
25	7/22/2010 21:42	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	ND	1	ND

G - diluted for another analyte or matrix
B - estimated result, < RL

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Method: 300, 9056

TestAmerica
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DX Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m Instrument : ic320.i Level 1.....Date..... Date Analyzed: #######

Solids prep factor: 10 Maximum Cl / NO2 ratio: 1000 Level 11.....Date..... Units: mg/L or mg/Kg

Inj #	Inj. Date	Sample ID	Matrix	Solids Prep factor	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
						RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
		RL & CCV value:				0.1	2.5	1	50	0.1	2.5	0.2	10	0.1	2.5	0.1	2.5	1	50
	9-Jul-10	Cal 5 conc & area				10	147012131	200	2.573E+09	10	199413806	40	168441229	10	2.39E+08	10	86615864	200	1.675E+09
26	7/22/2010 21:59	L4H84	L	1	1	0.1	0.01 B	1	4.433	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	4.431
27	7/22/2010 22:17	CCV	L	1	1	P 97%	2.415	P 103%	51.47	P 98%	2.443	P 95%	9.519	P 98%	2.458	P 93%	2.329	P 98%	48.79
28	7/22/2010 22:34	CCB	L	1	1	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	0.05 B	Pass	ND
29	7/22/2010 22:52	L4H85	L	1	1	0.1	0.03 B	1	4.003	0.1	ND	0.2	ND	0.1	ND	0.1	ND	1	0.57 B
30	7/22/2010 23:09	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
31	7/22/2010 23:26	L4H86	L	1	1	0.1	0.03 B	1	4.439	0.1	ND	0.2	ND	0.1	0.1 B	0.1	ND	1	2.953
32	7/22/2010 23:44	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.04 B	1	ND
33	7/23/2010 0:01	L4JDK	L	1	1	0.1	0.03 B	1	2.84	0.1	ND	0.2	ND	0.1	ND	0.1	0.04 B	1	25.14
34	7/23/2010 0:19	L4JD0	L	1	1	0.1	0.03 B	1	2.823	0.1	ND	0.2	ND	0.1	ND	0.1	0.04 B	1	25.21
35	7/23/2010 0:36	L4JD3 ORG	L	1	1	0.1	0.02 B	1	7.58	0.1	ND	0.2	ND	0.1	0.9159	0.1	ND	1	54.58
36	7/23/2010 0:53	L4JD3 MS	L	1	1	0.1	2.689	1	64.37	0.1	2.521	0.2	9.661	0.1	3.487	0.1	4.238	1	112.4
37	7/23/2010 1:11	L4JD3 MSD	L	1	1	106%	2.672	114%	64.53	102%	2.538	98%	9.758	104%	3.508	169%	4.214	116%	112.4
38	7/23/2010 1:28	L4JEC	L	1	1	0.1	0.1001	1	1.169	0.1	ND	0.2	ND	0.1	0.2129	0.1	0.8691	1	24.63
39	7/23/2010 1:46	CCV	L	1	1	P 97%	2.414	P 105%	52.33	P 99%	2.464	P 94%	9.44	P 98%	2.443	P 96%	2.396	P 98%	48.97
40	7/23/2010 2:03	CCB	L	1	1	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	0.05 B	Pass	ND
41	7/23/2010 2:20	L4JED	L	1	1	0.1	0.02 B	1	2	0.1	ND	0.2	ND	0.1	4.687	0.1	0.1 B	1	15.58
42	7/23/2010 2:38	L4JEG	L	1	1	0.1	0.07 B	1	3.229	0.1	ND	0.2	ND	0.1	0.6878	0.1	0.1586	1	10.75
43	7/23/2010 2:55	L356W ORG	L	1	10	1 G	0.56 B	10	412.8	1 G	ND	2 G	ND	1 G	ND	1 G	0.43 B	10	343.2
44	7/23/2010 3:13	L356W MS	L	1	10	1	3.187	10	451.9	MSB	2.53	2	11.37	1	2.737	1	3.226	10	379.9 MSB
45	7/23/2010 3:30	L356W MSD	L	1	10	92%	2.853	42%	433.6	MSB	2.495	104%	10.44	98%	2.439	112%	3.217	51%	368.8 MSB
46	7/23/2010 3:47	L3567	L	1	10	1 G	0.36 B	10	825.4	1 G	ND	2	2.225	1 G	ND	1 G	ND	10	430.4
47	7/23/2010 4:05	L357F	L	1	10	1 G	0.43 B	10	504.8	1 G	ND	2 G	ND	1 G	ND	1 G	0.48 B	10	348.1
48	7/23/2010 4:22	L357H	L	1	10	1 G	0.44 B	10	521.4	1 G	ND	2 G	ND	1 G	ND	1 G	0.47 B	10	1526
49	7/23/2010 4:40	L357J	L	1	5	0.5	0.688	5	90.69	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	0.24 B	5	939.3
50	7/23/2010 4:57	L357K	L	1	5	0.5	1.181	5	101.6	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	0.24 B	5	422.1

G - diluted for another analyte or matrix
B - estimated result, < RL

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Method: 300, 9056

TestAmerica
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Ion Chromatography

DX Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m Instrument : ic320.i Level 1.....Date..... Date Analyzed: #######

Solids prep factor: 10 Maximum Cl / NO2 ratio: 1000 Level 11.....Date..... Units: mg/L or mg/Kg

Inj #	Inj. Date	Sample ID	Matrix	Solids Prep factor	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
						RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
		RL & CCV value:				0.1	2.5	1	50	0.1	2.5	0.2	10	0.1	2.5	0.1	2.5	1	50
	9-Jul-10	Cal 5 conc & area				10	147012131	200	2.573E+09	10	199413806	40	168441229	10	2.39E+08	10	86615864	200	1.675E+09
51	7/23/2010 5:14	CCV	L	1	1	P 97%	2.426	P 105%	52.47	P 99%	2.475	P 94%	9.448	P 98%	2.453	P 94%	2.358	P 98%	49.2
52	7/23/2010 5:32	CCB	L	1	1	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	0.06 B	Pass	ND
53	7/23/2010 5:49	L357L	L	1	5	0.5 G	ND	5	256.5	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	ND	5	56.26
54	7/23/2010 6:07	L357M	L	1	10	1 G	0.42 B	10	480.7	1 G	ND	2 G	ND	1 G	ND	1 G	0.49 B	10	331.2
55	7/23/2010 6:24	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	ND	1	ND
56	7/23/2010 6:41	L4JL9	L	1	1	0.1	ND	1	Dil 50X	5.496 G	ND	0.2	ND	0.1	ND	0.1	0.6549	1	Dil 2X
57	7/23/2010 6:59	L4JMX	L	1	1	0.1	0.277	1	100.2	0.1	ND	0.2	1.242	0.1	0.05 B	0.1	0.05 B	1	1.066
58	7/23/2010 7:16	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
59	7/23/2010 7:34	L4JM1	L	1	1	0.1	0.03 B	1	Dil 5X	0.51 G	ND	0.2	0.7601	0.1	2.944	0.1	0.05 B	1	54.24
60	7/23/2010 7:51	L4JM3	L	1	1	0.1	0.4851	1	169.7	0.17 G	ND	0.2	0.2085	0.1	ND	0.1	0.05 B	1	84.83
61	7/23/2010 8:08	LCS	L	1	1	P 95%	2.38	P 103%	51.34	P 99%	2.485	P 93%	9.292	P 97%	2.419	Out 88%	2.194	P 97%	48.53
62	7/23/2010 8:26	LCS DUP	L	1	1	P 96%	2.403	P 103%	51.63	P 100%	2.505	P 93%	9.346	P 97%	2.423	P 90%	2.249	P 97%	48.34
63	7/23/2010 8:43	CCV	L	1	1	P 96%	2.405	P 104%	52.13	P 98%	2.452	P 94%	9.401	P 97%	2.428	P 92%	2.308	P 98%	49.08
64	7/23/2010 9:01	CCB	L	1	1	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND
65	7/23/2010 9:18	CE	L	1	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.05 B	1	ND
66	7/23/2010 9:35	L4JQH	L	1	1	0.1	0.05 B	1	91.22	0.1	ND	0.2	ND	0.1	0.04 B	0.1	ND	1	102.7
67	7/23/2010 9:53	CCV	L	1	1	P 96%	2.408	P 104%	52.1	P 98%	2.446	P 95%	9.523	P 98%	2.455	P 94%	2.338	P 98%	49.22
68	7/23/2010 10:10	CCB	L	1	1	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	0.05 B	Pass	ND
0	1/0/1900 0:00	0		1	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
0	1/0/1900 0:00	0		1	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
0	1/0/1900 0:00	0		1	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
0	1/0/1900 0:00	0		1	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
0	1/0/1900 0:00	0		1	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
0	1/0/1900 0:00	0		1	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
0	1/0/1900 0:00	0		1	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!

G - diluted for another analyte or matrix
B - estimated result, < RL

Sequence: 072210
Operator: wetchemnc
Printed: 7/23/2010 10:37:44 AM

Title:
Datasource: D2NJR9B1_local
Location: IC320\IC320-DATA 2010\DX320 JULY 2010
Timebase: IC320
#Samples: 69
Created: 7/22/2010 12:36:26 PM by wetchemnc
Last Update: 7/22/2010 4:41:22 PM by wetchemnc

No.	Name	Type	Program	Status	Inj. Date/Time	Comment
1	CE	Unknown	IC320_14min	Finished	7/22/2010 2:44:58 PM	
2	RINSE	Unknown	IC320_14min	Finished	7/22/2010 3:02:22 PM	ELUENT=WR00685
3	CCV,,2	Unknown	IC320_14min	Finished	7/22/2010 3:19:46 PM	CCV=IC0350
4	CCB	Unknown	IC320_14min	Finished	7/22/2010 3:37:10 PM	LCS=IC0349
5	LCS,,3	Unknown	IC320_14min	Finished	7/22/2010 3:54:34 PM	
6	LCS DUP,,3	Unknown	IC320_14min	Finished	7/22/2010 4:11:58 PM	
7	CE	Unknown	IC320_14min	Finished	7/22/2010 4:29:22 PM	
8	L4G3W	Unknown	IC320_14min	Finished	7/22/2010 4:46:46 PM	
9	L4G3X	Unknown	IC320_14min	Finished	7/22/2010 5:04:10 PM	
10	CE	Unknown	IC320_14min	Finished	7/22/2010 5:21:33 PM	
11	L4G30 ORG	Unknown	IC320_14min	Finished	7/22/2010 5:38:57 PM	
12	L4G30 MS,,3	Unknown	IC320_14min	Finished	7/22/2010 5:56:21 PM	
13	CE	Unknown	IC320_14min	Finished	7/22/2010 6:13:45 PM	
14	L4G31	Unknown	IC320_14min	Finished	7/22/2010 6:31:09 PM	
15	CCV,,2	Unknown	IC320_14min	Finished	7/22/2010 6:48:33 PM	
16	CCB	Unknown	IC320_14min	Finished	7/22/2010 7:05:56 PM	
17	L4H8Q	Unknown	IC320_14min	Finished	7/22/2010 7:23:20 PM	
18	L4H8W	Unknown	IC320_14min	Finished	7/22/2010 7:40:45 PM	
19	CE	Unknown	IC320_14min	Finished	7/22/2010 7:58:08 PM	
20	L4H8X	Unknown	IC320_14min	Finished	7/22/2010 8:15:32 PM	
21	L4H80	Unknown	IC320_14min	Finished	7/22/2010 8:32:57 PM	
22	CE	Unknown	IC320_14min	Finished	7/22/2010 8:50:21 PM	
23	L4H81 ORG	Unknown	IC320_14min	Finished	7/22/2010 9:07:44 PM	
24	L4H81 MS,,3	Unknown	IC320_14min	Finished	7/22/2010 9:25:08 PM	
25	CE	Unknown	IC320_14min	Finished	7/22/2010 9:42:32 PM	
26	L4H84	Unknown	IC320_14min	Finished	7/22/2010 9:59:56 PM	
27	CCV,,2	Unknown	IC320_14min	Finished	7/22/2010 10:17:20 PM	
28	CCB	Unknown	IC320_14min	Finished	7/22/2010 10:34:44 PM	
29	L4H85	Unknown	IC320_14min	Finished	7/22/2010 10:52:07 PM	
30	CE	Unknown	IC320_14min	Finished	7/22/2010 11:09:32 PM	
31	L4H86	Unknown	IC320_14min	Finished	7/22/2010 11:26:56 PM	
32	CE	Unknown	IC320_14min	Finished	7/22/2010 11:44:20 PM	
33	L4JDK	Unknown	IC320_14min	Finished	7/23/2010 12:01:43 AM	
34	L4JD0	Unknown	IC320_14min	Finished	7/23/2010 12:19:07 AM	
35	L4JD3 ORG	Unknown	IC320_14min	Finished	7/23/2010 12:36:31 AM	
36	L4JD3 MS,,3	Unknown	IC320_14min	Finished	7/23/2010 12:53:55 AM	
37	L4JD3 MSD,,3	Unknown	IC320_14min	Finished	7/23/2010 1:11:19 AM	
38	L4JEC	Unknown	IC320_14min	Finished	7/23/2010 1:28:43 AM	
39	CCV,,2	Unknown	IC320_14min	Finished	7/23/2010 1:46:06 AM	
40	CCB	Unknown	IC320_14min	Finished	7/23/2010 2:03:30 AM	
41	L4JED	Unknown	IC320_14min	Finished	7/23/2010 2:20:54 AM	
42	L4JEG	Unknown	IC320_14min	Finished	7/23/2010 2:38:18 AM	

Chromeleon © Dionex Corporation, Version 6.80 Build 2212

Title:
Datasource: D2NJR9B1_local
Location: IC320\IC320-DATA 2010\DX320 JULY 2010
Timebase: IC320
#Samples: 69
Created: 7/22/2010 12:36:26 PM by wetchemnc
Last Update: 7/22/2010 4:41:22 PM by wetchemnc

No.	Name	Type	Program	Status	Inj. Date/Time	Comment
43	L356W ORG,10	Unknown	IC320_14min	Finished	7/23/2010 2:55:42 AM	
44	L356W MS,10,3	Unknown	IC320_14min	Finished	7/23/2010 3:13:05 AM	
45	L356W MSD,10,3	Unknown	IC320_14min	Finished	7/23/2010 3:30:29 AM	
46	L3567,10	Unknown	IC320_14min	Finished	7/23/2010 3:47:53 AM	
47	L357F,10	Unknown	IC320_14min	Finished	7/23/2010 4:05:17 AM	
48	L357H,10	Unknown	IC320_14min	Finished	7/23/2010 4:22:41 AM	
49	L357J,5	Unknown	IC320_14min	Finished	7/23/2010 4:40:05 AM	
50	L357K,5	Unknown	IC320_14min	Finished	7/23/2010 4:57:28 AM	
51	CCV,,2	Unknown	IC320_14min	Finished	7/23/2010 5:14:52 AM	
52	CCB	Unknown	IC320_14min	Finished	7/23/2010 5:32:15 AM	
53	L357L,5	Unknown	IC320_14min	Finished	7/23/2010 5:49:39 AM	
54	L357M,10	Unknown	IC320_14min	Finished	7/23/2010 6:07:02 AM	
55	CE	Unknown	IC320_14min	Finished	7/23/2010 6:24:26 AM	
56	L4JL9	Unknown	IC320_14min	Finished	7/23/2010 6:41:50 AM	
57	L4JMX	Unknown	IC320_14min	Finished	7/23/2010 6:59:14 AM	
58	CE	Unknown	IC320_14min	Finished	7/23/2010 7:16:38 AM	
59	L4JM1	Unknown	IC320_14min	Finished	7/23/2010 7:34:02 AM	
60	L4JM3	Unknown	IC320_14min	Finished	7/23/2010 7:51:27 AM	
61	LCS,,3	Unknown	IC320_14min	Finished	7/23/2010 8:08:51 AM	
62	LCS DUP,,3	Unknown	IC320_14min	Finished	7/23/2010 8:26:14 AM	
63	CCV,,2	Unknown	IC320_14min	Finished	7/23/2010 8:43:38 AM	
64	CCB	Unknown	IC320_14min	Finished	7/23/2010 9:01:01 AM	
65	CE	Unknown	IC320_14min	Finished	7/23/2010 9:18:25 AM	
66	L4JQH	Unknown	IC320_14min	Finished	7/23/2010 9:35:49 AM	
67	CCV,,2	Unknown	IC320_14min	Finished	7/23/2010 9:53:13 AM	
68	CCB	Unknown	IC320_14min	Finished	7/23/2010 10:10:38 AM	
69	halt	Unknown	IC320_Halt	Finished	7/23/2010 10:28:02 AM	

VB 7/23/10

Report Date : 23-Jul-2010 13:47

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Last Edit : 23-Jul-2010 11:55 scotts

Calibration File Names:
Level 1: \\cansvr11\chem\WET\ic320.i\070910.b\0002.d
Level 2: \\cansvr11\chem\WET\ic320.i\070910.b\0003.d
Level 3: \\cansvr11\chem\WET\ic320.i\070910.b\0004.d
Level 4: \\cansvr11\chem\WET\ic320.i\070910.b\0005.d
Level 5: \\cansvr11\chem\WET\ic320.i\070910.b\0006.d
Level 6: \\cansvr11\chem\WET\ic320.i\070910.b\0007.d
Level 7: \\cansvr11\chem\WET\ic320.i\070910.b\0008.d
Level 8: \\cansvr11\chem\WET\ic320.i\070910.b\0009.d
Level 9: \\cansvr11\chem\WET\ic320.i\070910.b\0010.d

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
1 Fluoride	13063300	11561968	11974436	12049535	12600344	12827590					
	13088228	13914231	14701213				AVRG		12864538		7.67018
2 Chloride	7953314	8000453	8497131	9380475	10602096	11131542					
	11497009	12202869	12863920				AVRG		10236534		18.03440
3 Nitrite	14773300	17207980	17692410	17412656	18200769	18565857					
	18953519	19474696	19941381				AVRG		18024730		8.47908

Report Date : 23-Jul-2010 13:47

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Last Edit : 23-Jul-2010 11:55 scotts

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
4 Bromide	3685155	3382477	3377010	3363642	3517813	3599893					
	3733838	3963298	4211031				AVRG		3648240		7.92789
5 Nitrate	17718120	17963004	17997400	18650579	19288388	20015284					
	21070928	22555581	23857436				AVRG		19901858		10.97478
6 Phosphate	10797	59779	150826	313794	800074	1299706					
	1684064	2662680	3725624				QUAD	0.03256	3.193e-006	-1.400e-01	0.99993
7 Sulfate	6056140	5701623	5743500	5992873	6441677	6833392					
	7125089	7831117	8374912				AVRG		6677814		14.17863

Report Date : 23-Jul-2010 13:47

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Last Edit : 23-Jul-2010 11:55 scotts

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date: 23-Jul-2010 13:47

Calibration History

Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Start Cal Date: 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-JUL-2010 16:19	all	\\cansvr11\chem\WET\ic320.i\070910.b\0002.d
Cal Level: 2 , Cal Amount: 0.25000		
09-JUL-2010 16:37	all	\\cansvr11\chem\WET\ic320.i\070910.b\0003.d
Cal Level: 3 , Cal Amount: 0.50000		
09-JUL-2010 16:54	all	\\cansvr11\chem\WET\ic320.i\070910.b\0004.d
Cal Level: 4 , Cal Amount: 1.00000		
09-JUL-2010 17:11	all	\\cansvr11\chem\WET\ic320.i\070910.b\0005.d
Cal Level: 5 , Cal Amount: 2.50000		
09-JUL-2010 17:29	all	\\cansvr11\chem\WET\ic320.i\070910.b\0006.d
Cal Level: 6 , Cal Amount: 4.00000		
09-JUL-2010 17:46	all	\\cansvr11\chem\WET\ic320.i\070910.b\0007.d
Cal Level: 7 , Cal Amount: 5.00000		
09-JUL-2010 18:04	all	\\cansvr11\chem\WET\ic320.i\070910.b\0008.d
Cal Level: 8 , Cal Amount: 7.50000		

09-JUL-2010 18:21	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0009.d		

Cal Level: 9 , Cal Amount: 10.00000		
09-JUL-2010 18:38	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0010.d		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

23-JUL-2010 09:53	all	
\\cansvr11\chem\WET\ic320.i\072210.b\0067.d		
23-JUL-2010 08:43	all	
\\cansvr11\chem\WET\ic320.i\072210.b\0063.d		
23-JUL-2010 05:14	all	
\\cansvr11\chem\WET\ic320.i\072210.b\0051.d		
23-JUL-2010 01:46	all	
\\cansvr11\chem\WET\ic320.i\072210.b\0039.d		
22-JUL-2010 22:17	all	
\\cansvr11\chem\WET\ic320.i\072210.b\0027.d		
22-JUL-2010 18:48	all	
\\cansvr11\chem\WET\ic320.i\072210.b\0015.d		
22-JUL-2010 15:19	all	
\\cansvr11\chem\WET\ic320.i\072210.b\0003.d		

Report Date : 12-Jul-2010 10:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\WET\ic320.i\070910.b\DX320.m
Last Edit : 12-Jul-2010 08:51 wetchemnc

Calibration File Names:
Level 1: \\cansvr11\dd\WET\ic320.i\070910.b\0002.d
Level 2: \\cansvr11\dd\WET\ic320.i\070910.b\0003.d
Level 3: \\cansvr11\dd\WET\ic320.i\070910.b\0004.d
Level 4: \\cansvr11\dd\WET\ic320.i\070910.b\0005.d
Level 5: \\cansvr11\dd\WET\ic320.i\070910.b\0006.d
Level 6: \\cansvr11\dd\WET\ic320.i\070910.b\0007.d
Level 7: \\cansvr11\dd\WET\ic320.i\070910.b\0008.d
Level 8: \\cansvr11\dd\WET\ic320.i\070910.b\0009.d
Level 9: \\cansvr11\dd\WET\ic320.i\070910.b\0010.d

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
1 Fluoride	13063300	11561968	11974436	12049535	12600344	12827590					
	13088228	13914231	14701213				AVRG		12864538		7.67018
2 Chloride	7953314	8000453	8497131	9380475	10602096	11131542					
	11497009	12202869	12863920				AVRG		10236534		18.03440
3 Nitrite	14773300	17207980	17692410	17412656	18200769	18565857					
	18953519	19474696	19941381				AVRG		18024730		8.47908

Report Date : 12-Jul-2010 10:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\WET\ic320.i\070910.b\DX320.m
Last Edit : 12-Jul-2010 08:51 wetchemnc

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.2500000 Level 2 / 7.5000 Level 8	0.5000000 Level 3 / 10.0000 Level 9	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
4 Bromide	3685155	3382477	3377010	3363642	3517813	3599893					
	3733838	3963298	4211031				AVRG		3648240		7.92789
5 Nitrate	17718120	17963004	17997400	18650579	19288388	20015284					
	21070928	22555581	23857436				AVRG		19901858		10.97478
6 Phosphate	10797	59779	150826	313794	800074	1299706					
	1684064	2662680	3725624				QUAD	0.03256	3.193e-006	-1.400e-01	0.99993
7 Sulfate	6056140	5701623	5743500	5992873	6441677	6833392					
	7125089	7831117	8374912				AVRG		6677814		14.17863

Report Date : 12-Jul-2010 10:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\dd\chem\WET\ic320.i\070910.b\DX320.m
Last Edit : 12-Jul-2010 08:51 wetchemnc

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date: 12-Jul-2010 10:17

Calibration History

Method : \\cansvr11\dd\chem\WET\ic320.i\070910.b\DX320.m
Start Cal Date: 09-JUL-2010 16:19
End Cal Date : 09-JUL-2010 18:38
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
09-JUL-2010 16:19	all	\\cansvr11\chem\WET\ic320.i\070910.b\0002.d
Cal Level: 2 , Cal Amount: 0.25000		
09-JUL-2010 16:37	all	\\cansvr11\chem\WET\ic320.i\070910.b\0003.d
Cal Level: 3 , Cal Amount: 0.50000		
09-JUL-2010 16:54	all	\\cansvr11\chem\WET\ic320.i\070910.b\0004.d
Cal Level: 4 , Cal Amount: 1.00000		
09-JUL-2010 17:11	all	\\cansvr11\chem\WET\ic320.i\070910.b\0005.d
Cal Level: 5 , Cal Amount: 2.50000		
09-JUL-2010 17:29	all	\\cansvr11\chem\WET\ic320.i\070910.b\0006.d
Cal Level: 6 , Cal Amount: 4.00000		
09-JUL-2010 17:46	all	\\cansvr11\chem\WET\ic320.i\070910.b\0007.d
Cal Level: 7 , Cal Amount: 5.00000		
09-JUL-2010 18:04	all	\\cansvr11\chem\WET\ic320.i\070910.b\0008.d
Cal Level: 8 , Cal Amount: 7.50000		

09-JUL-2010 18:21	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0009.d		

Cal Level: 9 , Cal Amount: 10.00000		
09-JUL-2010 18:38	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0010.d		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

10-JUL-2010 06:32	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0051.d		
10-JUL-2010 04:47	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0045.d		
10-JUL-2010 01:53	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0035.d		
09-JUL-2010 22:25	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0023.d		
09-JUL-2010 18:56	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0011.d		
09-JUL-2010 17:29	all	
\\cansvr11\chem\WET\ic320.i\070910.b\0006.d		

Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0002.d
Report Date: 12-Jul-2010 08:44

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0002.d
Lab Smp Id: IC0341
Inj Date : 09-JUL-2010 16:19
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0341
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

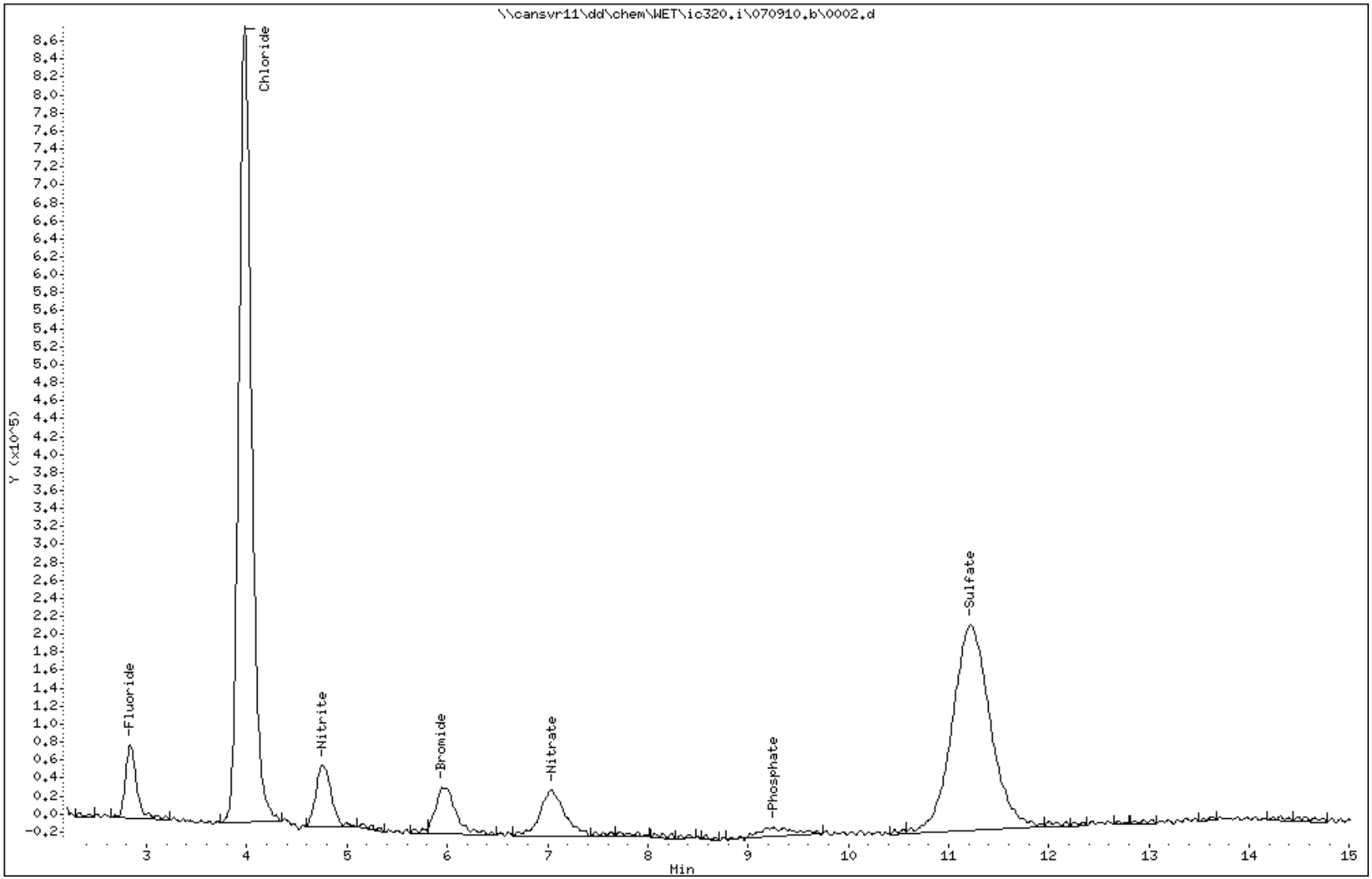
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.833	0.000	653165	0.05000	0.05077
2 Chloride	3.975	3.975	0.000	7953314	1.00000	0.7770(a)
3 Nitrite	4.758	4.758	0.000	738665	0.05000	0.04098(a)
4 Bromide	5.950	5.950	0.000	737031	0.20000	0.2020
5 Nitrate	7.041	7.041	0.000	885906	0.05000	0.04451(a)
6 Phosphate	9.258	9.258	0.000	10797	0.05000	0.06702(M)
7 Sulfate	11.225	11.225	0.000	6056140	1.00000	0.9069(a)

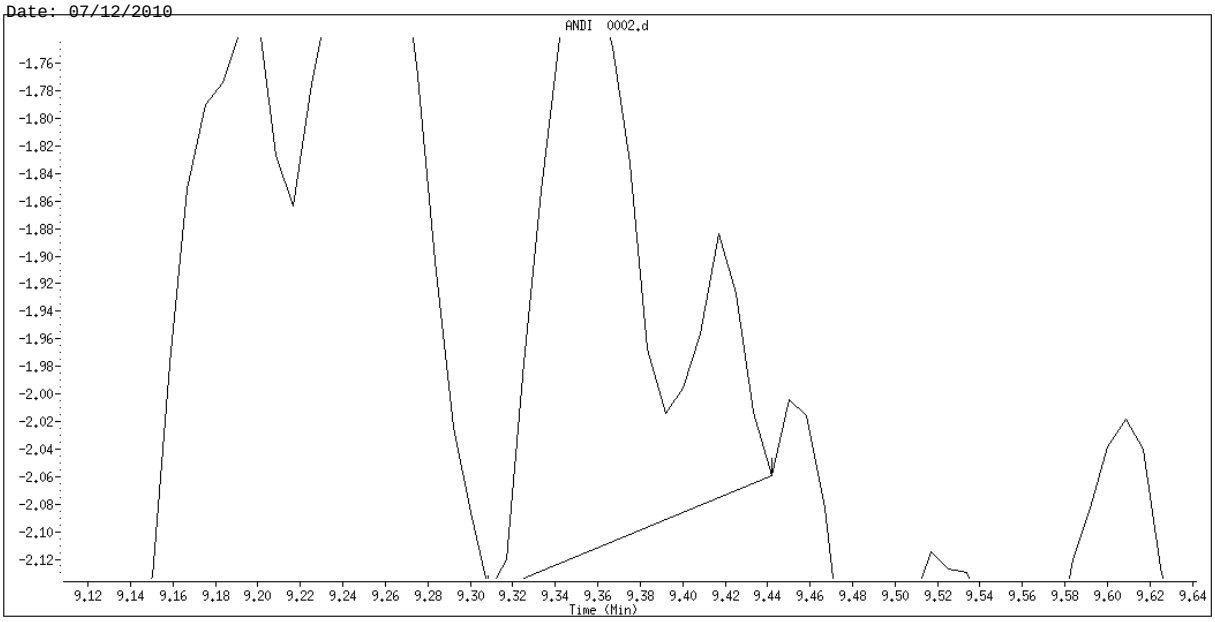
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

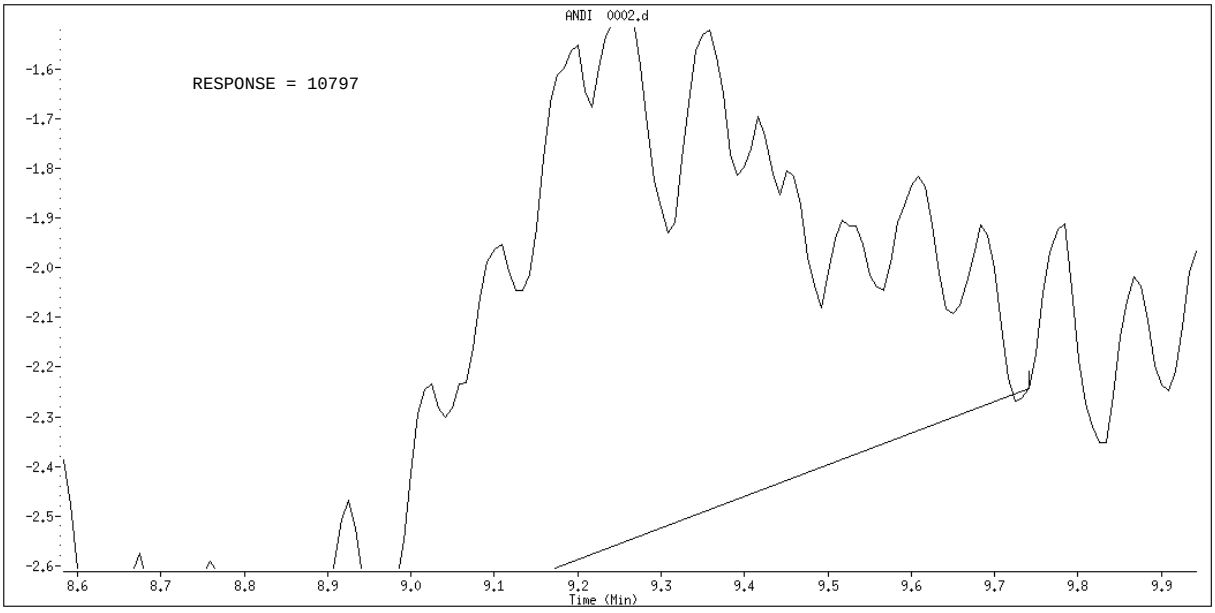
Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0002.d
Date : 09-JUL-2010 16:19
Client ID:
Instrument: ic320.i
Sample Info: IC0341
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0002.d
Inj. Date and Time: 09-JUL-2010 16:19
Instrument ID: ic320.i
Client ID:
Compound Name: Phosphate
CAS #: Q551
Report Date: 07/12/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0003.d
Report Date: 12-Jul-2010 08:40

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0003.d
Lab Smp Id: IC0340
Inj Date : 09-JUL-2010 16:37
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0340
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 16:37 Cal File: 0003.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

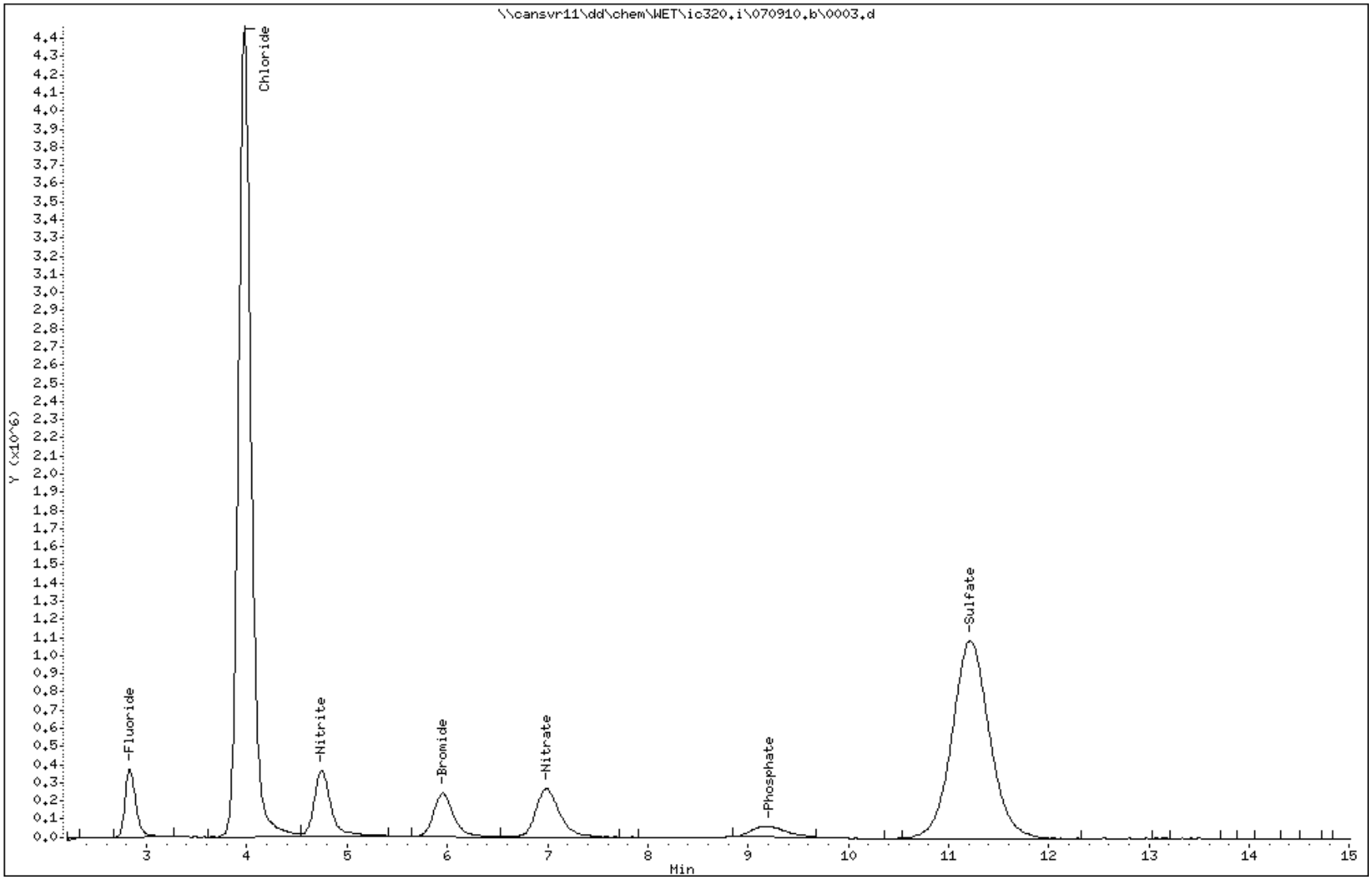
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
1 Fluoride	2.833	2.833	0.000	2890492	0.25000	0.2247
2 Chloride	3.975	3.975	0.000	40002264	5.00000	3.908
3 Nitrite	4.750	4.750	0.000	4301995	0.25000	0.2387
4 Bromide	5.958	5.958	0.000	3382477	1.00000	0.9272
5 Nitrate	6.991	6.991	0.000	4490751	0.25000	0.2256
6 Phosphate	9.216	9.216	0.000	59779	0.25000	0.2308(M)
7 Sulfate	11.216	11.216	0.000	28508116	5.00000	4.269

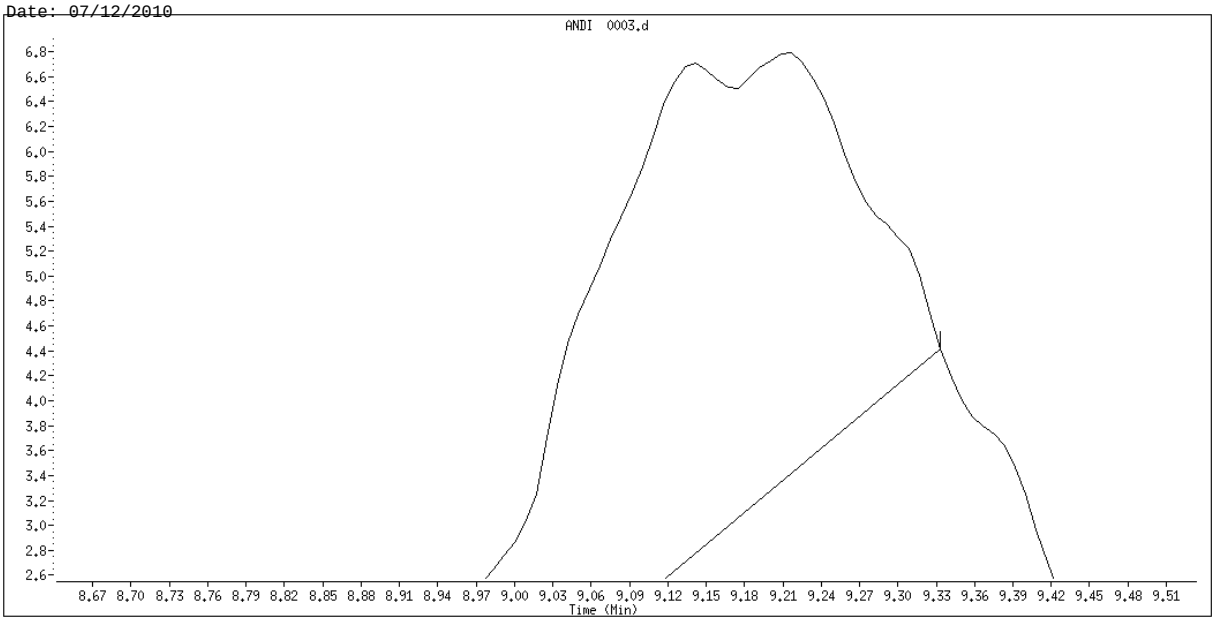
QC Flag Legend

M - Compound response manually integrated.

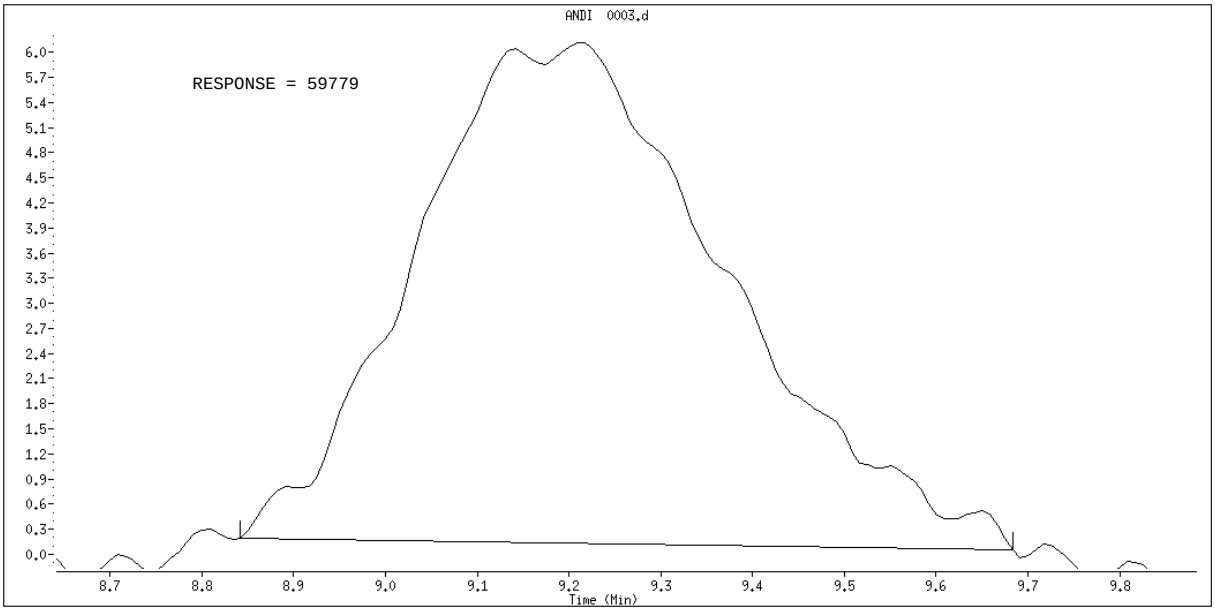
Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0003.d
Date : 09-JUL-2010 16:37
Client ID:
Instrument: ic320.i
Sample Info: IC0340
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0003.d
Inj. Date and Time: 09-JUL-2010 16:37
Instrument ID: ic320.i
Client ID:
Compound Name: Phosphate
CAS #: Q551
Report Date: 07/12/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0004.d
Report Date: 12-Jul-2010 08:38

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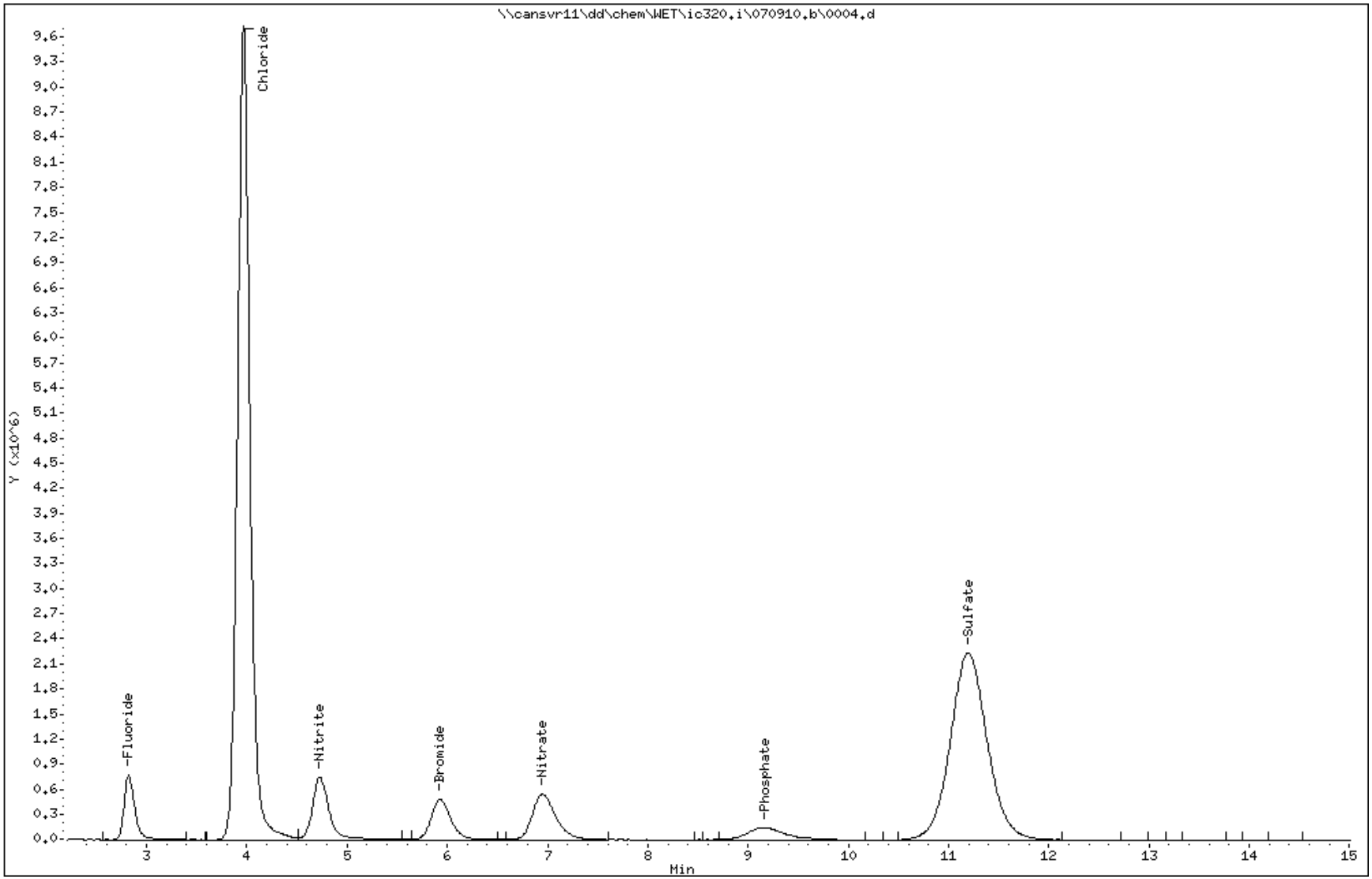
Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0004.d
Lab Smp Id: IC0339
Inj Date : 09-JUL-2010 16:54
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0339
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 16:54 Cal File: 0004.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.825	2.825	0.000	5987218	0.50000	0.4908
2 Chloride	3.966	3.966	0.000	84971314	10.0000	10.42
3 Nitrite	4.725	4.725	0.000	8846205	0.50000	0.5342
4 Bromide	5.933	5.933	0.000	6754020	2.00000	1.940
5 Nitrate	6.950	6.950	0.000	8998700	0.50000	0.5029
6 Phosphate	9.175	9.175	0.000	150826	0.50000	0.5000
7 Sulfate	11.200	11.200	0.000	57434998	10.0000	9.845

Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0004.d
Date : 09-JUL-2010 16:54
Client ID:
Instrument: ic320.i
Sample Info: IC0339
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0005.d
Report Date: 12-Jul-2010 08:38

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0005.d
Lab Smp Id: IC0338
Inj Date : 09-JUL-2010 17:11
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0338
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 17:11 Cal File: 0005.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

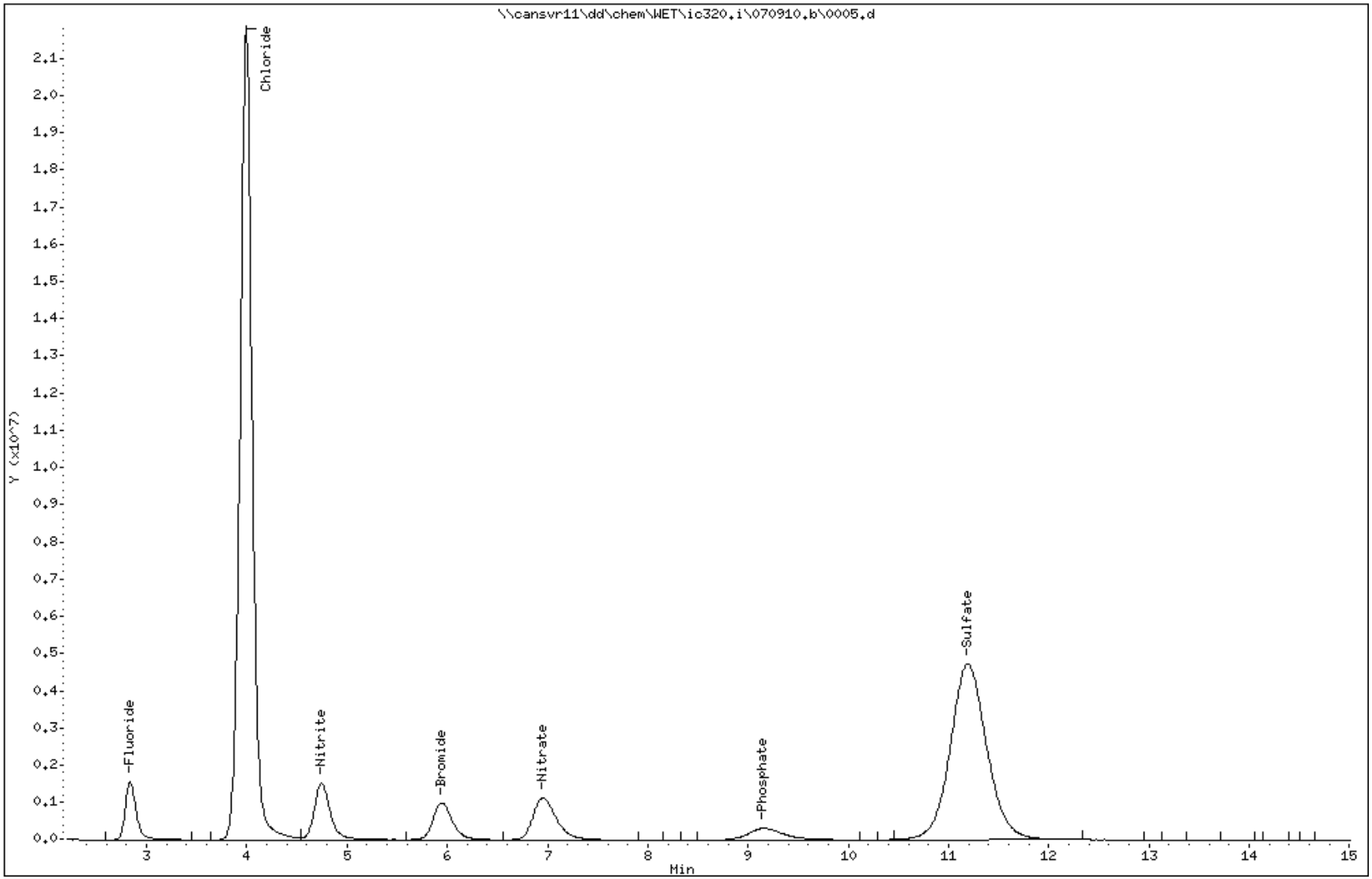
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.833	0.000	12049535	1.00000	0.9907
2 Chloride	3.991	3.991	0.000	187609498	20.0000	22.18
3 Nitrite	4.741	4.741	0.000	17412656	1.00000	1.038
4 Bromide	5.941	5.941	0.000	13454569	4.00000	3.898
5 Nitrate	6.958	6.958	0.000	18650579	1.00000	1.031
6 Phosphate	9.150	9.150	0.000	313794	1.00000	0.9954
7 Sulfate	11.191	11.191	0.000	119857463	20.0000	20.41

Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0005.d
Date : 09-JUL-2010 17:11
Client ID:
Sample Info: IC0338
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0006.d
Report Date: 12-Jul-2010 08:38

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ION CHROMATOGRAPHY

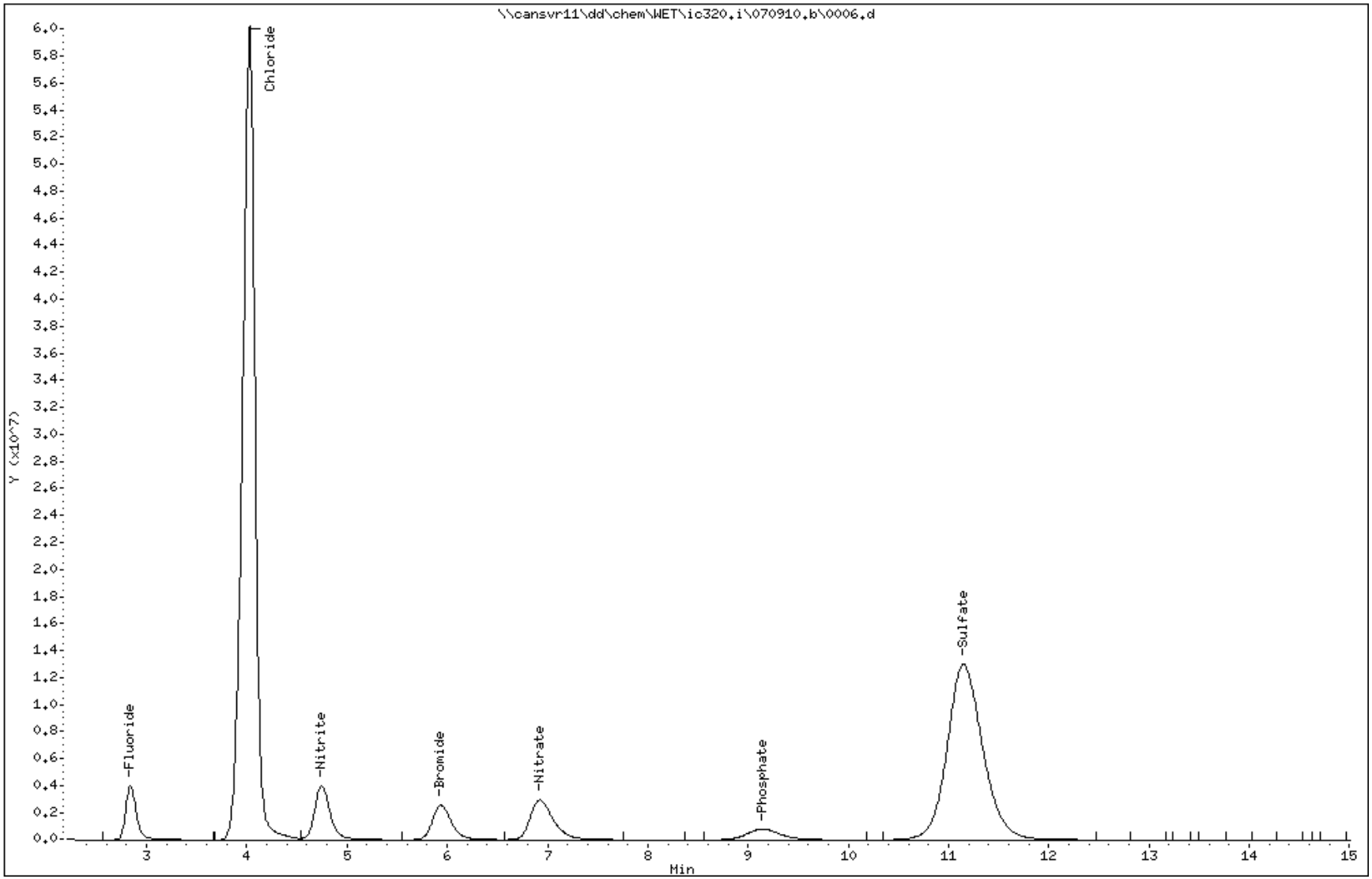
Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0006.d
Lab Smp Id: IC0337
Inj Date : 09-JUL-2010 17:29
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0337
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 17:29 Cal File: 0006.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.841	2.841	0.000	31500860	2.50000	2.572
2 Chloride	4.033	4.033	0.000	530104785	50.0000	59.65
3 Nitrite	4.750	4.750	0.000	45501923	2.50000	2.668
4 Bromide	5.933	5.933	0.000	35178130	10.0000	10.15
5 Nitrate	6.925	6.925	0.000	48220969	2.50000	2.632
6 Phosphate	9.141	9.141	0.000	800074	2.50000	2.500
7 Sulfate	11.150	11.150	0.000	322083852	50.0000	53.80

Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0006.d
Date : 09-JUL-2010 17:29
Client ID:
Instrument: ic320.i
Sample Info: IC0337
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0007.d
Report Date: 12-Jul-2010 08:38

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0007.d
Lab Smp Id: IC0036
Inj Date : 09-JUL-2010 17:46
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0036
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 17:46 Cal File: 0007.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

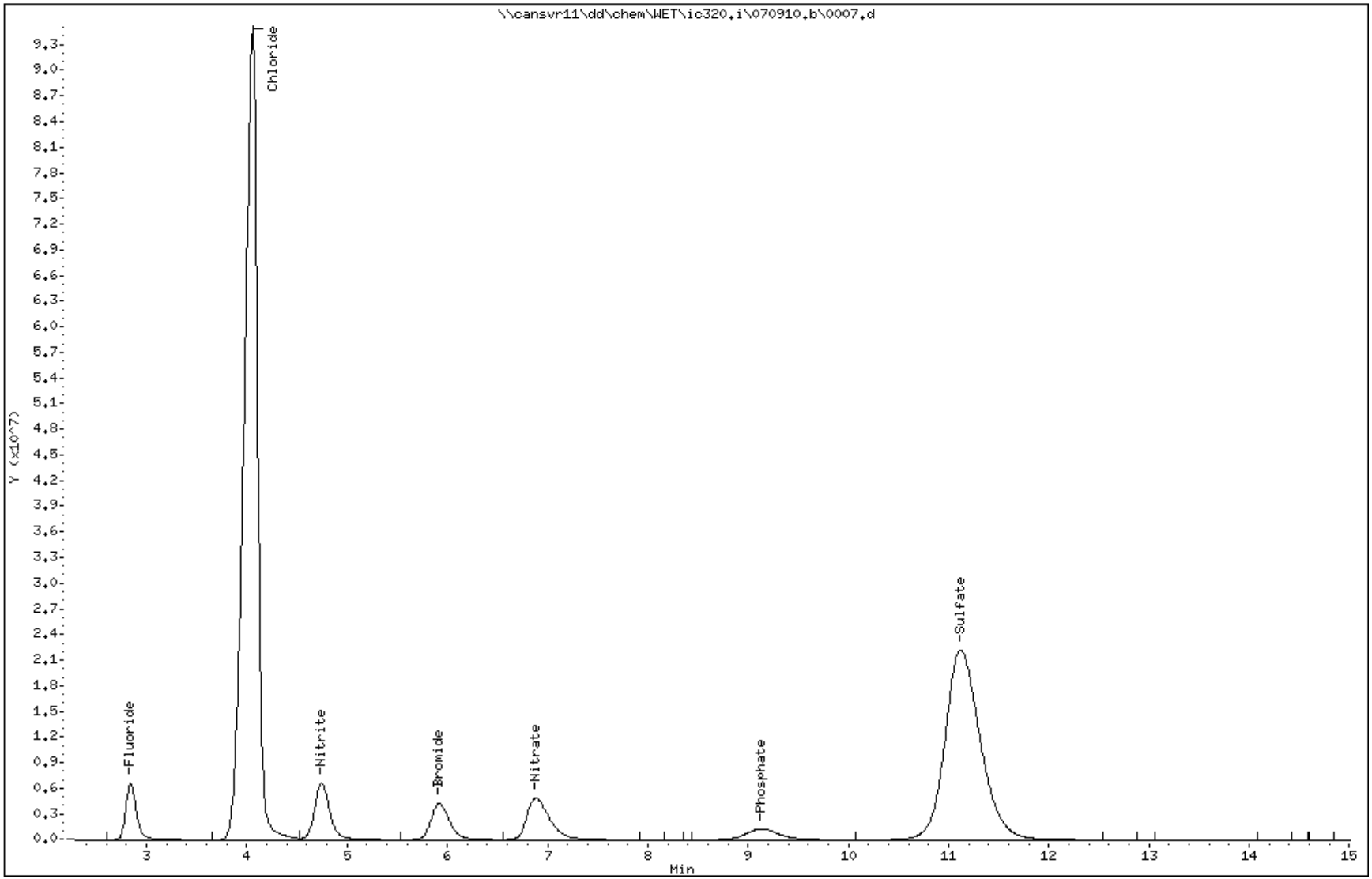
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.841	2.841	0.000	51310360	4.00000	4.156
2 Chloride	4.058	4.058	0.000	890523357	80.0000	96.16
3 Nitrite	4.741	4.741	0.000	74263429	4.00000	4.290
4 Bromide	5.916	5.916	0.000	57598287	16.0000	16.51
5 Nitrate	6.883	6.883	0.000	80061134	4.00000	4.303
6 Phosphate	9.133	9.133	0.000	1299706	4.00000	4.005
7 Sulfate	11.125	11.125	0.000	546671342	80.0000	89.20

Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0007.d
Date : 09-JUL-2010 17:46
Client ID:
Sample Info: IC0036
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0008.d
Report Date: 12-Jul-2010 08:38

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0008.d
Lab Smp Id: IC0335
Inj Date : 09-JUL-2010 18:04
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0335
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 18:04 Cal File: 0008.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

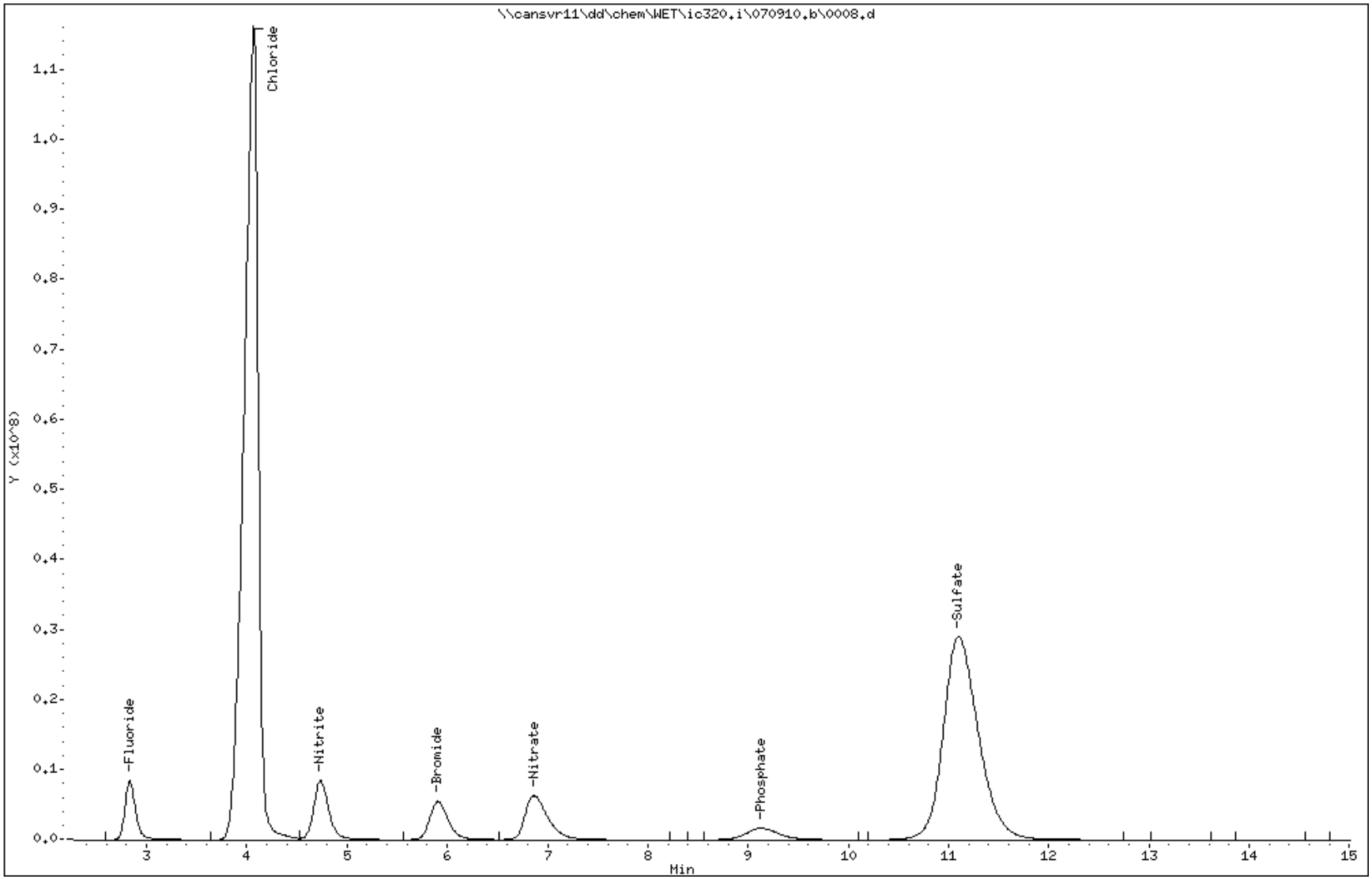
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.833	0.000	65441140	5.00000	5.255
2 Chloride	4.066	4.066	0.000	1149700855	100.000	120.0
3 Nitrite	4.733	4.733	0.000	94767597	5.00000	5.402
4 Bromide	5.908	5.908	0.000	74676762	20.0000	21.20
5 Nitrate	6.866	6.866	0.000	105354641	5.00000	5.557
6 Phosphate	9.133	9.133	0.000	1684064	5.00000	5.026
7 Sulfate	11.100	11.100	0.000	712508924	100.000	113.6

Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0008.d
Date : 09-JUL-2010 18:04
Client ID:
Sample Info: IC0335
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0009.d
Report Date: 12-Jul-2010 08:38

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0009.d
Lab Smp Id: IC0334
Inj Date : 09-JUL-2010 18:21
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0334
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 18:21 Cal File: 0009.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

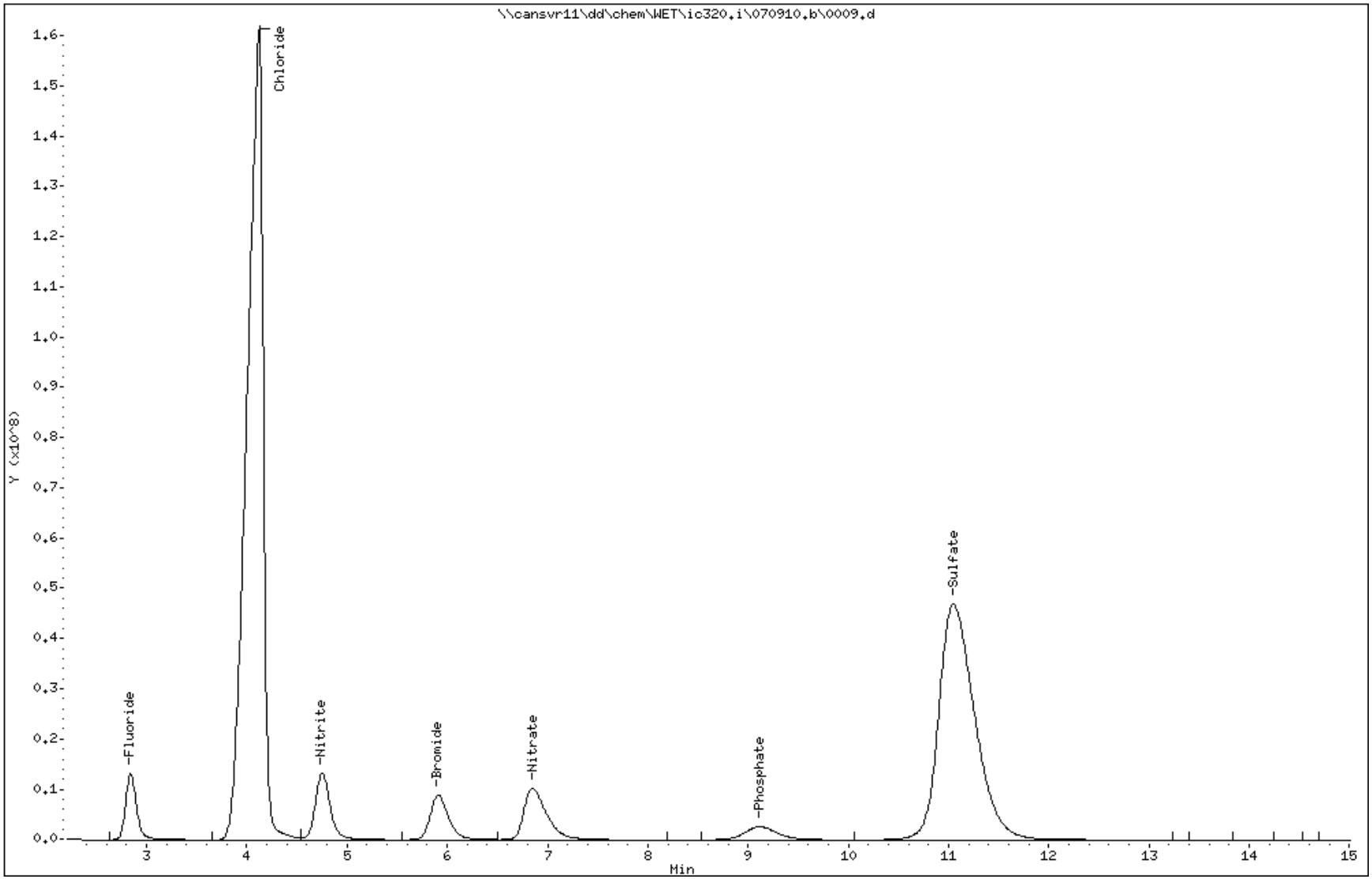
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.841	2.841	0.000	104356731	7.50000	8.259
2 Chloride	4.125	4.125	0.000	1830430340	150.000	184.7
3 Nitrite	4.750	4.750	0.000	146060221	7.50000	8.212
4 Bromide	5.908	5.908	0.000	118898938	30.0000	33.23
5 Nitrate	6.850	6.850	0.000	169166854	7.50000	8.717
6 Phosphate	9.116	9.116	0.000	2662680	7.50000	7.504
7 Sulfate	11.050	11.050	0.000	1174667492	150.000	181.7

Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0009.d
Date : 09-JUL-2010 18:21
Client ID:
Sample Info: IC0334
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\070910.b\0010.d
Report Date: 12-Jul-2010 08:38

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\070910.b\0010.d
Lab Smp Id: IC0333
Inj Date : 09-JUL-2010 18:38
Operator : 001754 Inst ID: ic320.i
Smp Info : IC0333
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\070910.b\DX320.m
Meth Date : 12-Jul-2010 08:38 wetchemnc Quant Type: ESTD
Cal Date : 09-JUL-2010 18:38 Cal File: 0010.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

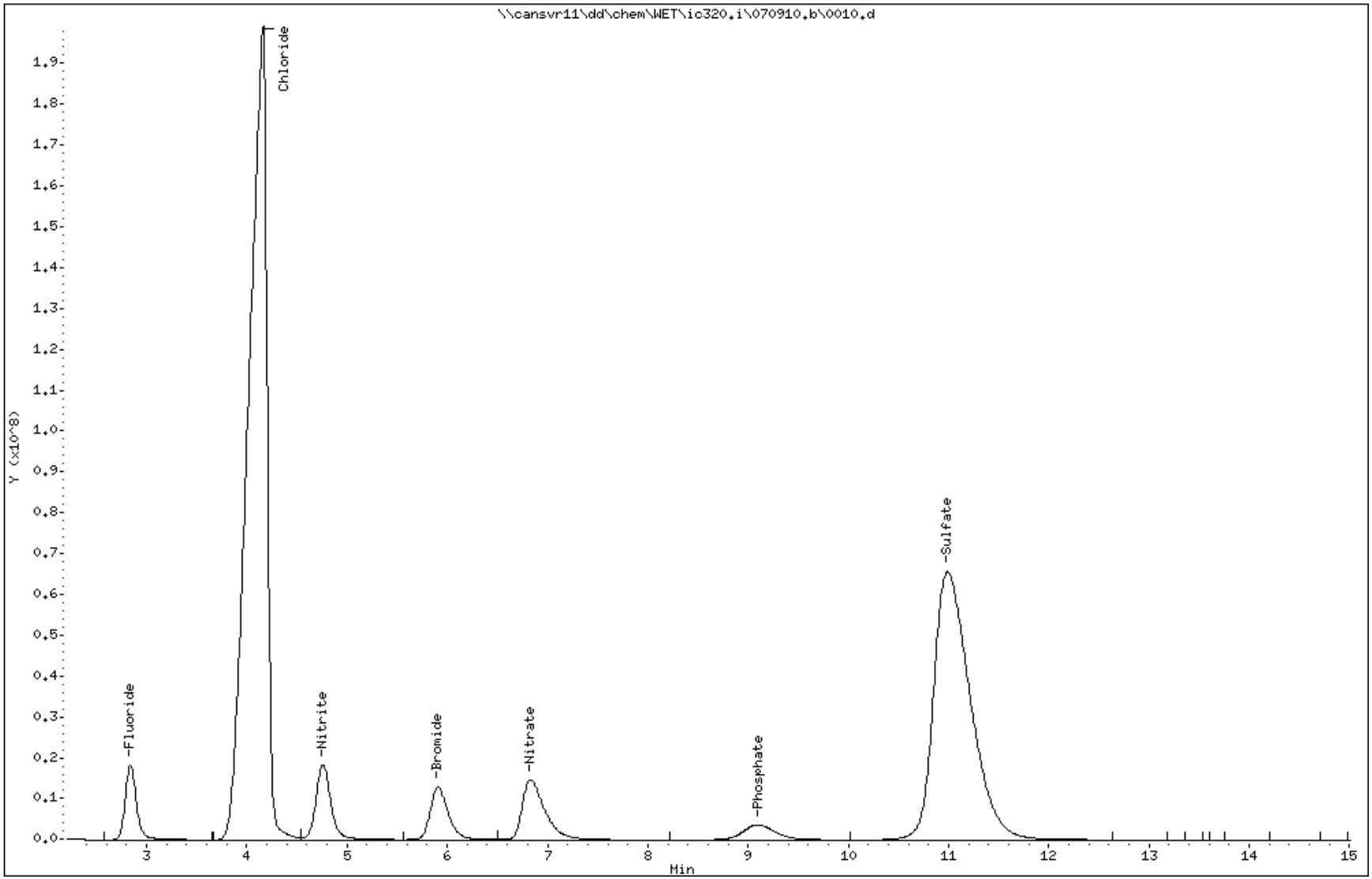
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.841	2.841	0.000	147012131	10.0000	11.43(A)
2 Chloride	4.166	4.166	0.000	2572783951	200.000	251.3(A)
3 Nitrite	4.758	4.758	0.000	199413806	10.0000	11.06(A)
4 Bromide	5.908	5.908	0.000	168441229	40.0000	46.17(A)
5 Nitrate	6.833	6.833	0.000	238574359	10.0000	11.99(A)
6 Phosphate	9.100	9.100	0.000	3725624	10.0000	9.989
7 Sulfate	10.991	10.991	0.000	1674982476	200.000	250.8(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic320.i\070910.b\0010.d
Date : 09-JUL-2010 18:38
Client ID:
Sample Info: IC0333
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0001.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0001.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 14:44
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 12-Jul-2010 08:45 Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

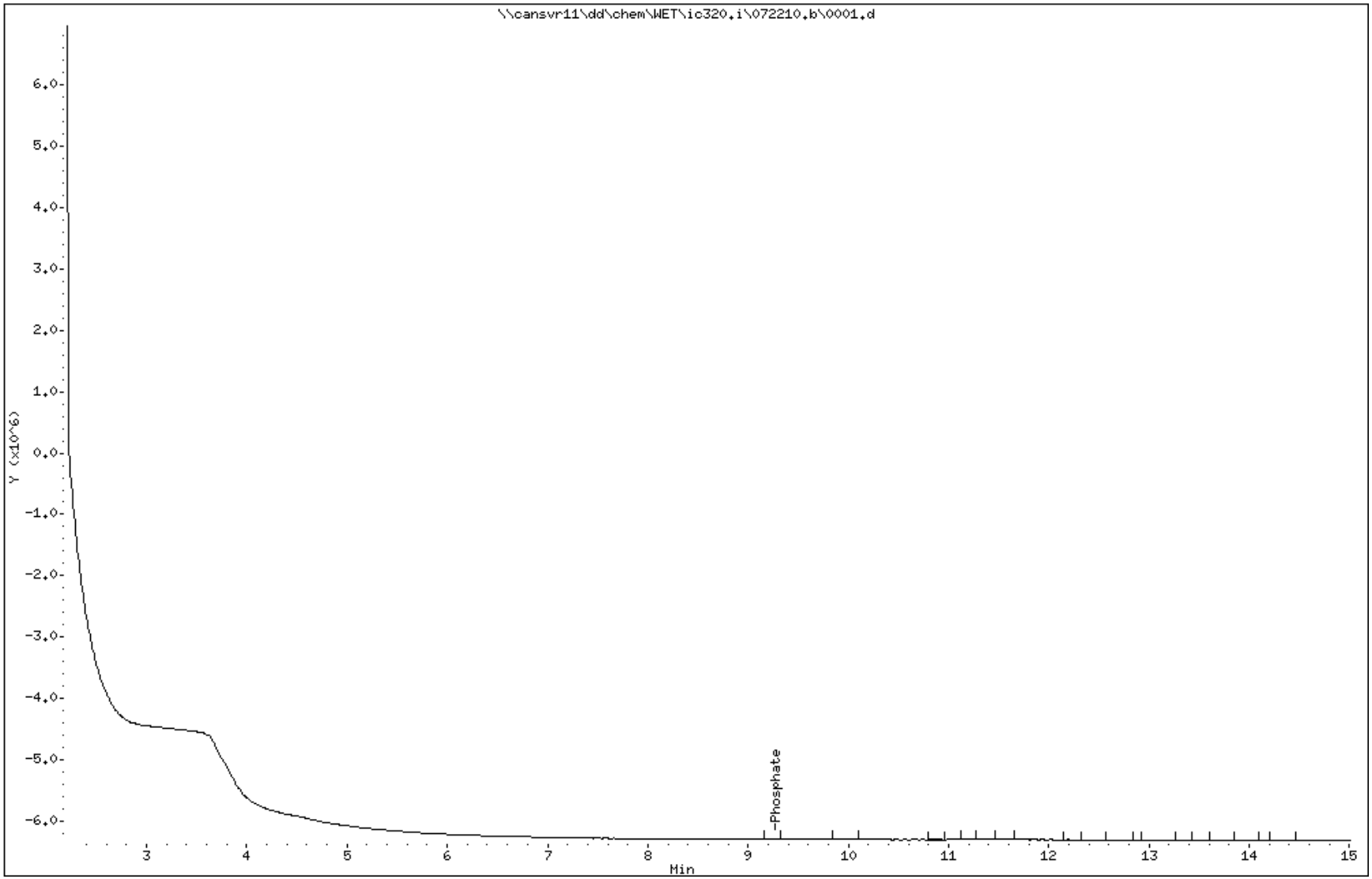
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.283	9.258	0.025	3786	0.04465	0.04465(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0001.d
Date : 22-JUL-2010 14:44
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0002.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0002.d
Lab Smp Id: RINSE
Inj Date : 22-JUL-2010 15:02
Operator : 001754 Inst ID: ic320.i
Smp Info : RINSE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 12-Jul-2010 08:45 Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

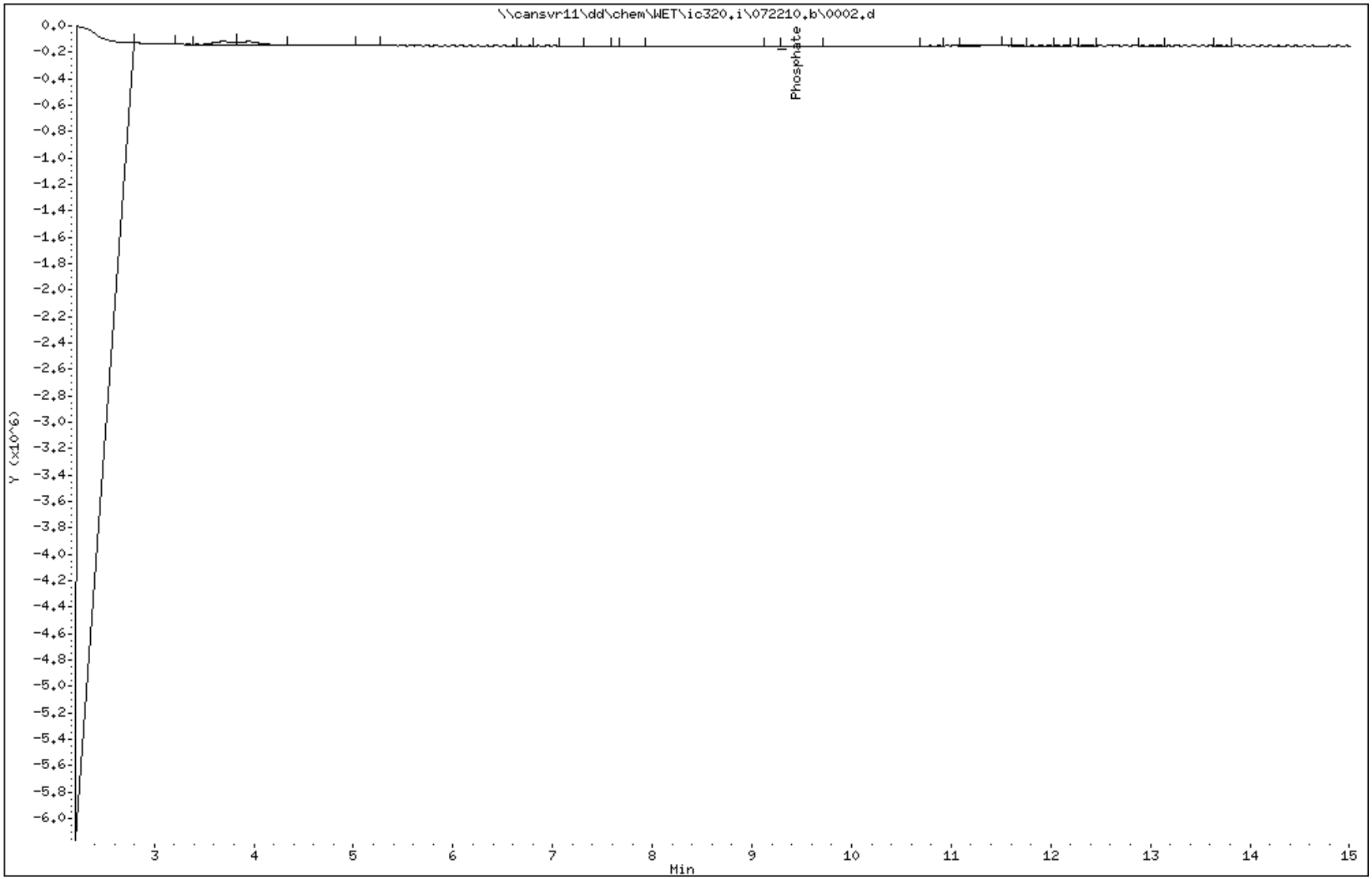
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.250	9.258	-0.008	4073	0.04557	0.04556(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0002.d
Date : 22-JUL-2010 15:02
Client ID:
Instrument: ic320.i
Sample Info: RINSE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0003.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic320.i Injection Date: 22-JUL-2010 15:19
Lab File ID: 0003.d Init. Cal. Date(s): 09-JUL-2010 09-JUL-2010
Analysis Type: WATER Init. Cal. Times: 16:19 18:38
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Fluoride	12864538	14408861	14408861	0.010	-12.00450	10.00000	Averaged	<-
2 Chloride	10236534	10690528	10690528	0.010	-4.43504	10.00000	Averaged	
3 Nitrite	18024730	18986530	18986530	0.010	-5.33600	10.00000	Averaged	
4 Bromide	3648240	3709109	3709109	0.010	-1.66845	10.00000	Averaged	
5 Nitrate	19901858	19920356	19920356	0.010	-0.09295	10.00000	Averaged	
6 Phosphate	2.50000	2.25356	287325	0.010	9.85767	10.00000	Quadratic	
7 Sulfate	6677814	6459253	6459253	0.010	3.27294	10.00000	Averaged	

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0003.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0003.d
Lab Smp Id: CCV
Inj Date : 22-JUL-2010 15:19
Operator : 001754 Inst ID: ic320.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

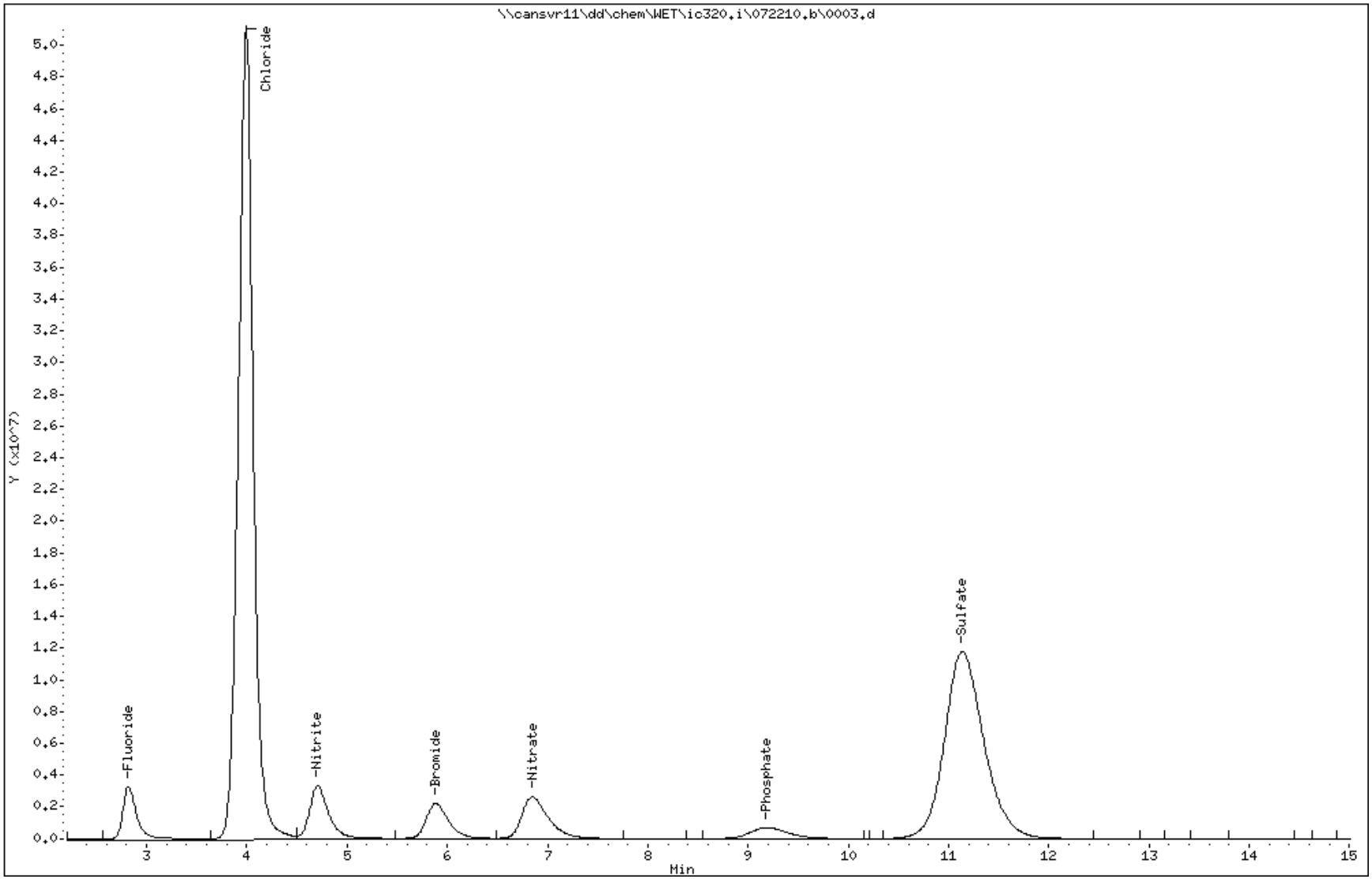
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.816	2.816	0.000	36022153	2.50000	2.800
2 Chloride	3.991	3.991	0.000	534526413	50.0000	52.22
3 Nitrite	4.708	4.708	0.000	47466324	2.50000	2.633
4 Bromide	5.883	5.883	0.000	37091086	10.0000	10.17
5 Nitrate	6.850	6.850	0.000	49800889	2.50000	2.502
6 Phosphate	9.191	9.191	0.000	718312	2.50000	2.254
7 Sulfate	11.133	11.133	0.000	322962651	50.0000	48.36

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0003.d
Date : 22-JUL-2010 15:19
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0004.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0004.d
Lab Smp Id: CCB
Inj Date : 22-JUL-2010 15:37
Operator : 001754 Inst ID: ic320.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

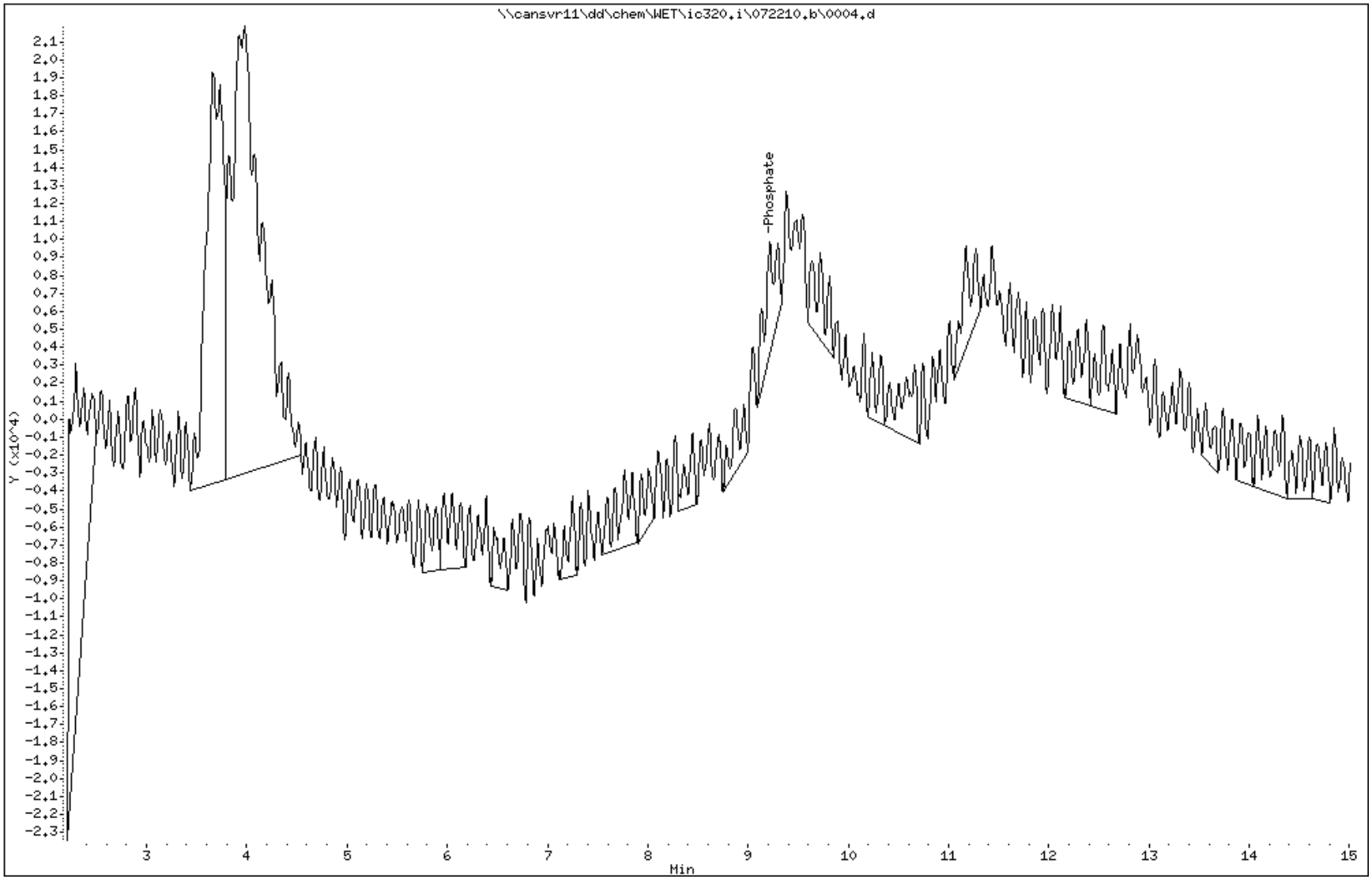
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.216	9.191	0.025	6203	0.05236	0.05236
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0004.d
Date : 22-JUL-2010 15:37
Client ID:
Sample Info: CCB
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0005.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0005.d
Lab Smp Id: LCS
Inj Date : 22-JUL-2010 15:54
Operator : 001754 Inst ID: ic320.i
Smp Info : LCS,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

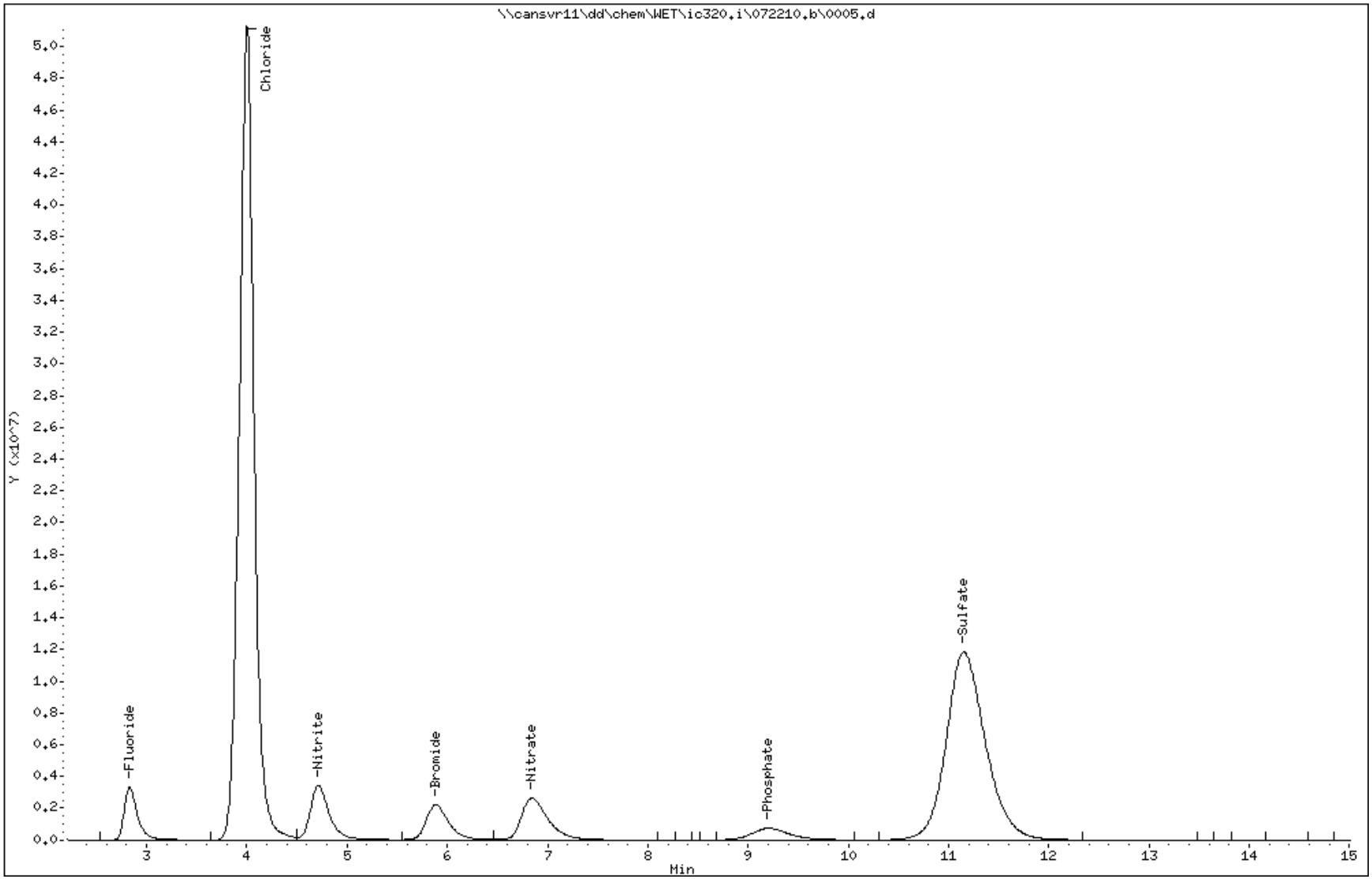
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.816	0.017	31468601	2.44615	2.446
2 Chloride	4.000	3.991	0.009	530605127	51.8345	51.83
3 Nitrite	4.716	4.708	0.008	47033489	2.60939	2.609
4 Bromide	5.883	5.883	0.000	35950173	9.85411	9.854
5 Nitrate	6.841	6.850	-0.009	50046599	2.51467	2.515
6 Phosphate	9.200	9.191	0.009	726073	2.27677	2.277
7 Sulfate	11.150	11.133	0.017	322593136	48.3082	48.31

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0005.d
Date : 22-JUL-2010 15:54
Client ID:
Sample Info: LCS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0006.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0006.d
Lab Smp Id: LCS DUP
Inj Date : 22-JUL-2010 16:11
Operator : 001754 Inst ID: ic320.i
Smp Info : LCS DUP,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

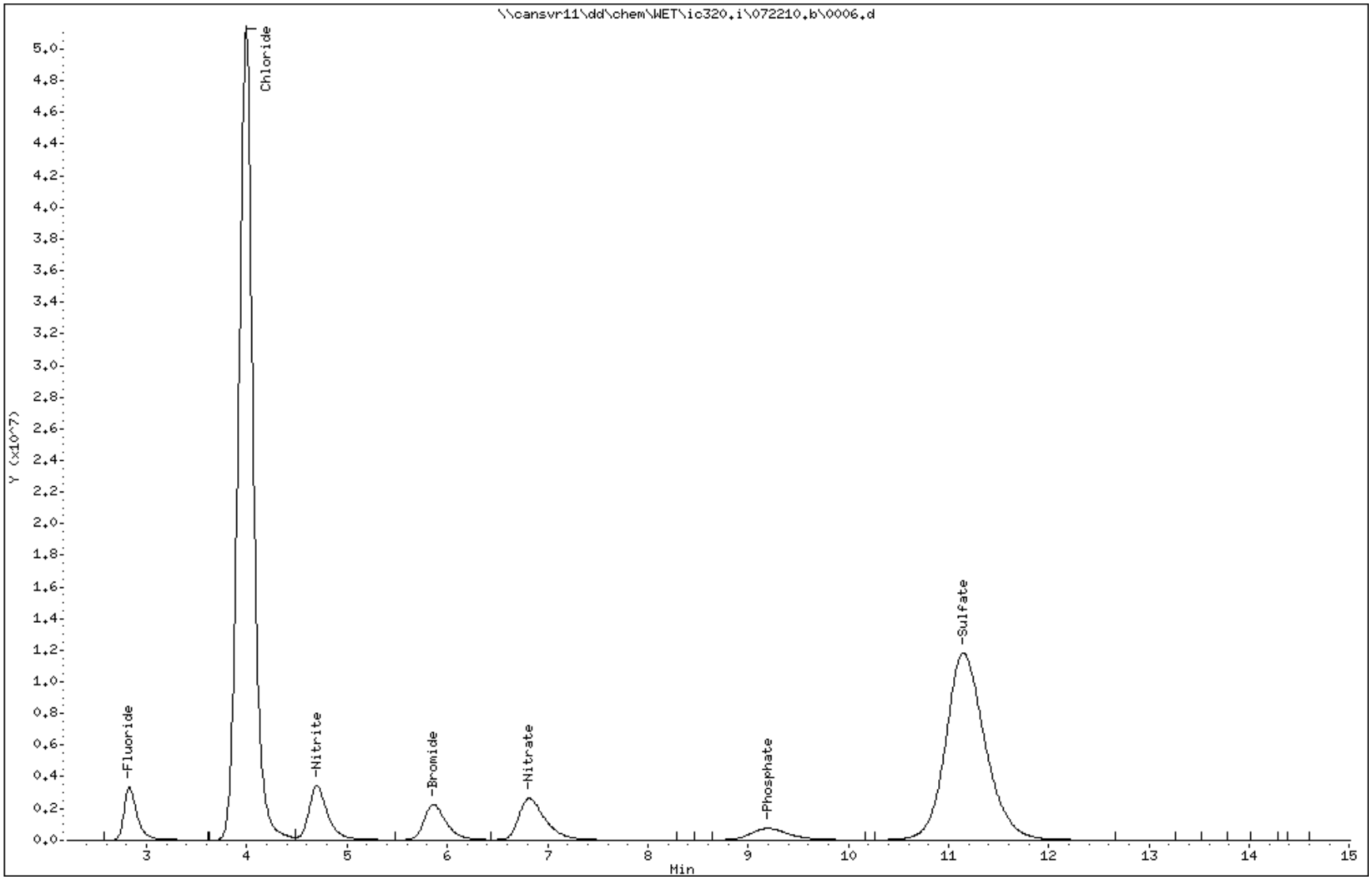
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.825	2.816	0.009	31299540	2.43301	2.433
2 Chloride	3.991	3.991	0.000	526940309	51.4764	51.48
3 Nitrite	4.700	4.708	-0.008	46555198	2.58285	2.583
4 Bromide	5.858	5.883	-0.025	35678752	9.77972	9.780
5 Nitrate	6.816	6.850	-0.034	49947547	2.50969	2.510
6 Phosphate	9.200	9.191	0.009	742636	2.32624	2.326
7 Sulfate	11.150	11.133	0.017	324923924	48.6572	48.66

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0006.d
Date : 22-JUL-2010 16:11
Client ID:
Sample Info: LCS DUP,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0007.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

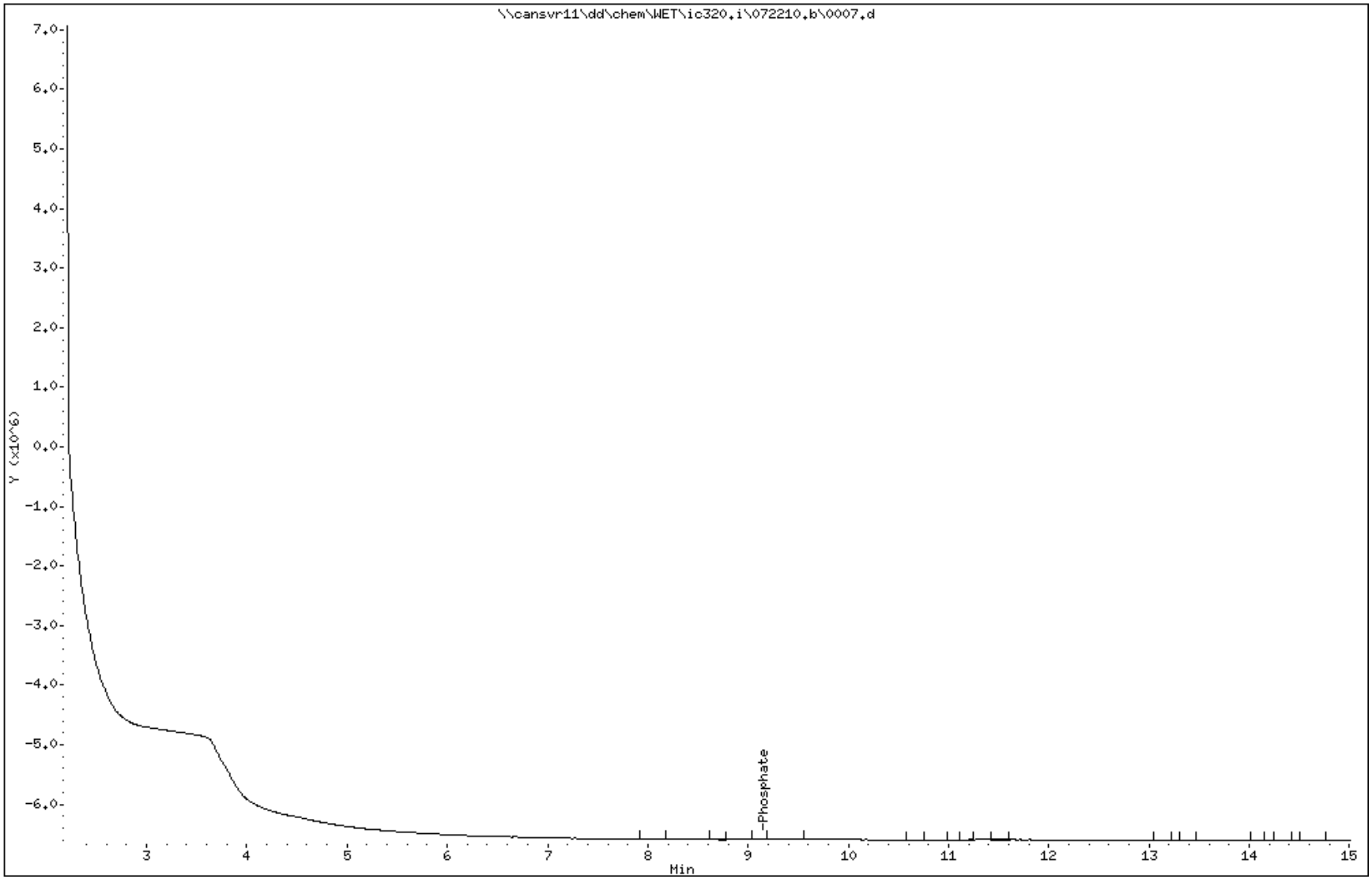
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0007.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 16:29
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.166	9.191	-0.025	6159	0.05222	0.05222
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0007.d
Date : 22-JUL-2010 16:29
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0008.d
Report Date: 23-Jul-2010 11:59

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0008.d
Lab Smp Id: L4G3W
Inj Date : 22-JUL-2010 16:46
Operator : 001754 Inst ID: ic320.i
Smp Info : L4G3W
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

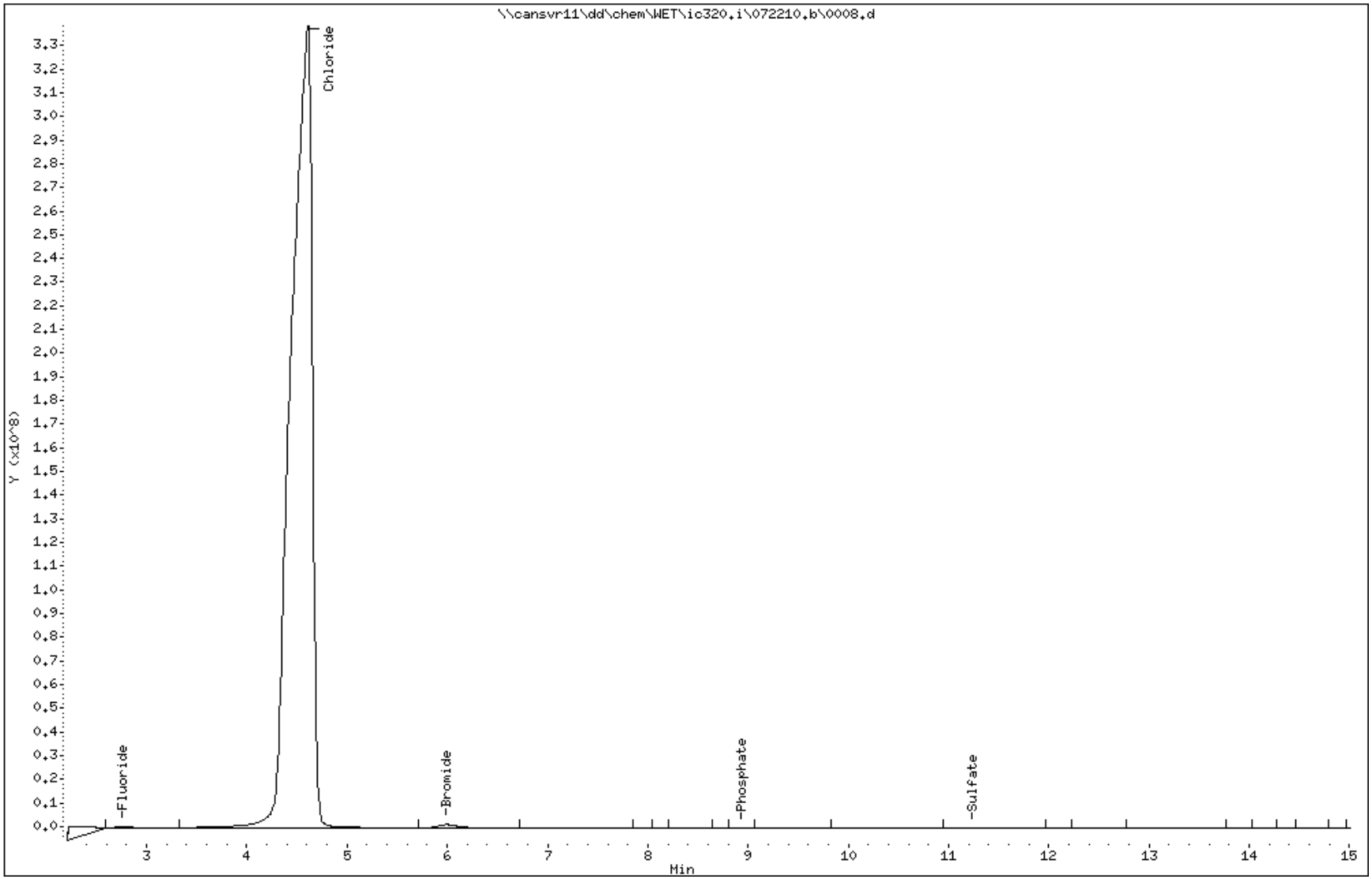
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.766	2.816	-0.050	3893617	0.30266	0.3027(M)
2 Chloride	4.616	4.000	0.616	4947920316	483.359	483.4(AM)
3 Nitrite	Compound Not Detected.					
4 Bromide	6.000	5.858	0.142	15395648	4.22002	4.220(M)
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.941	9.150	-0.209	4882	0.04815	0.04815(a)
7 Sulfate	11.241	11.083	0.158	2040145	0.30551	0.3055(a)

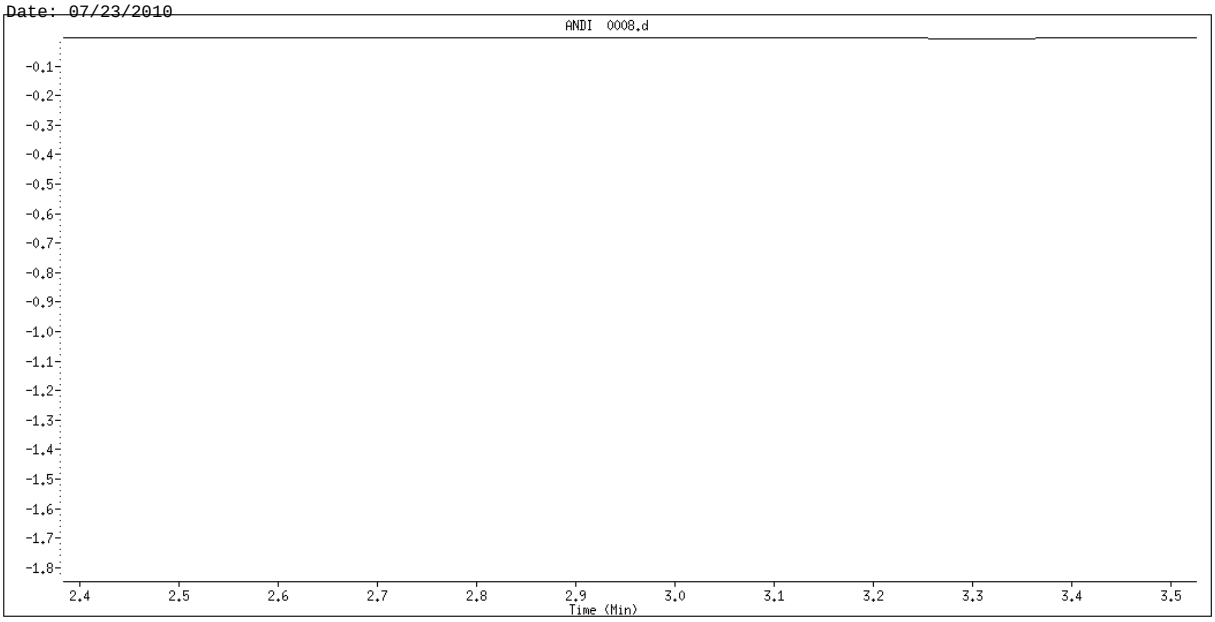
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

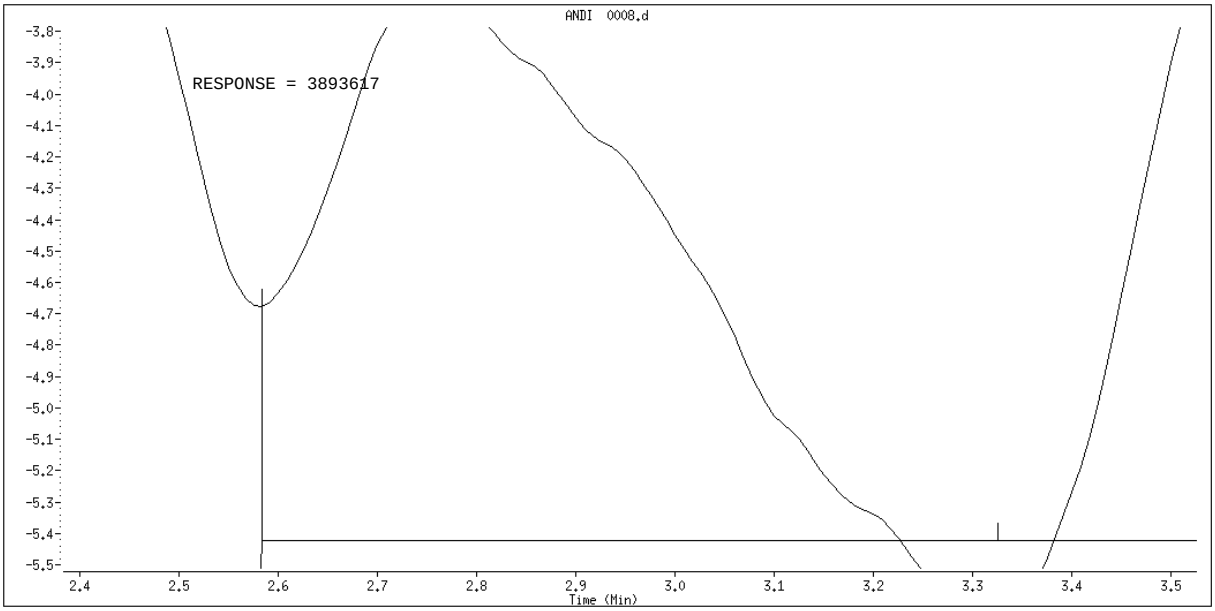
Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0008.d
Date : 22-JUL-2010 16:46
Client ID:
Instrument: ic320.i
Sample Info: L4G3W
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0008.d
Inj. Date and Time: 22-JUL-2010 16:46
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



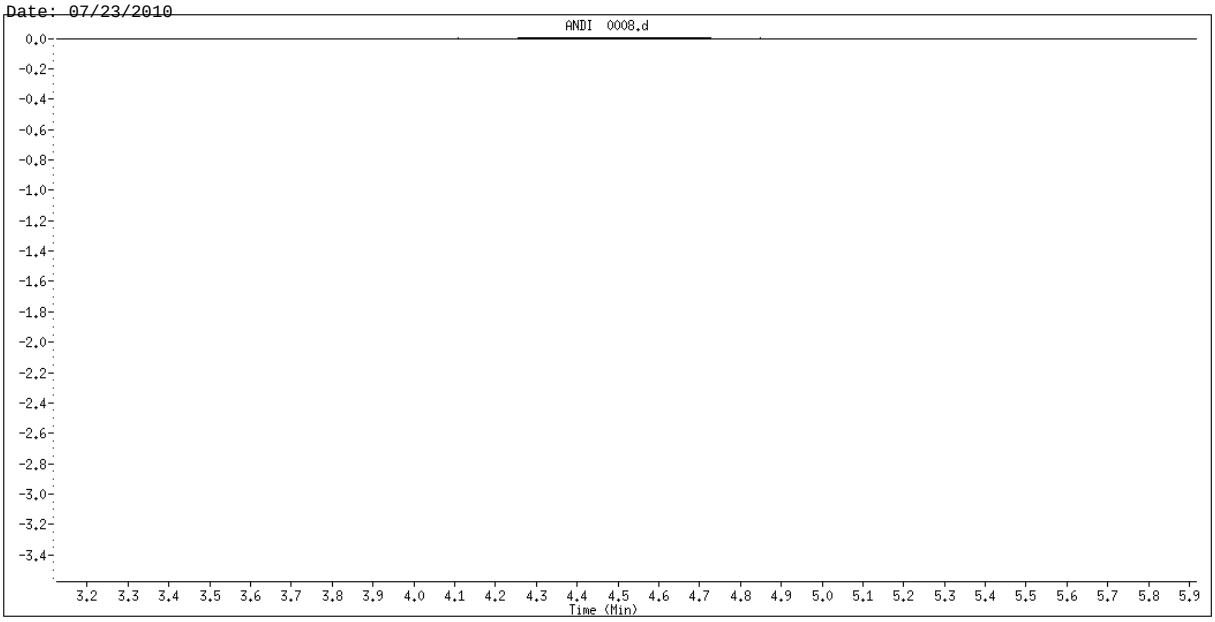
Original Integration



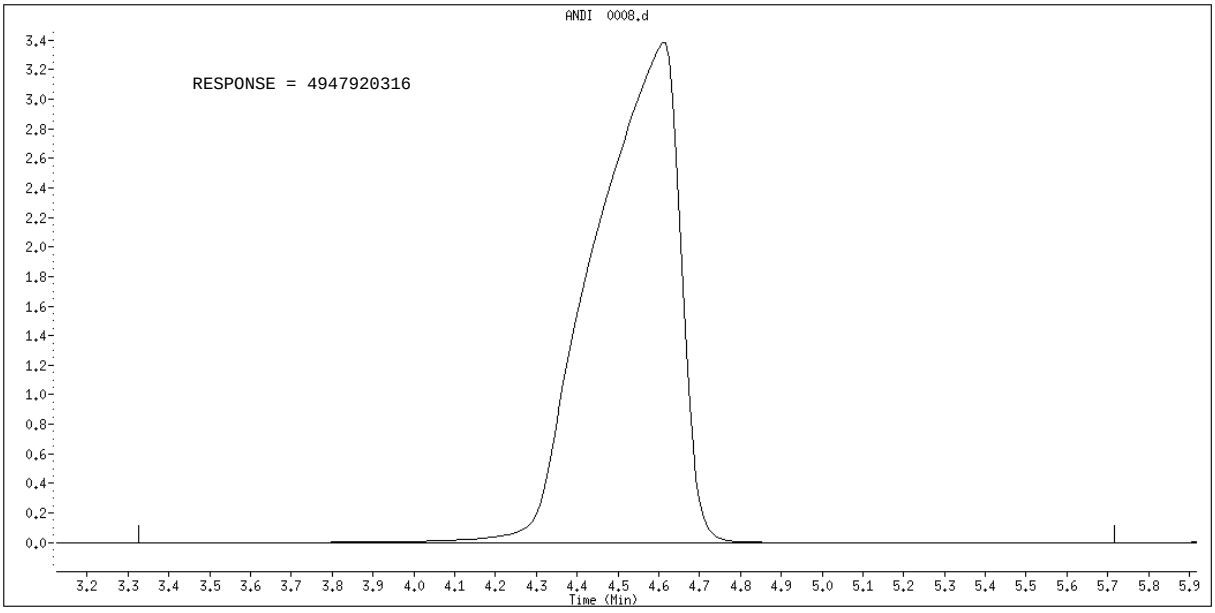
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0008.d
Inj. Date and Time: 22-JUL-2010 16:46
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



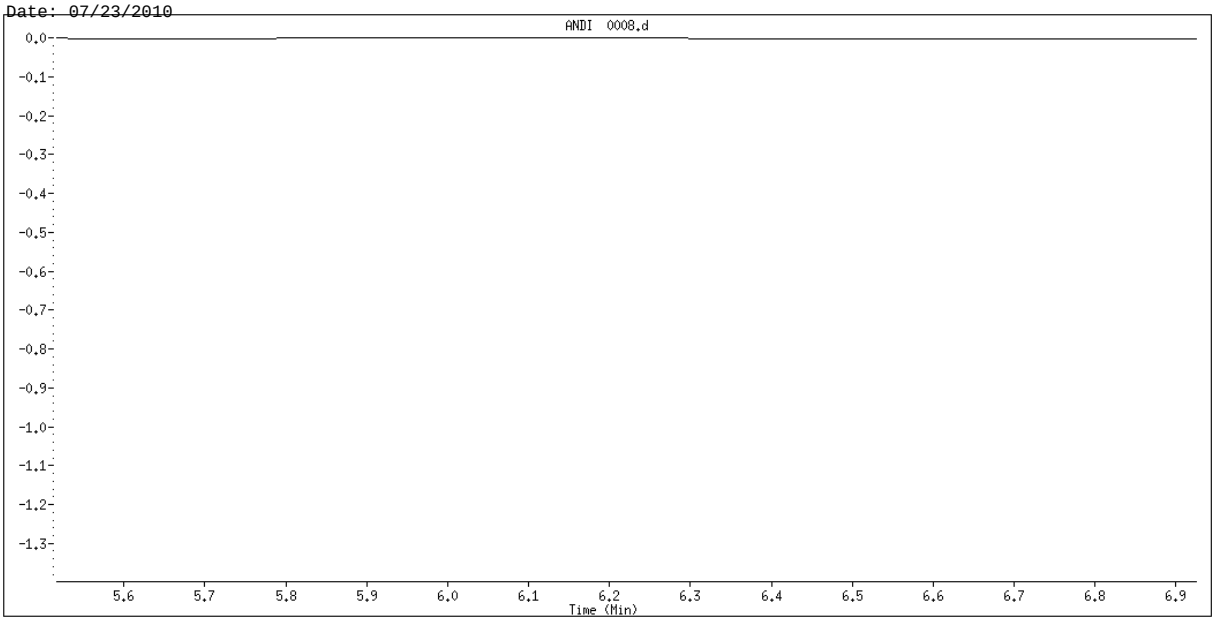
Original Integration



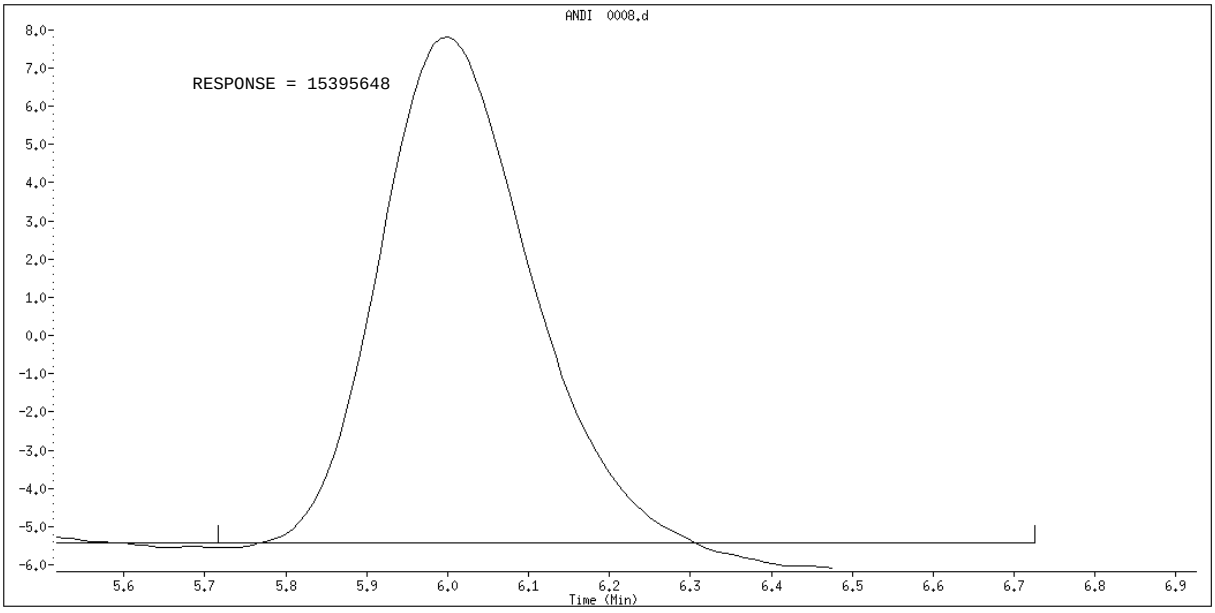
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File Name: 0008.d
Inj. Date and Time: 22-JUL-2010 16:46
Instrument ID: ic320.i
Client ID:
Compound Name: Bromide
CAS #: Q85
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0009.d
Report Date: 23-Jul-2010 11:59

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0009.d
Lab Smp Id: L4G3X
Inj Date : 22-JUL-2010 17:04
Operator : 001754 Inst ID: ic320.i
Smp Info : L4G3X
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

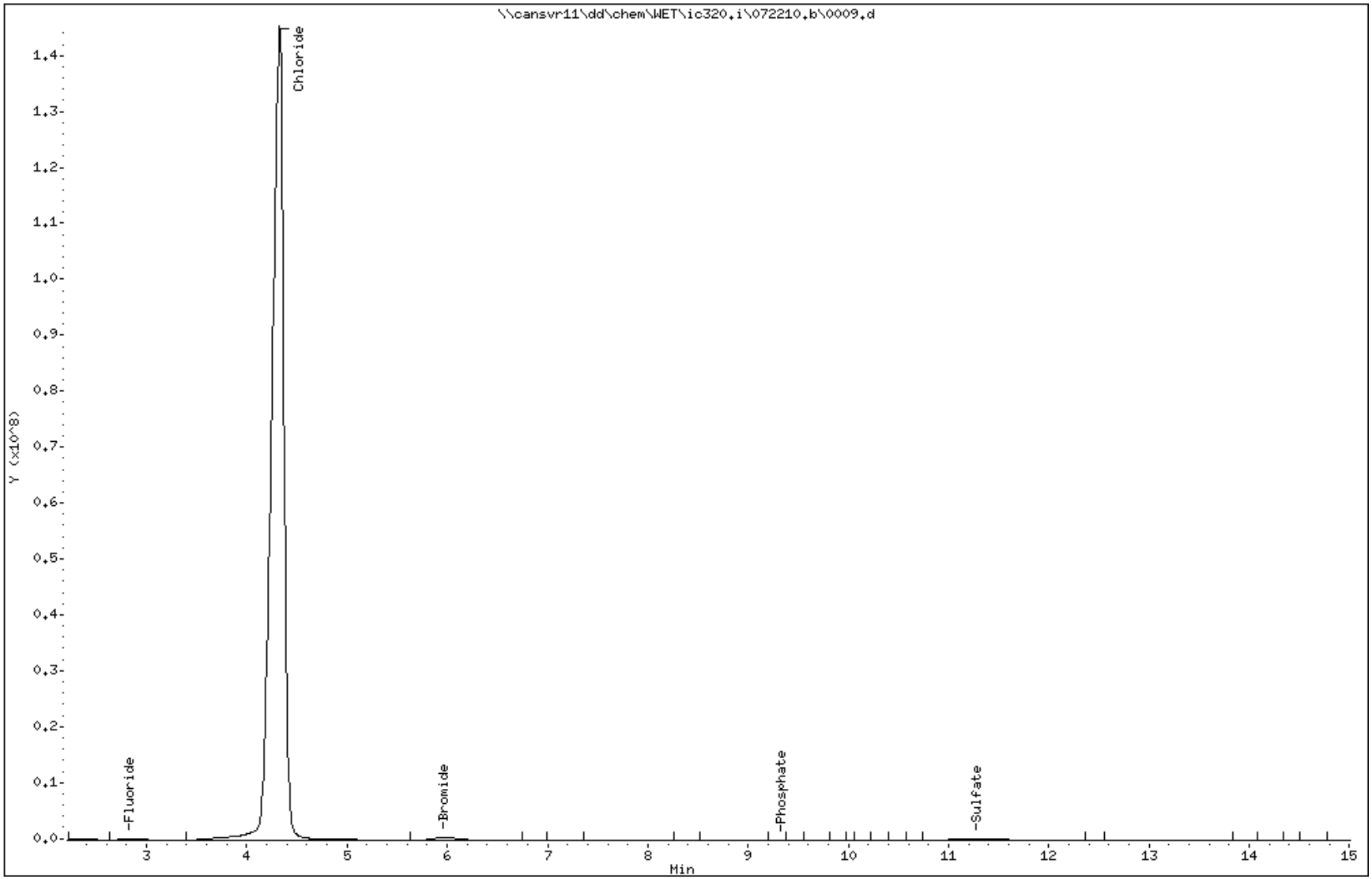
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.816	0.017	5673271	0.44100	0.4410
2 Chloride	4.325	4.000	0.325	1230973824	120.253	120.2(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.966	5.858	0.108	9514128	2.60787	2.608
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.341	9.150	0.191	3699	0.04437	0.04437(a)
7 Sulfate	11.291	11.083	0.208	10208225	1.52868	1.529

QC Flag Legend

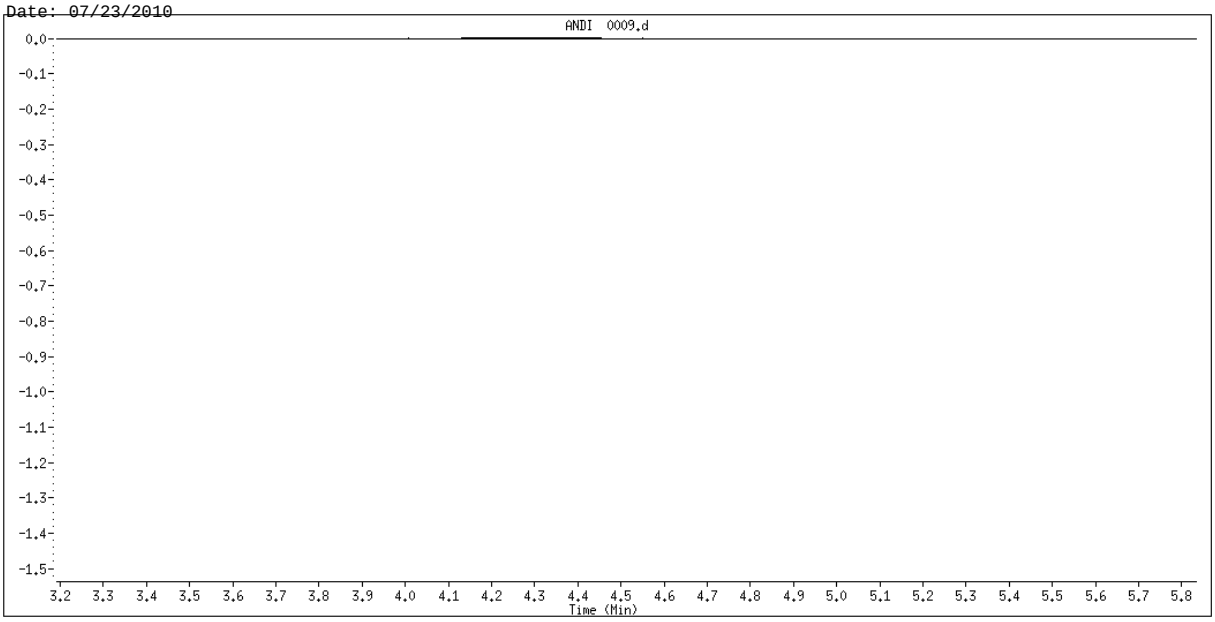
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0009.d
Date : 22-JUL-2010 17:04
Client ID:
Sample Info: L4G3X
Purge Volume: 1.0
Column phase: AS14

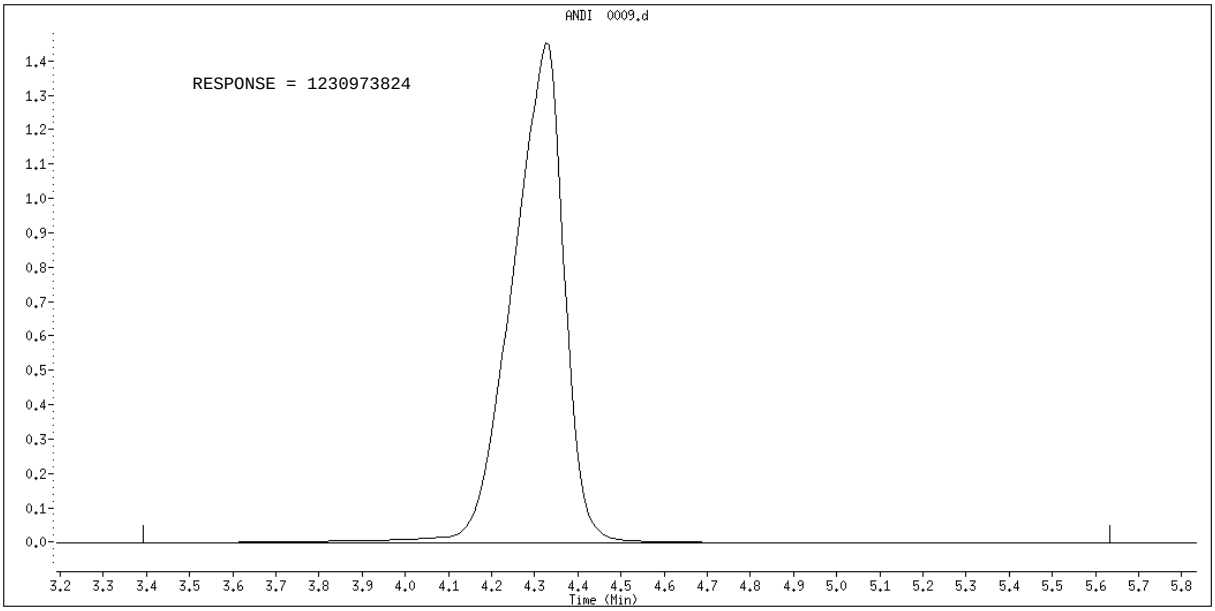
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0009.d
Inj. Date and Time: 22-JUL-2010 17:04
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0010.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0010.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 17:21
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

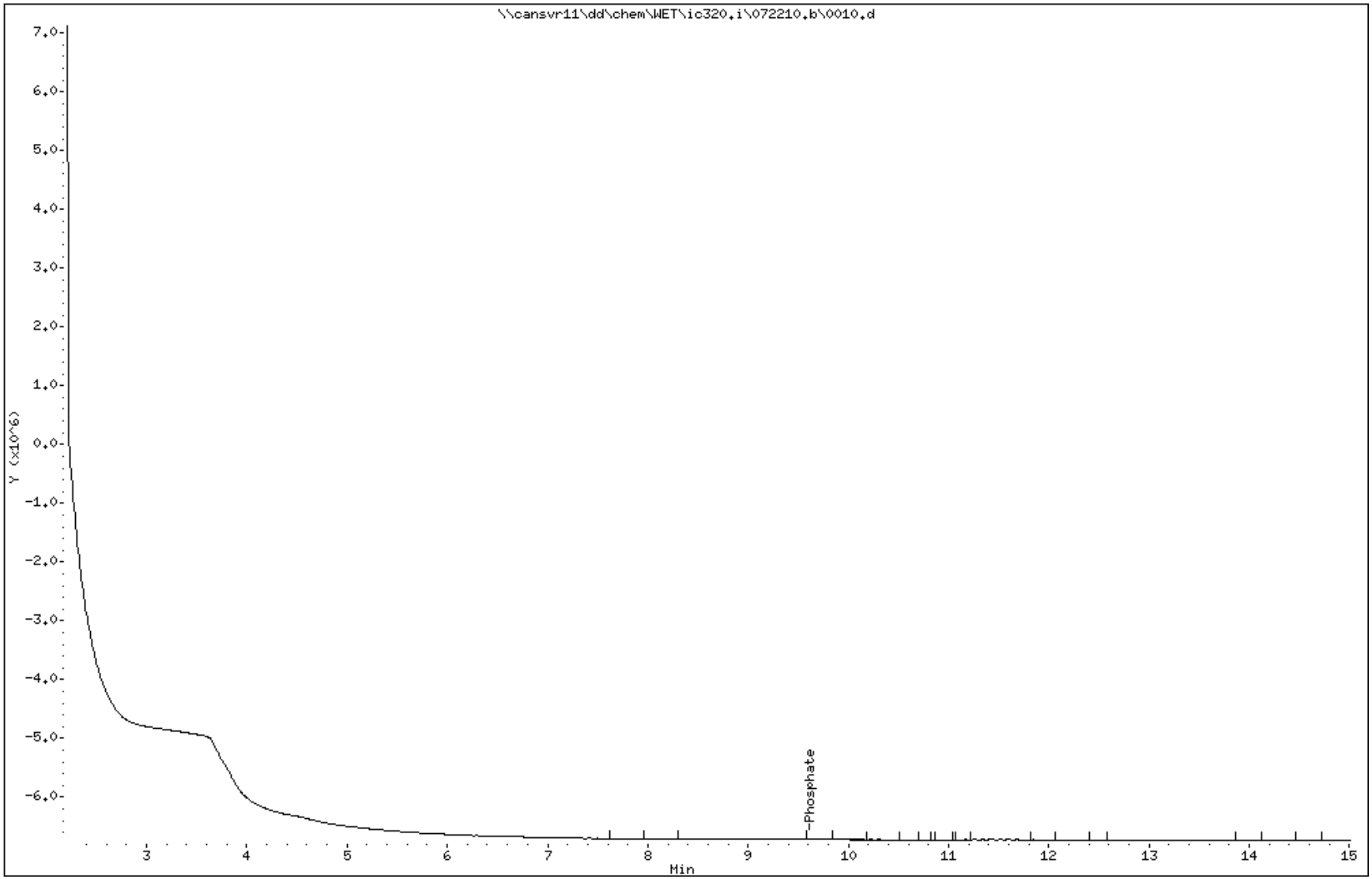
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.625	9.191	0.434	4566	0.04714	0.04714(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0010.d
Date : 22-JUL-2010 17:21
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0011.d
Report Date: 23-Jul-2010 12:00

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0011.d
Lab Smp Id: L4G30 ORG
Inj Date : 22-JUL-2010 17:38
Operator : 001754 Inst ID: ic320.i
Smp Info : L4G30 ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

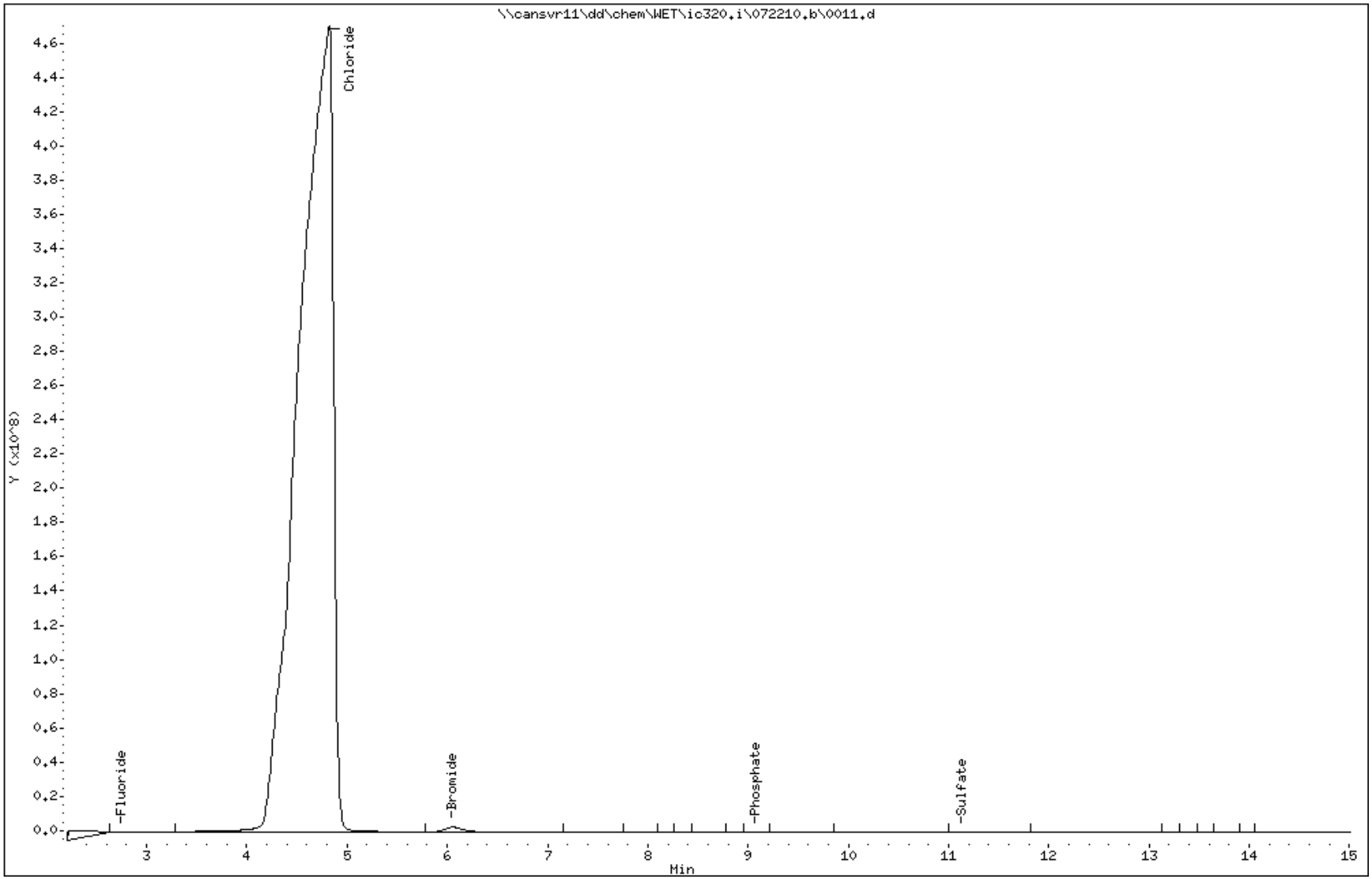
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.750	2.816	-0.066	1523833	0.11845	0.1184(M)
2 Chloride	4.825	4.000	0.825	11095366660	1083.90	1084(AM)
3 Nitrite	Compound Not Detected.					
4 Bromide	6.050	5.858	0.192	34937681	9.57659	9.576(M)
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.083	9.150	-0.067	4756	0.04775	0.04774(a)
7 Sulfate	11.141	11.083	0.058	2381454	0.35662	0.3566(a)

QC Flag Legend

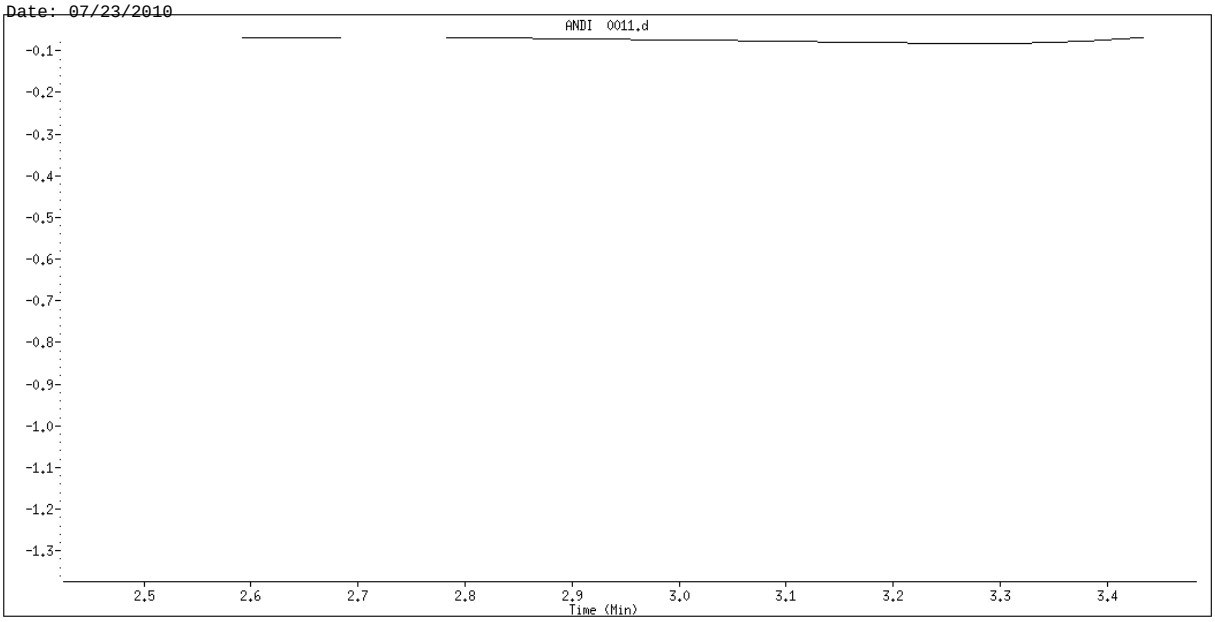
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0011.d
Date : 22-JUL-2010 17:38
Client ID:
Sample Info: L4G30 ORG
Purge Volume: 1.0
Column phase: AS14

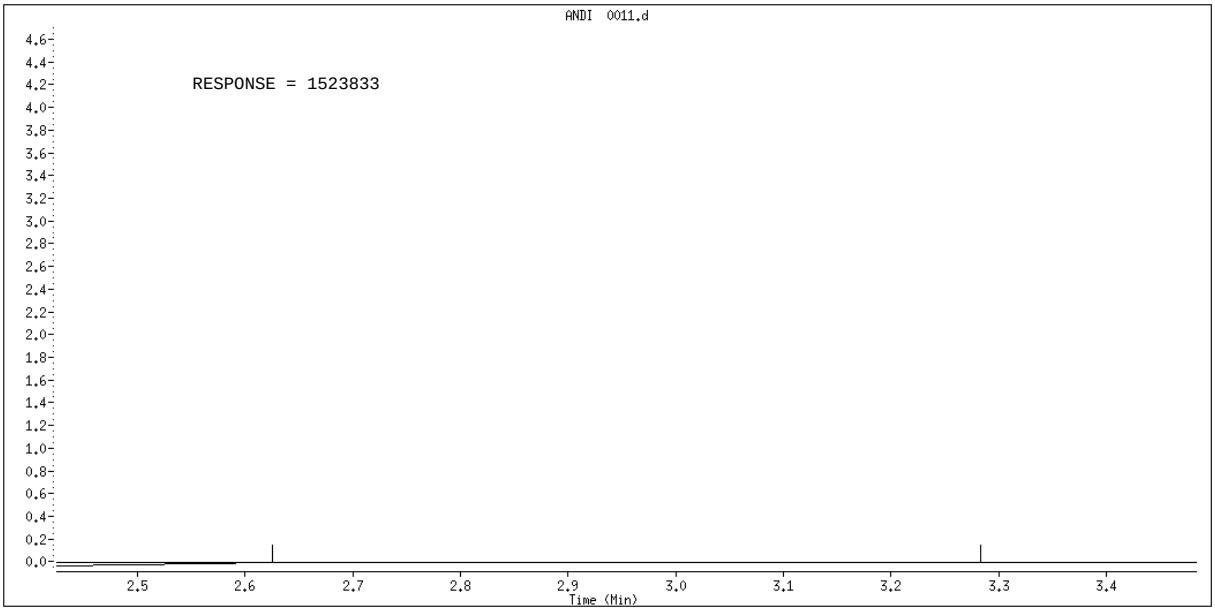
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0011.d
Inj. Date and Time: 22-JUL-2010 17:38
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



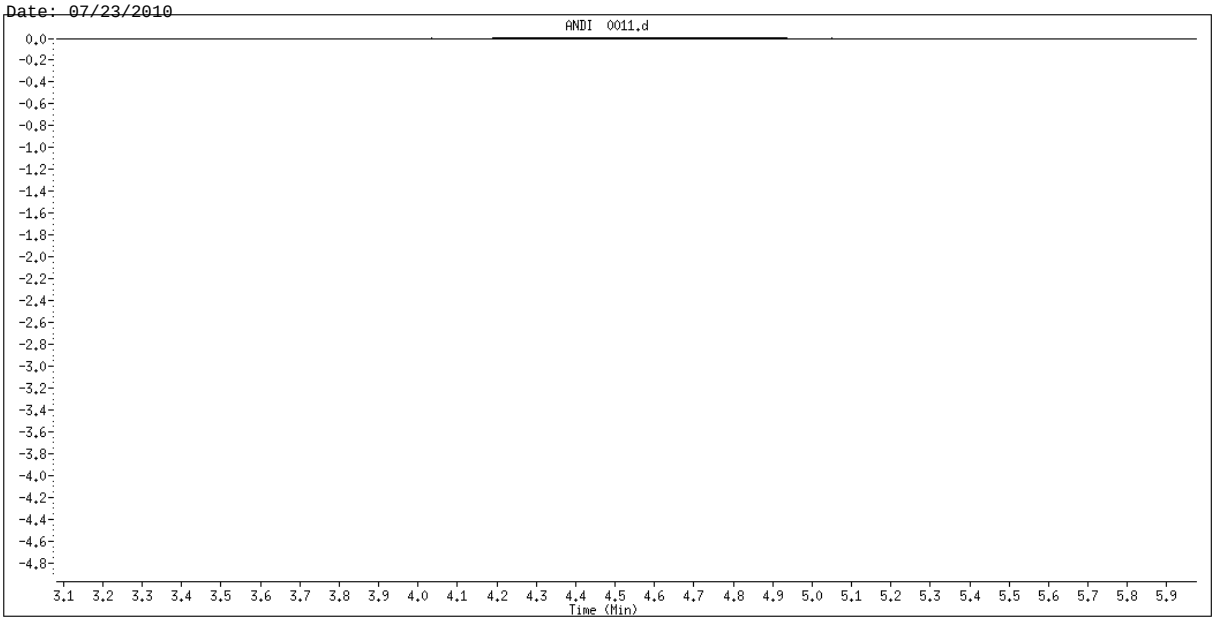
Original Integration



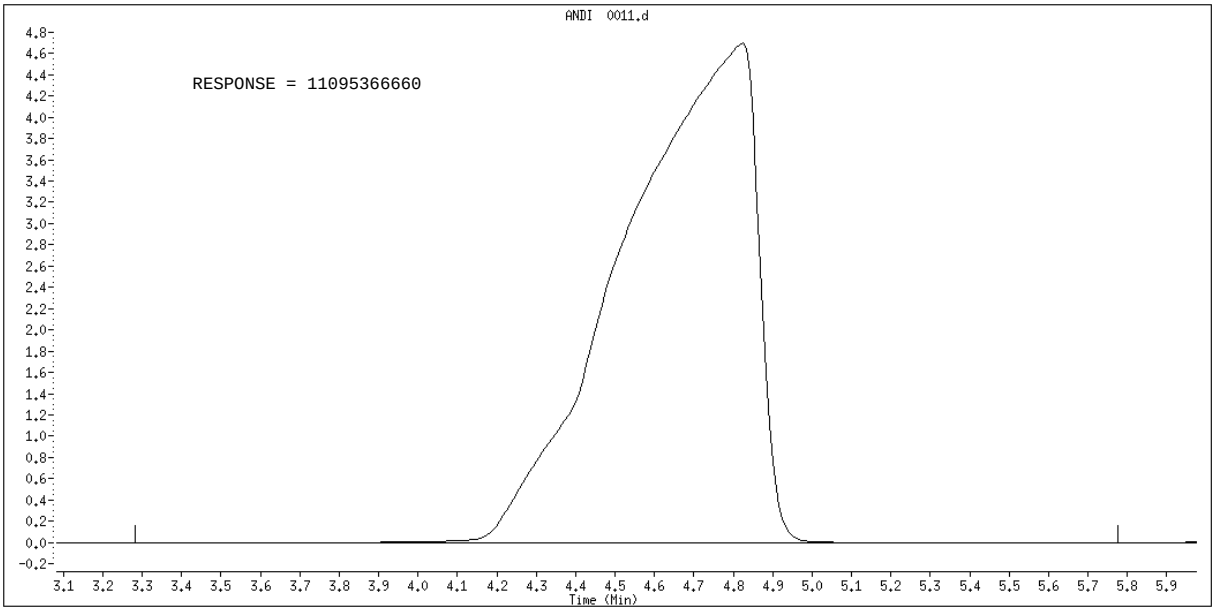
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0011.d
Inj. Date and Time: 22-JUL-2010 17:38
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



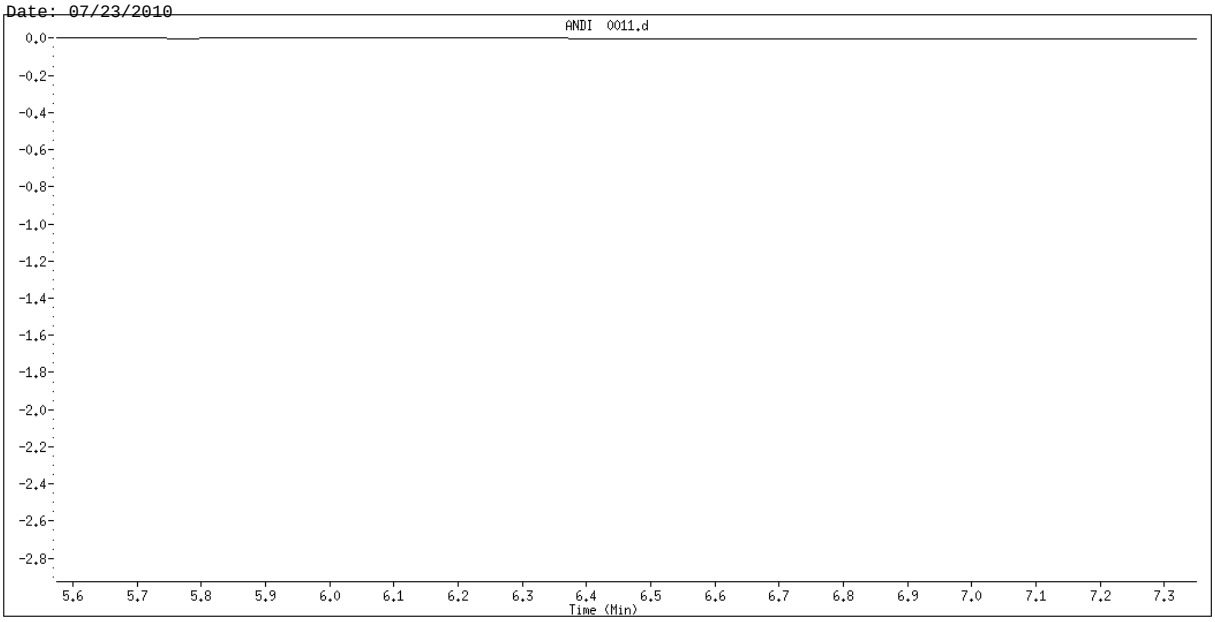
Original Integration



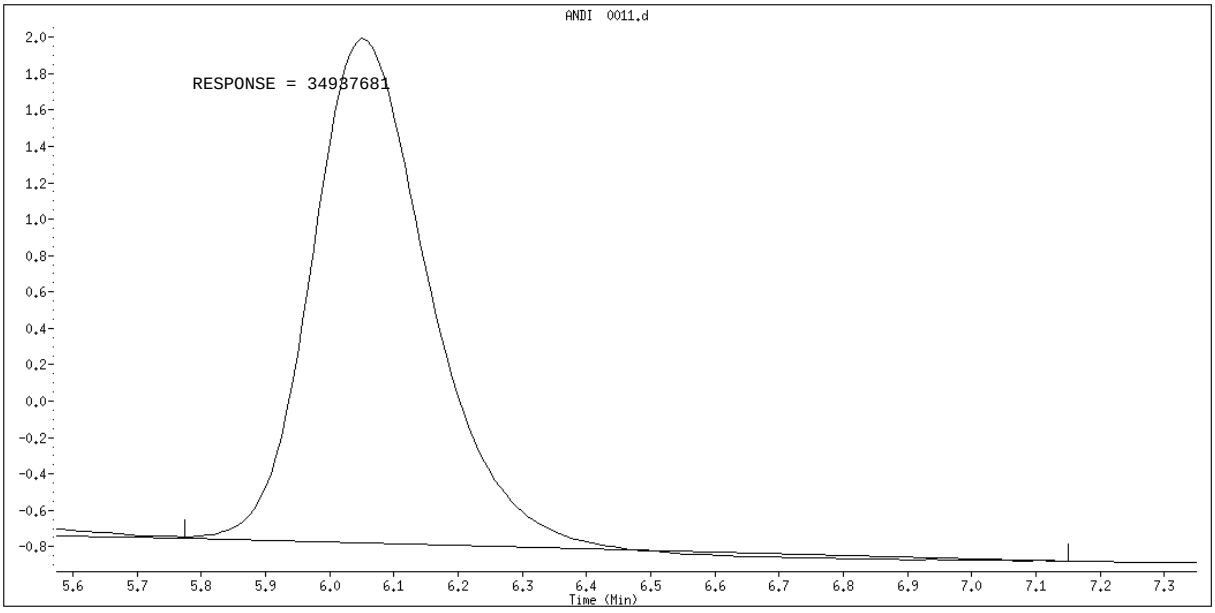
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File Name: 0011.d
Inj. Date and Time: 22-JUL-2010 17:38
Instrument ID: ic320.i
Client ID:
Compound Name: Bromide
CAS #: Q85
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0012.d
Report Date: 23-Jul-2010 12:01

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0012.d
Lab Smp Id: L4G30 MS
Inj Date : 22-JUL-2010 17:56
Operator : 001754 Inst ID: ic320.i
Smp Info : L4G30 MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

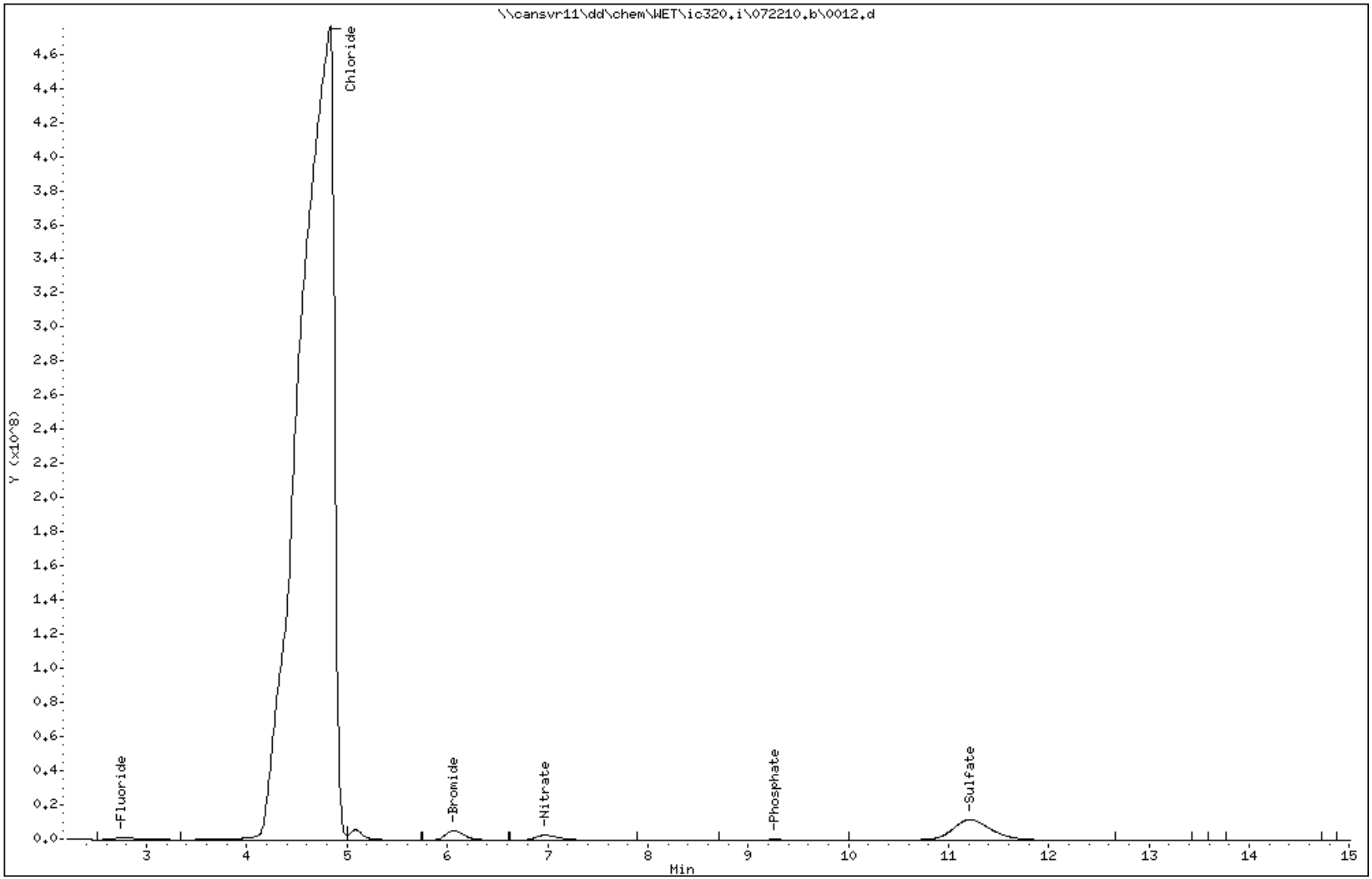
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.758	2.816	-0.058	26214435	2.03773	2.038(R)
2 Chloride	4.833	4.000	0.833	11429694723	1116.56	1116(ARM)
3 Nitrite	Compound Not Detected.					
4 Bromide	6.066	5.858	0.208	72712191	19.9308	19.93(R)
5 Nitrate	6.975	6.816	0.159	48864408	2.45527	2.455
6 Phosphate	9.275	9.150	0.125	395468	1.27321	1.273(R)
7 Sulfate	11.216	11.083	0.133	335796312	50.2854	50.28

QC Flag Legend

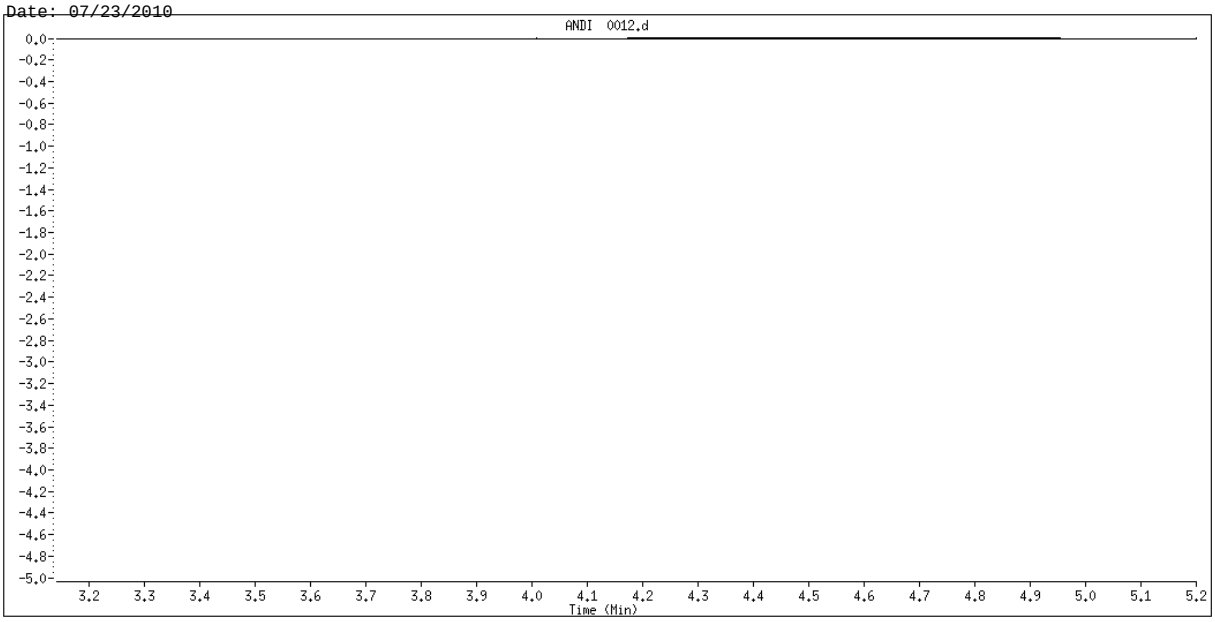
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0012.d
Date : 22-JUL-2010 17:56
Client ID:
Sample Info: L4G30 MS,,3
Purge Volume: 1.0
Column phase: AS14

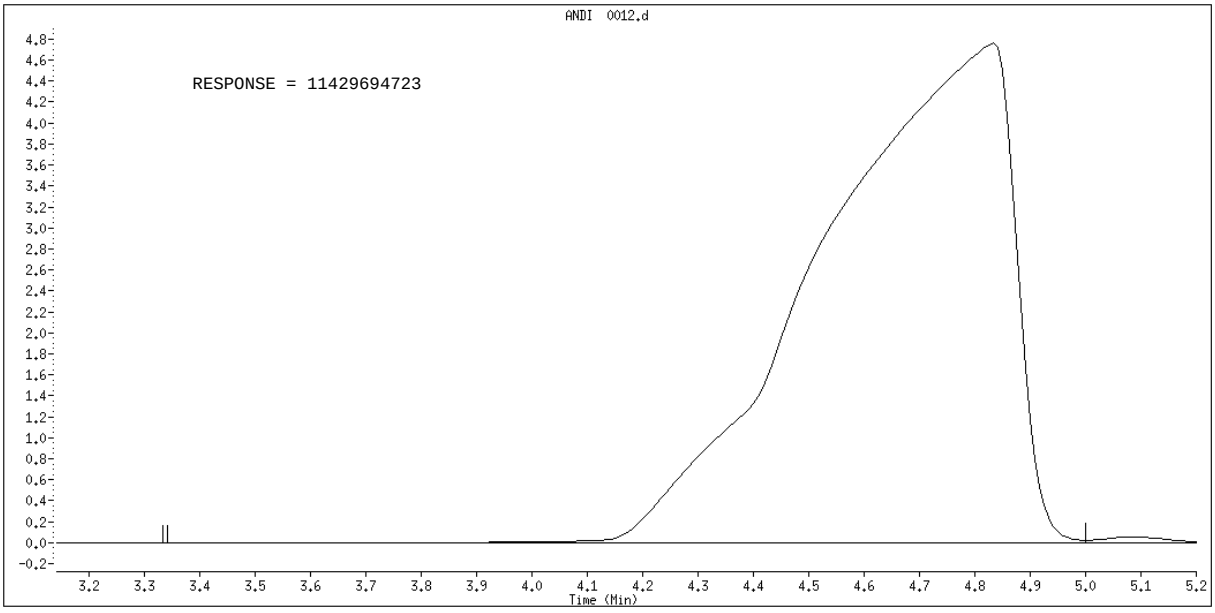
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0012.d
Inj. Date and Time: 22-JUL-2010 17:56
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0013.d
Report Date: 23-Jul-2010 11:55

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ION CHROMATOGRAPHY

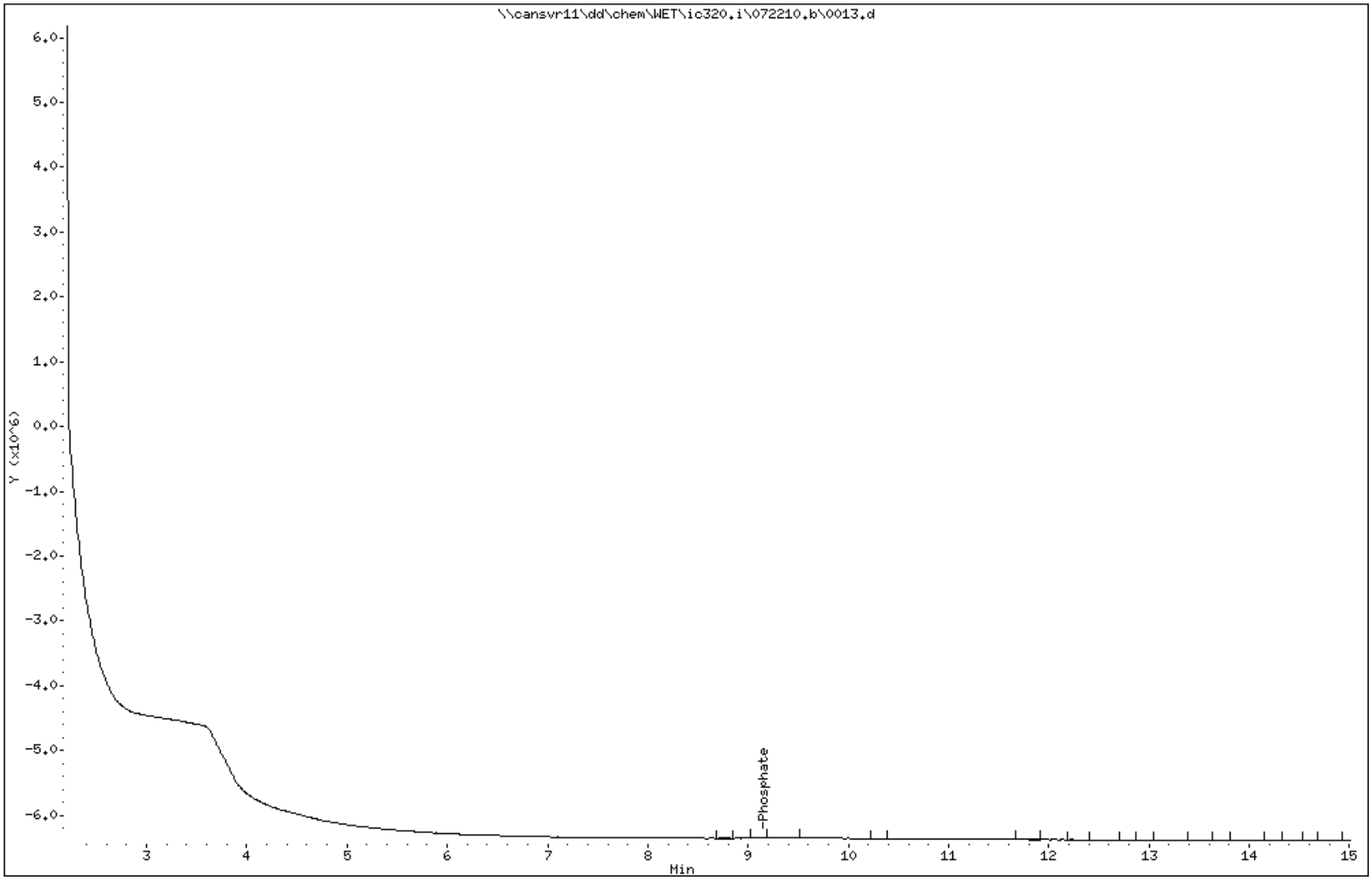
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0013.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 18:13
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.166	9.191	-0.025	6856	0.05445	0.05444
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0013.d
Date : 22-JUL-2010 18:13
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0014.d
Report Date: 23-Jul-2010 12:02

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0014.d
Lab Smp Id: L4G31
Inj Date : 22-JUL-2010 18:31
Operator : 001754 Inst ID: ic320.i
Smp Info : L4G31
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

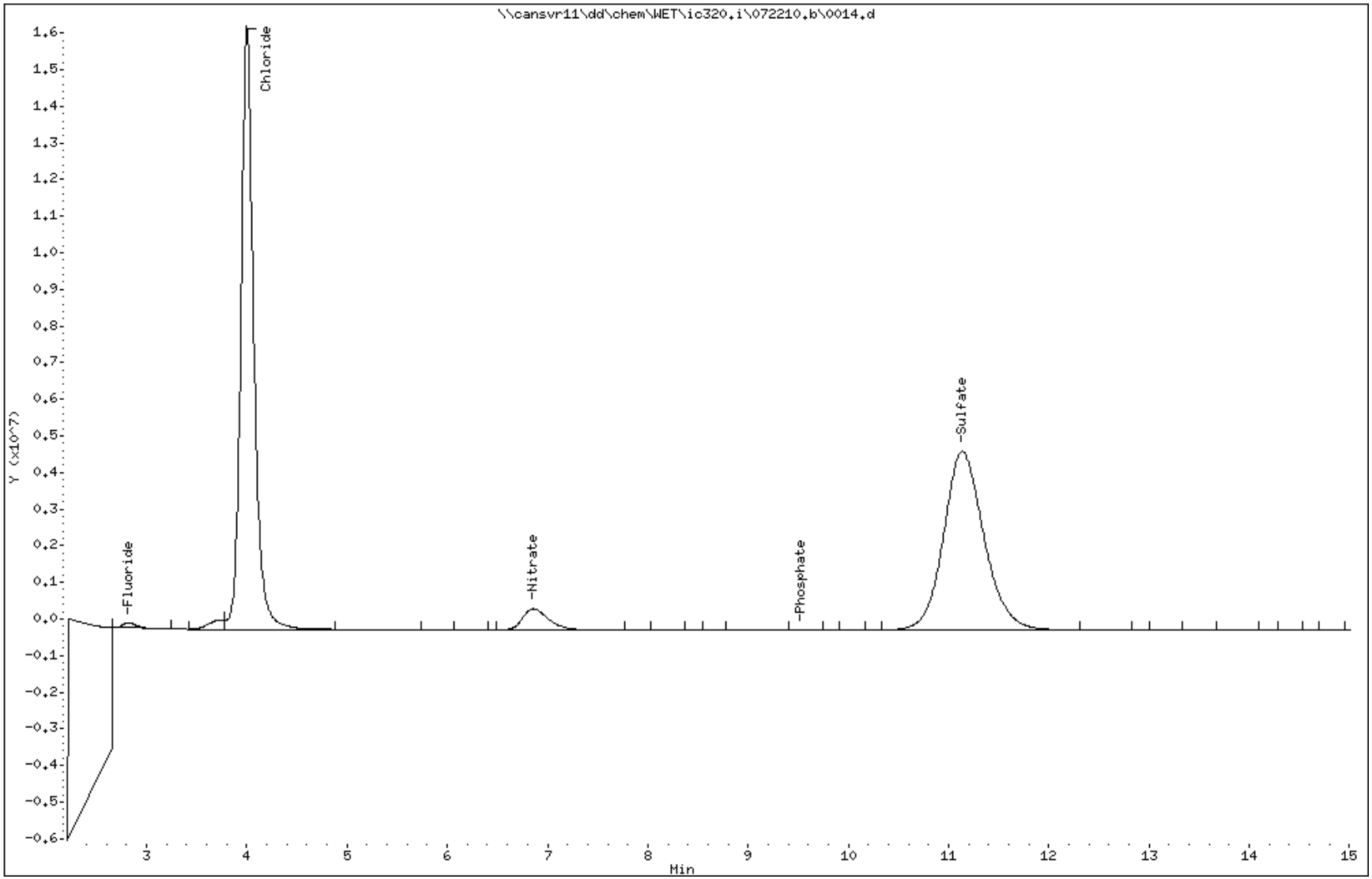
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.816	2.816	0.000	1444377	0.11228	0.1123(M)
2 Chloride	4.000	4.000	0.000	147826929	14.4411	14.44
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.858	6.816	0.042	11026141	0.55403	0.5540
6 Phosphate	9.525	9.150	0.375	5244	0.04930	0.04930(a)
7 Sulfate	11.141	11.083	0.058	137185248	20.5434	20.54

QC Flag Legend

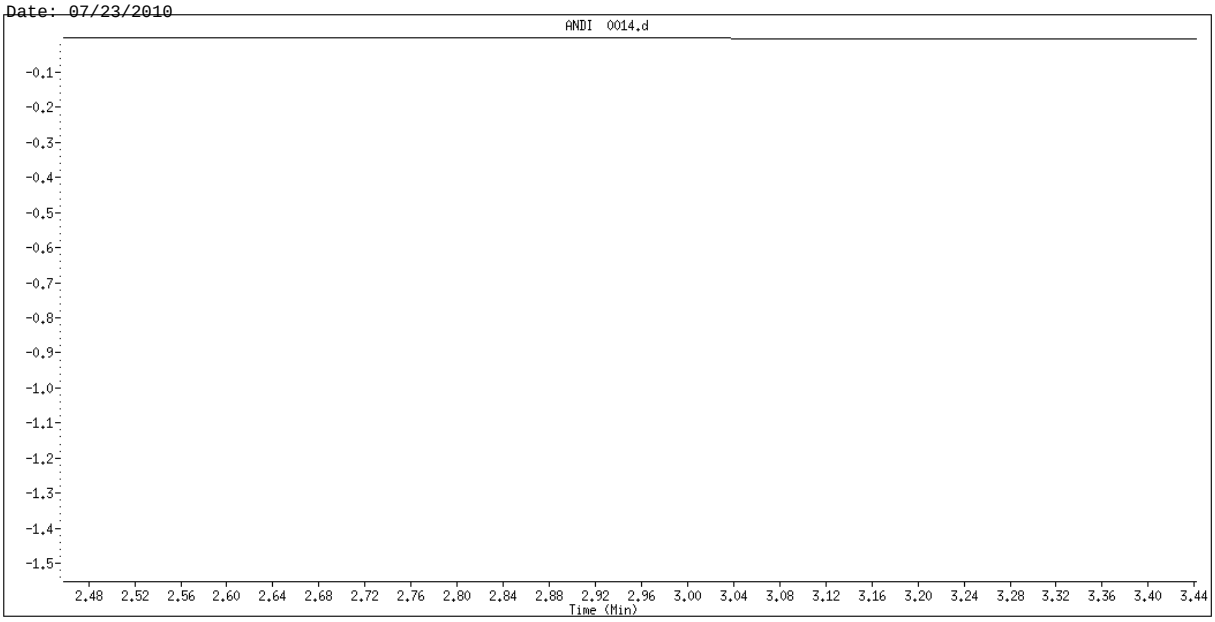
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0014.d
Date : 22-JUL-2010 18:31
Client ID:
Sample Info: L4G31
Purge Volume: 1.0
Column phase: AS14

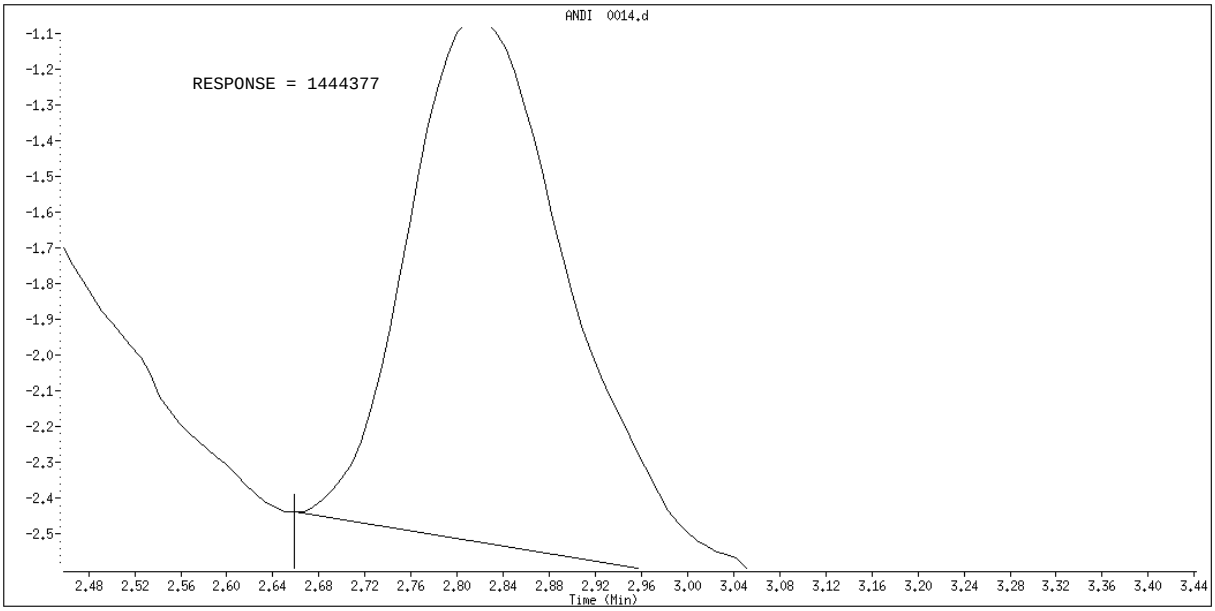
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0014.d
Inj. Date and Time: 22-JUL-2010 18:31
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0015.d
Report Date: 23-Jul-2010 11:55

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic320.i Injection Date: 22-JUL-2010 18:48
Lab File ID: 0015.d Init. Cal. Date(s): 09-JUL-2010 09-JUL-2010
Analysis Type: WATER Init. Cal. Times: 16:19 18:38
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Fluoride	12864538	17390426	17390426	0.010	-35.18112	10.00000	Averaged	<-
2 Chloride	10236534	10941281	10941281	0.010	-6.88462	10.00000	Averaged	
3 Nitrite	18024730	21351283	21351283	0.010	-18.45549	10.00000	Averaged	<-
4 Bromide	3648240	4100725	4100725	0.010	-12.40283	10.00000	Averaged	<-
5 Nitrate	19901858	21614545	21614545	0.010	-8.60566	10.00000	Averaged	
6 Phosphate	2.50000	2.31555	295622	0.010	7.37794	10.00000	Quadratic	
7 Sulfate	6677814	6561032	6561032	0.010	1.74880	10.00000	Averaged	

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0015.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0015.d
Lab Smp Id: CCV
Inj Date : 22-JUL-2010 18:48
Operator : 001754 Inst ID: ic320.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

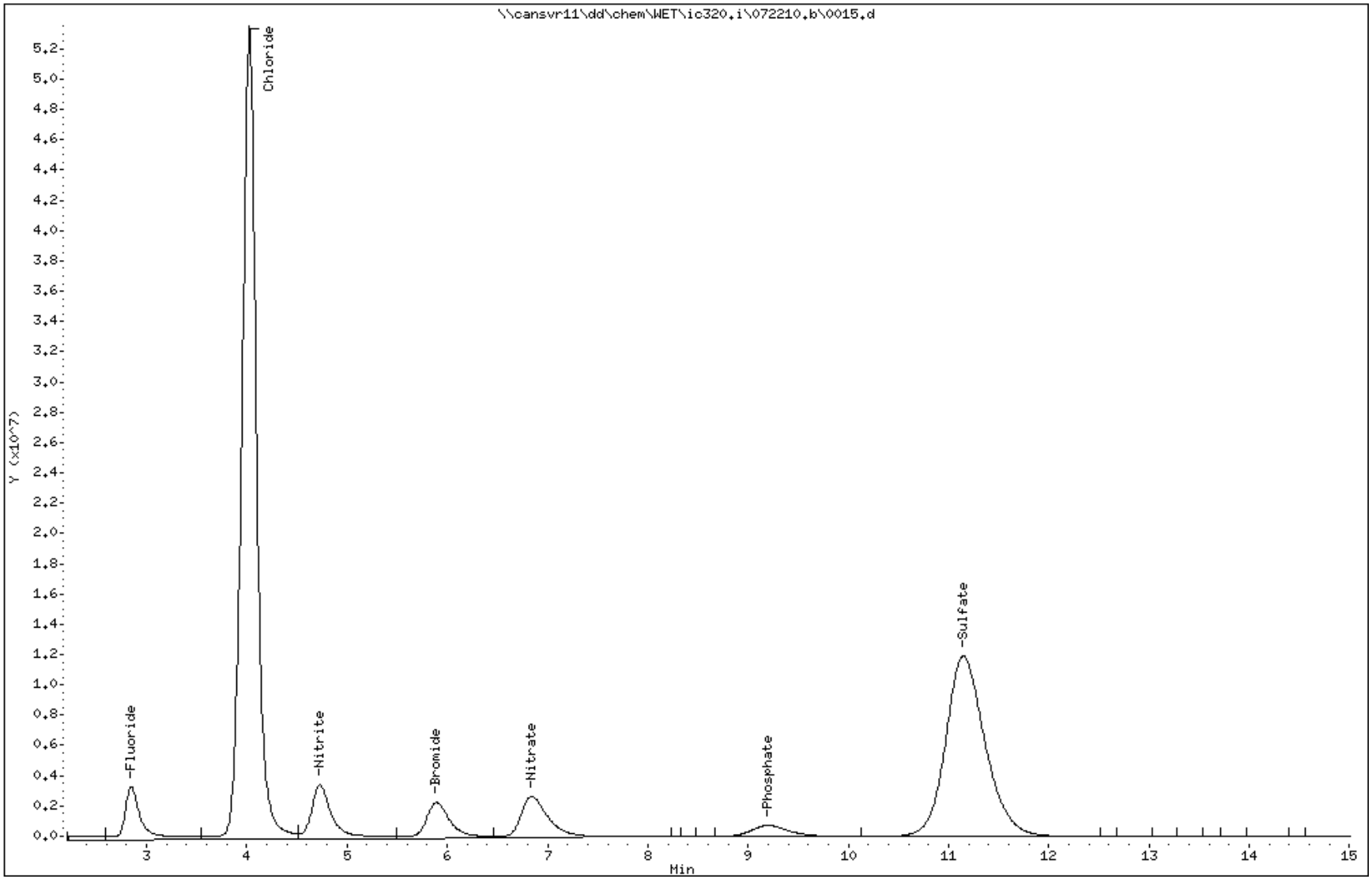
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.850	2.850	0.000	43476066	2.50000	3.380
2 Chloride	4.025	4.025	0.000	547064044	50.0000	53.44
3 Nitrite	4.733	4.733	0.000	53378207	2.50000	2.961
4 Bromide	5.891	5.891	0.000	41007245	10.0000	11.24
5 Nitrate	6.841	6.841	0.000	54036362	2.50000	2.715
6 Phosphate	9.200	9.200	0.000	739056	2.50000	2.316
7 Sulfate	11.150	11.150	0.000	328051613	50.0000	49.12

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0015.d
Date : 22-JUL-2010 18:48
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0016.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0016.d
Lab Smp Id: CCB
Inj Date : 22-JUL-2010 19:05
Operator : 001754 Inst ID: ic320.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

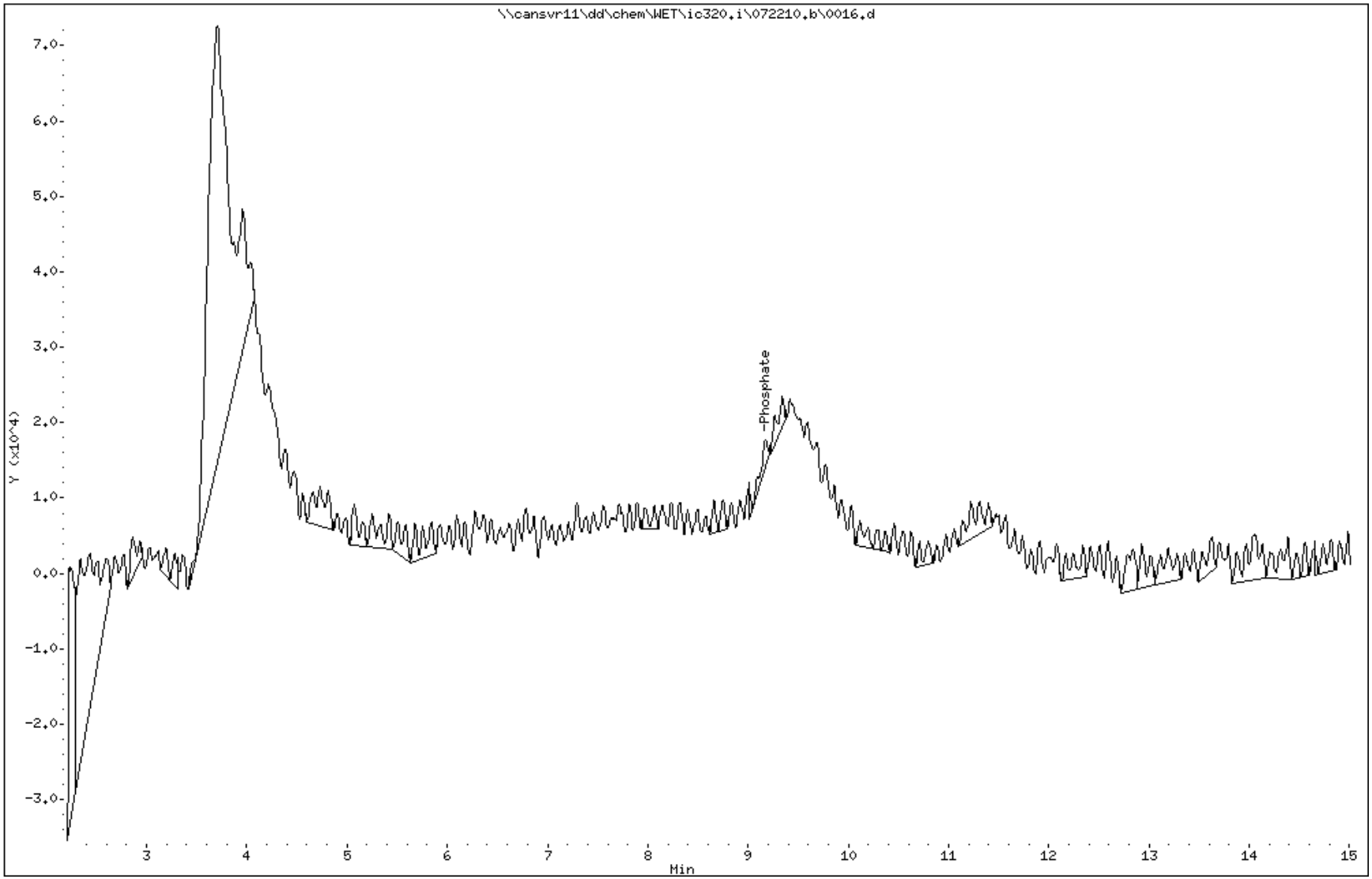
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.175	9.200	-0.025	3680	0.04431	0.04431(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0016.d
Date : 22-JUL-2010 19:05
Client ID:
Sample Info: CCB
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0017.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0017.d
Lab Smp Id: L4H8Q
Inj Date : 22-JUL-2010 19:23
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H8Q
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

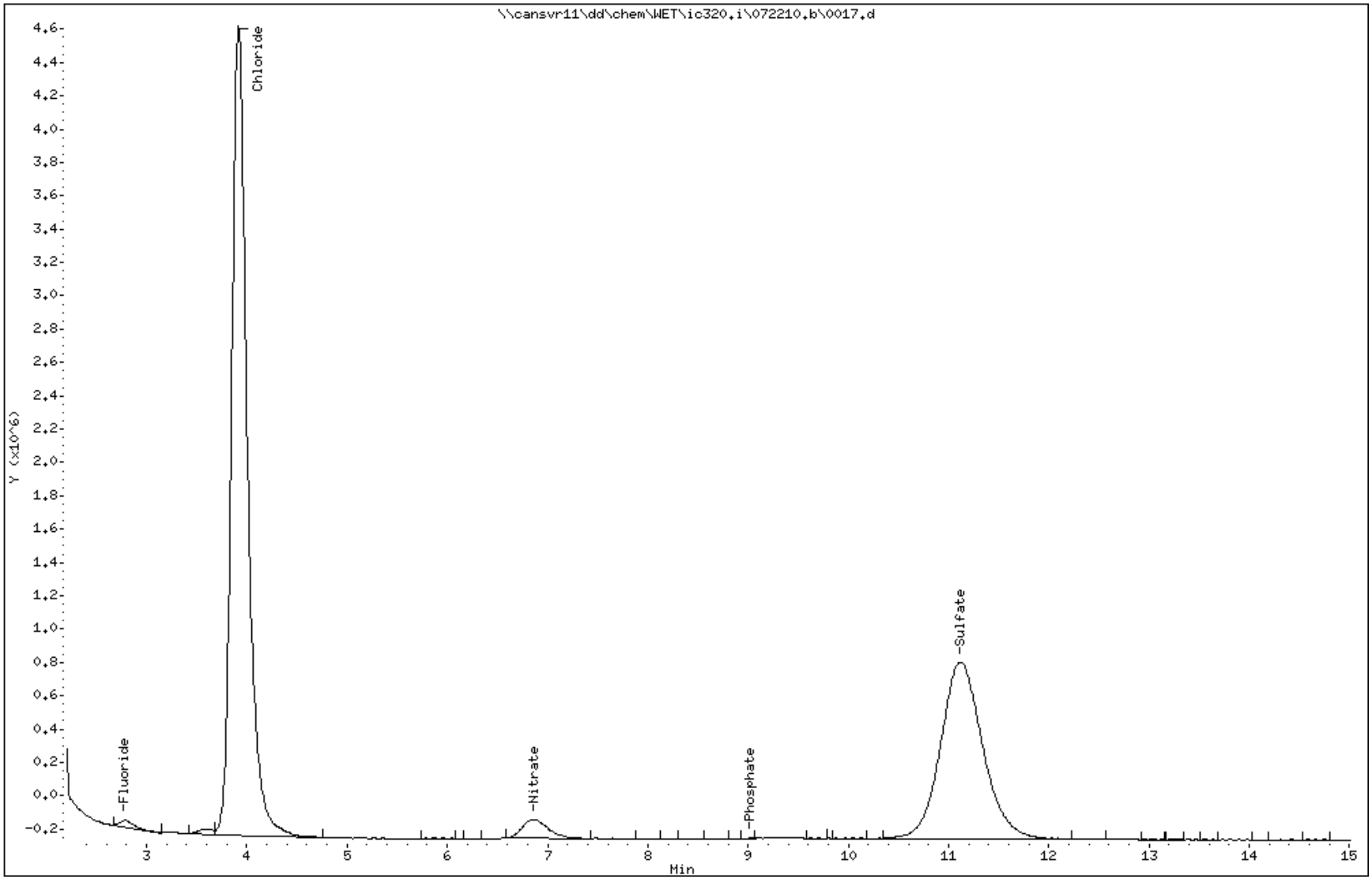
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.783	2.850	-0.067	428929	0.03334	0.03334(a)
2 Chloride	3.916	4.025	-0.109	53196829	5.19676	5.197
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.875	6.841	0.034	2078222	0.10442	0.1044
6 Phosphate	9.025	9.200	-0.175	4606	0.04727	0.04727(a)
7 Sulfate	11.116	11.150	-0.034	31245755	4.67904	4.679

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0017.d
Date : 22-JUL-2010 19:23
Client ID:
Sample Info: L4H8Q
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0018.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0018.d
Lab Smp Id: L4H8W
Inj Date : 22-JUL-2010 19:40
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H8W
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

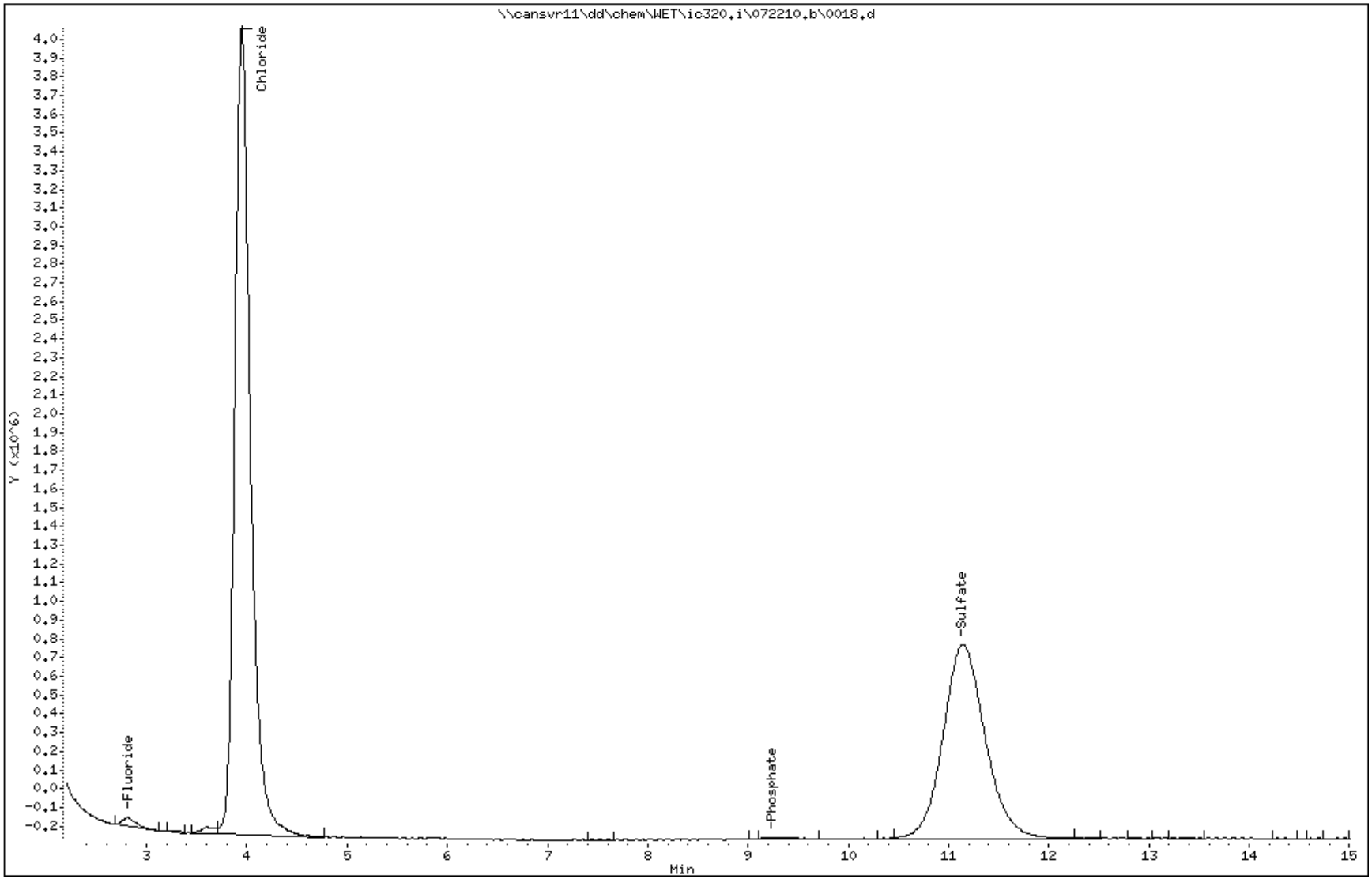
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.816	2.850	-0.034	437351	0.03400	0.03400(a)
2 Chloride	3.950	4.025	-0.075	47298420	4.62055	4.620
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.241	9.200	0.041	9166	0.06182	0.06182
7 Sulfate	11.141	11.150	-0.009	30380101	4.54941	4.549

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0018.d
Date : 22-JUL-2010 19:40
Client ID:
Instrument: ic320.i
Sample Info: L4H8W
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0019.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0019.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 19:58
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

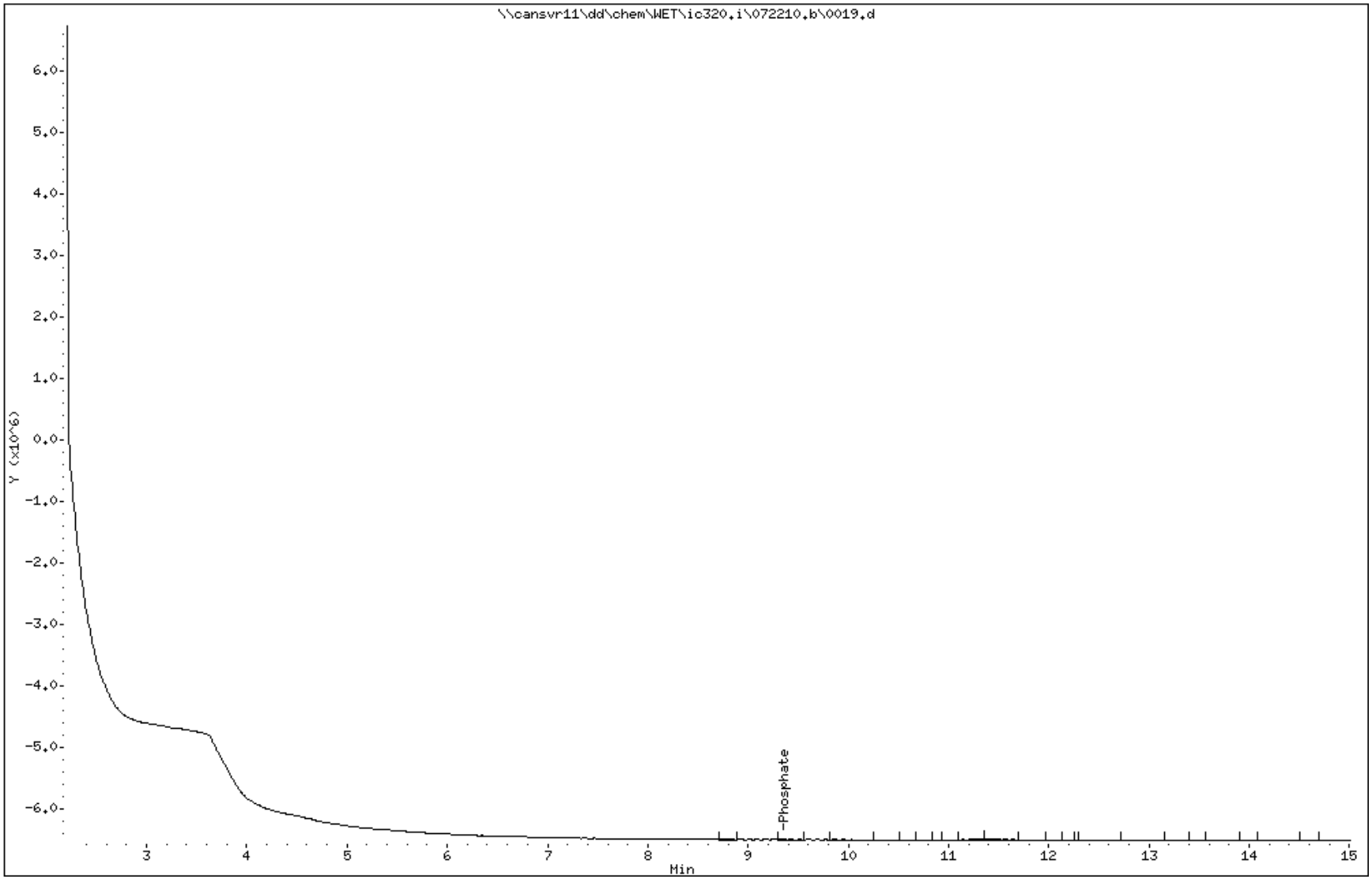
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.358	9.200	0.158	4320	0.04635	0.04635(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0019.d
Date : 22-JUL-2010 19:58
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0020.d
Report Date: 23-Jul-2010 12:03

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0020.d
Lab Smp Id: L4H8X
Inj Date : 22-JUL-2010 20:15
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H8X
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

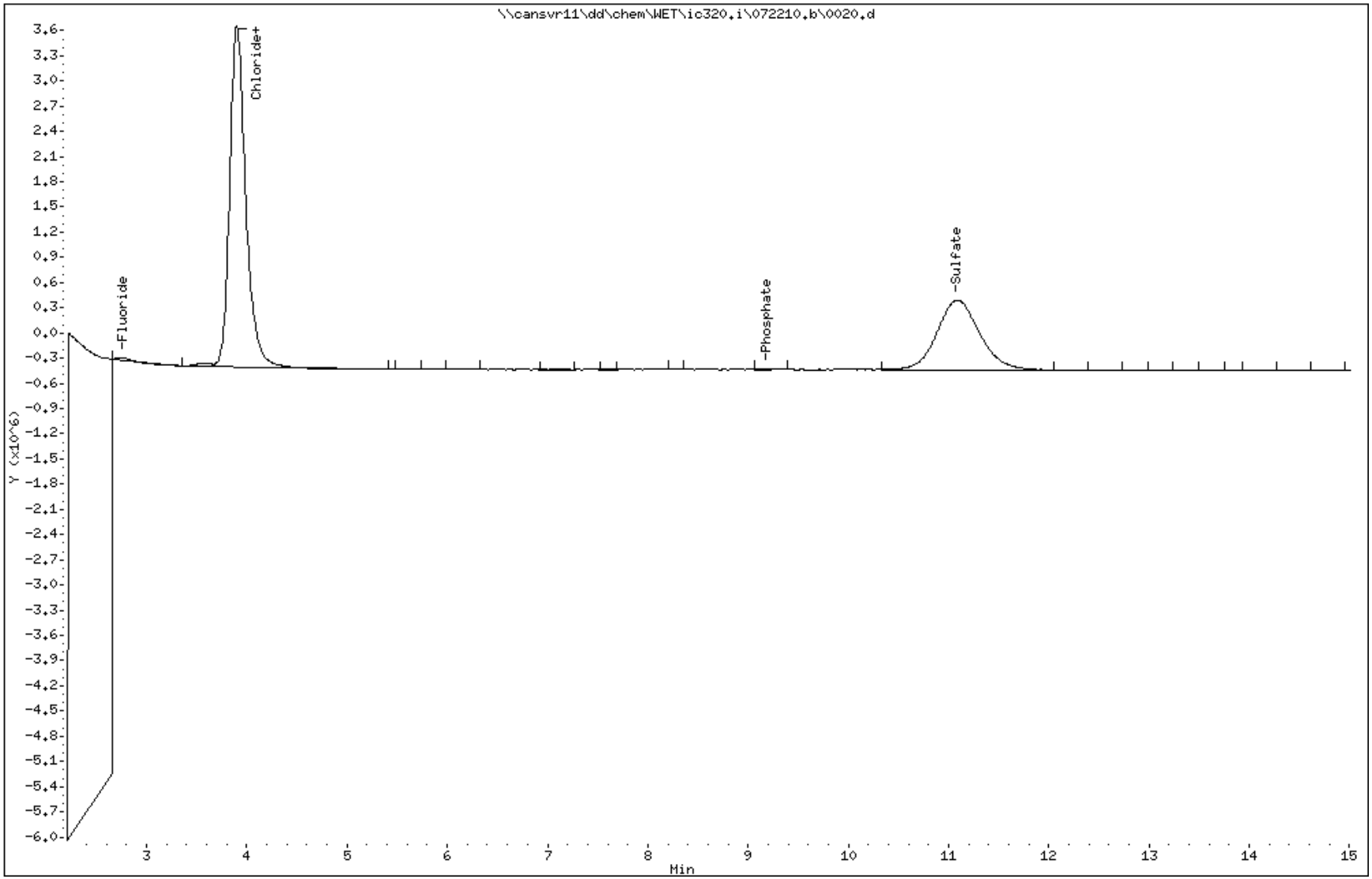
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
2 Chloride	3.900	4.000	-0.100	45140465	4.40974	4.410(M)
3 Nitrite	3.900	4.691	-0.791	45140465	2.50436	2.504(M)
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.183	9.150	0.033	5140	0.04897	0.04897(a)
7 Sulfate	11.083	11.083	0.000	24475448	3.66519	3.665

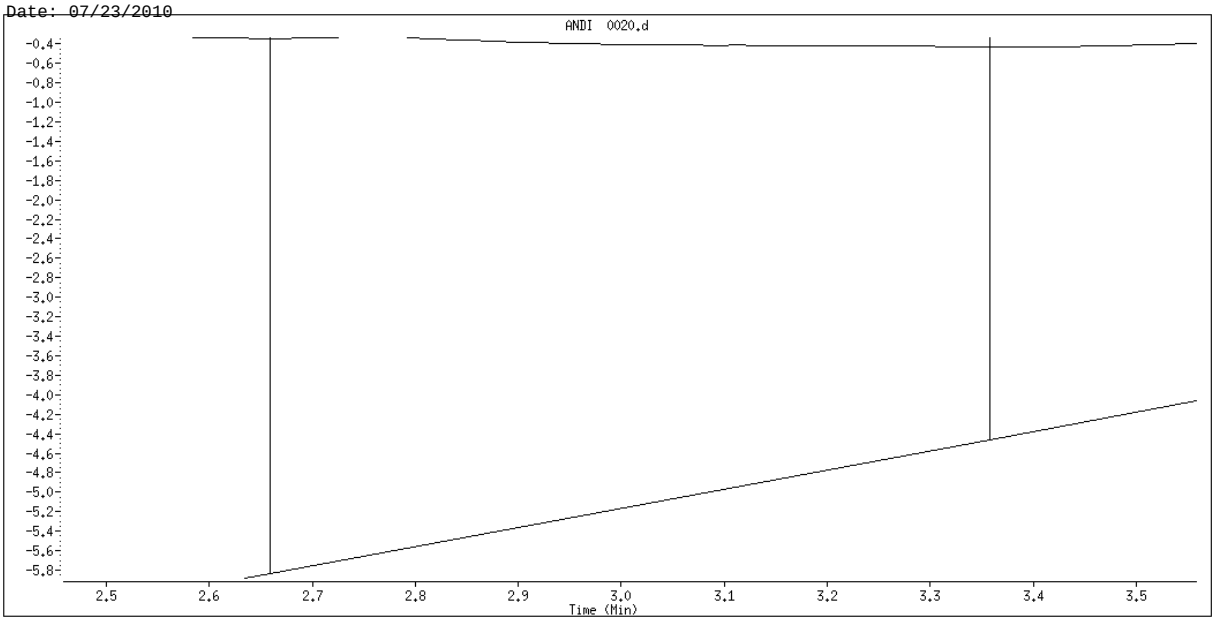
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

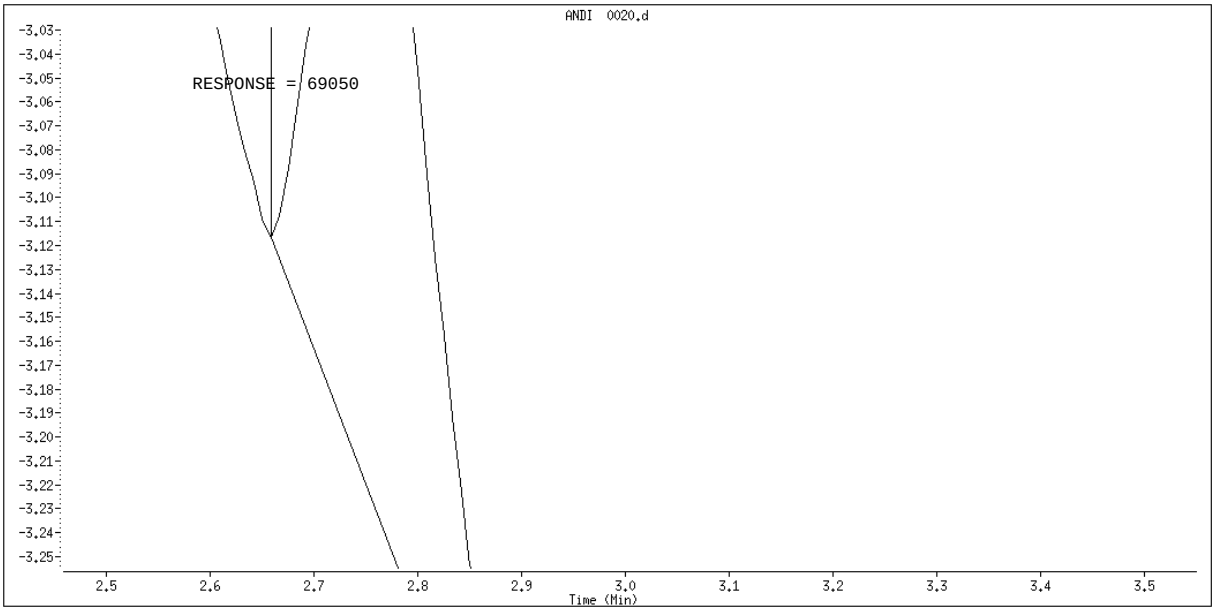
Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0020.d
Date : 22-JUL-2010 20:15
Client ID:
Instrument: ic320.i
Sample Info: L4H8X
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0020.d
Inj. Date and Time: 22-JUL-2010 20:15
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



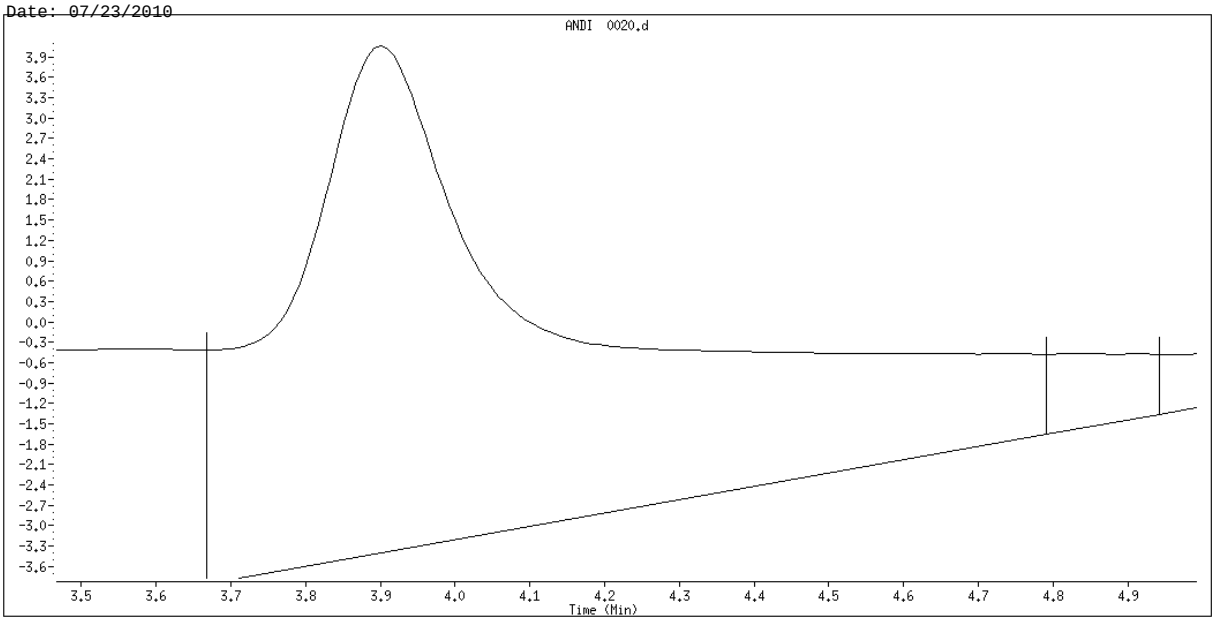
Original Integration



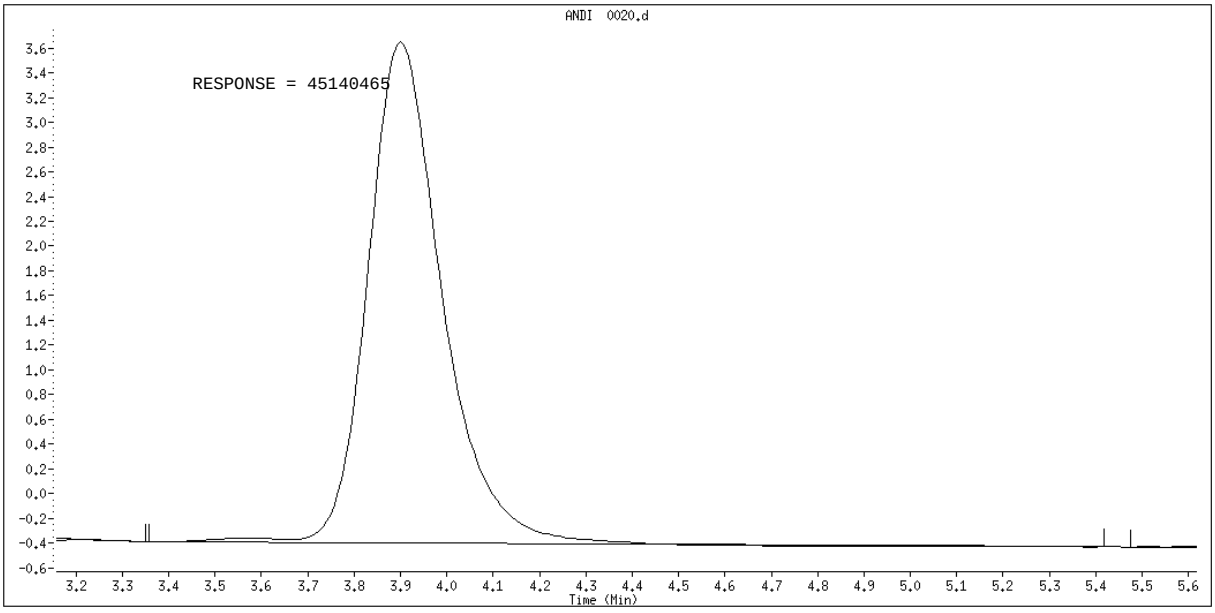
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0020.d
Inj. Date and Time: 22-JUL-2010 20:15
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



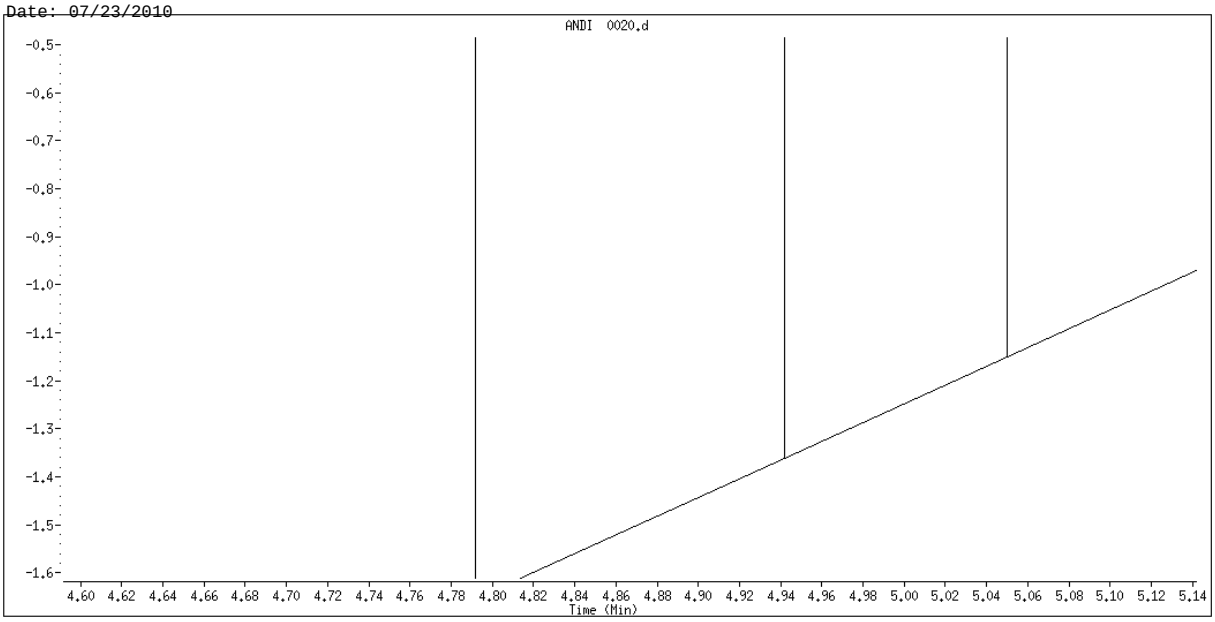
Original Integration



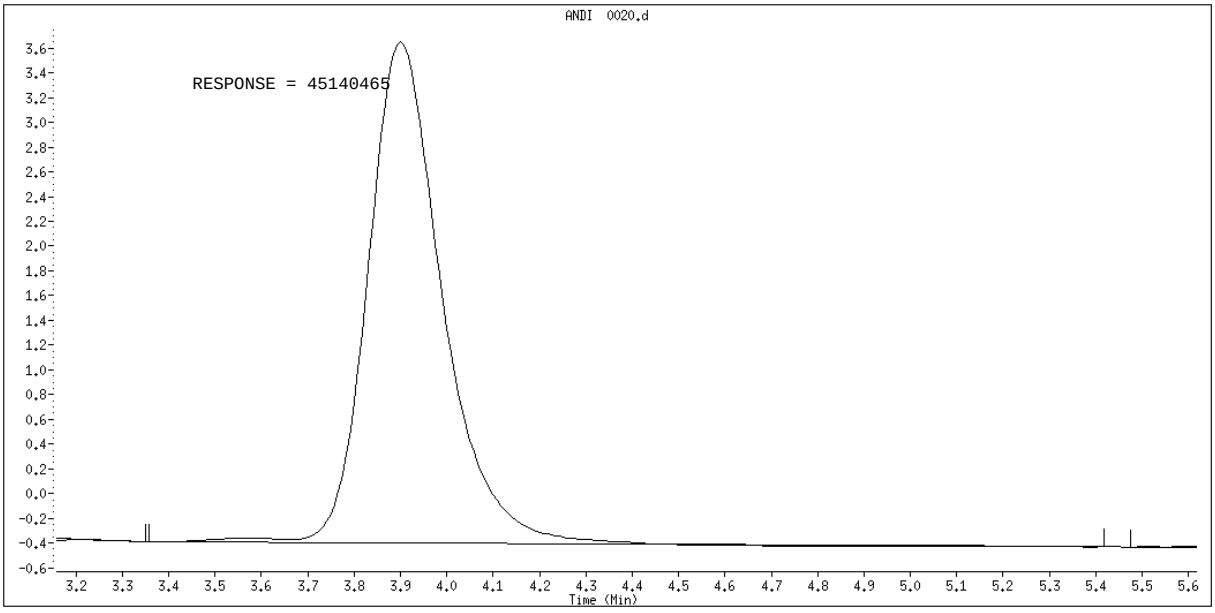
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0020.d
Inj. Date and Time: 22-JUL-2010 20:15
Instrument ID: ic320.i
Client ID:
Compound Name: Nitrite
CAS #: Q481
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0021.d
Report Date: 23-Jul-2010 11:55

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0021.d
Lab Smp Id: L4H80
Inj Date : 22-JUL-2010 20:32
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H80
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

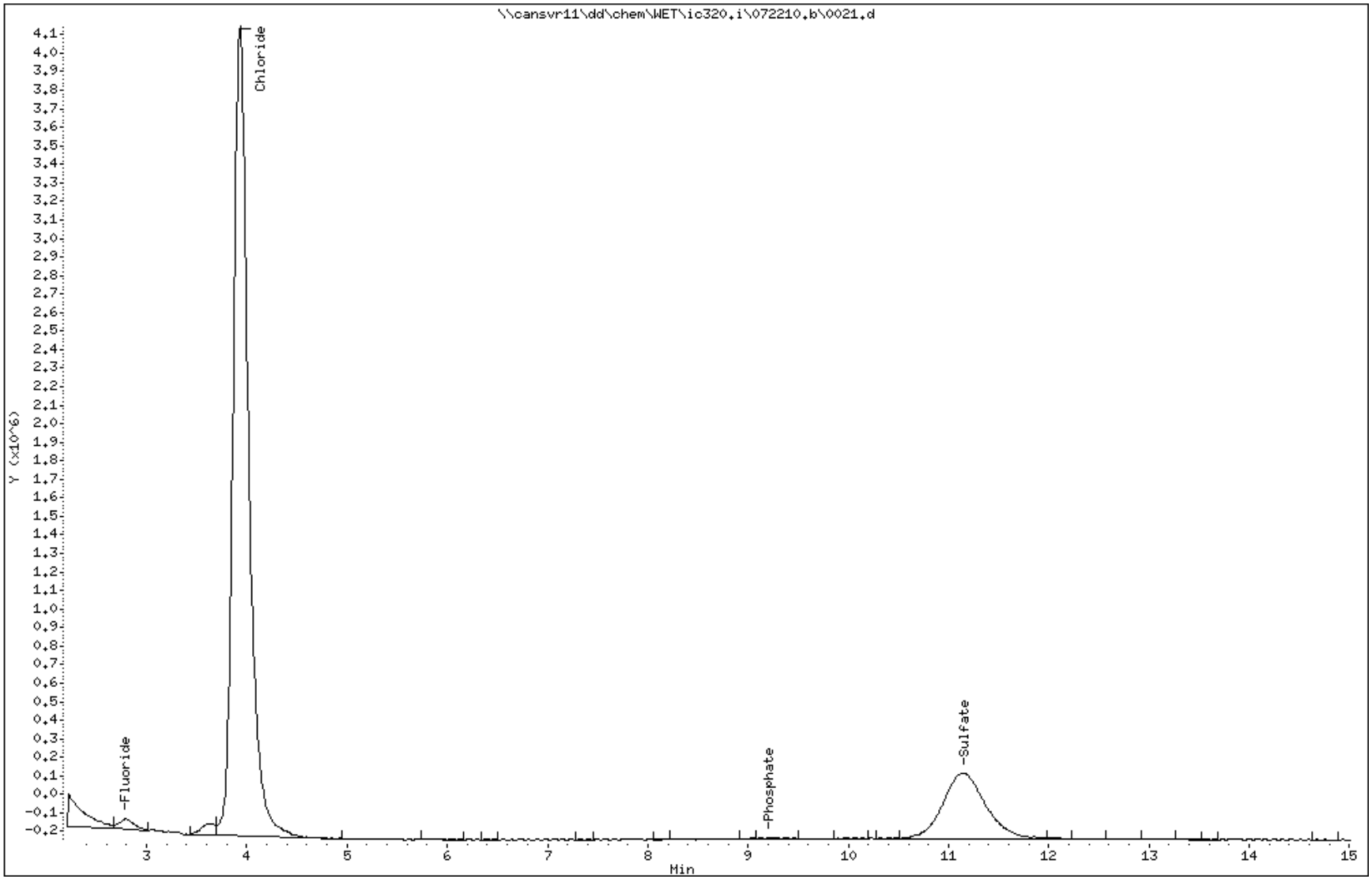
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.791	2.850	-0.059	555515	0.04318	0.04318(a)
2 Chloride	3.933	4.025	-0.092	47148660	4.60592	4.606
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.216	9.200	0.016	6776	0.05419	0.05419
7 Sulfate	11.158	11.150	0.008	10625718	1.59120	1.591

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0021.d
Date : 22-JUL-2010 20:32
Client ID:
Sample Info: L4H80
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0022.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

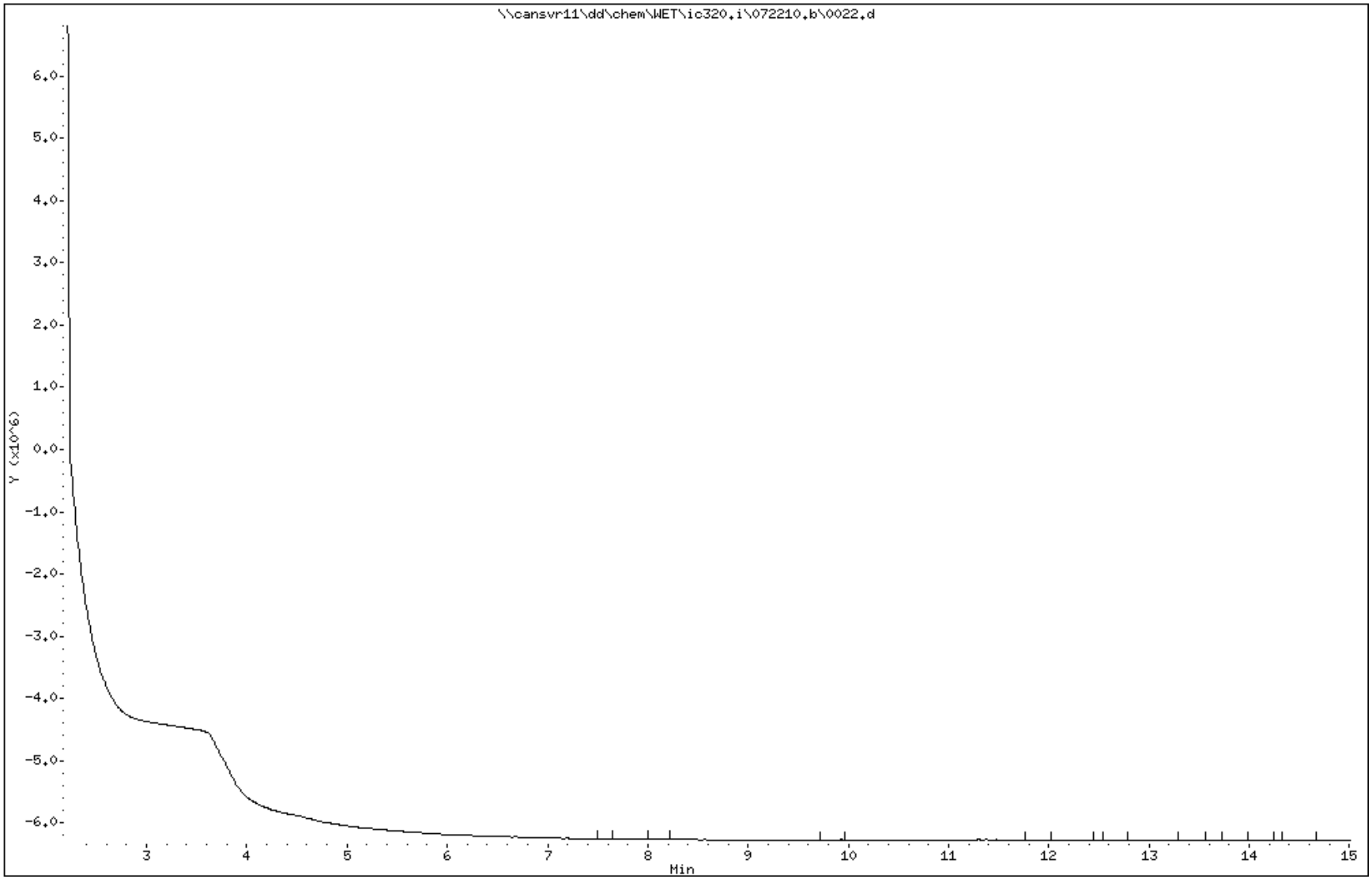
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0022.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 20:50
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0022.d
Date : 22-JUL-2010 20:50
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0023.d
Report Date: 23-Jul-2010 12:03

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0023.d
Lab Smp Id: L4H81 ORG
Inj Date : 22-JUL-2010 21:07
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H81 ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

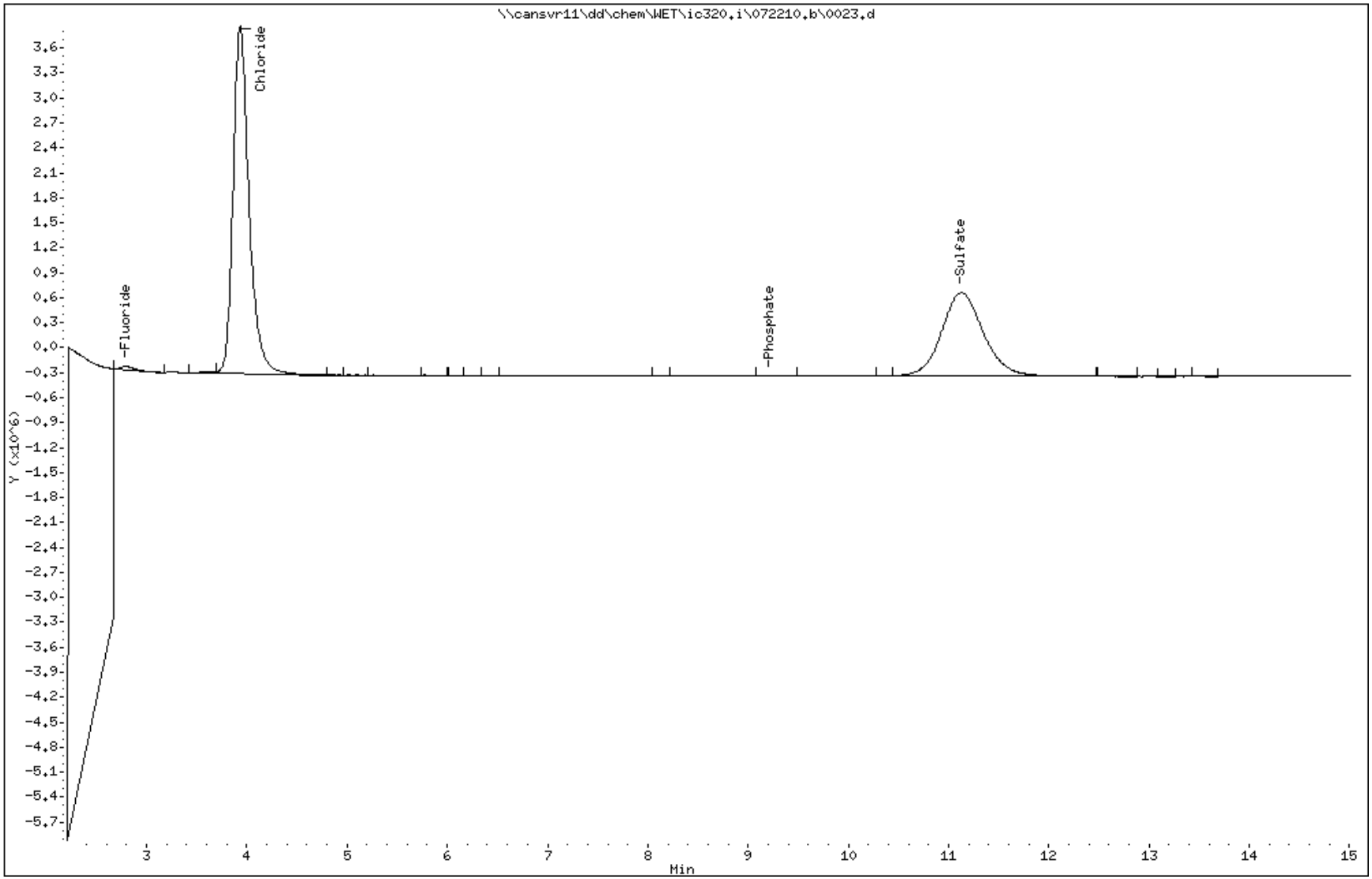
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.791	2.816	-0.025	346024	0.02690	0.02690(aM)
2 Chloride	3.933	4.000	-0.067	46187988	4.51207	4.512
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.208	9.150	0.058	4687	0.04752	0.04752(a)
7 Sulfate	11.125	11.083	0.042	29158612	4.36649	4.366

QC Flag Legend

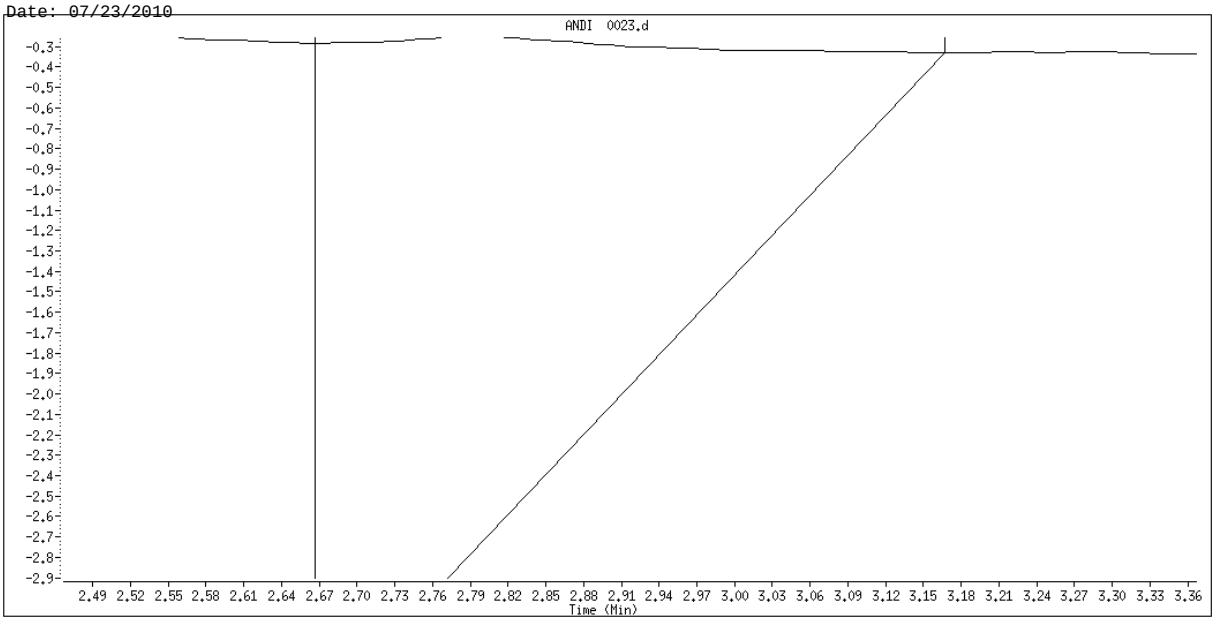
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0023.d
Date : 22-JUL-2010 21:07
Client ID:
Sample Info: L4H81 ORG
Purge Volume: 1.0
Column phase: AS14

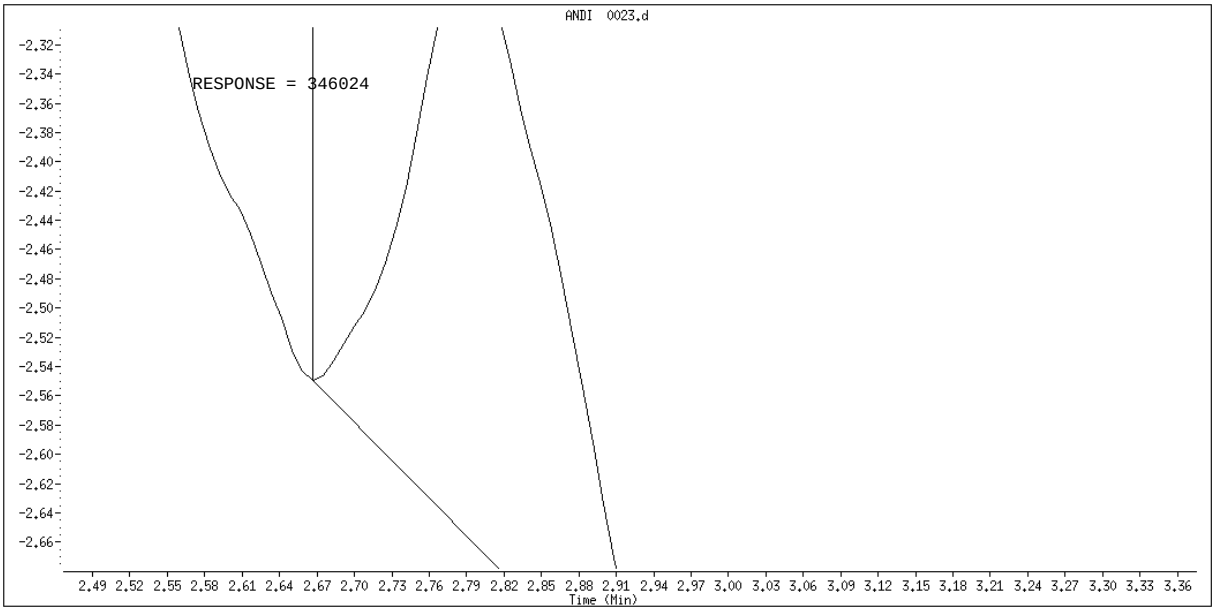
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0023.d
Inj. Date and Time: 22-JUL-2010 21:07
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0024.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0024.d
Lab Smp Id: L4H81 MS
Inj Date : 22-JUL-2010 21:25
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H81 MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

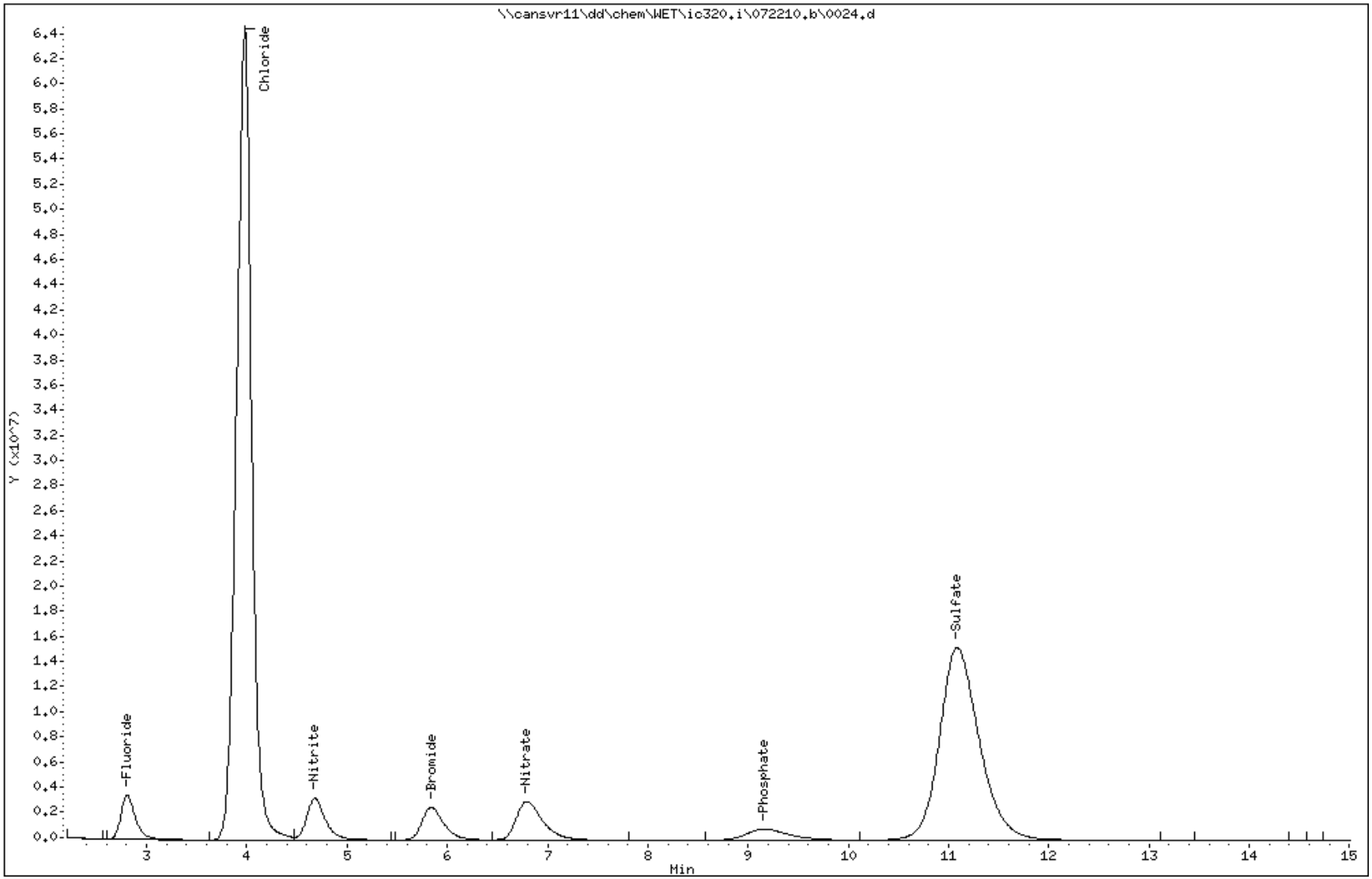
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.808	2.850	-0.042	36282357	2.82034	2.820(R)
2 Chloride	3.983	4.025	-0.042	684775944	66.8953	66.90(R)
3 Nitrite	4.675	4.733	-0.058	43878372	2.43434	2.434
4 Bromide	5.841	5.891	-0.050	39636588	10.8646	10.86
5 Nitrate	6.791	6.841	-0.050	56379572	2.83288	2.833(R)
6 Phosphate	9.158	9.200	-0.042	877947	2.72752	2.728
7 Sulfate	11.083	11.150	-0.067	424518848	63.5715	63.57(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0024.d
Date : 22-JUL-2010 21:25
Client ID:
Sample Info: L4H81 MS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0025.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

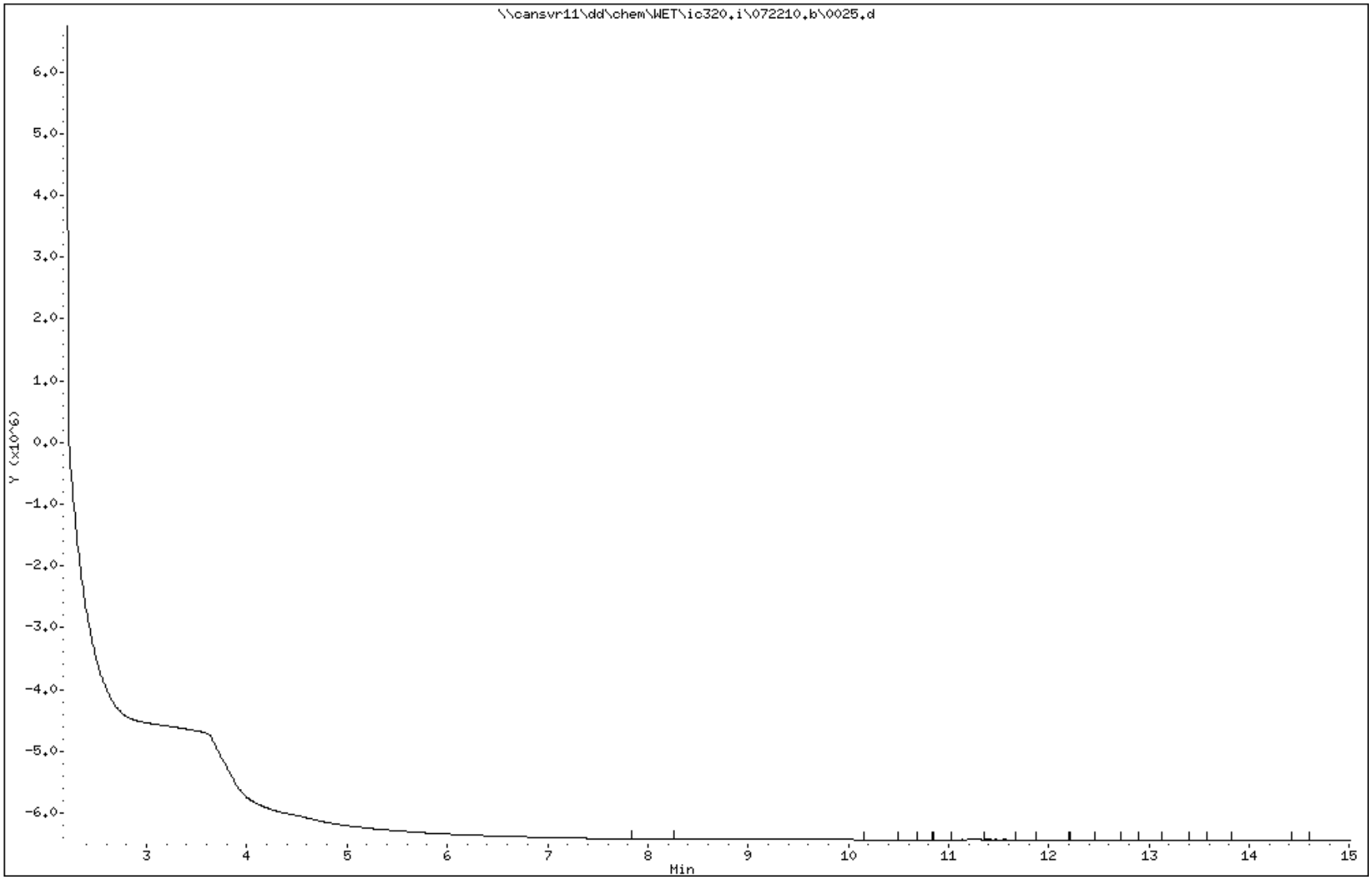
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0025.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 21:42
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0025.d
Date : 22-JUL-2010 21:42
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0026.d
Report Date: 23-Jul-2010 12:04

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0026.d
Lab Smp Id: L4H84
Inj Date : 22-JUL-2010 21:59
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H84
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

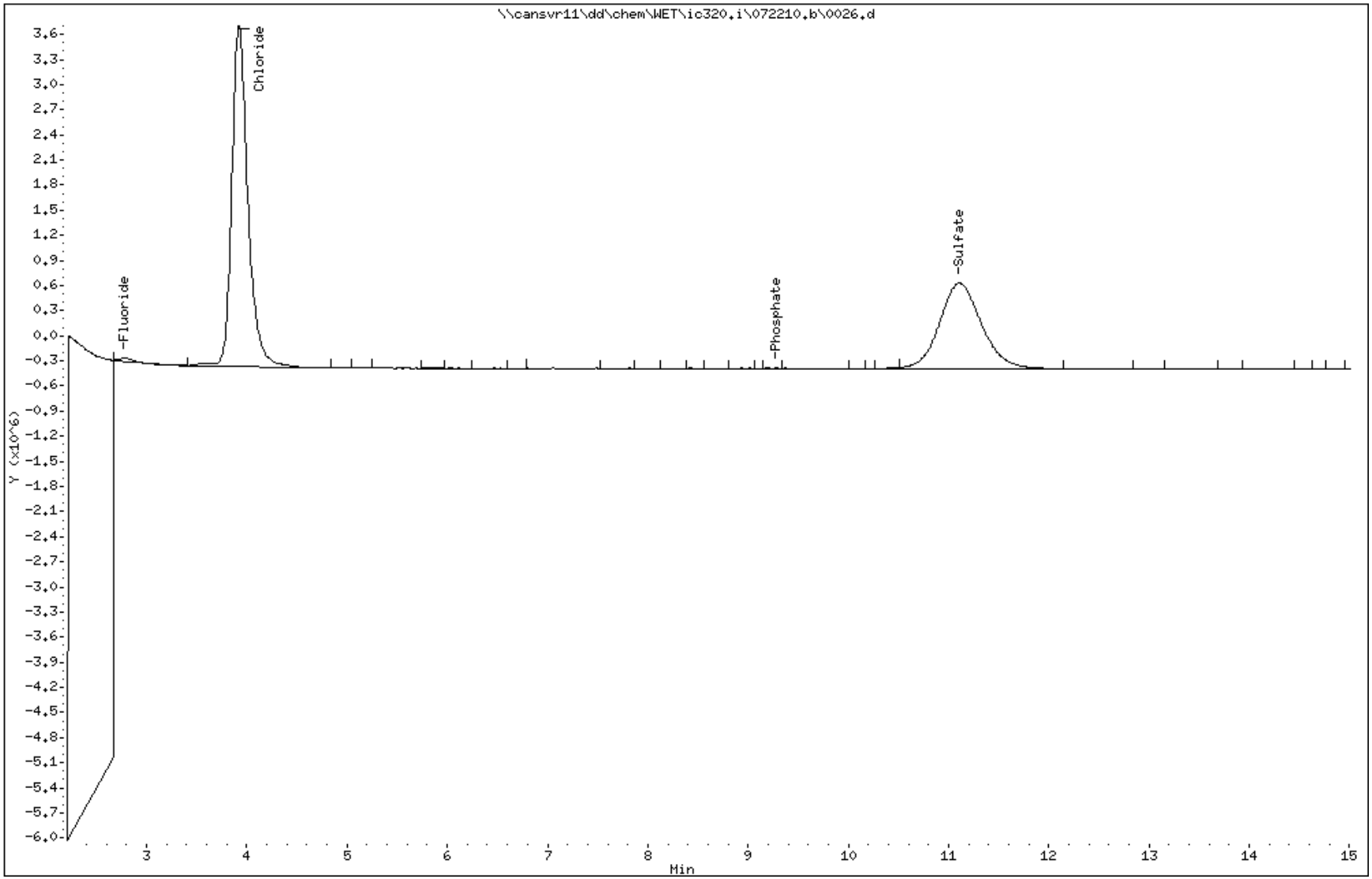
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
2 Chloride	3.925	4.000	-0.075	45377162	4.43286	4.433(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.283	9.150	0.133	4250	0.04613	0.04613(a)
7 Sulfate	11.108	11.083	0.025	29587759	4.43076	4.431

QC Flag Legend

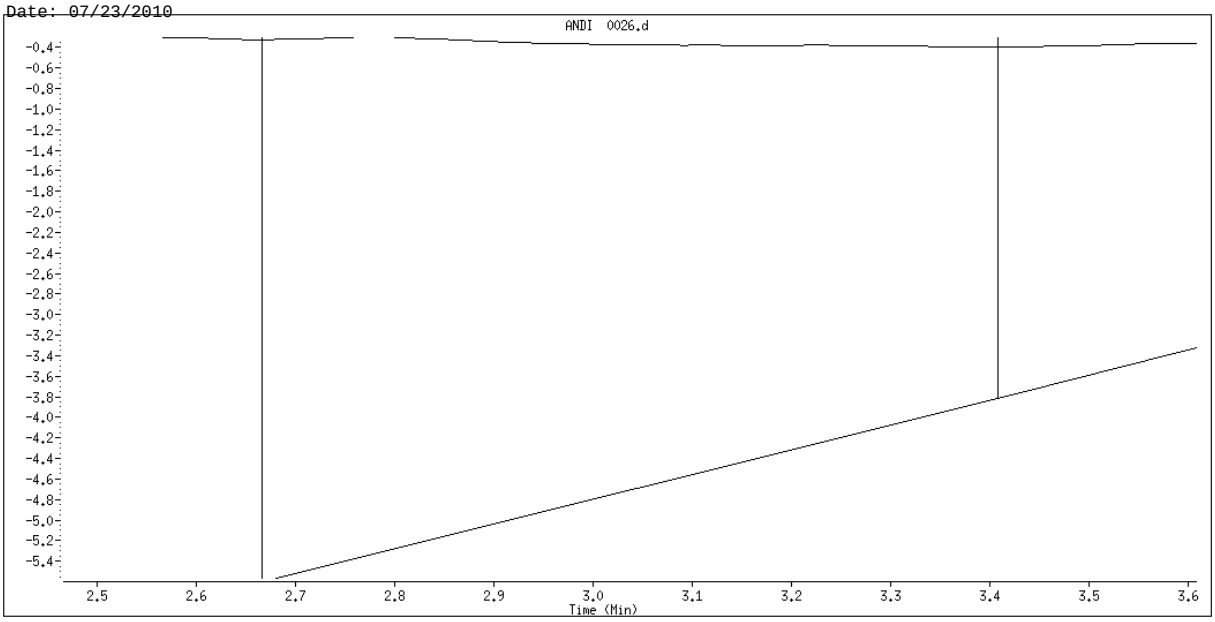
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0026.d
Date : 22-JUL-2010 21:59
Client ID:
Sample Info: L4H84
Purge Volume: 1.0
Column phase: AS14

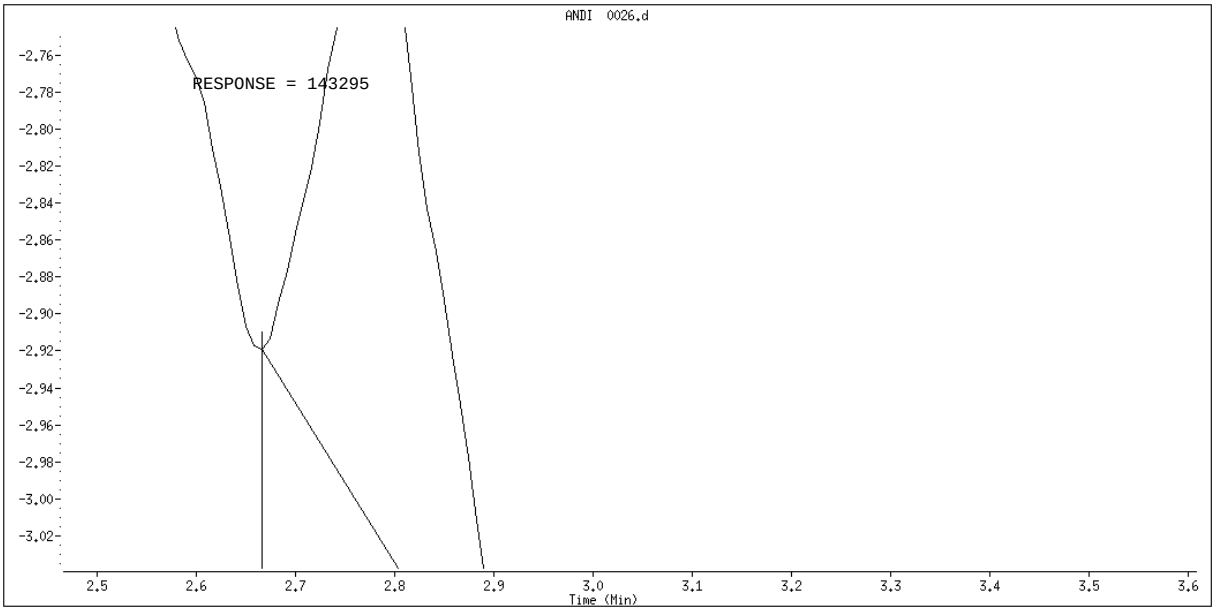
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0026.d
Inj. Date and Time: 22-JUL-2010 21:59
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



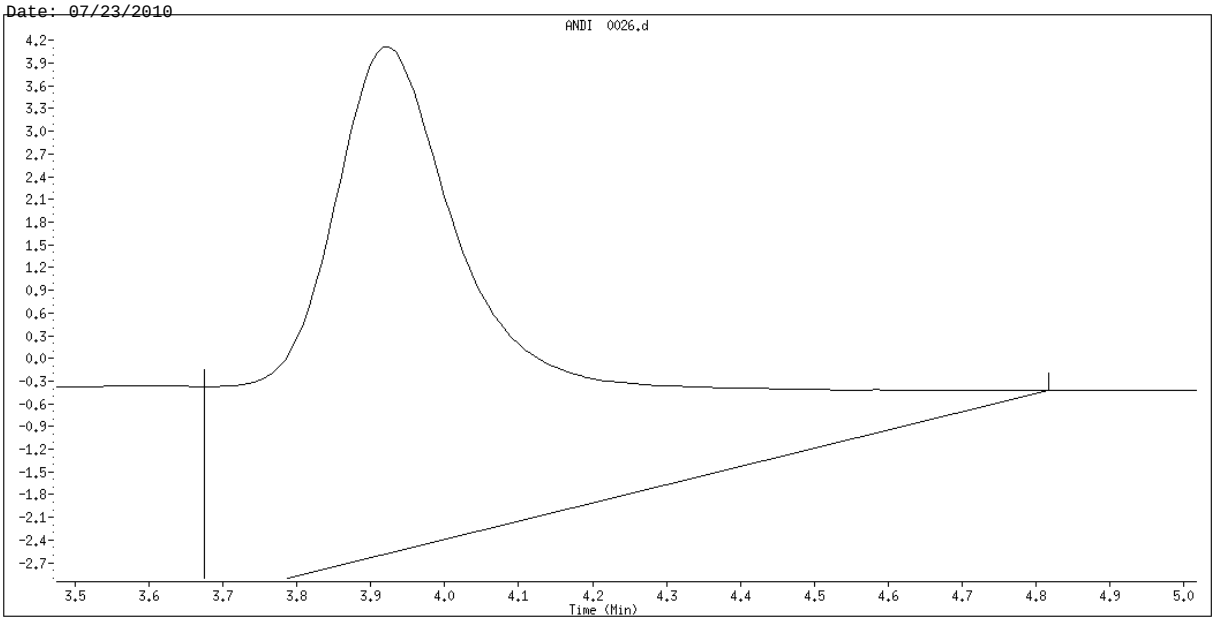
Original Integration



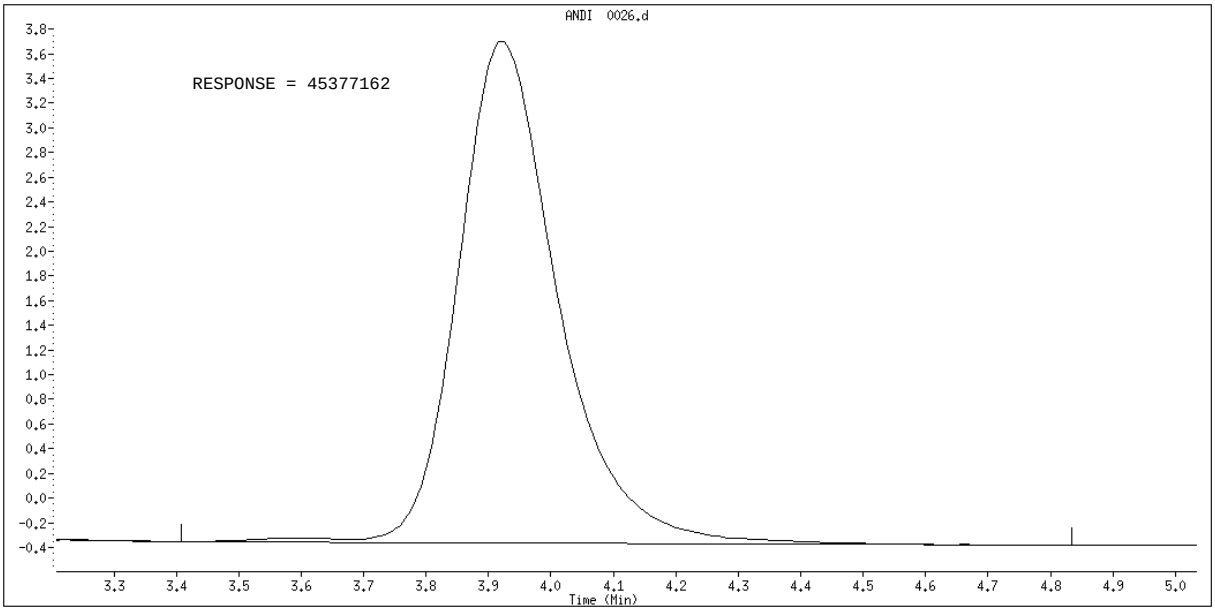
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0026.d
Inj. Date and Time: 22-JUL-2010 21:59
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0027.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic320.i Injection Date: 22-JUL-2010 22:17
Lab File ID: 0027.d Init. Cal. Date(s): 09-JUL-2010 09-JUL-2010
Analysis Type: WATER Init. Cal. Times: 16:19 18:38
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	12864538	12428067	12428067	0.010	3.39282	10.00000	Averaged
2 Chloride	10236534	10538155	10538155	0.010	-2.94651	10.00000	Averaged
3 Nitrite	18024730	17611438	17611438	0.010	2.29292	10.00000	Averaged
4 Bromide	3648240	3472748	3472748	0.010	4.81031	10.00000	Averaged
5 Nitrate	19901858	19569204	19569204	0.010	1.67147	10.00000	Averaged
6 Phosphate	2.50000	2.32864	297376	0.010	6.85449	10.00000	Quadratic
7 Sulfate	6677814	6516707	6516707	0.010	2.41257	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0027.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0027.d
Lab Smp Id: CCV
Inj Date : 22-JUL-2010 22:17
Operator : 001754 Inst ID: ic320.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

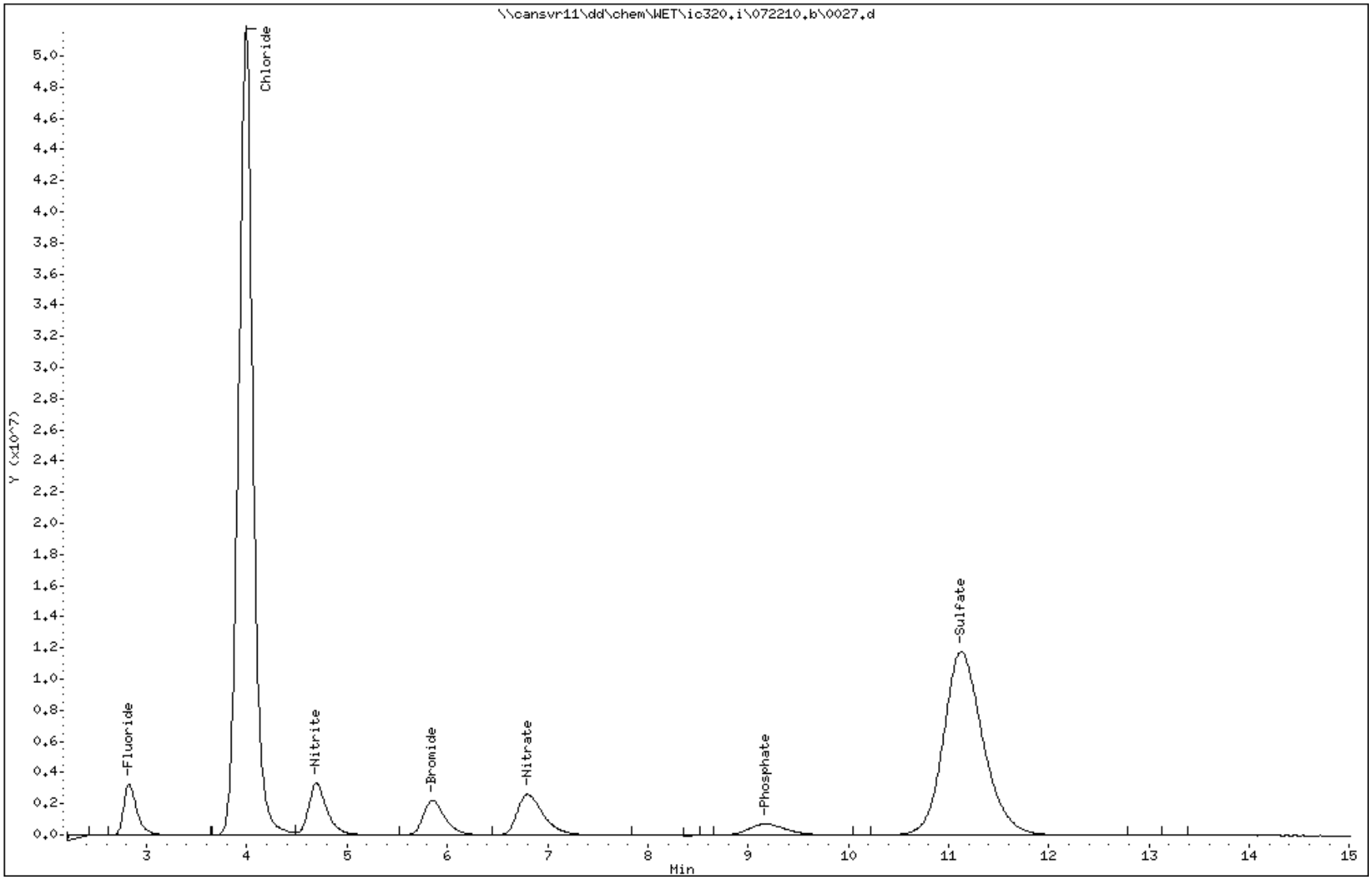
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.825	2.825	0.000	31070168	2.50000	2.415
2 Chloride	3.991	3.991	0.000	526907736	50.0000	51.47
3 Nitrite	4.691	4.691	0.000	44028594	2.50000	2.443
4 Bromide	5.850	5.850	0.000	34727479	10.0000	9.519
5 Nitrate	6.800	6.800	0.000	48923010	2.50000	2.458
6 Phosphate	9.175	9.175	0.000	743440	2.50000	2.329
7 Sulfate	11.125	11.125	0.000	325835344	50.0000	48.79

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0027.d
Date : 22-JUL-2010 22:17
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0028.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0028.d
Lab Smp Id: CCB
Inj Date : 22-JUL-2010 22:34
Operator : 001754 Inst ID: ic320.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

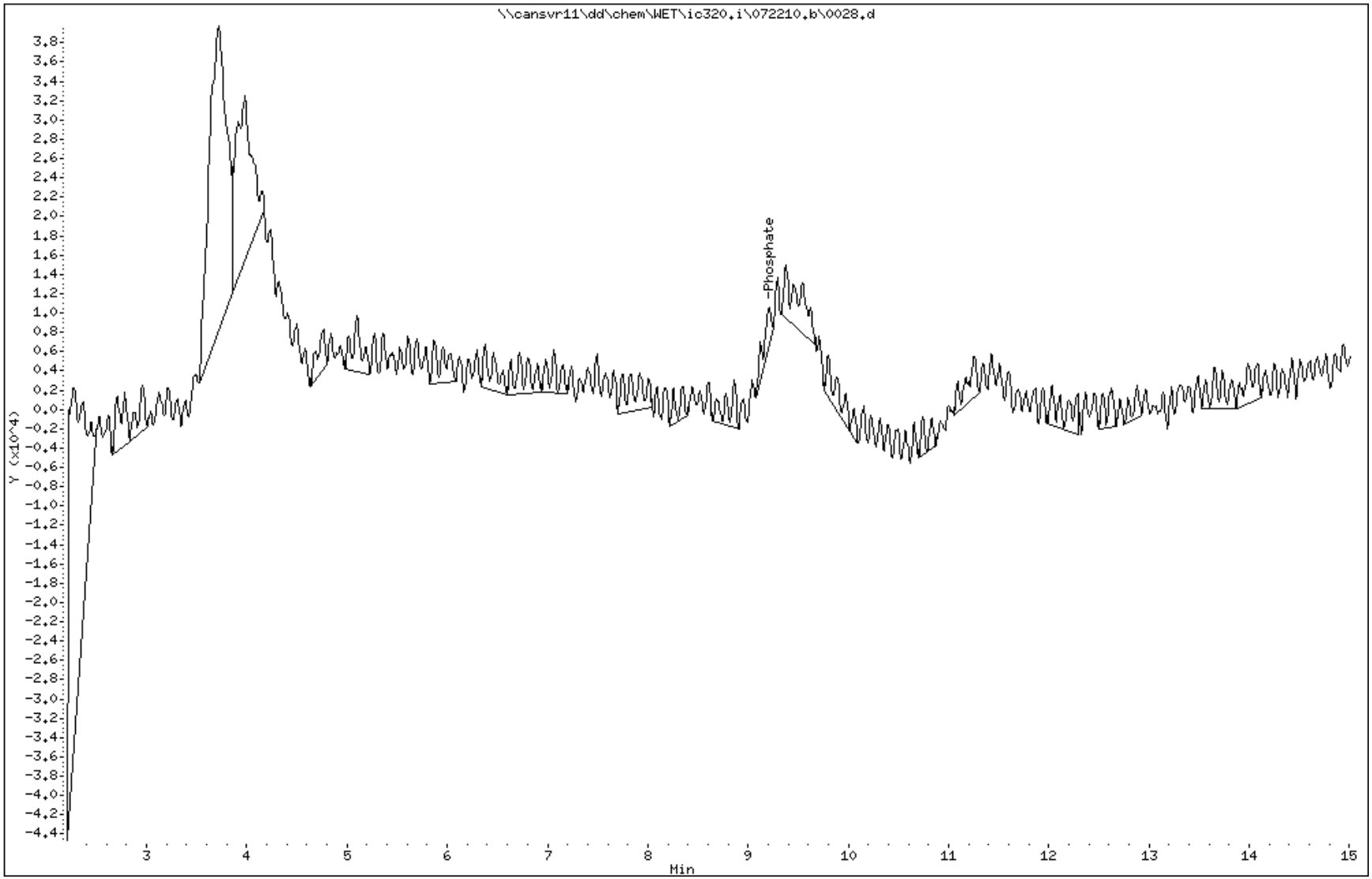
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.208	9.175	0.033	3942	0.04515	0.04515(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0028.d
Date : 22-JUL-2010 22:34
Client ID:
Instrument: ic320.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0029.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0029.d
Lab Smp Id: L4H85
Inj Date : 22-JUL-2010 22:52
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H85
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

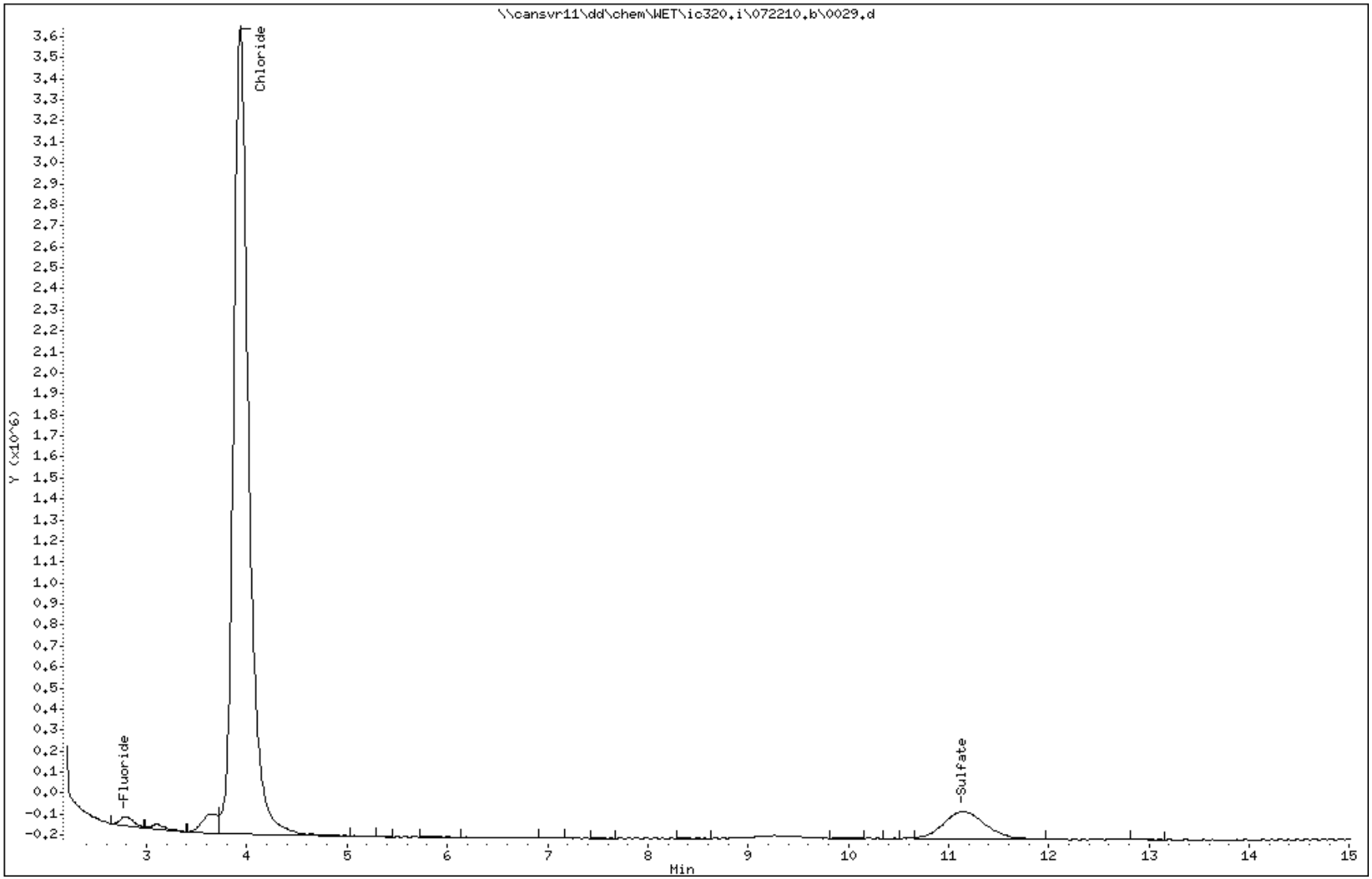
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.783	2.825	-0.042	384880		0.02992	0.02992(a)
2 Chloride	3.933	3.991	-0.058	40976015		4.00292	4.003
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	Compound Not Detected.						
7 Sulfate	11.141	11.125	0.016	3812724		0.57095	0.5710(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0029.d
Date : 22-JUL-2010 22:52
Client ID:
Sample Info: L4H85
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0030.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0030.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 23:09
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

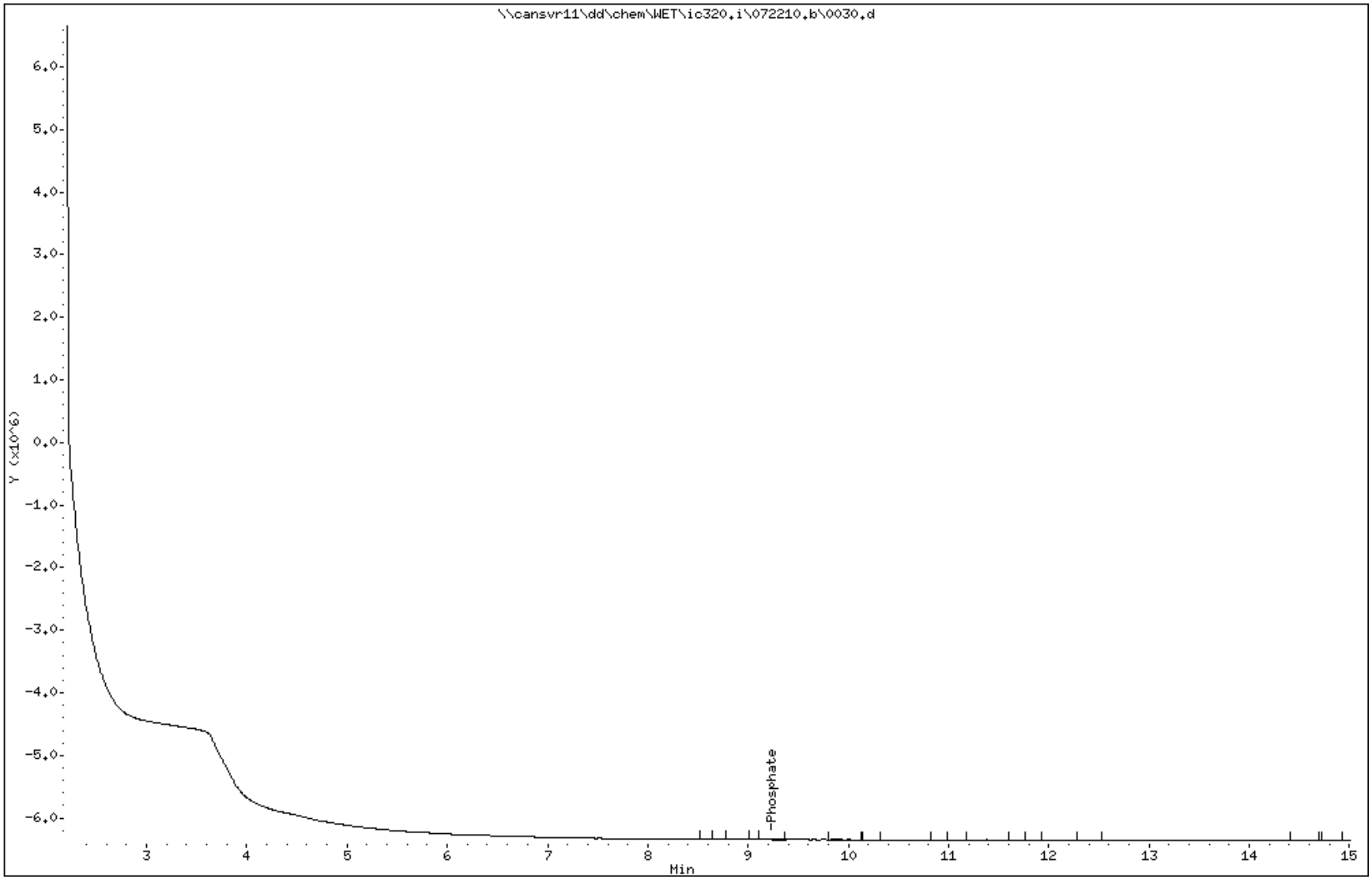
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.241	9.175	0.066	4734	0.04767	0.04767(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0030.d
Date : 22-JUL-2010 23:09
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0031.d
Report Date: 23-Jul-2010 12:05

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0031.d
Lab Smp Id: L4H86
Inj Date : 22-JUL-2010 23:26
Operator : 001754 Inst ID: ic320.i
Smp Info : L4H86
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

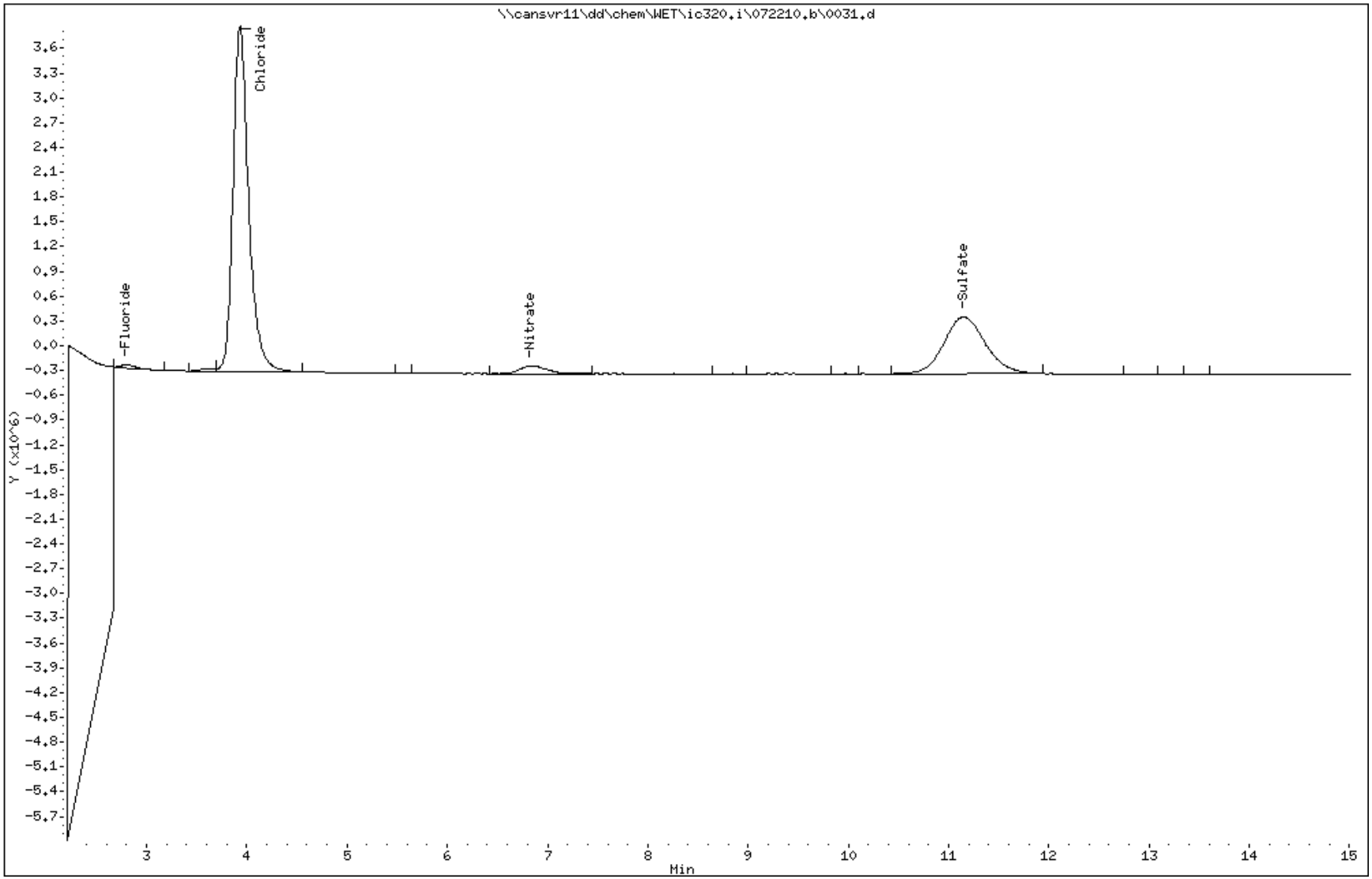
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.791	2.816	-0.025	349809	0.02719	0.02719(aM)
2 Chloride	3.933	4.000	-0.067	45443233	4.43932	4.439
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.833	6.816	0.017	1899038	0.09542	0.09542(a)
6 Phosphate	Compound Not Detected.					
7 Sulfate	11.150	11.083	0.067	19716938	2.95260	2.953

QC Flag Legend

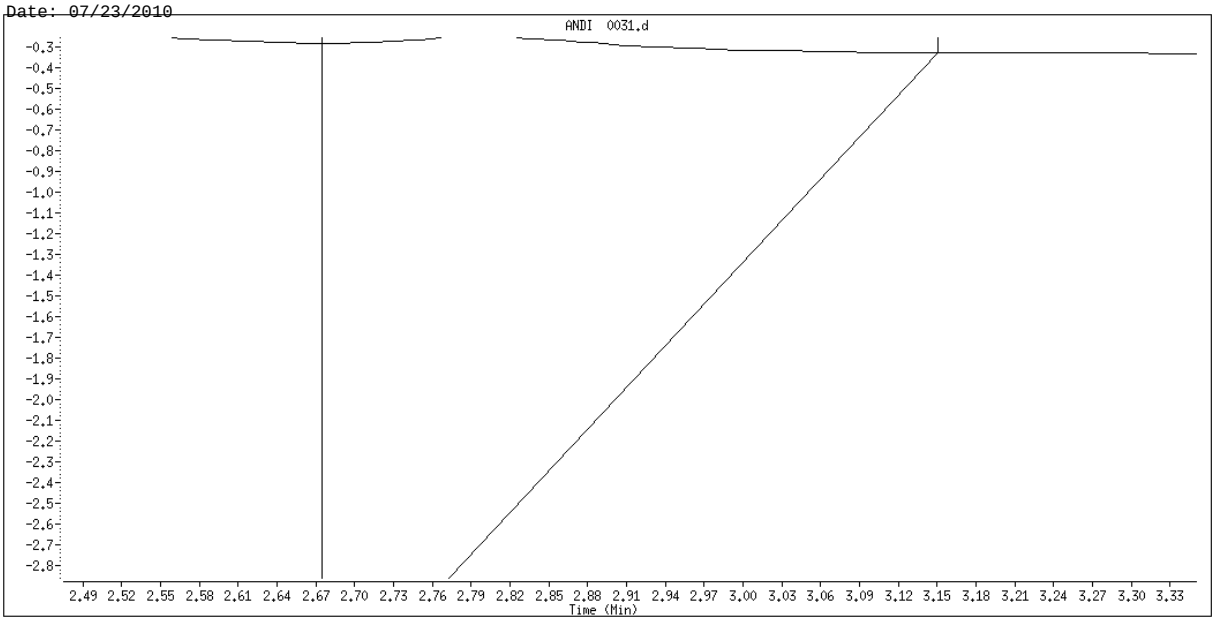
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0031.d
Date : 22-JUL-2010 23:26
Client ID:
Sample Info: L4H86
Purge Volume: 1.0
Column phase: AS14

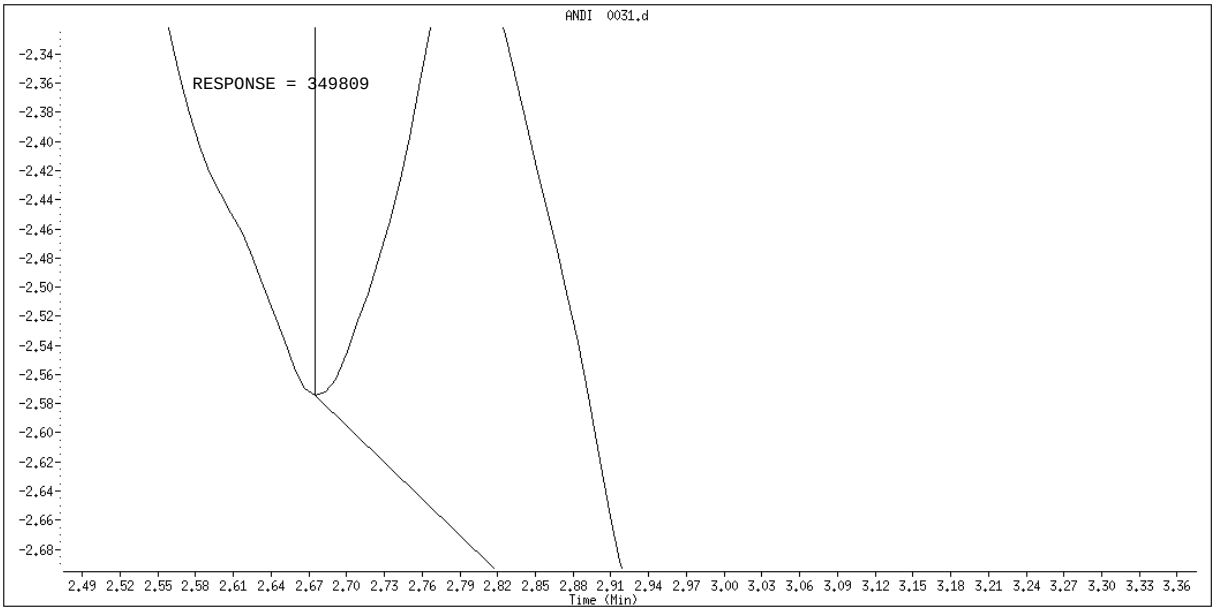
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0031.d
Inj. Date and Time: 22-JUL-2010 23:26
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0032.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0032.d
Lab Smp Id: CE
Inj Date : 22-JUL-2010 23:44
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

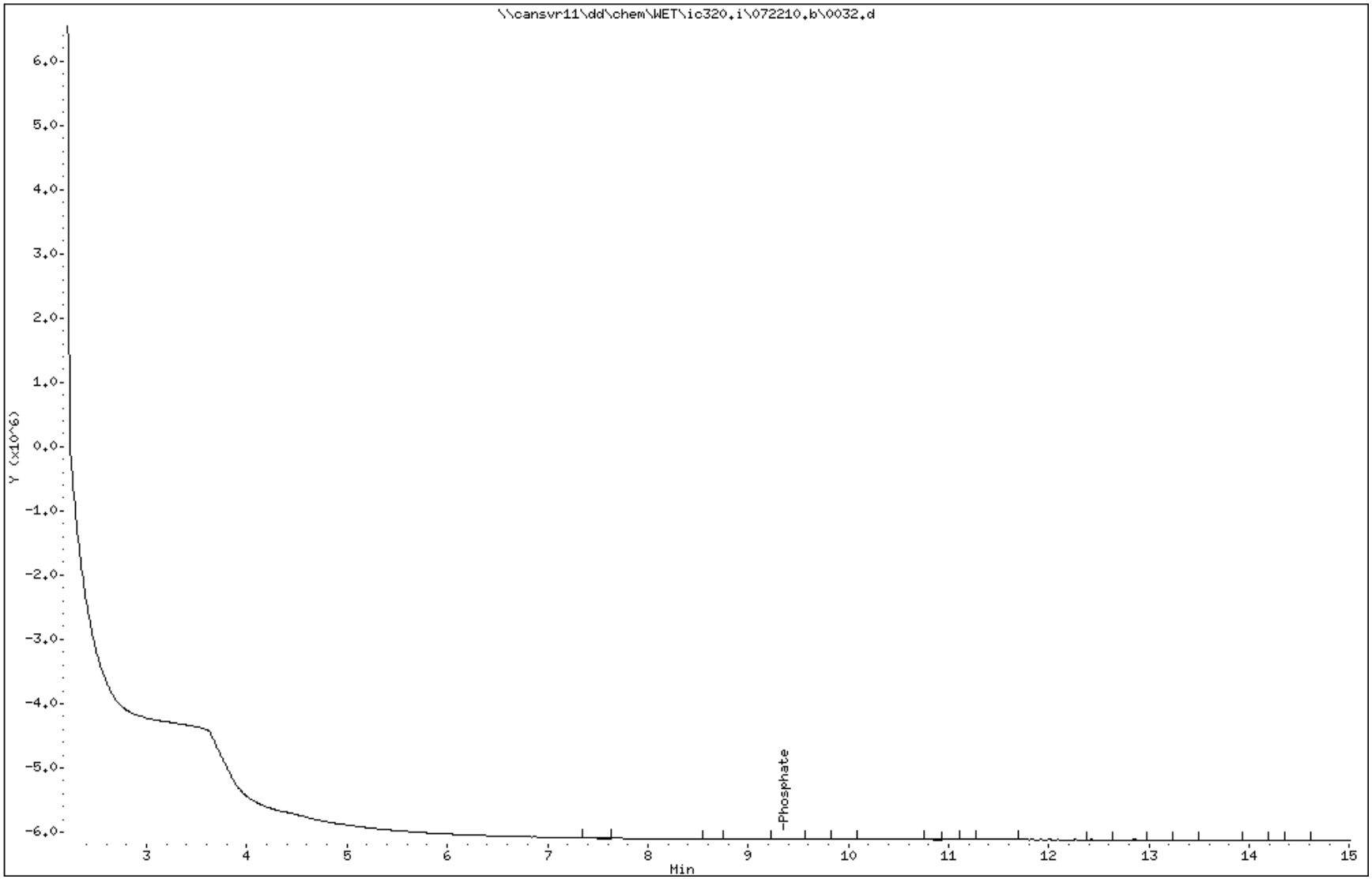
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.358	9.175	0.183	3310	0.04313	0.04313(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0032.d
Date : 22-JUL-2010 23:44
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0033.d
Report Date: 23-Jul-2010 12:05

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0033.d
Lab Smp Id: L4JDK
Inj Date : 23-JUL-2010 00:01
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JDK
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

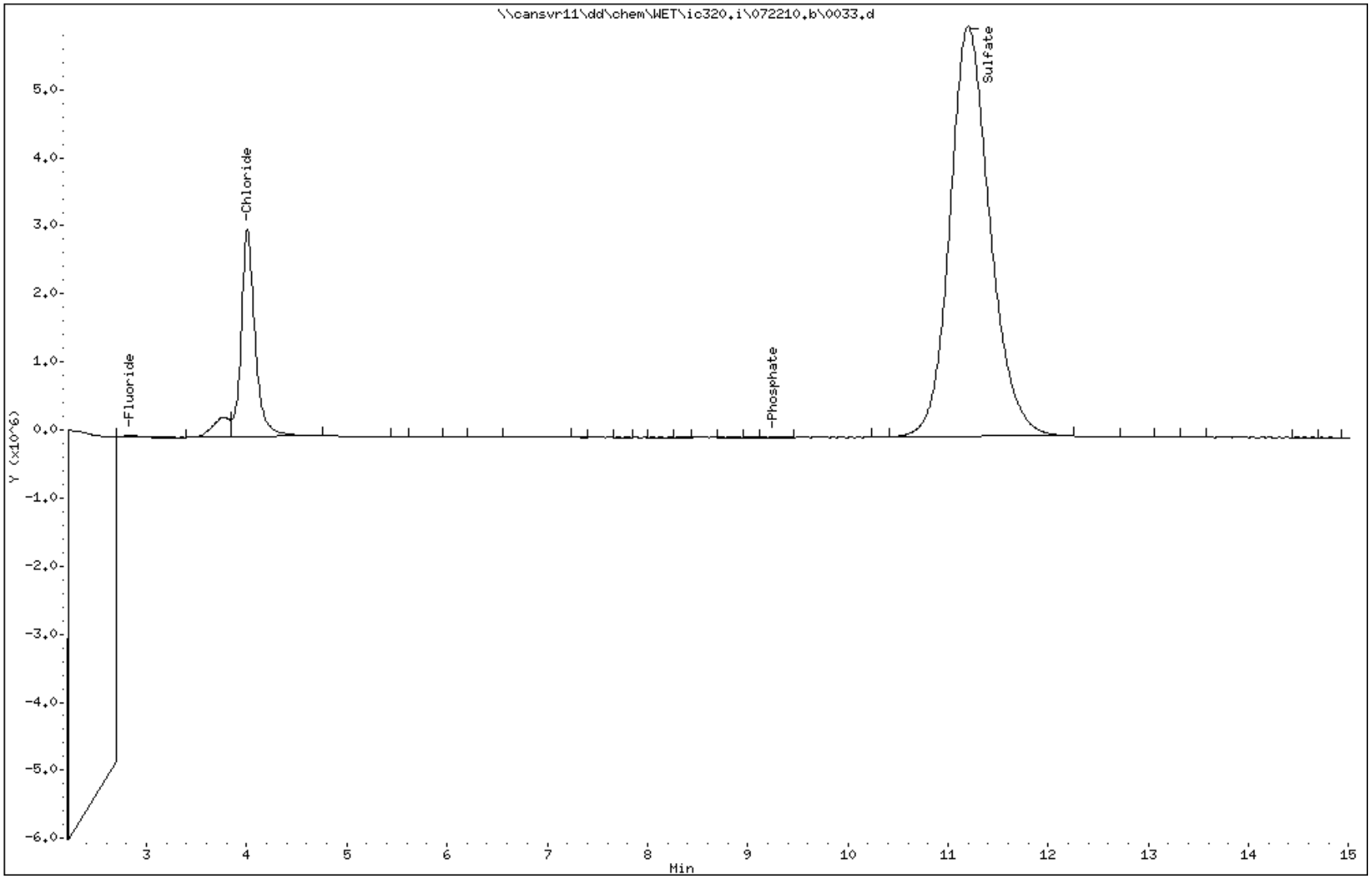
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.833	2.816	0.017	408084	0.03172	0.03172(aM)
2 Chloride	4.008	4.000	0.008	29076784	2.84049	2.840(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.250	9.150	0.100	3501	0.04374	0.04374(a)
7 Sulfate	11.200	11.083	0.117	167857476	25.1366	25.14

QC Flag Legend

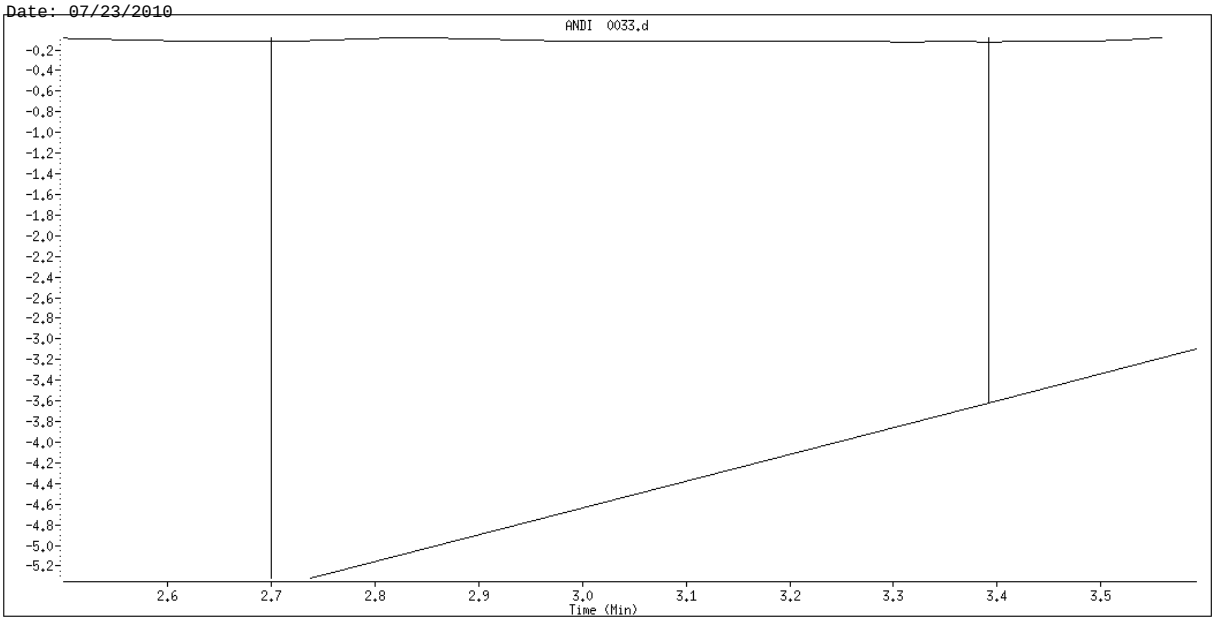
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0033.d
Date : 23-JUL-2010 00:01
Client ID:
Sample Info: L4JDK
Purge Volume: 1.0
Column phase: AS14

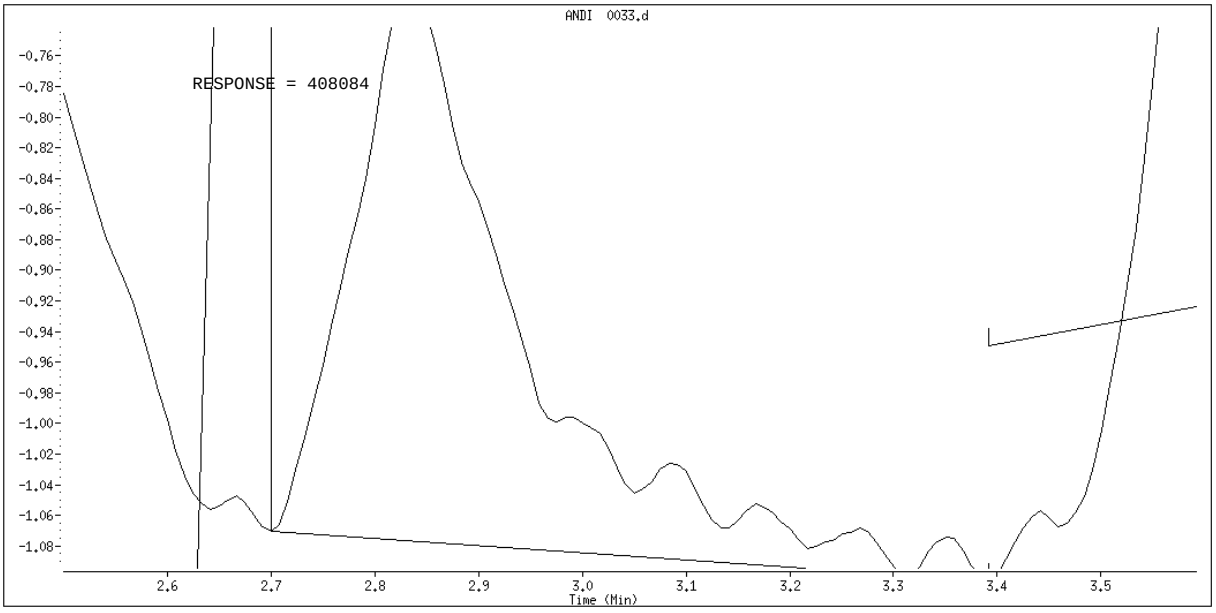
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0033.d
Inj. Date and Time: 23-JUL-2010 00:01
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



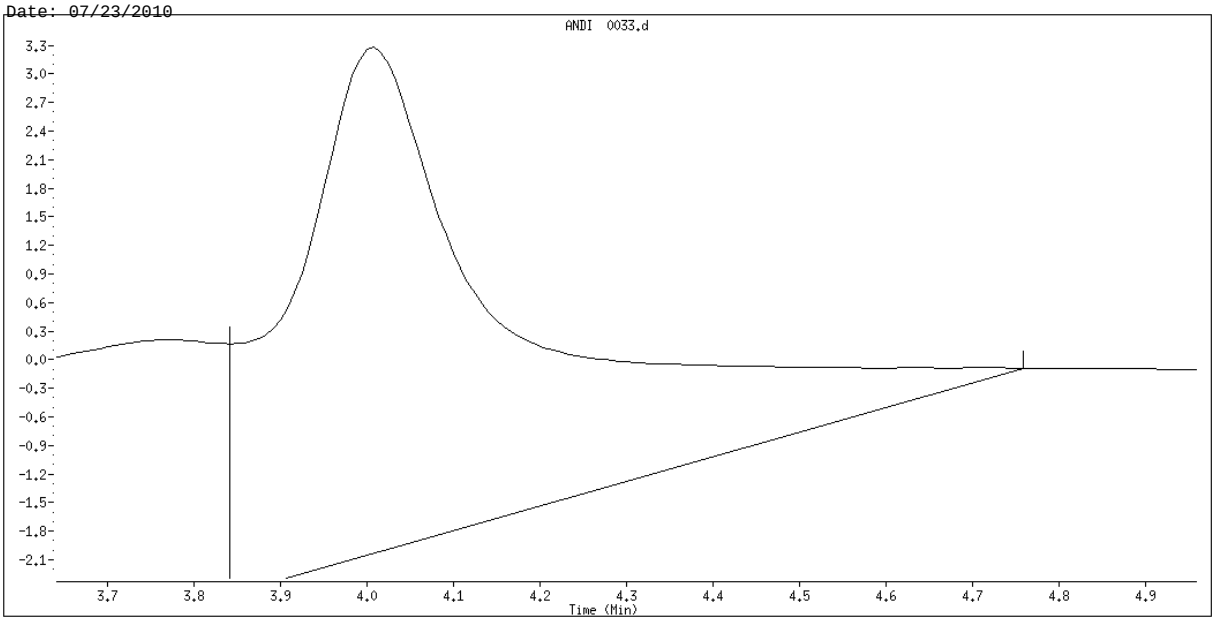
Original Integration



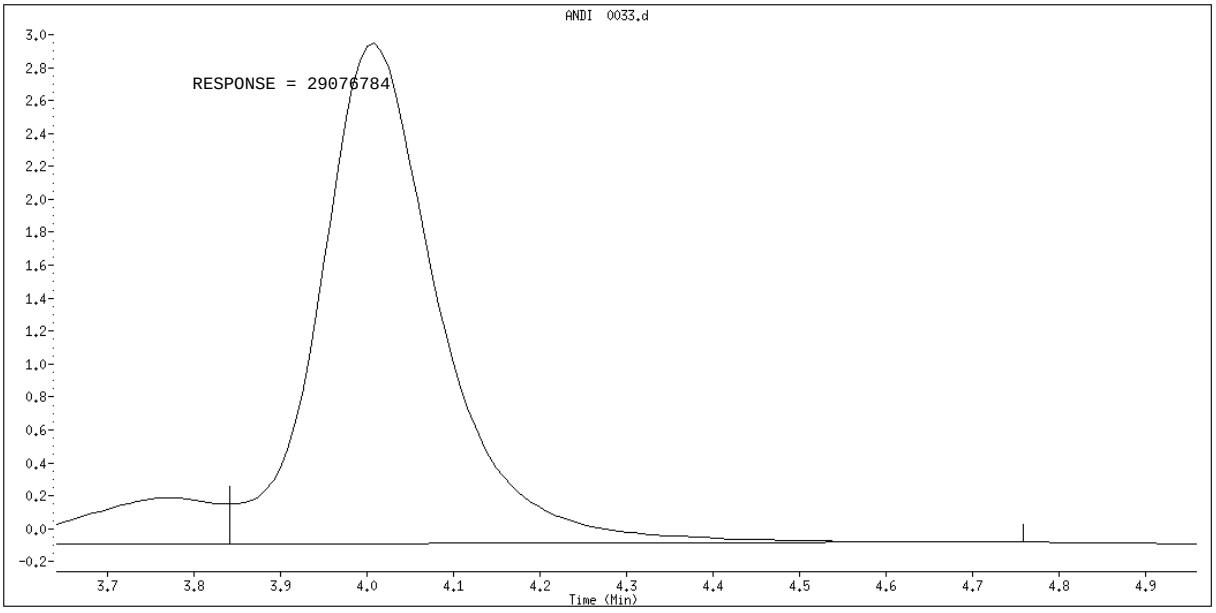
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0033.d
Inj. Date and Time: 23-JUL-2010 00:01
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0034.d
Report Date: 23-Jul-2010 12:06

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0034.d
Lab Smp Id: L4JD0
Inj Date : 23-JUL-2010 00:19
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JD0
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

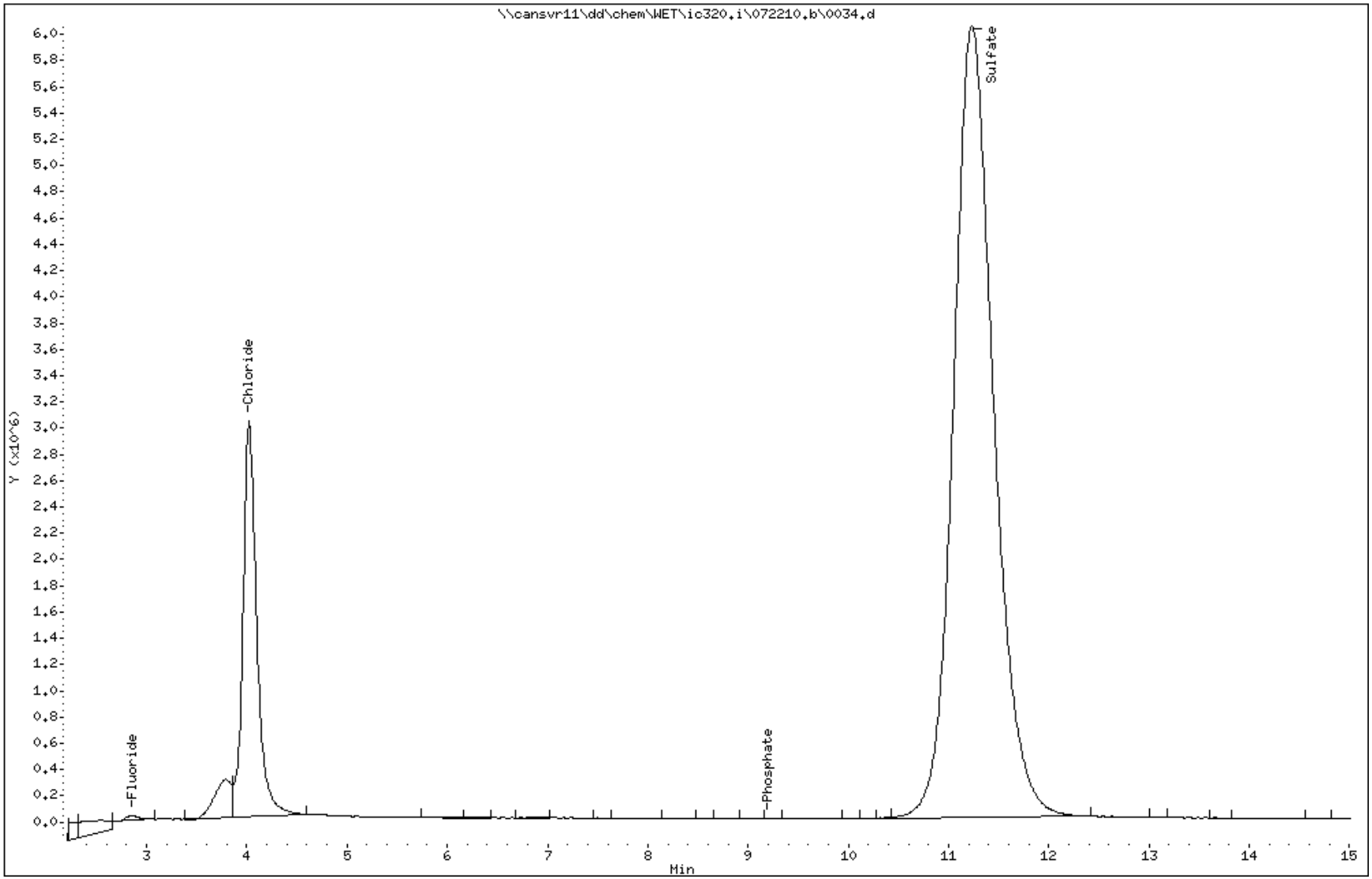
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.858	2.816	0.042	344491	0.02678	0.02678(aM)
2 Chloride	4.025	4.000	0.025	28893729	2.82261	2.823
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.200	9.150	0.050	2310	0.03994	0.03994(a)
7 Sulfate	11.233	11.083	0.150	168355375	25.2112	25.21

QC Flag Legend

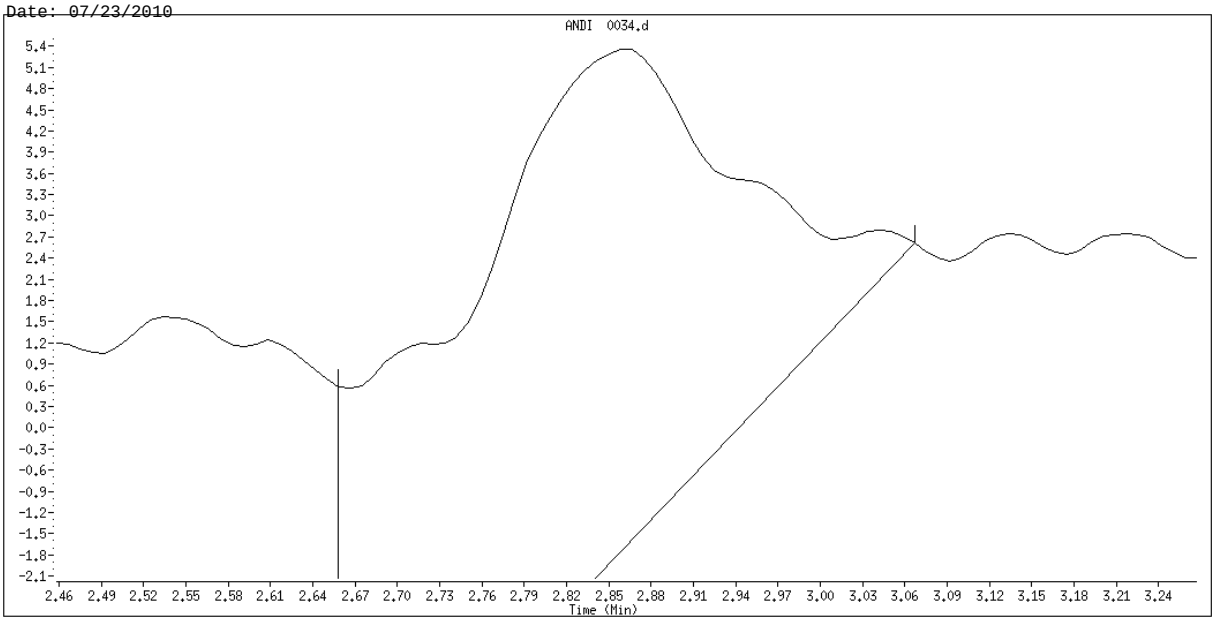
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0034.d
Date : 23-JUL-2010 00:19
Client ID:
Sample Info: L4JD0
Purge Volume: 1.0
Column phase: AS14

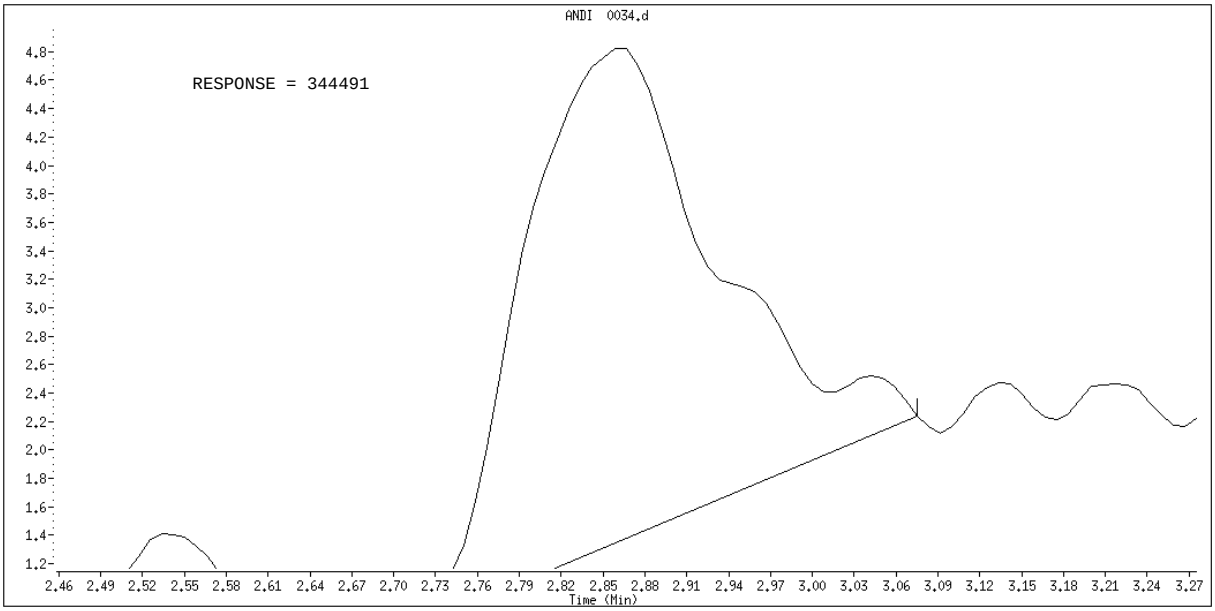
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0034.d
Inj. Date and Time: 23-JUL-2010 00:19
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



Original Integration



Manual Integration

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0035.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0035.d
Lab Smp Id: L4JD3 ORG
Inj Date : 23-JUL-2010 00:36
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JD3 ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

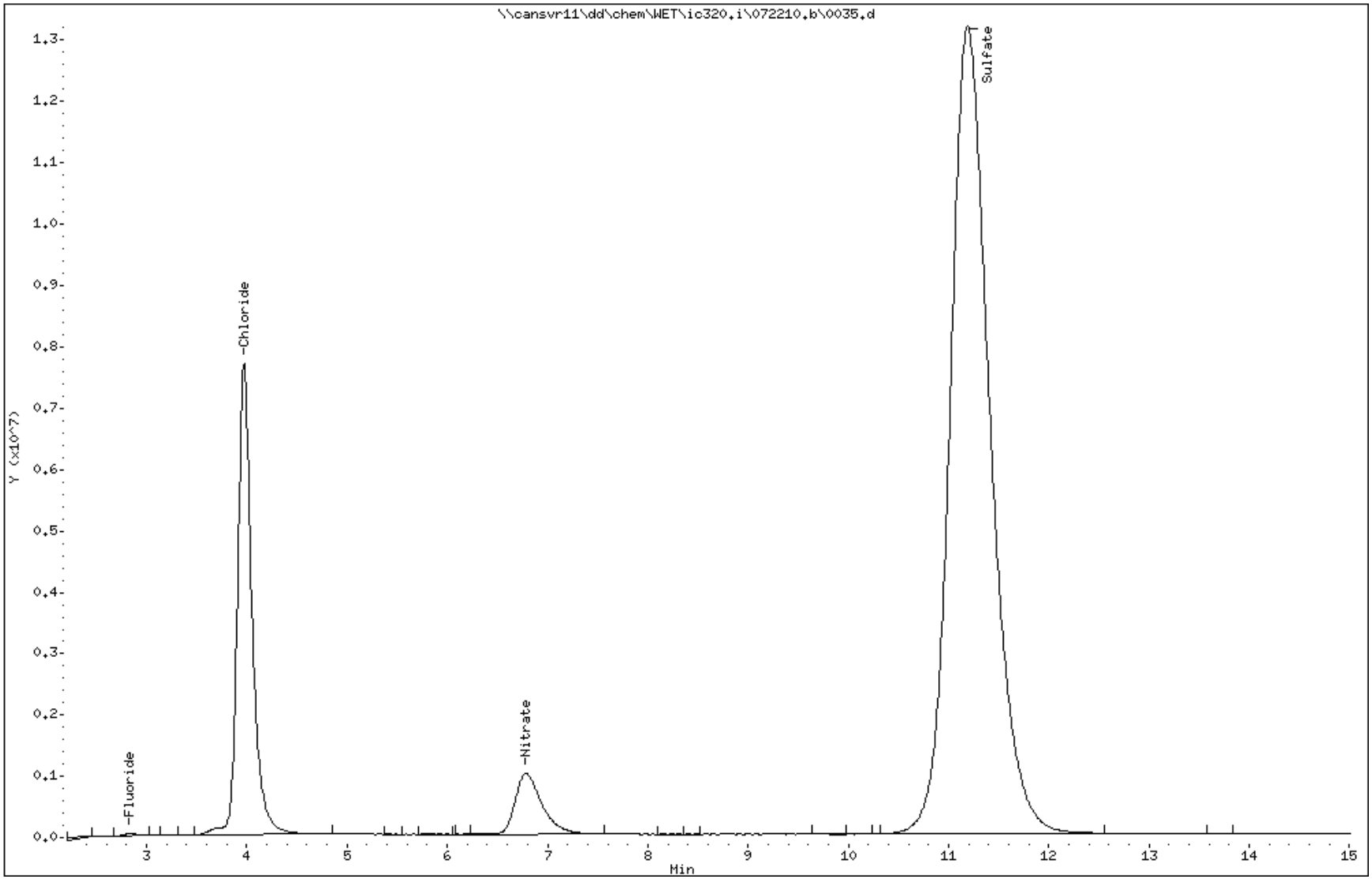
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.841	2.825	0.016	277072	0.02154	0.02154(a)
2 Chloride	3.975	3.991	-0.016	77591999	7.57991	7.580
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.783	6.800	-0.017	18228880	0.91594	0.9159
6 Phosphate	Compound Not Detected.					
7 Sulfate	11.191	11.125	0.066	364490286	54.5823	54.58

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0035.d
Date : 23-JUL-2010 00:36
Client ID:
Sample Info: L4JD3 ORG
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0036.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0036.d
Lab Smp Id: L4JD3 MS
Inj Date : 23-JUL-2010 00:53
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JD3 MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

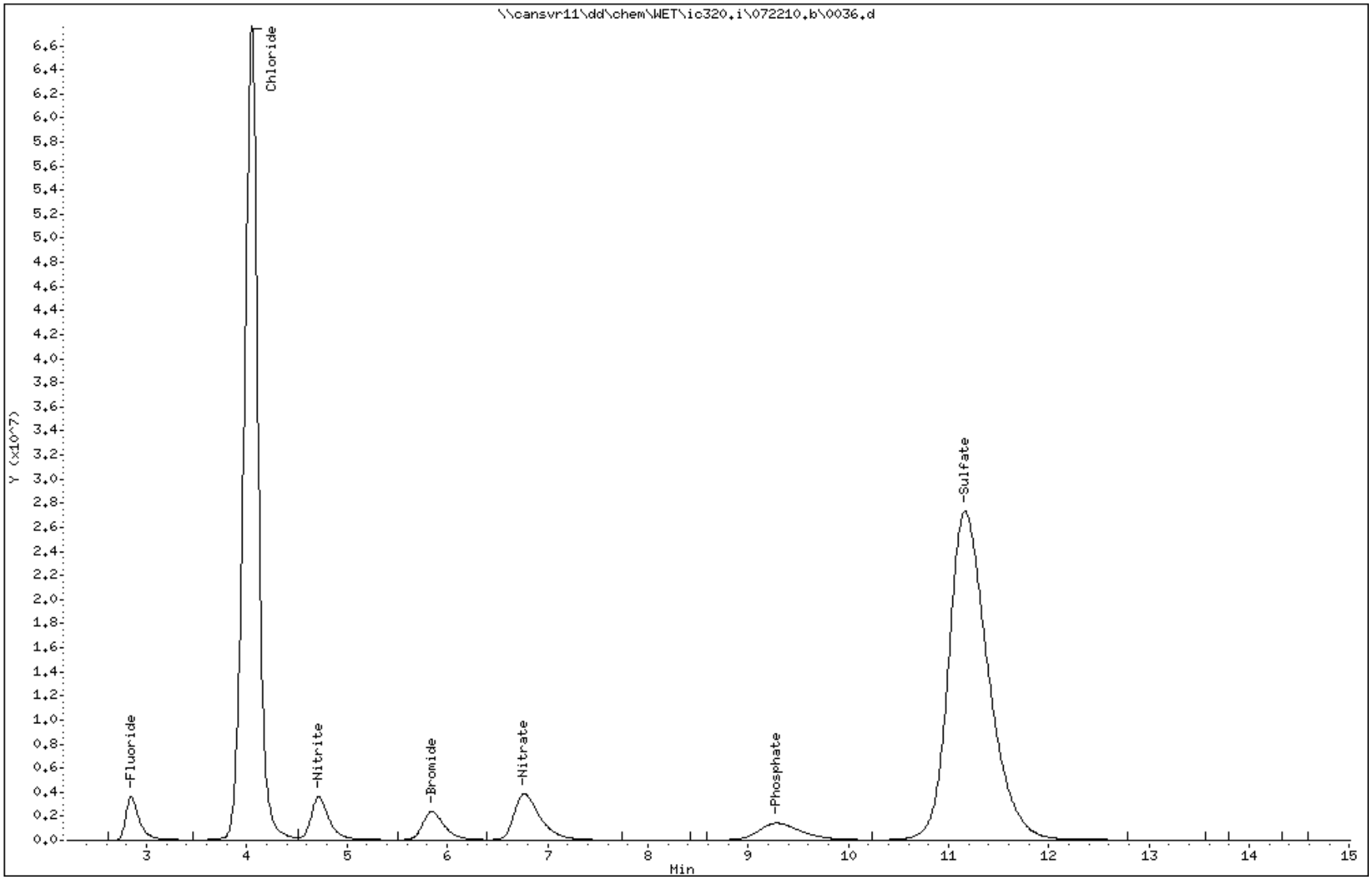
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.850	2.825	0.025	34593231	2.68904	2.689
2 Chloride	4.050	3.991	0.059	658899770	64.3675	64.37(R)
3 Nitrite	4.716	4.691	0.025	45447500	2.52140	2.521
4 Bromide	5.841	5.850	-0.009	35244361	9.66065	9.661
5 Nitrate	6.766	6.800	-0.034	69395587	3.48689	3.487(R)
6 Phosphate	9.283	9.175	0.108	1403569	4.23769	4.238(R)
7 Sulfate	11.166	11.125	0.041	750313018	112.359	112.4(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0036.d
Date : 23-JUL-2010 00:53
Client ID:
Instrument: ic320.i
Sample Info: L4JD3 MS,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0037.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0037.d
Lab Smp Id: L4JD3 MSD
Inj Date : 23-JUL-2010 01:11
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JD3 MSD,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

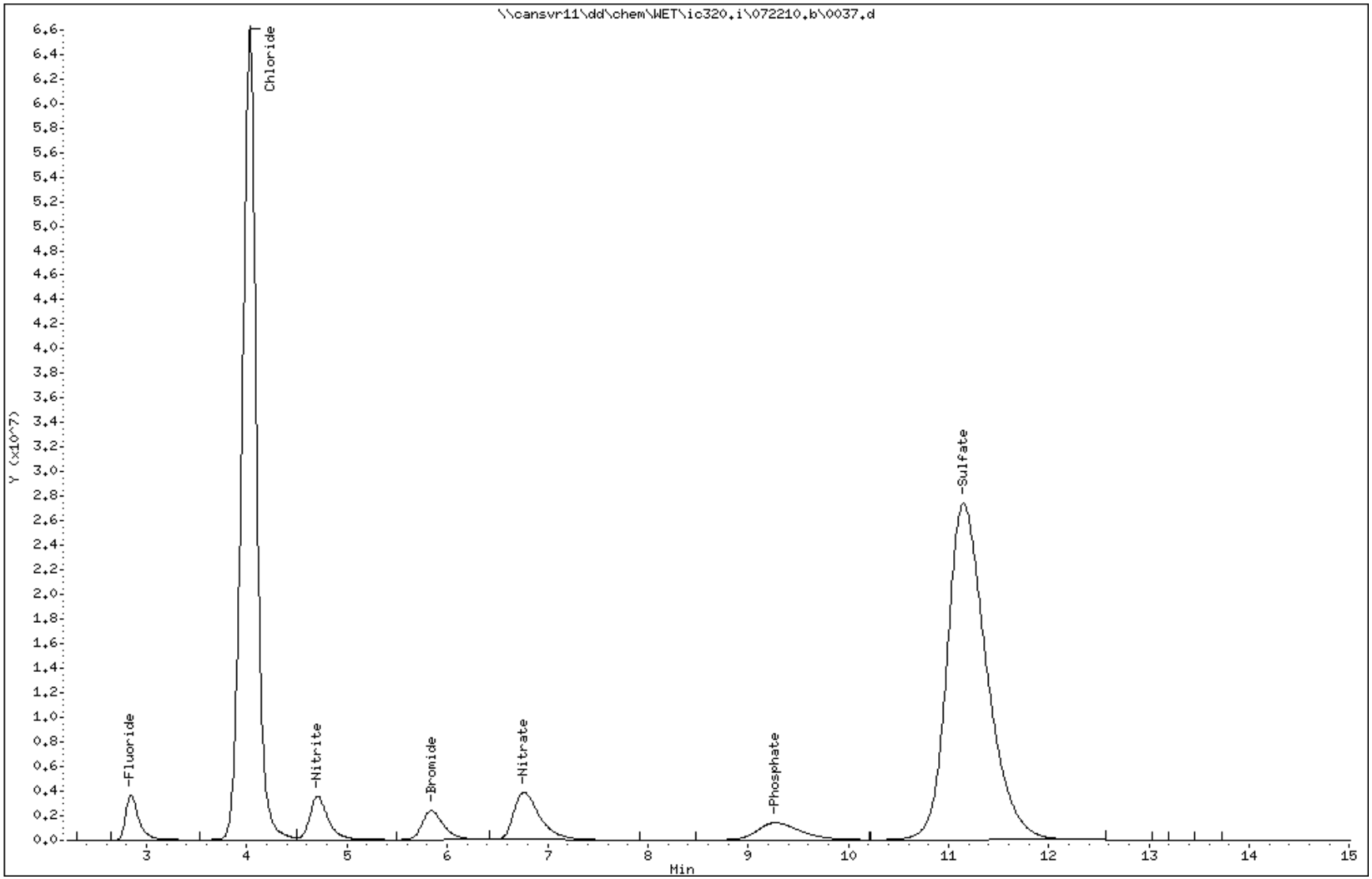
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.841	2.825	0.016	34369960	2.67168	2.672
2 Chloride	4.033	3.991	0.042	660559805	64.5296	64.53(R)
3 Nitrite	4.708	4.691	0.017	45743776	2.53783	2.538
4 Bromide	5.841	5.850	-0.009	35597758	9.75752	9.758
5 Nitrate	6.766	6.800	-0.034	69824875	3.50846	3.508(R)
6 Phosphate	9.275	9.175	0.100	1395180	4.21419	4.214(R)
7 Sulfate	11.150	11.125	0.025	750472146	112.383	112.4(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0037.d
Date : 23-JUL-2010 01:11
Client ID:
Sample Info: L4JD3 MSD,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0038.d
Report Date: 23-Jul-2010 12:07

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0038.d
Lab Smp Id: L4JEC
Inj Date : 23-JUL-2010 01:28
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JEC
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

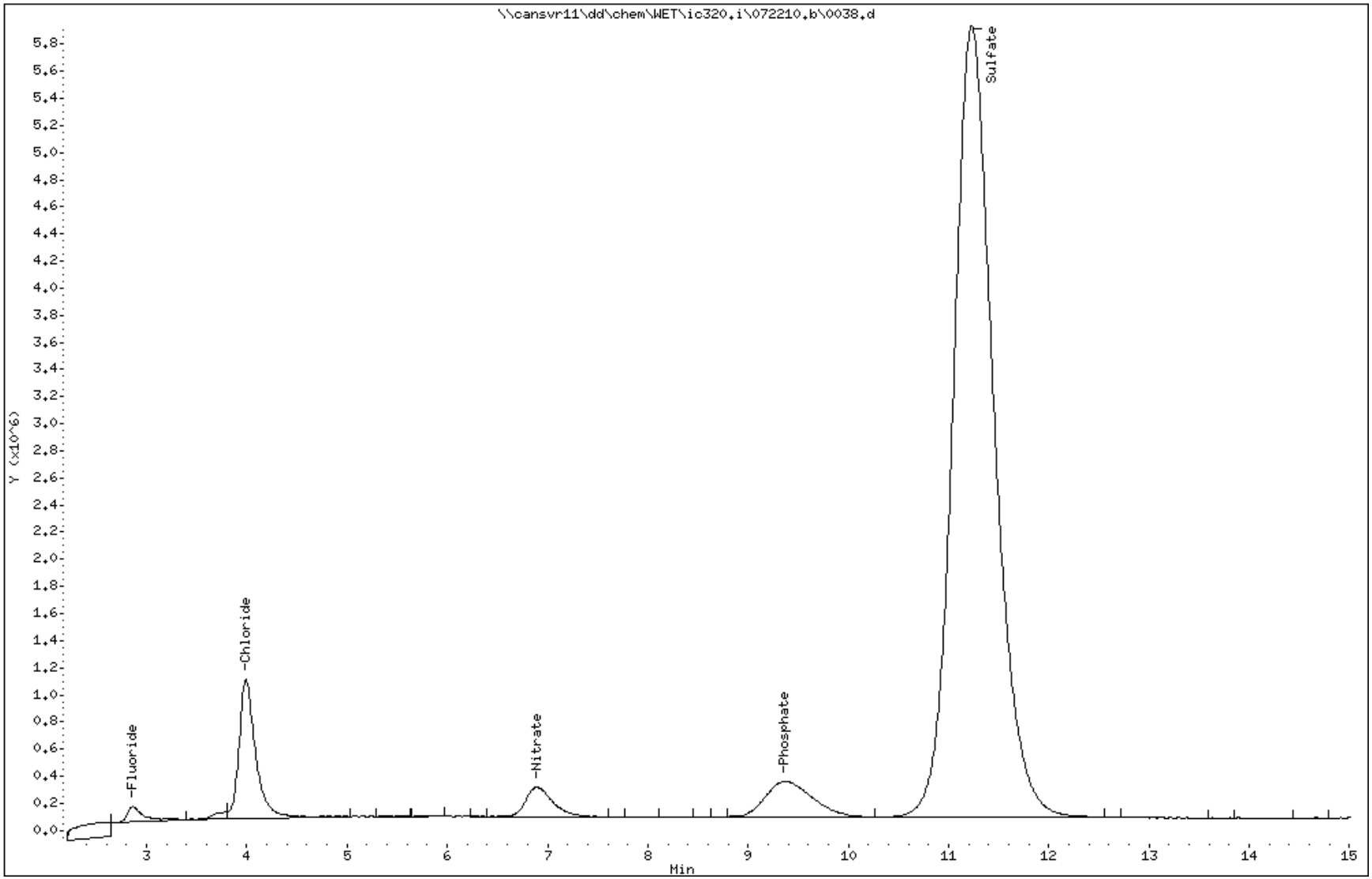
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
1 Fluoride	2.858	2.816	0.042	1287688	0.10010	0.1001(M)
2 Chloride	3.991	4.000	-0.009	11968415	1.16919	1.169(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.891	6.816	0.075	4236314	0.21286	0.2129
6 Phosphate	9.366	9.150	0.216	265111	0.86910	0.8691
7 Sulfate	11.233	11.083	0.150	164451737	24.6266	24.63

QC Flag Legend

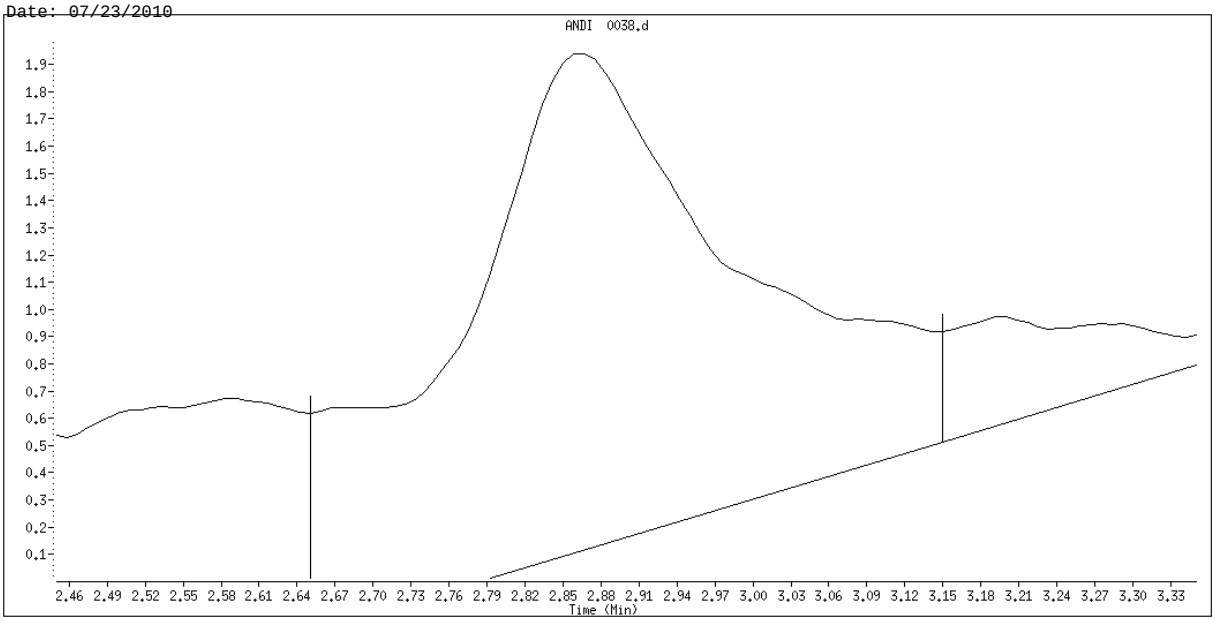
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0038.d
Date : 23-JUL-2010 01:28
Client ID:
Sample Info: L4JEC
Purge Volume: 1.0
Column phase: AS14

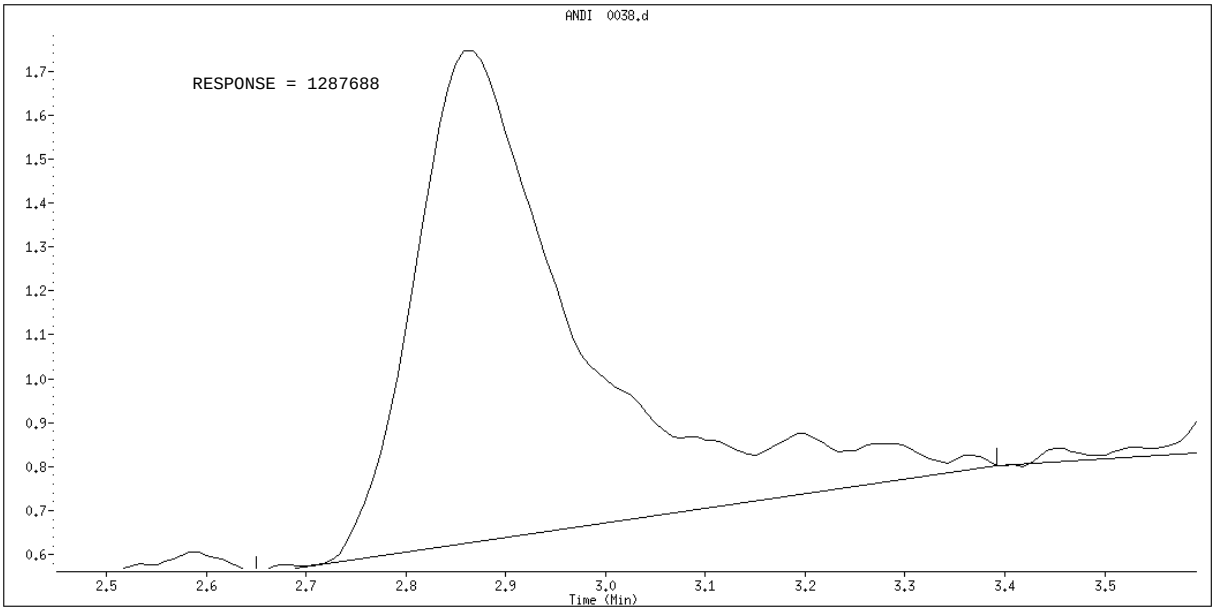
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0038.d
Inj. Date and Time: 23-JUL-2010 01:28
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



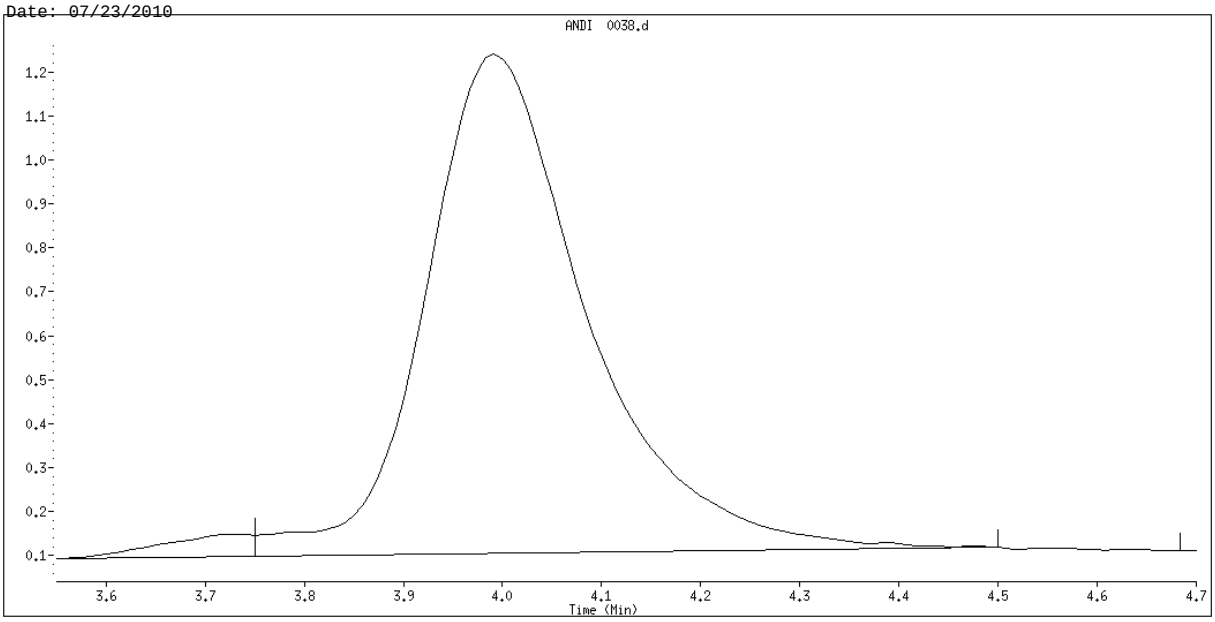
Original Integration



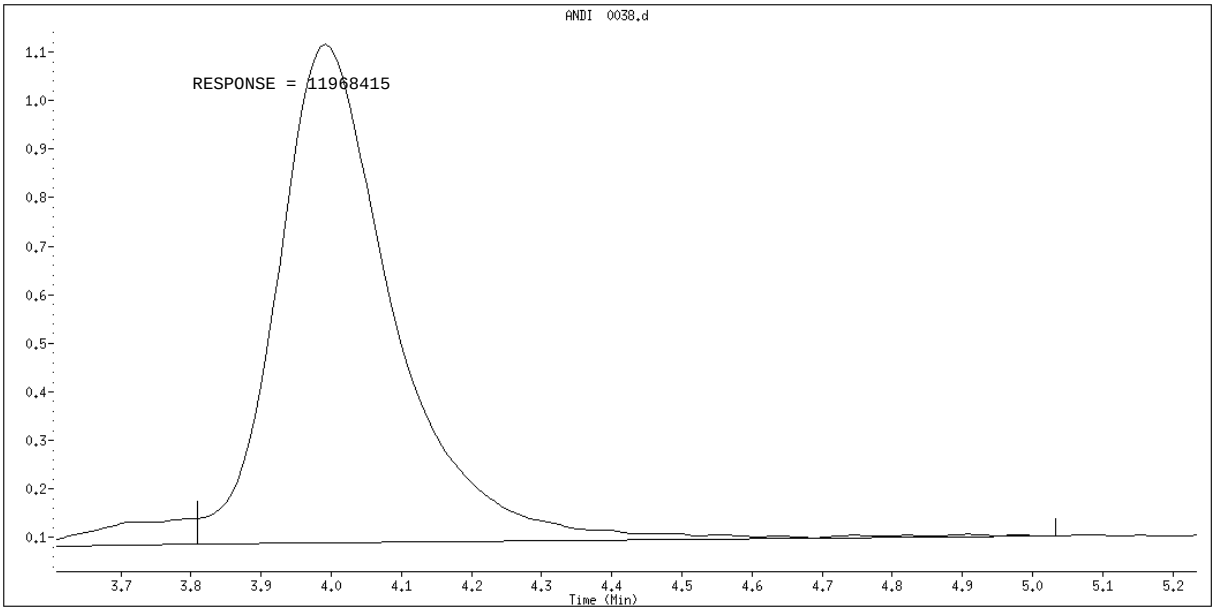
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0038.d
Inj. Date and Time: 23-JUL-2010 01:28
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0039.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic320.i Injection Date: 23-JUL-2010 01:46
Lab File ID: 0039.d Init. Cal. Date(s): 09-JUL-2010 09-JUL-2010
Analysis Type: WATER Init. Cal. Times: 16:19 18:38
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	12864538	12420346	12420346	0.010	3.45284	10.00000	Averaged
2 Chloride	10236534	10712800	10712800	0.010	-4.65260	10.00000	Averaged
3 Nitrite	18024730	17764564	17764564	0.010	1.44338	10.00000	Averaged
4 Bromide	3648240	3443948	3443948	0.010	5.59972	10.00000	Averaged
5 Nitrate	19901858	19444966	19444966	0.010	2.29572	10.00000	Averaged
6 Phosphate	2.50000	2.39577	306384	0.010	4.16902	10.00000	Quadratic
7 Sulfate	6677814	6540896	6540896	0.010	2.05033	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0039.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0039.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 01:46
Operator : 001754 Inst ID: ic320.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

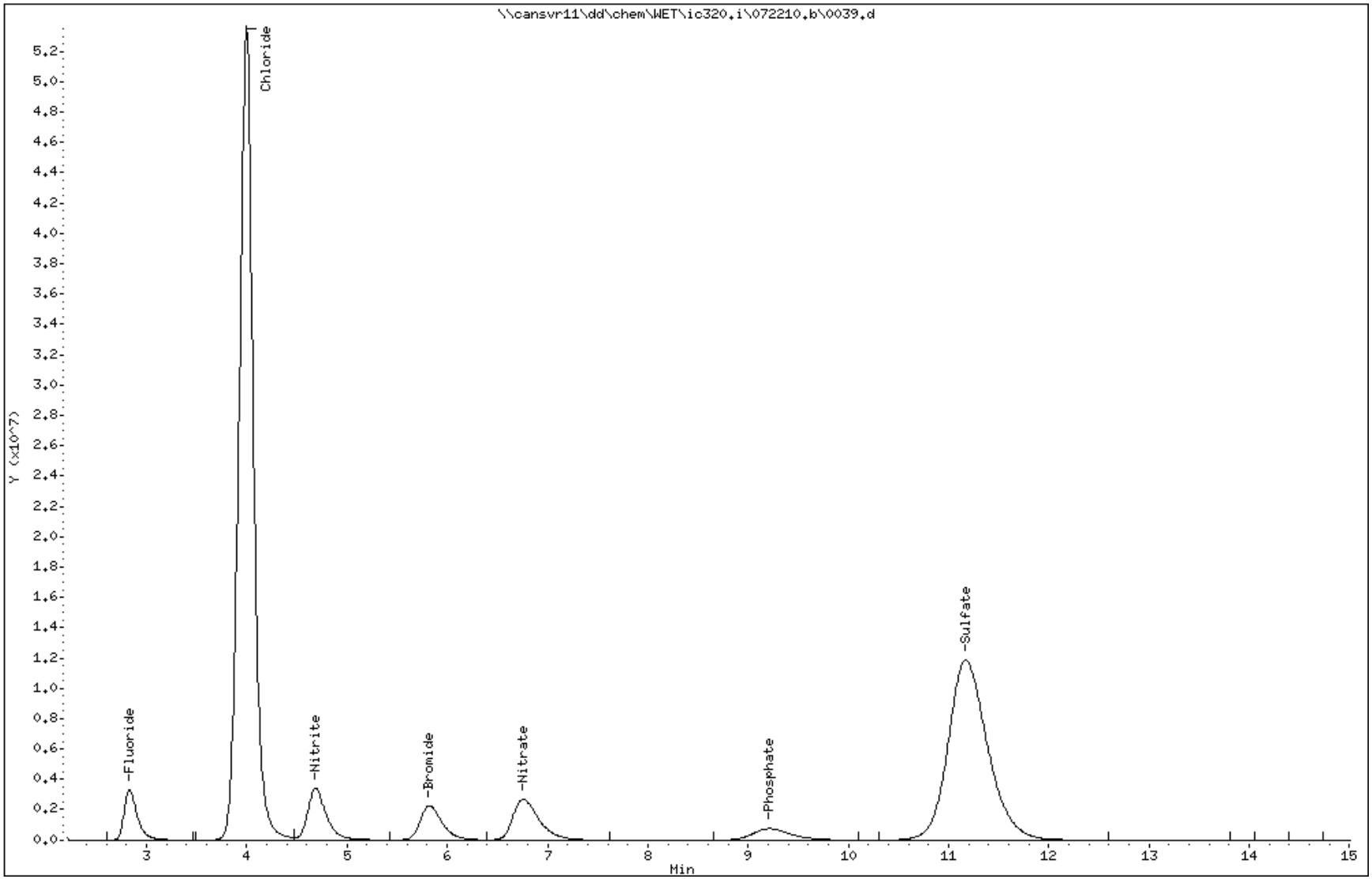
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.833	0.000	31050865	2.50000	2.414
2 Chloride	4.000	4.000	0.000	535639985	50.0000	52.33
3 Nitrite	4.683	4.683	0.000	44411409	2.50000	2.464
4 Bromide	5.825	5.825	0.000	34439483	10.0000	9.440
5 Nitrate	6.758	6.758	0.000	48612416	2.50000	2.443
6 Phosphate	9.216	9.216	0.000	765960	2.50000	2.396
7 Sulfate	11.175	11.175	0.000	327044812	50.0000	48.97

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0039.d
Date : 23-JUL-2010 01:46
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0040.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0040.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 02:03
Operator : 001754 Inst ID: ic320.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

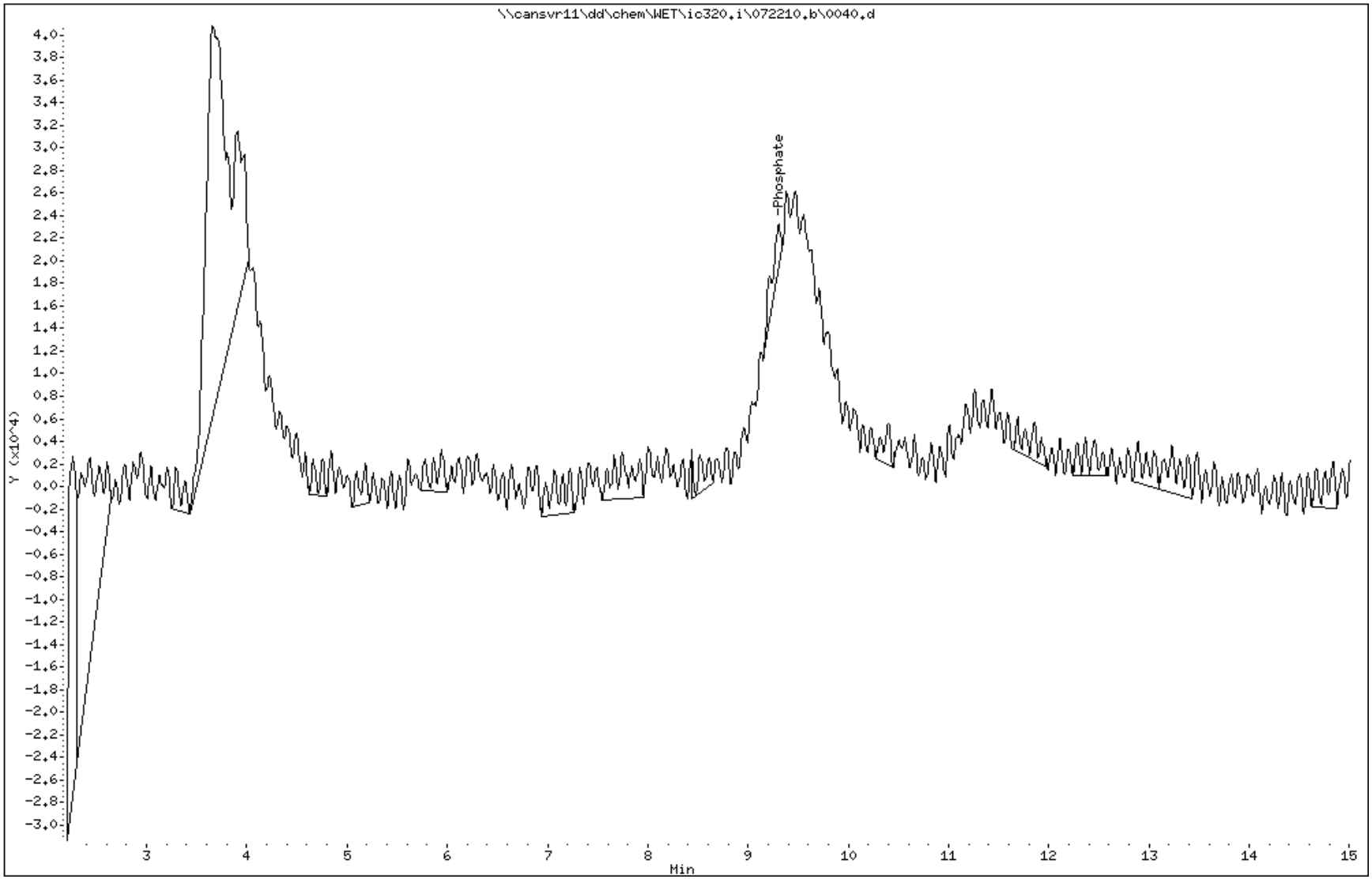
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.308	9.216	0.092	3897	0.04500	0.04500(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0040.d
Date : 23-JUL-2010 02:03
Client ID:
Instrument: ic320.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0041.d
Report Date: 23-Jul-2010 12:07

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0041.d
Lab Smp Id: L4JED
Inj Date : 23-JUL-2010 02:20
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JED
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

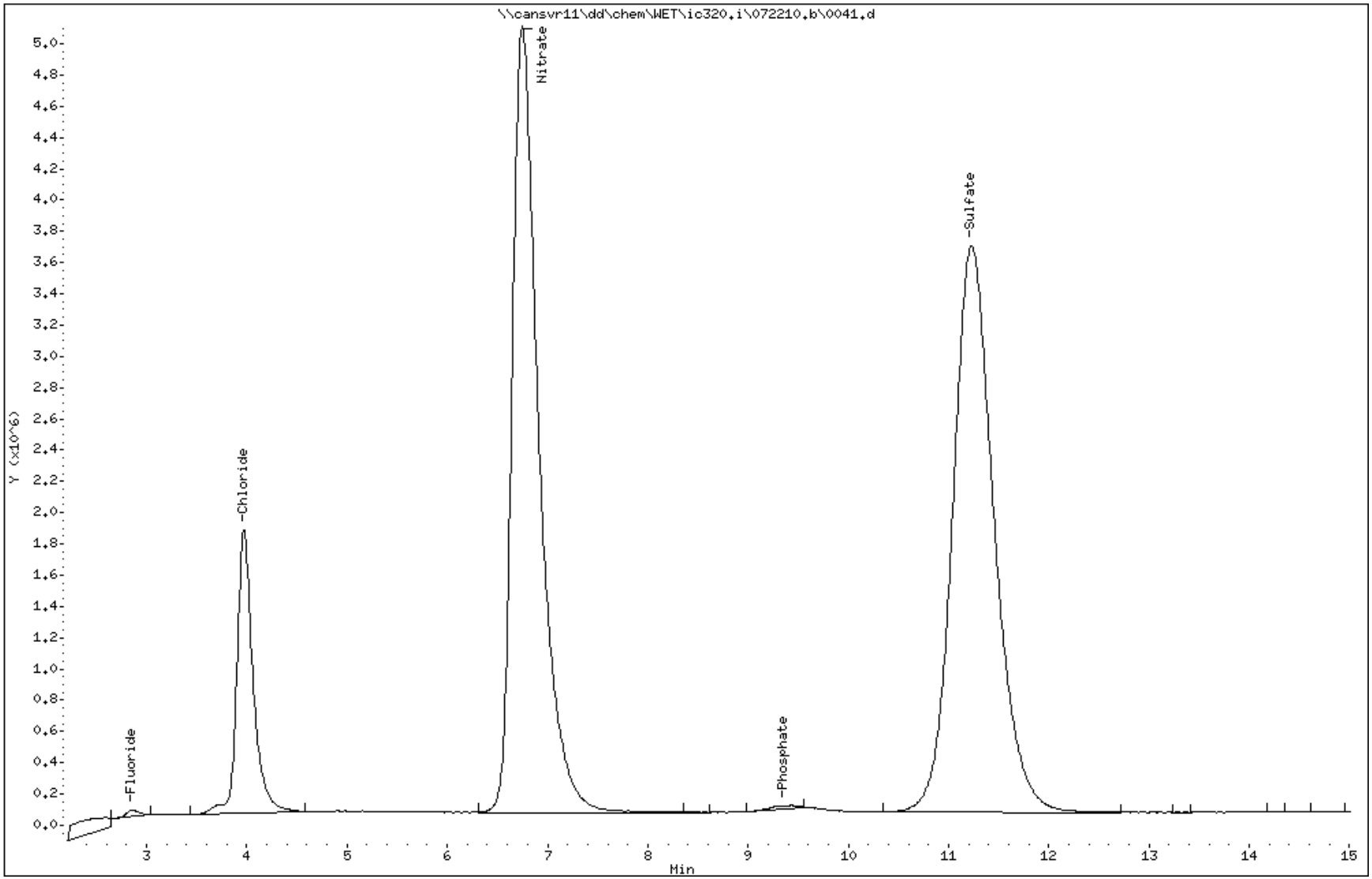
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.850	2.816	0.034	320862	0.02494	0.02494(aM)
2 Chloride	3.966	4.000	-0.034	20473493	2.00004	2.000
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.750	6.816	-0.066	93275728	4.68679	4.687
6 Phosphate	9.350	9.150	0.200	19762	0.09560	0.09560
7 Sulfate	11.225	11.083	0.142	104014507	15.5761	15.58

QC Flag Legend

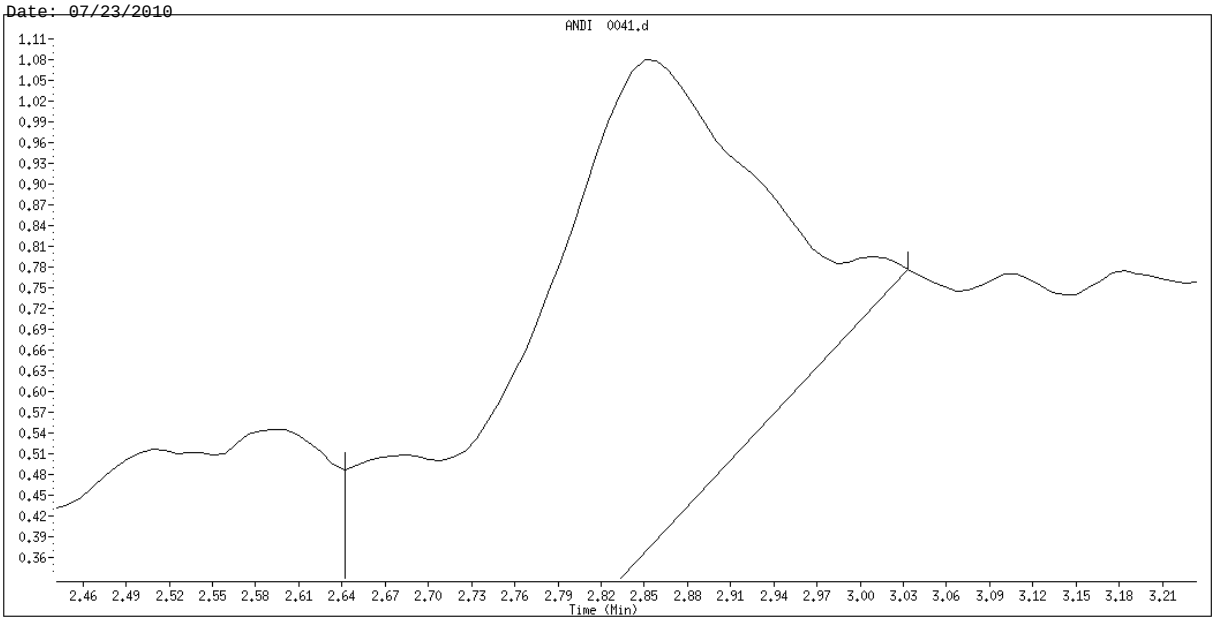
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0041.d
Date : 23-JUL-2010 02:20
Client ID:
Sample Info: L4JED
Purge Volume: 1.0
Column phase: AS14

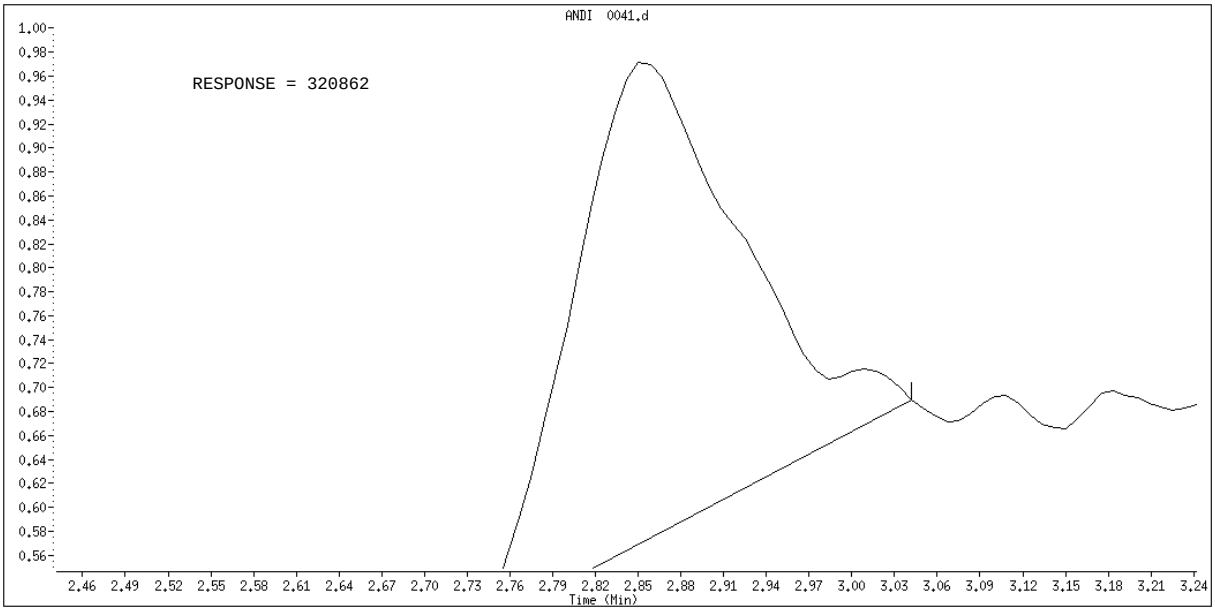
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0041.d
Inj. Date and Time: 23-JUL-2010 02:20
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0042.d
Report Date: 23-Jul-2010 12:08

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0042.d
Lab Smp Id: L4JEG
Inj Date : 23-JUL-2010 02:38
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JEG
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

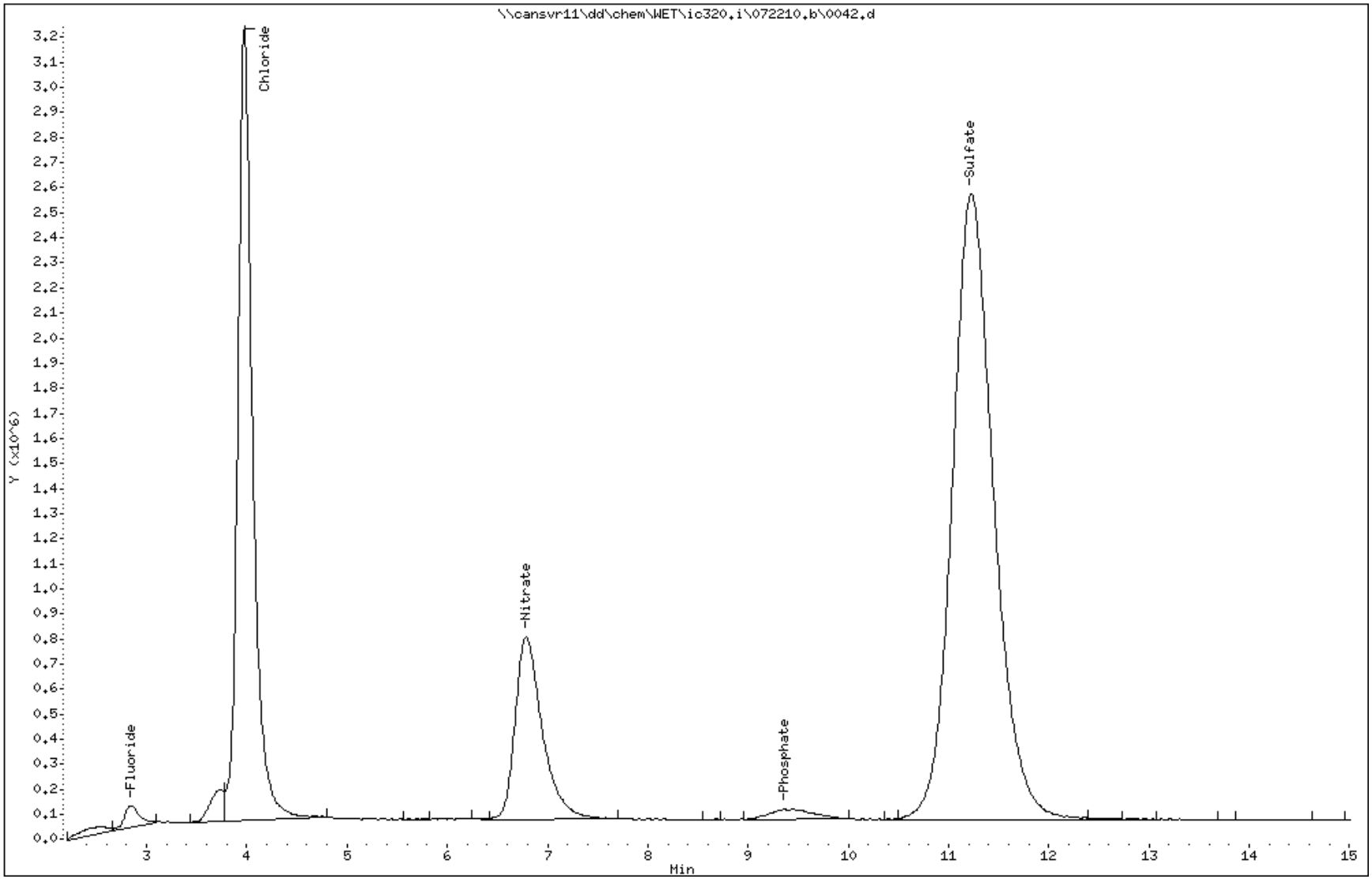
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.850	2.816	0.034	885978	0.06887	0.06887
2 Chloride	3.975	4.000	-0.025	33050676	3.22870	3.229
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.783	6.816	-0.033	13689104	0.68783	0.6878
6 Phosphate	9.366	9.150	0.216	39564	0.15865	0.1586(M)
7 Sulfate	11.225	11.083	0.142	71790501	10.7506	10.75

QC Flag Legend

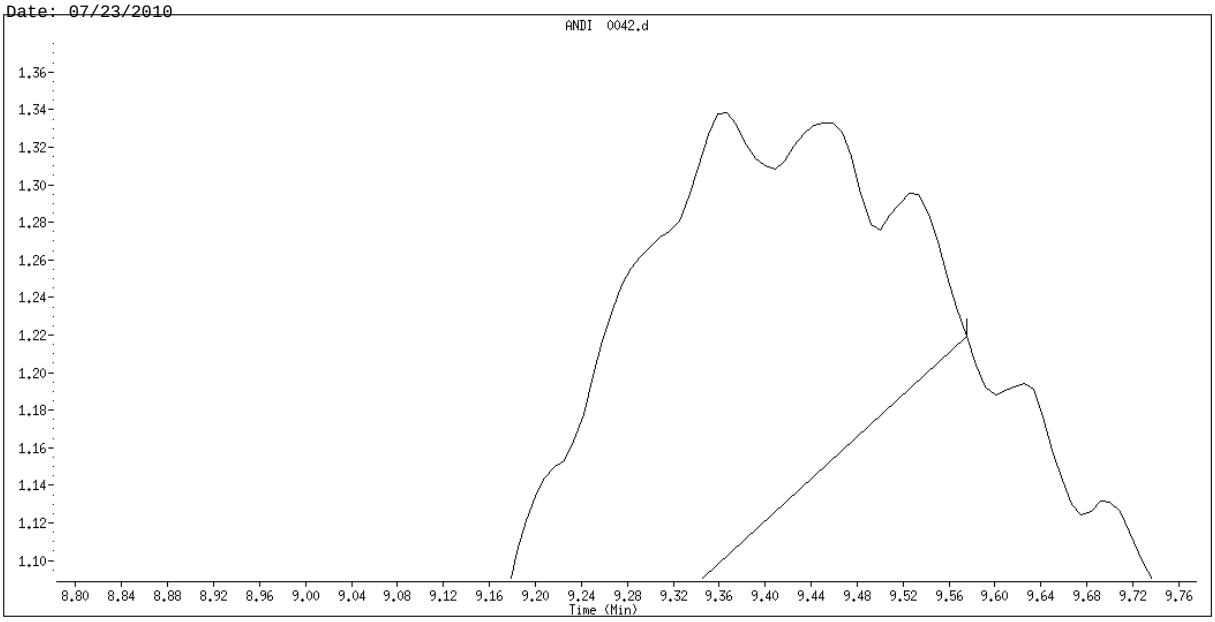
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0042.d
Date : 23-JUL-2010 02:38
Client ID:
Sample Info: L4JEG
Purge Volume: 1.0
Column phase: AS14

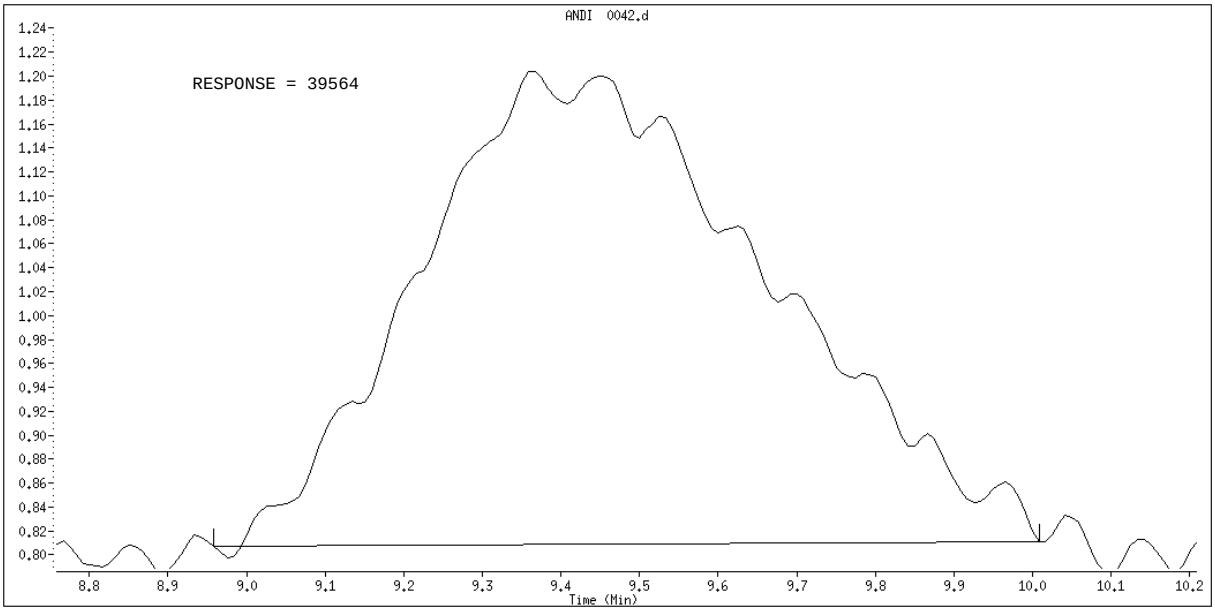
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0042.d
Inj. Date and Time: 23-JUL-2010 02:38
Instrument ID: ic320.i
Client ID:
Compound Name: Phosphate
CAS #: Q551
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0043.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0043.d
Lab Smp Id: L356W ORG
Inj Date : 23-JUL-2010 02:55
Operator : 001754 Inst ID: ic320.i
Smp Info : L356W ORG,10
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

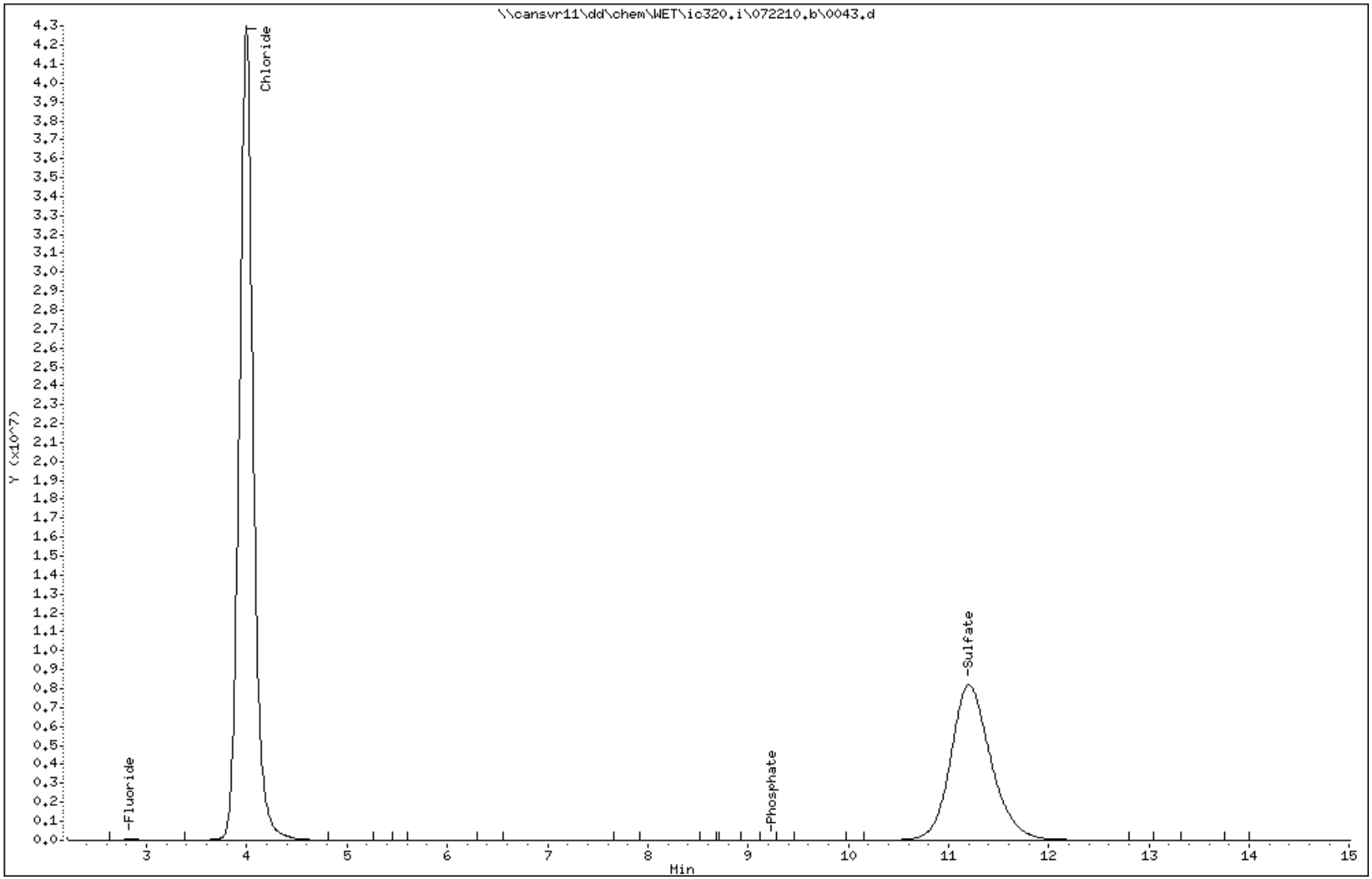
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.833	2.833	0.000	724740	0.05634	0.5634
2 Chloride	4.000	4.000	0.000	422524061	41.2761	412.8
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.241	9.216	0.025	3211	0.04281	0.4281(a)
7 Sulfate	11.200	11.175	0.025	229149558	34.3151	343.2

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0043.d
Date : 23-JUL-2010 02:55
Client ID:
Sample Info: L356W ORG,10
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0044.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0044.d
Lab Smp Id: L356W MS
Inj Date : 23-JUL-2010 03:13
Operator : 001754 Inst ID: ic320.i
Smp Info : L356W MS,10,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

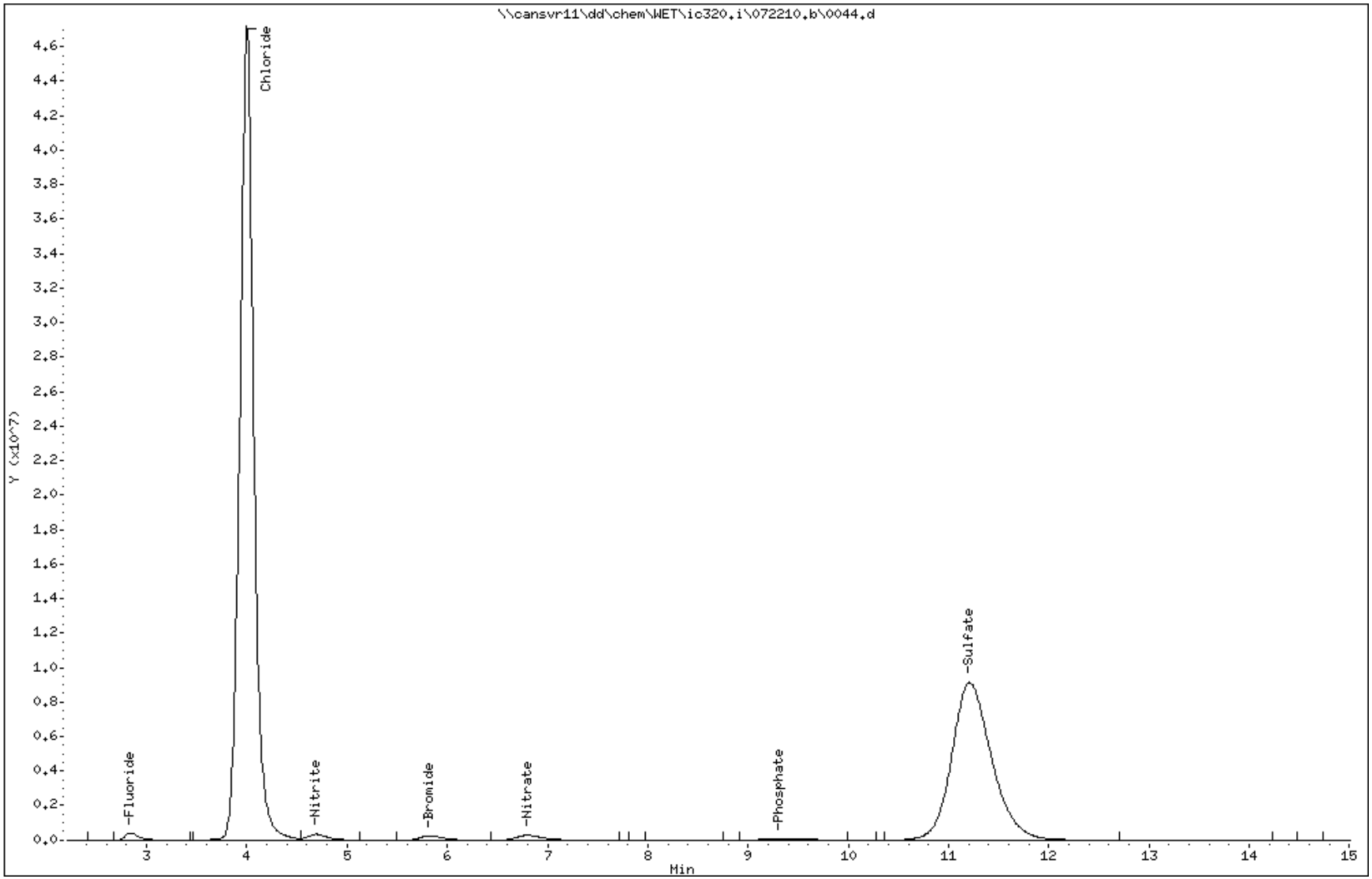
Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.841	2.833	0.008	4099763	0.31869	3.187(R)
2 Chloride	4.000	4.000	0.000	462610472	45.1921	451.9(R)
3 Nitrite	4.691	4.683	0.008	4561268	0.25306	2.530
4 Bromide	5.825	5.825	0.000	4149000	1.13726	11.37(R)
5 Nitrate	6.800	6.758	0.042	5447528	0.27372	2.737
6 Phosphate	9.308	9.216	0.092	91217	0.32261	3.226(R)
7 Sulfate	11.208	11.175	0.033	253706122	37.9924	379.9(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0044.d
Date : 23-JUL-2010 03:13
Client ID:
Instrument: ic320.i
Sample Info: L356W MS,10,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0045.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0045.d
Lab Smp Id: L356W MSD
Inj Date : 23-JUL-2010 03:30
Operator : 001754 Inst ID: ic320.i
Smp Info : L356W MSD,10,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

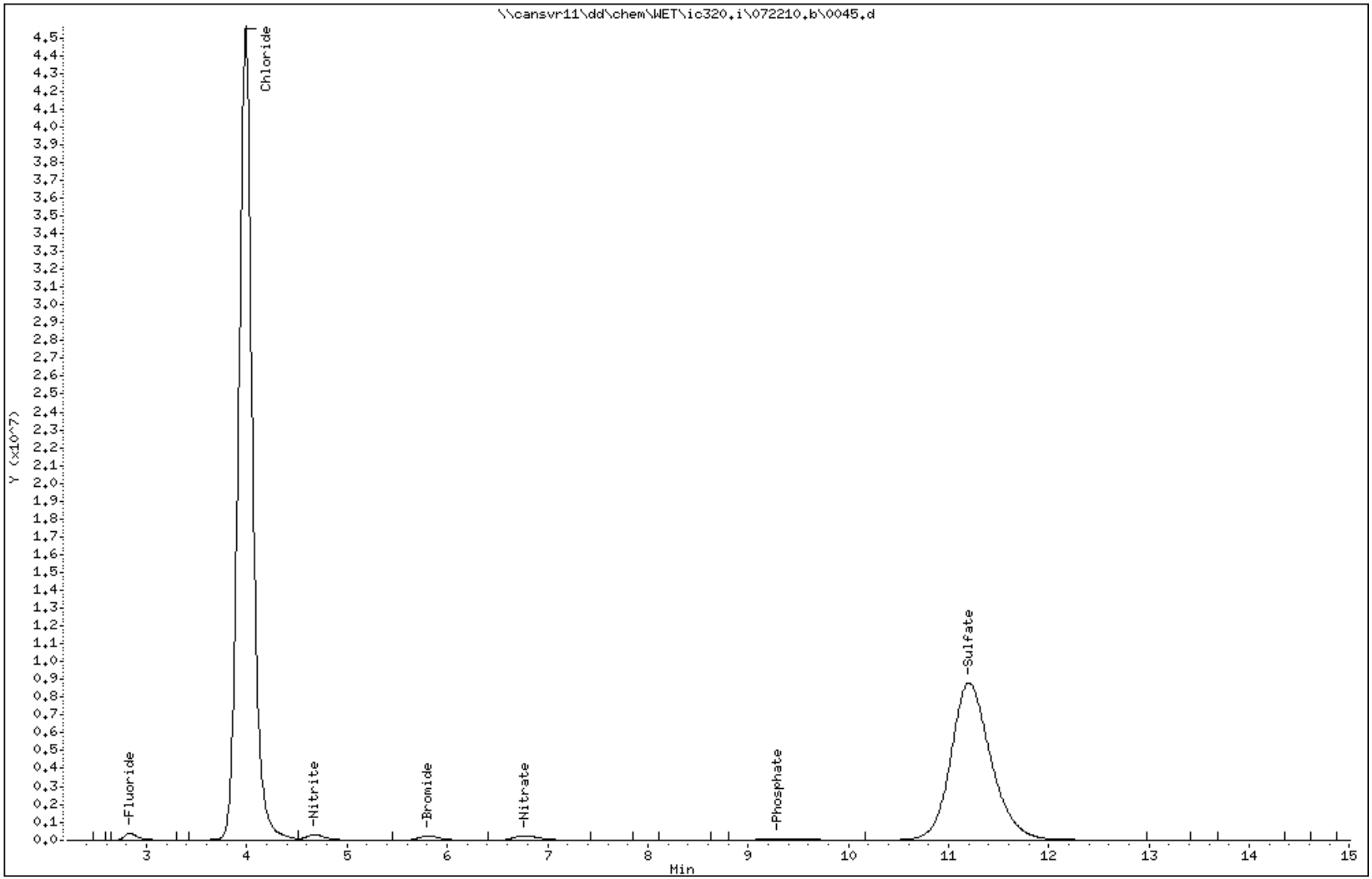
Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.833	2.833	0.000	3670571	0.28532	2.853(R)
2 Chloride	3.991	4.000	-0.009	443851010	43.3595	433.6(R)
3 Nitrite	4.675	4.683	-0.008	4497203	0.24950	2.495
4 Bromide	5.808	5.825	-0.017	3810473	1.04447	10.44
5 Nitrate	6.775	6.758	0.017	4854075	0.24390	2.439
6 Phosphate	9.291	9.216	0.075	90941	0.32174	3.217(R)
7 Sulfate	11.200	11.175	0.025	246268739	36.8786	368.8(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0045.d
Date : 23-JUL-2010 03:30
Client ID:
Instrument: ic320.i
Sample Info: L356W MSD,10,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0046.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0046.d
Lab Smp Id: L3567
Inj Date : 23-JUL-2010 03:47
Operator : 001754 Inst ID: ic320.i
Smp Info : L3567,10
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

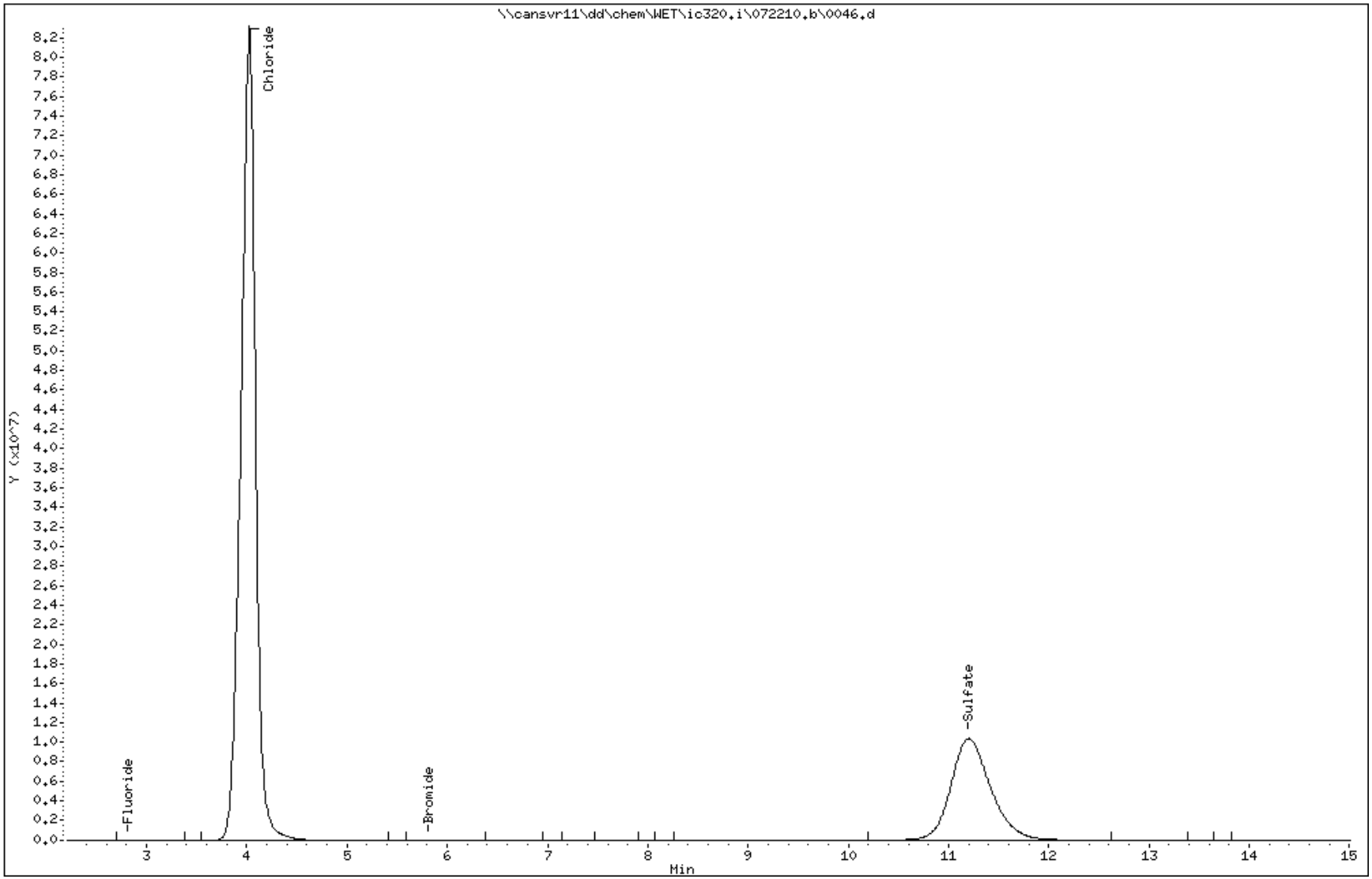
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.825	2.833	-0.008	460444		0.03579	0.3579(a)
2 Chloride	4.025	4.000	0.025	844894899		82.5372	825.4
3 Nitrite	Compound Not Detected.						
4 Bromide	5.825	5.825	0.000	811804		0.22252	2.225
5 Nitrate	Compound Not Detected.						
6 Phosphate	Compound Not Detected.						
7 Sulfate	11.200	11.175	0.025	287442128		43.0443	430.4

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0046.d
Date : 23-JUL-2010 03:47
Client ID:
Sample Info: L3567,10
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0047.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0047.d
Lab Smp Id: L357F
Inj Date : 23-JUL-2010 04:05
Operator : 001754 Inst ID: ic320.i
Smp Info : L357F,10
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

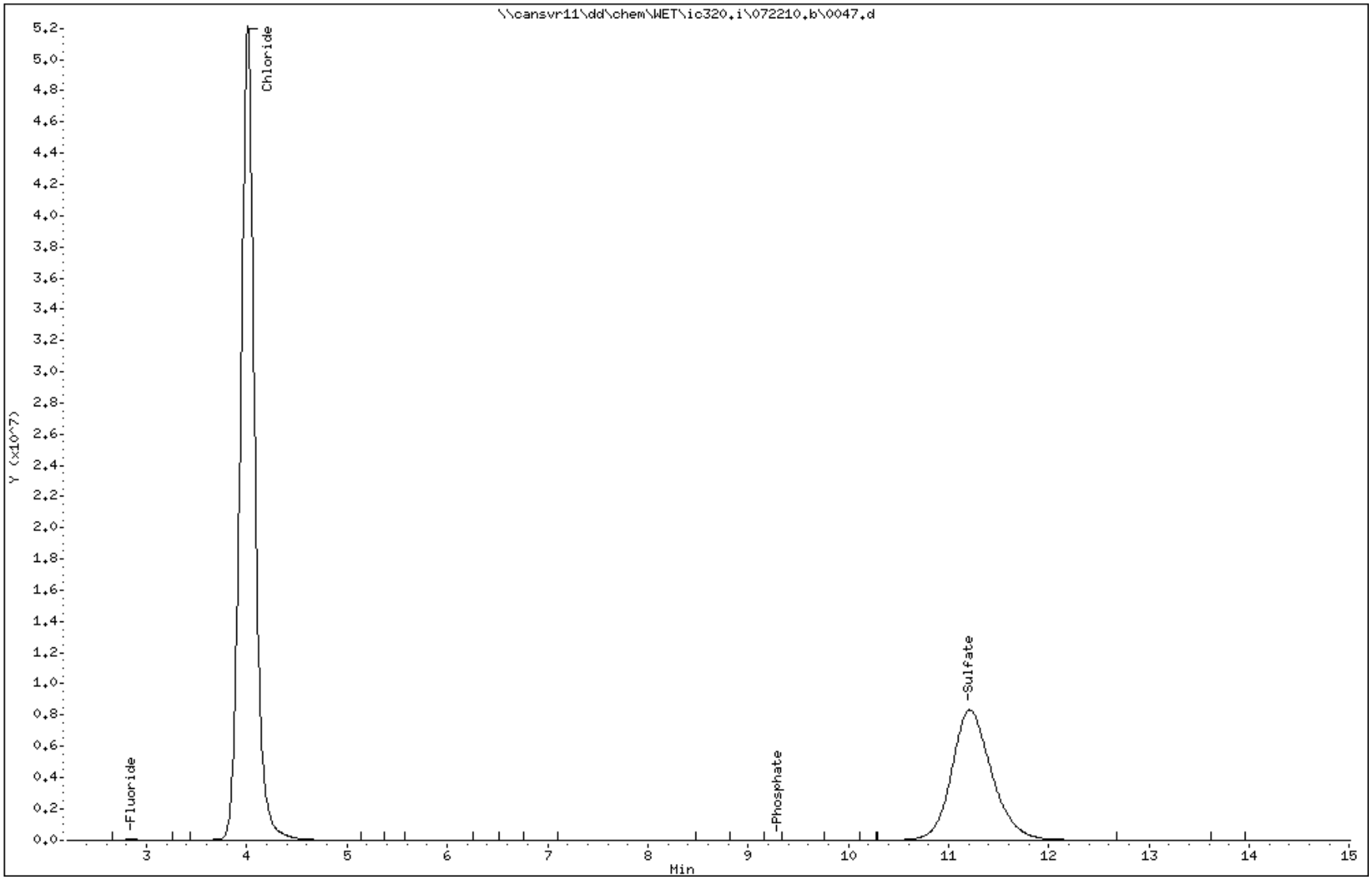
Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1	Fluoride	2.850	2.833	0.017	548440	0.04263	0.4263(a)
2	Chloride	4.008	4.000	0.008	516785449	50.4844	504.8
3	Nitrite	Compound Not Detected.					
4	Bromide	Compound Not Detected.					
5	Nitrate	Compound Not Detected.					
6	Phosphate	9.291	9.216	0.075	4933	0.04831	0.4831(a)
7	Sulfate	11.208	11.175	0.033	232475025	34.8130	348.1

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0047.d
Date : 23-JUL-2010 04:05
Client ID:
Instrument: ic320.i
Sample Info: L357F,10
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0048.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0048.d
Lab Smp Id: L357H
Inj Date : 23-JUL-2010 04:22
Operator : 001754 Inst ID: ic320.i
Smp Info : L357H,10
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

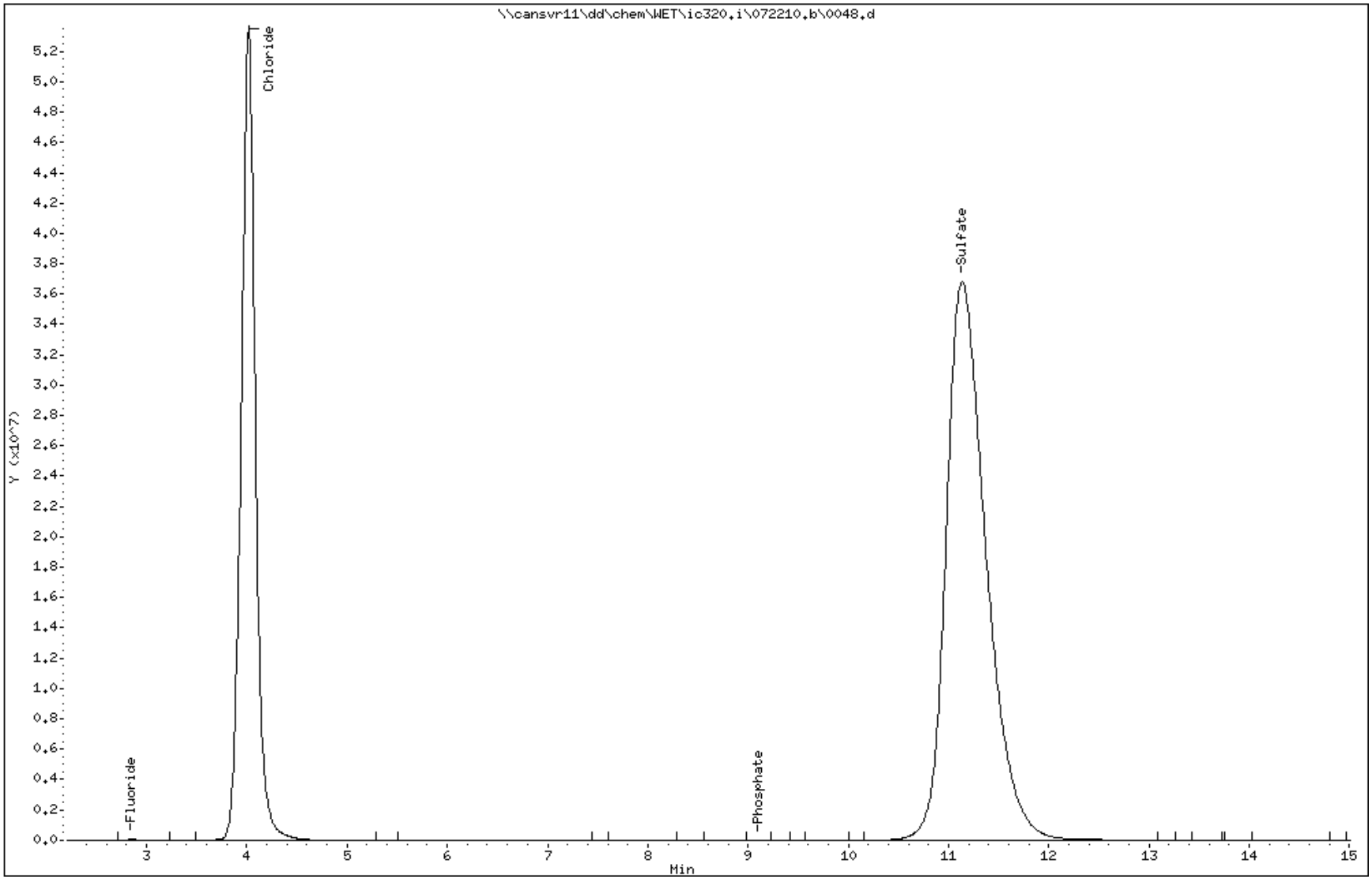
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.850	2.833	0.017	560111	0.04354	0.4354(a)
2 Chloride	4.016	4.000	0.016	533771501	52.1438	521.4
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.108	9.216	-0.108	4574	0.04716	0.4716(a)
7 Sulfate	11.133	11.175	-0.042	1019386429	152.653	1526

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0048.d
Date : 23-JUL-2010 04:22
Client ID:
Sample Info: L357H,10
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0049.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0049.d
Lab Smp Id: L357J
Inj Date : 23-JUL-2010 04:40
Operator : 001754 Inst ID: ic320.i
Smp Info : L357J,5
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

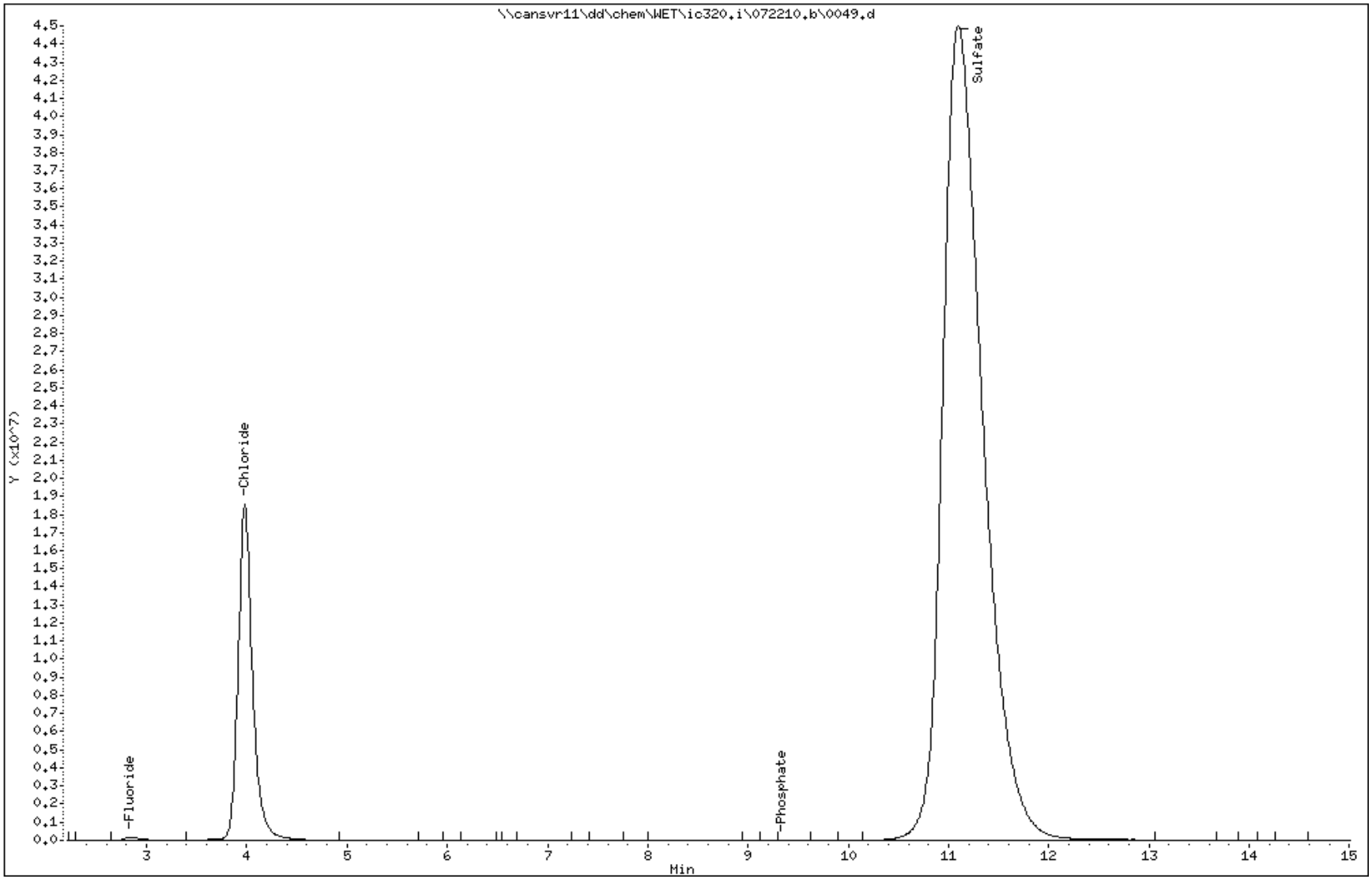
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.841	2.833	0.008	1770149		0.13760	0.6880
2 Chloride	3.983	4.000	-0.017	185664519		18.1374	90.69
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	9.333	9.216	0.117	4817		0.04794	0.2397(a)
7 Sulfate	11.100	11.175	-0.075	1254492333		187.860	939.3

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0049.d
Date : 23-JUL-2010 04:40
Client ID:
Sample Info: L357J,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0050.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0050.d
Lab Smp Id: L357K
Inj Date : 23-JUL-2010 04:57
Operator : 001754 Inst ID: ic320.i
Smp Info : L357K,5
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

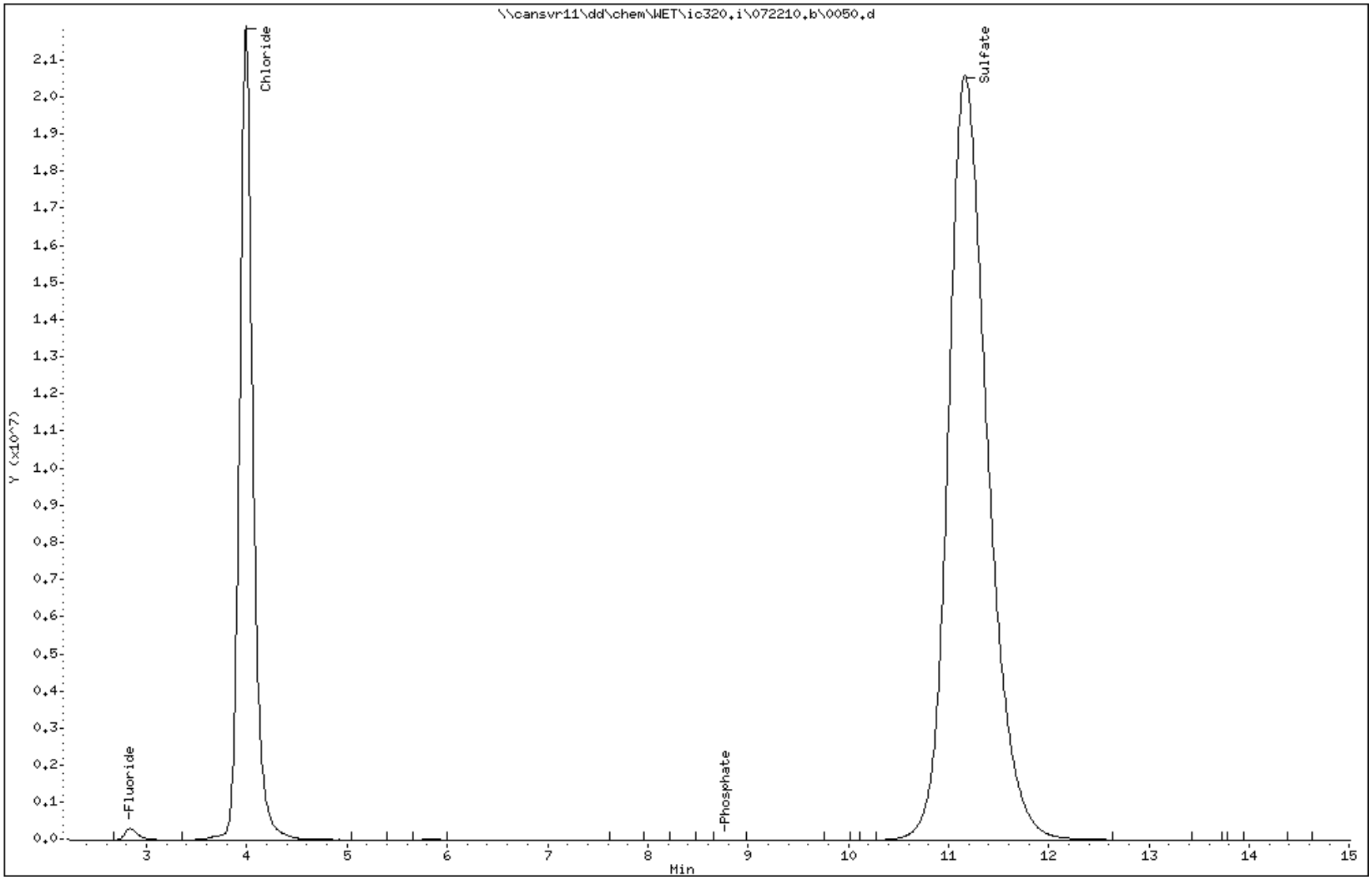
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.833	0.000	3039317	0.23626	1.181
2 Chloride	3.991	4.000	-0.009	208045630	20.3238	101.6
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.775	9.216	-0.441	4598	0.04724	0.2362(a)
7 Sulfate	11.166	11.175	-0.009	563739881	84.4198	422.1

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0050.d
Date : 23-JUL-2010 04:57
Client ID:
Sample Info: L357K,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0051.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic320.i Injection Date: 23-JUL-2010 05:14
Lab File ID: 0051.d Init. Cal. Date(s): 09-JUL-2010 09-JUL-2010
Analysis Type: WATER Init. Cal. Times: 16:19 18:38
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	12864538	12483382	12483382	0.010	2.96284	10.00000	Averaged
2 Chloride	10236534	10742751	10742751	0.010	-4.94520	10.00000	Averaged
3 Nitrite	18024730	17841607	17841607	0.010	1.01595	10.00000	Averaged
4 Bromide	3648240	3446755	3446755	0.010	5.52280	10.00000	Averaged
5 Nitrate	19901858	19526758	19526758	0.010	1.88474	10.00000	Averaged
6 Phosphate	2.50000	2.35827	301349	0.010	5.66930	10.00000	Quadratic
7 Sulfate	6677814	6570341	6570341	0.010	1.60940	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0051.d
Report Date: 23-Jul-2010 11:55

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ION CHROMATOGRAPHY

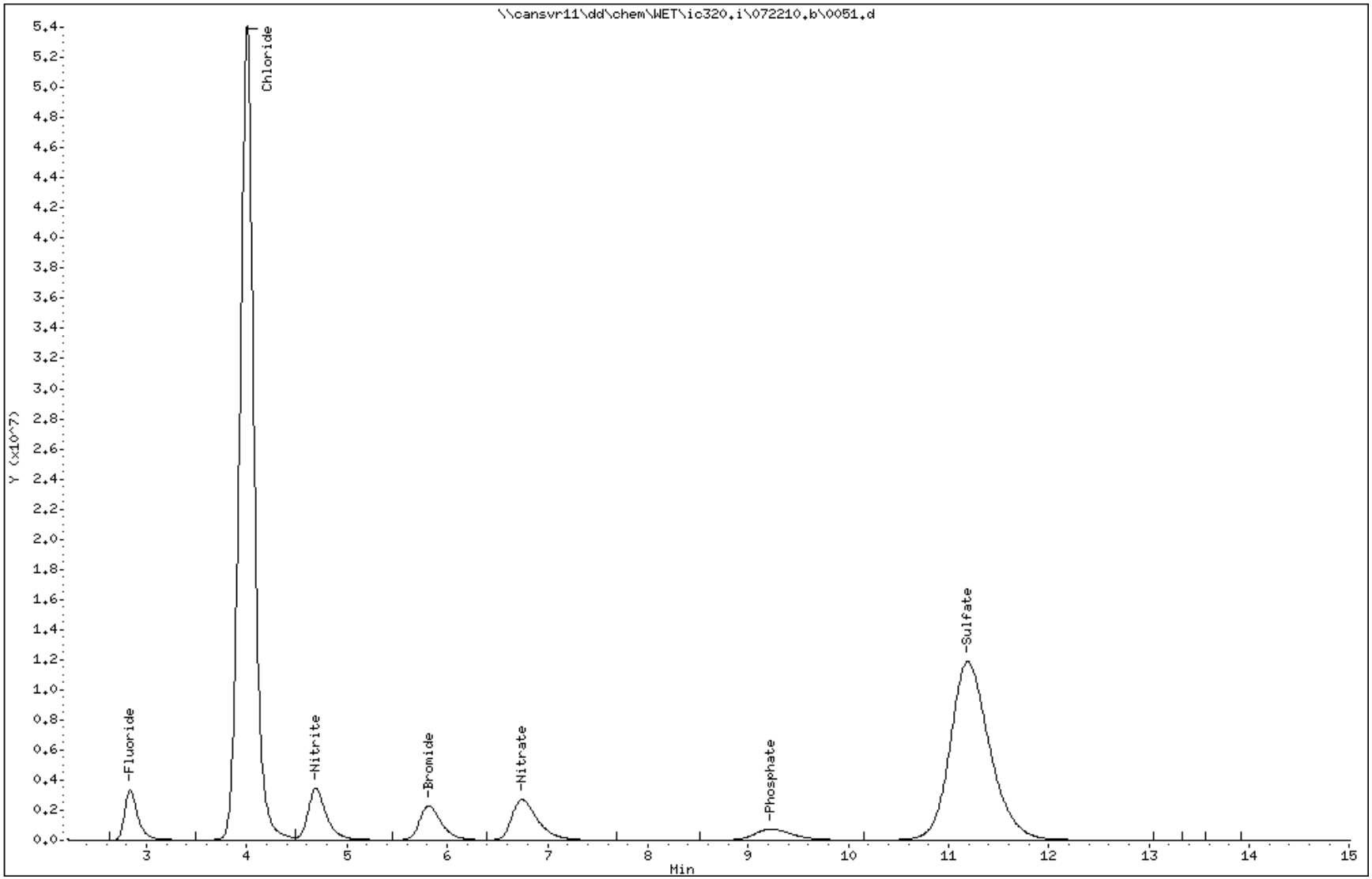
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0051.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 05:14
Operator : 001754 Inst ID: ic320.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.833	0.000	31208456	2.50000	2.426
2 Chloride	4.008	4.008	0.000	537137563	50.0000	52.47
3 Nitrite	4.691	4.691	0.000	44604017	2.50000	2.475
4 Bromide	5.816	5.816	0.000	34467548	10.0000	9.448
5 Nitrate	6.750	6.750	0.000	48816896	2.50000	2.453
6 Phosphate	9.233	9.233	0.000	753373	2.50000	2.358
7 Sulfate	11.191	11.191	0.000	328517032	50.0000	49.20

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0051.d
Date : 23-JUL-2010 05:14
Client ID:
Instrument: ic320.i
Sample Info: CCV,,2
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0052.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

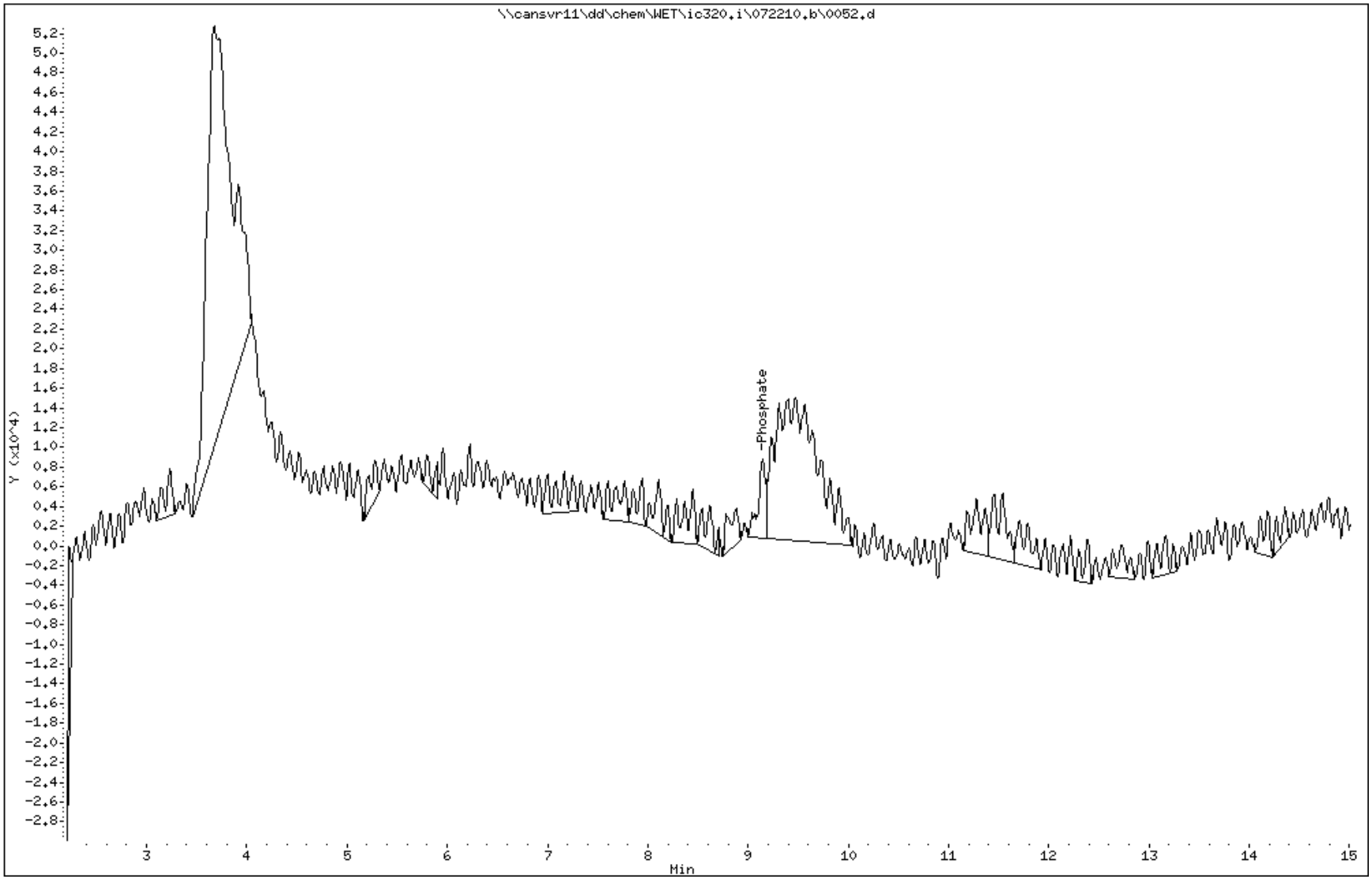
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0052.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 05:32
Operator : 001754 Inst ID: ic320.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.150	9.233	-0.083	7990	0.05806	0.05806
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0052.d
Date : 23-JUL-2010 05:32
Client ID:
Instrument: ic320.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0053.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

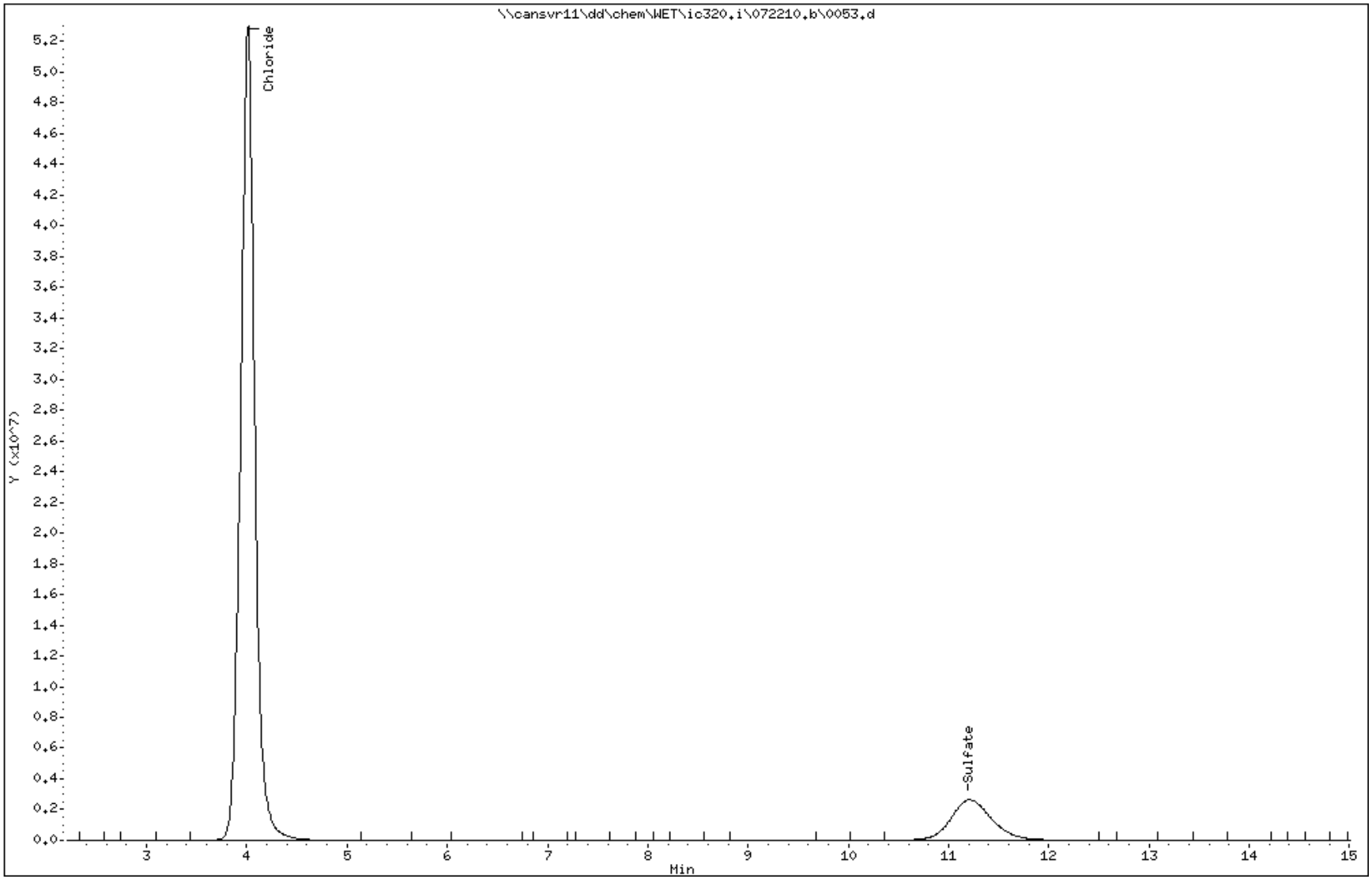
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0053.d
Lab Smp Id: L357L
Inj Date : 23-JUL-2010 05:49
Operator : 001754 Inst ID: ic320.i
Smp Info : L357L,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	4.016	4.008	0.008	525104107	51.2971	256.5
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	11.208	11.191	0.017	75132734	11.2511	56.26

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0053.d
Date : 23-JUL-2010 05:49
Client ID:
Instrument: ic320.i
Sample Info: L357L,5
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0054.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0054.d
Lab Smp Id: L357M
Inj Date : 23-JUL-2010 06:07
Operator : 001754 Inst ID: ic320.i
Smp Info : L357M,10
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

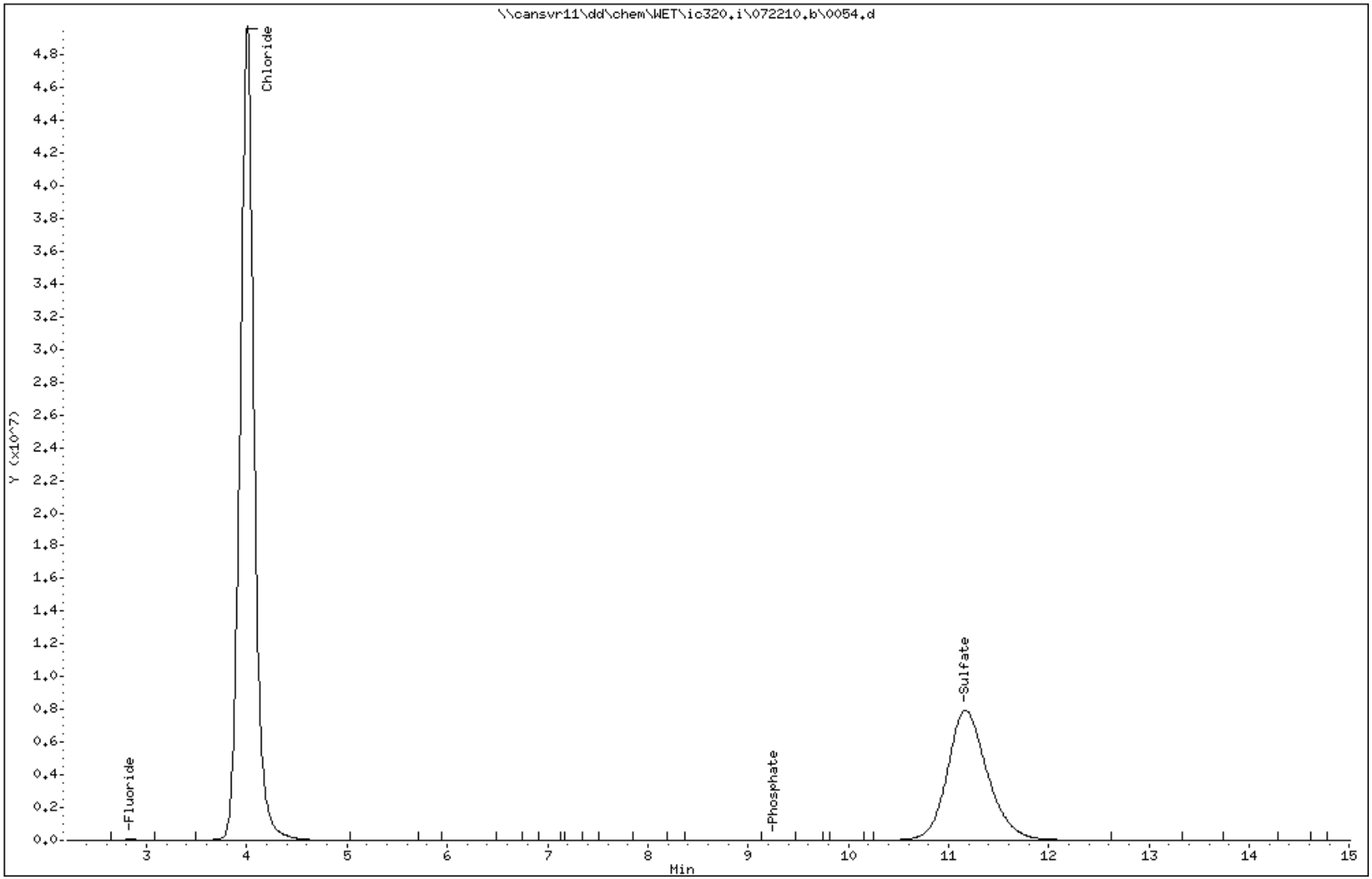
Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.841	2.833	0.008	534299		0.04153	0.4153(a)
2 Chloride	4.008	4.008	0.000	492109577		48.0738	480.7
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	9.258	9.233	0.025	5220		0.04923	0.4922(a)
7 Sulfate	11.166	11.191	-0.025	221167280		33.1197	331.2

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0054.d
Date : 23-JUL-2010 06:07
Client ID:
Instrument: ic320.i
Sample Info: L357M,10
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0055.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

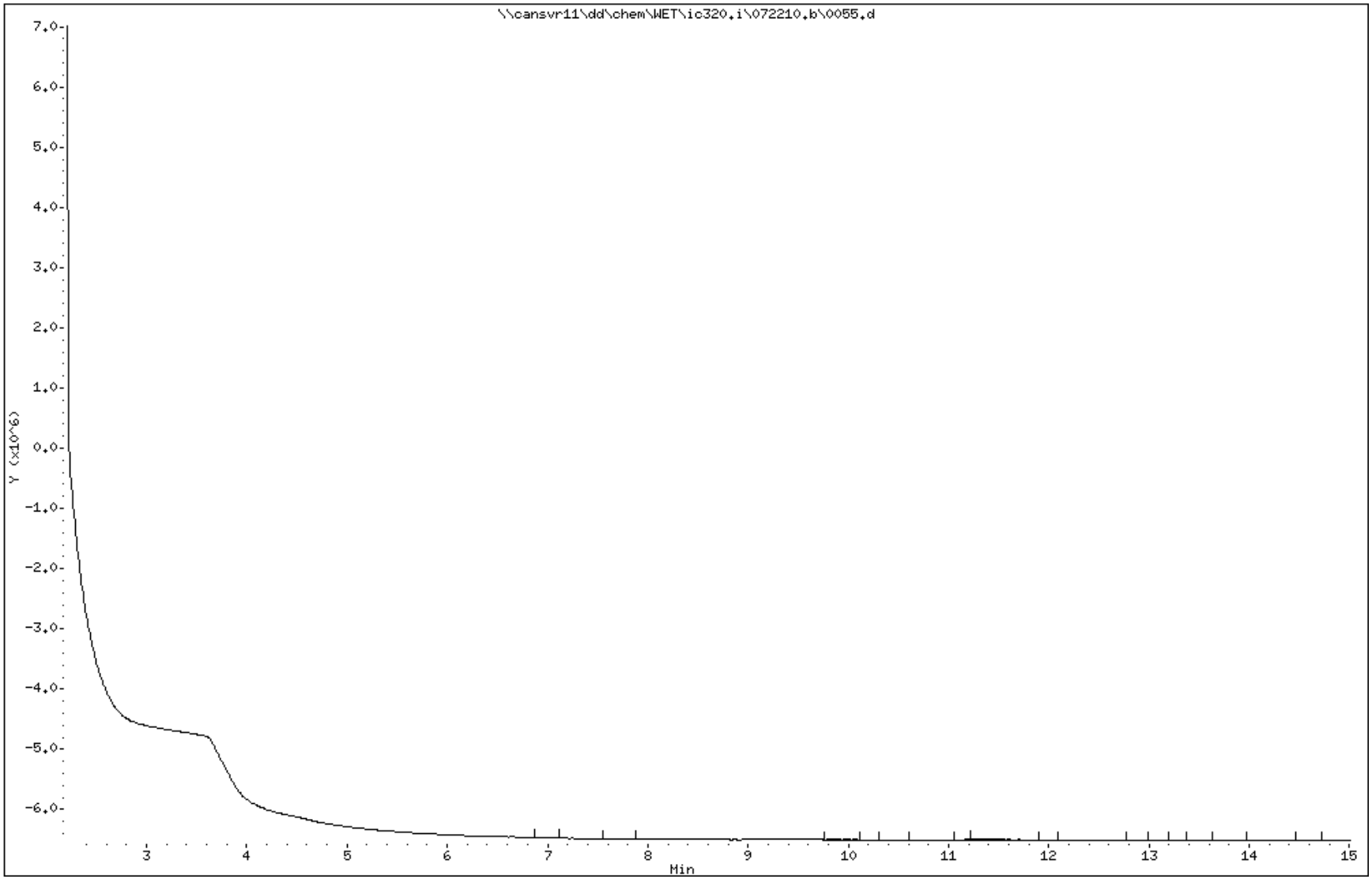
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0055.d
Lab Smp Id: CE
Inj Date : 23-JUL-2010 06:24
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0055.d
Date : 23-JUL-2010 06:24
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0056.d
Report Date: 23-Jul-2010 12:32

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0056.d
Lab Smp Id: L4JL9
Inj Date : 23-JUL-2010 06:41
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JL9
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

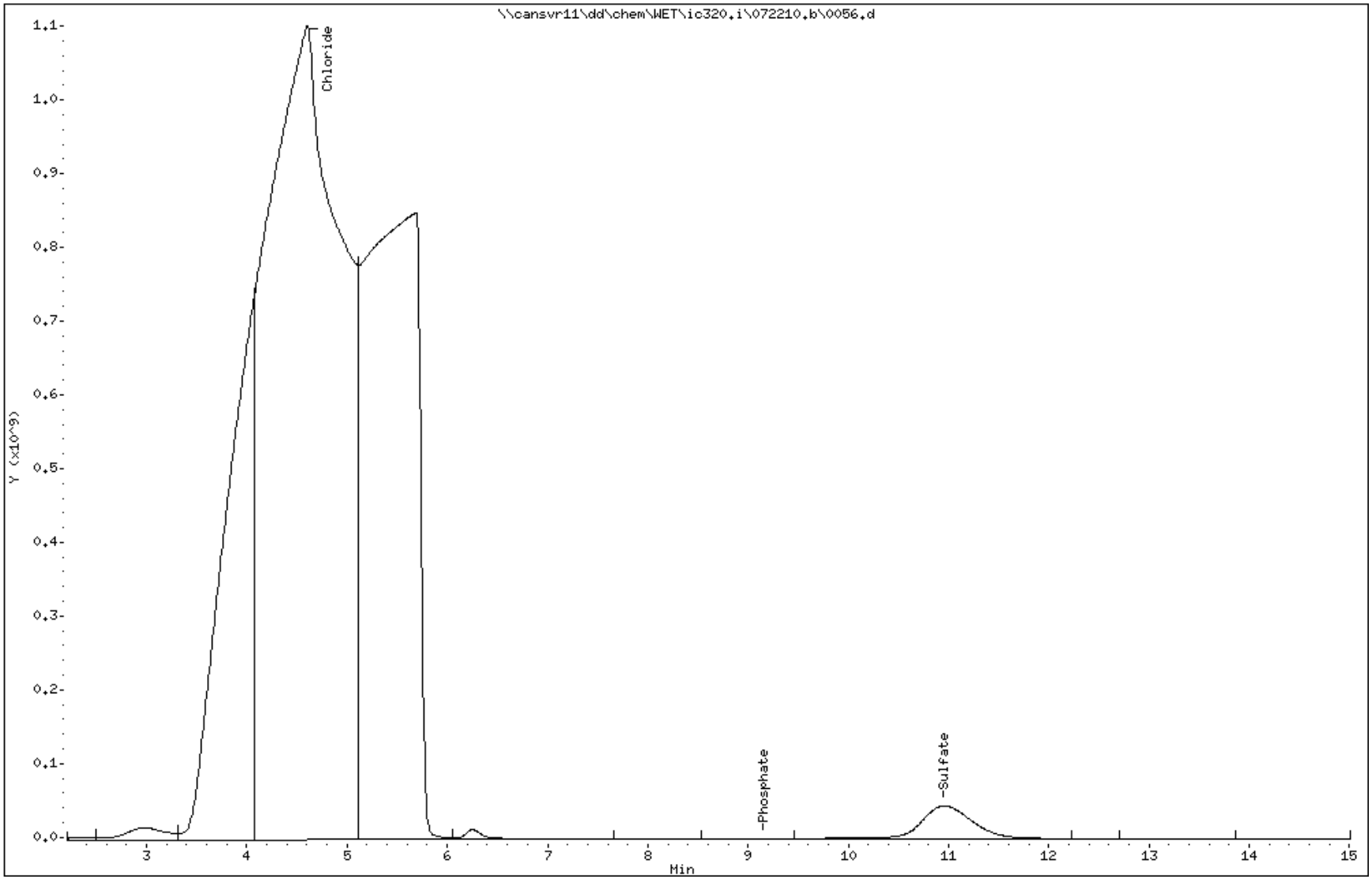
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	4.608	4.000	0.608	56259444143	5495.95	5496(AM)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.166	9.150	0.016	196633	0.65491	0.6549
7 Sulfate	10.958	11.083	-0.125	1568551208	234.890	234.9(A)

QC Flag Legend

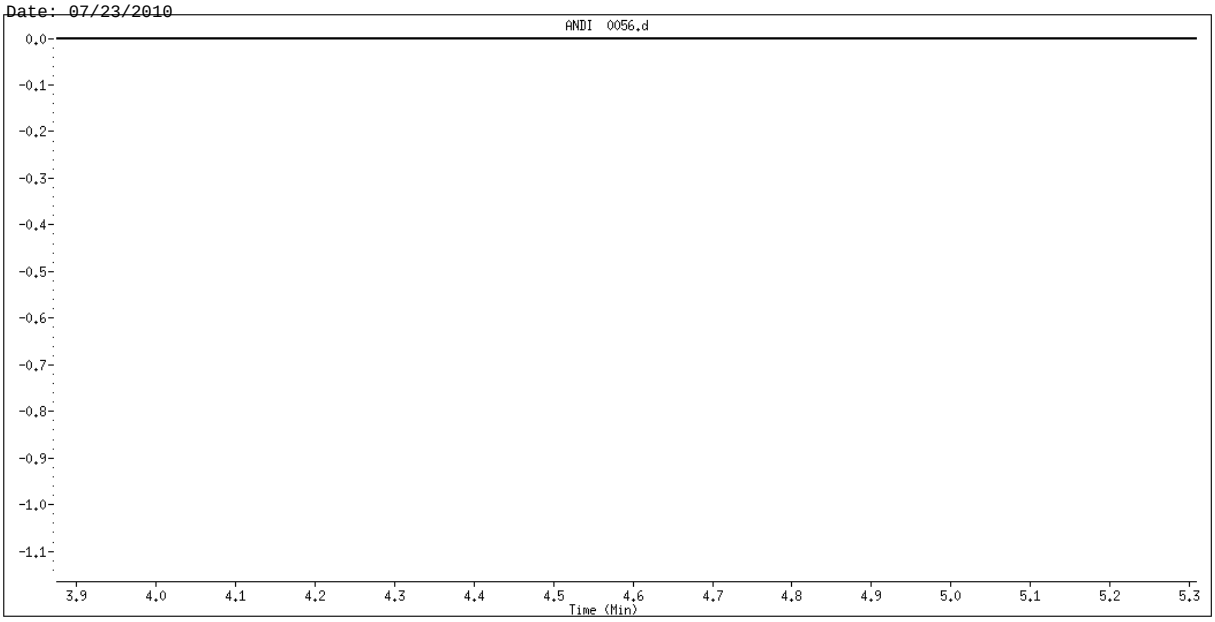
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0056.d
Date : 23-JUL-2010 06:41
Client ID:
Sample Info: L4JL9
Purge Volume: 1.0
Column phase: AS14

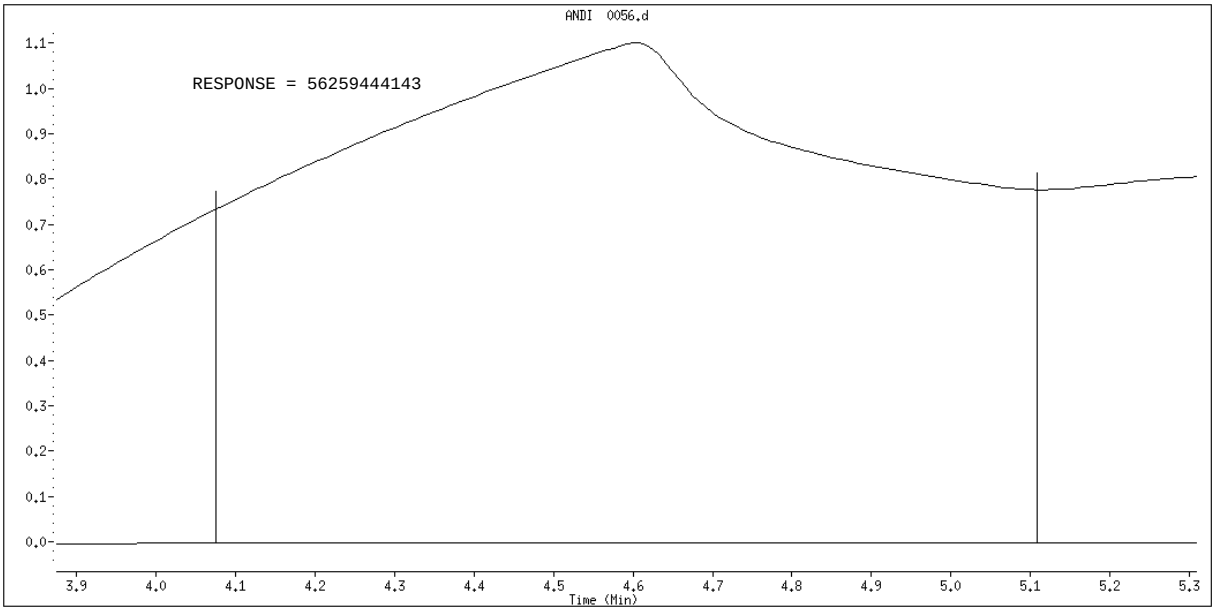
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0056.d
Inj. Date and Time: 23-JUL-2010 06:41
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0057.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0057.d
Lab Smp Id: L4JMX
Inj Date : 23-JUL-2010 06:59
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JMX
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

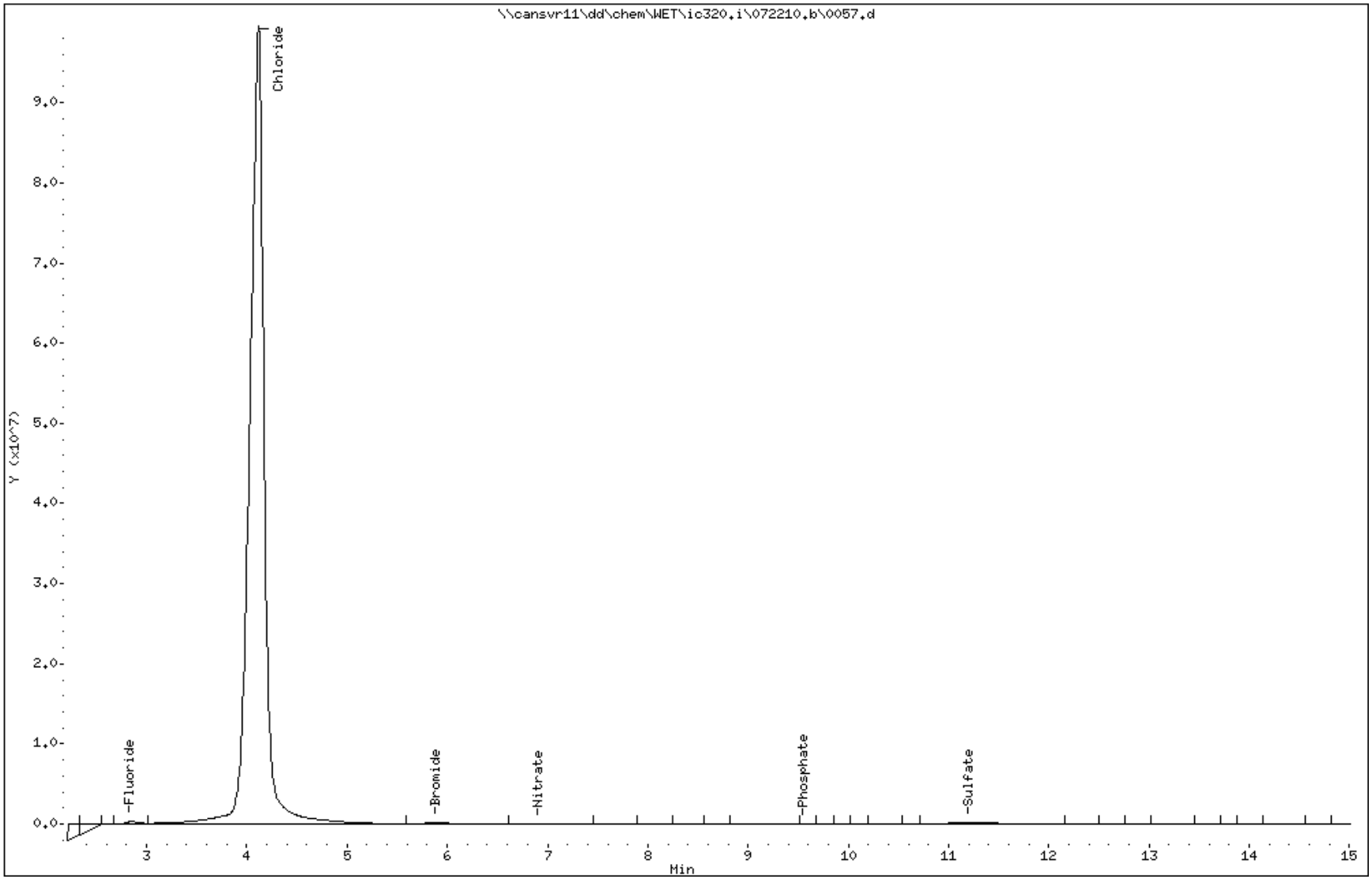
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.841	2.833	0.008	3563607	0.27701	0.2770
2 Chloride	4.116	4.008	0.108	1025816796	100.211	100.2
3 Nitrite	Compound Not Detected.					
4 Bromide	5.883	5.816	0.067	4531884	1.24221	1.242
5 Nitrate	6.908	6.750	0.158	943932	0.04743	0.04743(a)
6 Phosphate	9.550	9.233	0.317	4037	0.04545	0.04545(a)
7 Sulfate	11.208	11.191	0.017	7119706	1.06617	1.066

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0057.d
Date : 23-JUL-2010 06:59
Client ID:
Sample Info: L4JMX
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0058.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0058.d
Lab Smp Id: CE
Inj Date : 23-JUL-2010 07:16
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

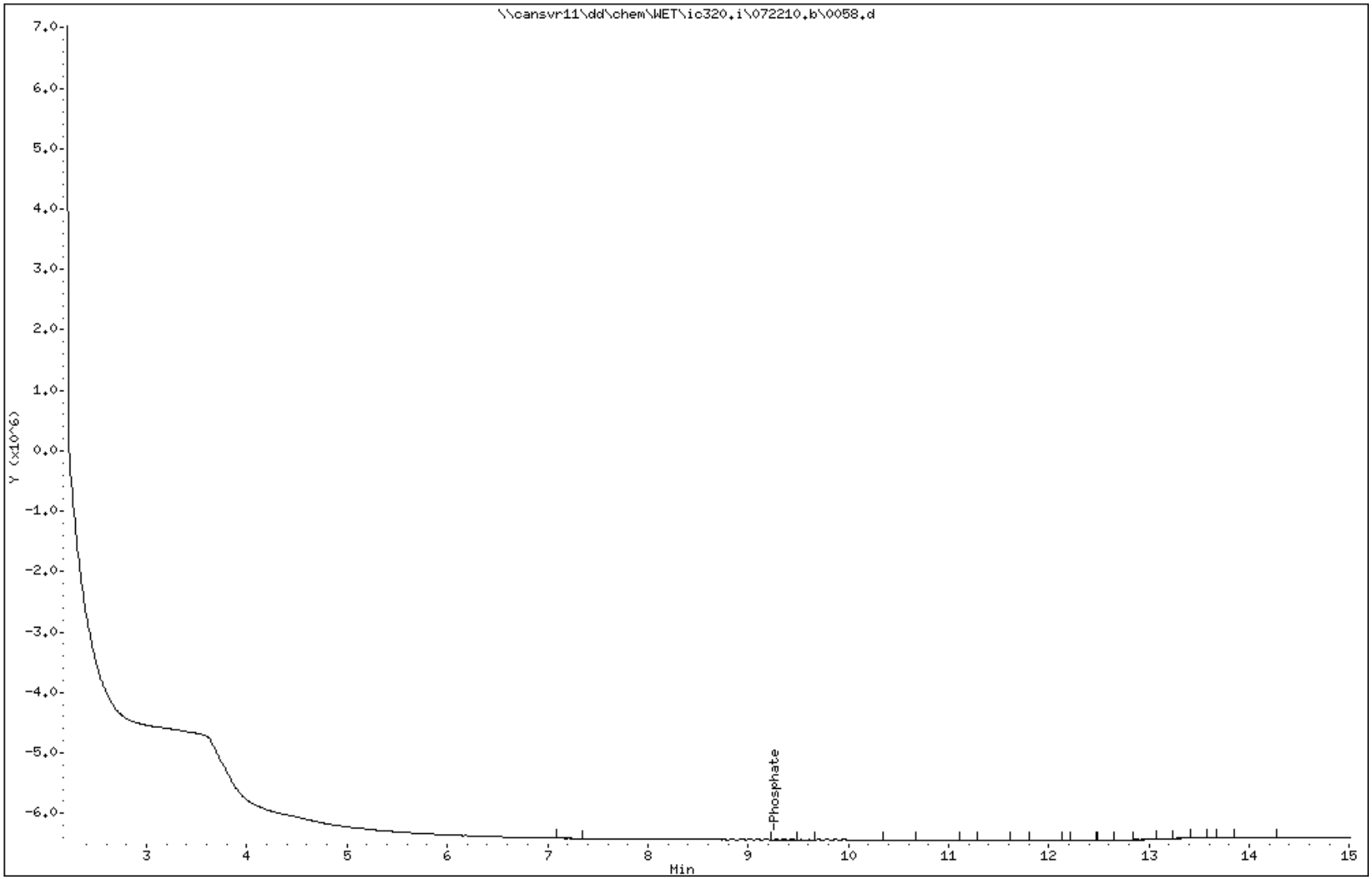
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.275	9.233	0.042	4263	0.04617	0.04617(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0058.d
Date : 23-JUL-2010 07:16
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0059.d
Report Date: 23-Jul-2010 12:34

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0059.d
Lab Smp Id: L4JM1
Inj Date : 23-JUL-2010 07:34
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JM1
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

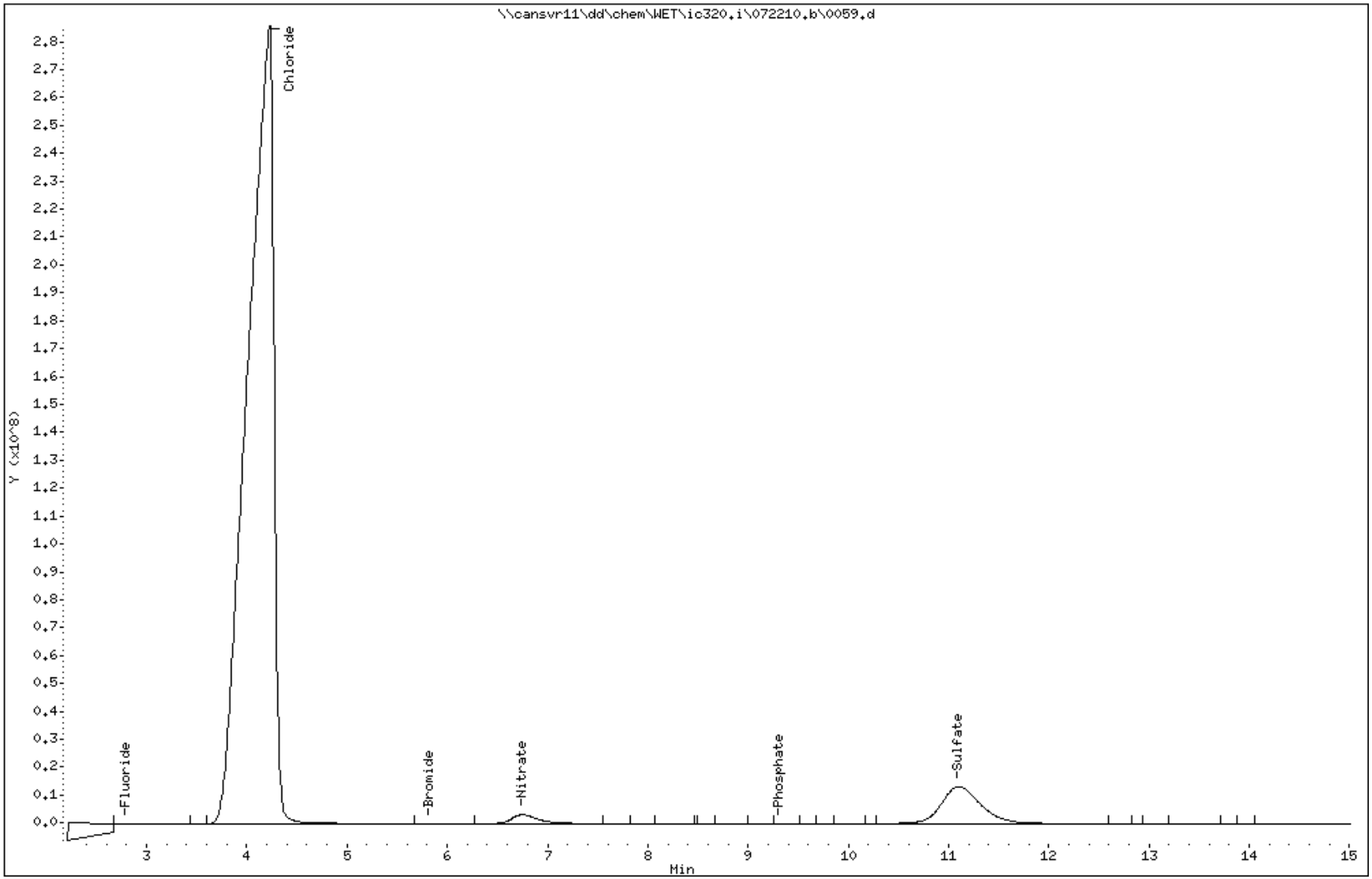
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.800	2.816	-0.016	358137	0.02784	0.02784(aM)
2 Chloride	4.225	4.000	0.225	5218771932	509.818	509.8(AM)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.816	5.858	-0.042	2773162	0.76014	0.7601
5 Nitrate	6.750	6.816	-0.066	58594869	2.94419	2.944
6 Phosphate	9.316	9.150	0.166	5459	0.04999	0.04999(a)
7 Sulfate	11.100	11.083	0.017	362171731	54.2351	54.24

QC Flag Legend

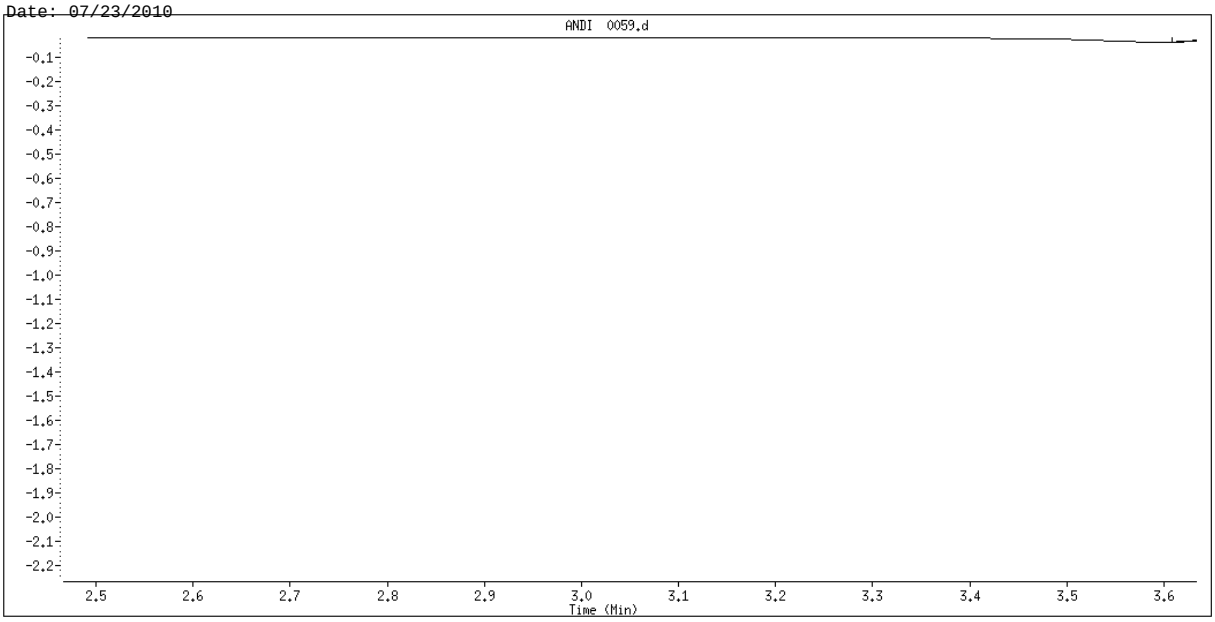
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0059.d
Date : 23-JUL-2010 07:34
Client ID:
Sample Info: L4JM1
Purge Volume: 1.0
Column phase: AS14

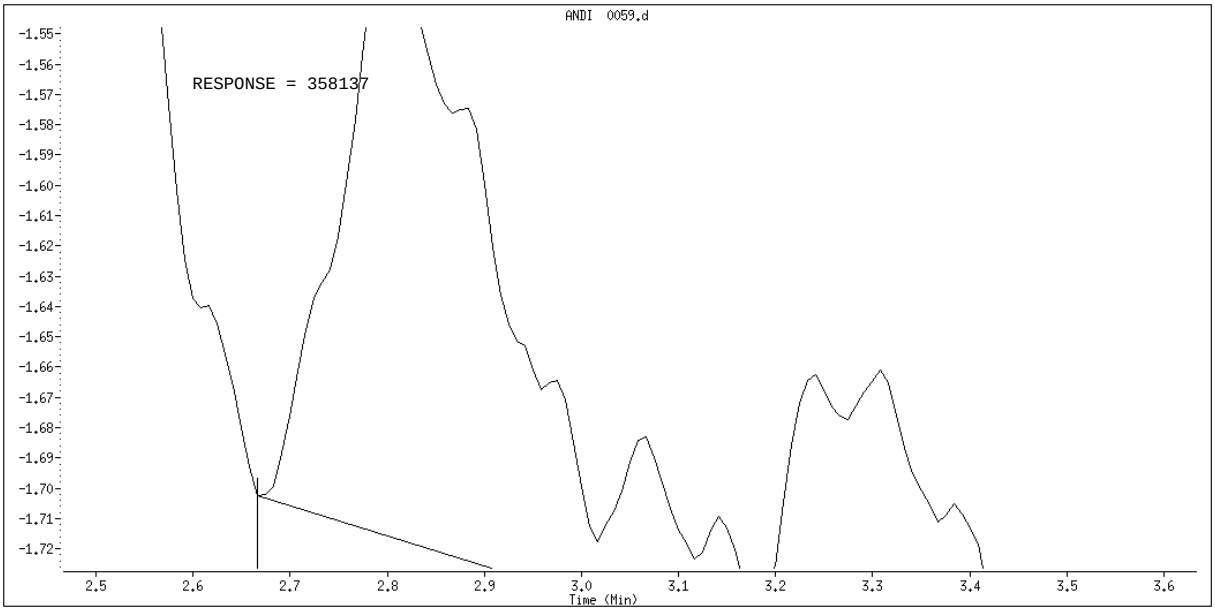
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0059.d
Inj. Date and Time: 23-JUL-2010 07:34
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



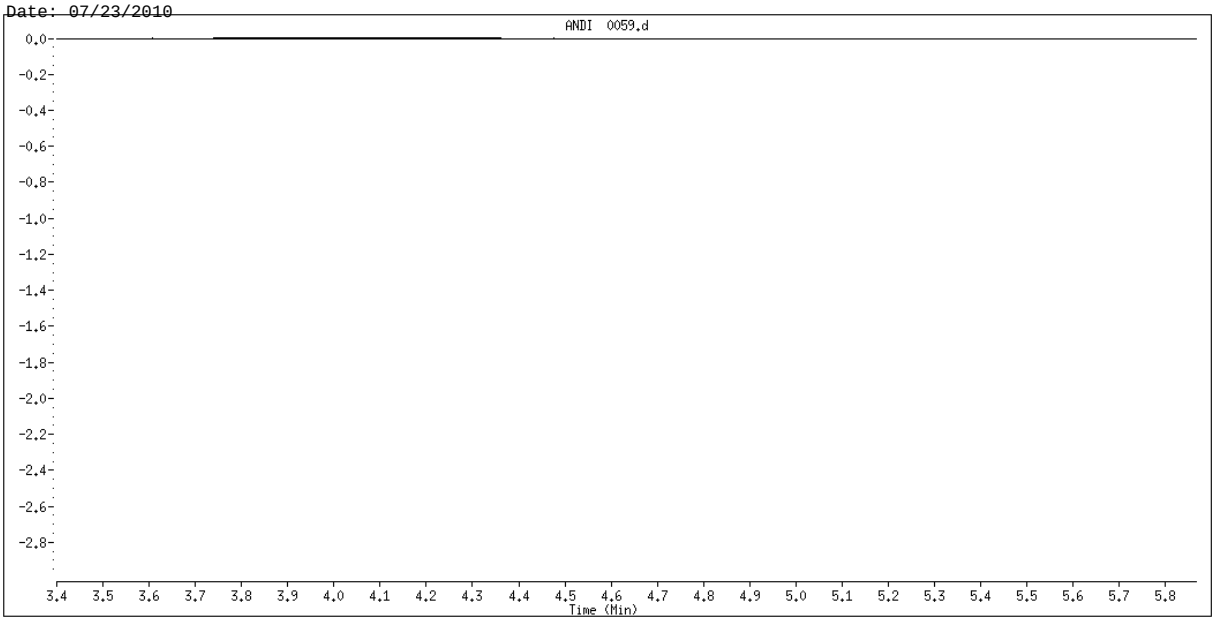
Original Integration



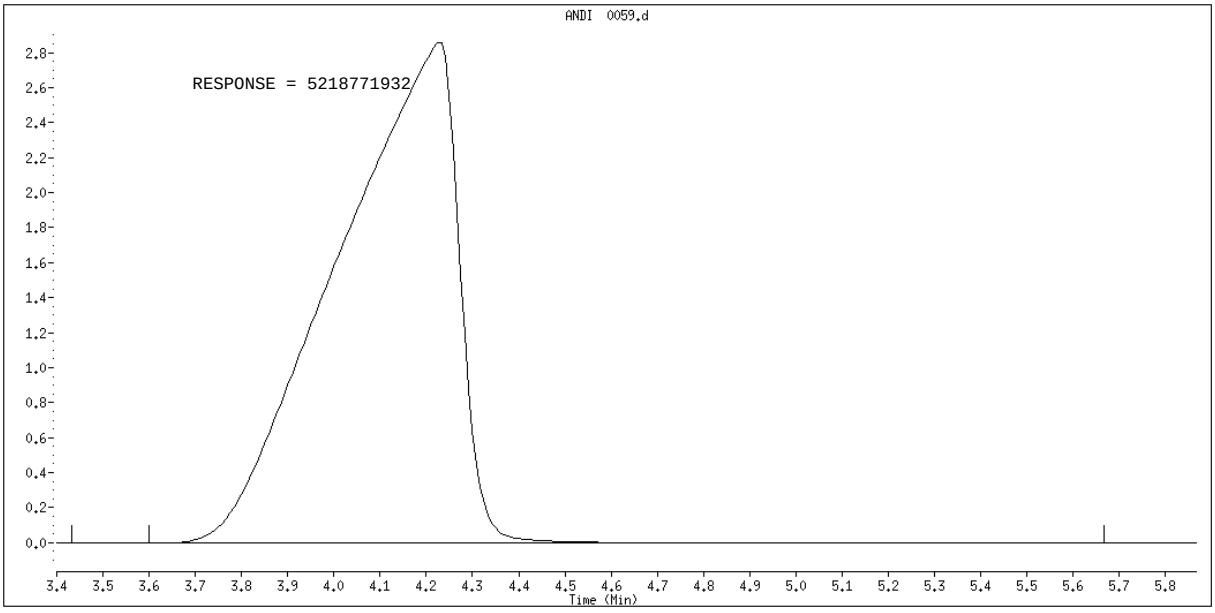
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0059.d
Inj. Date and Time: 23-JUL-2010 07:34
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0060.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0060.d
Lab Smp Id: L4JM3
Inj Date : 23-JUL-2010 07:51
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JM3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

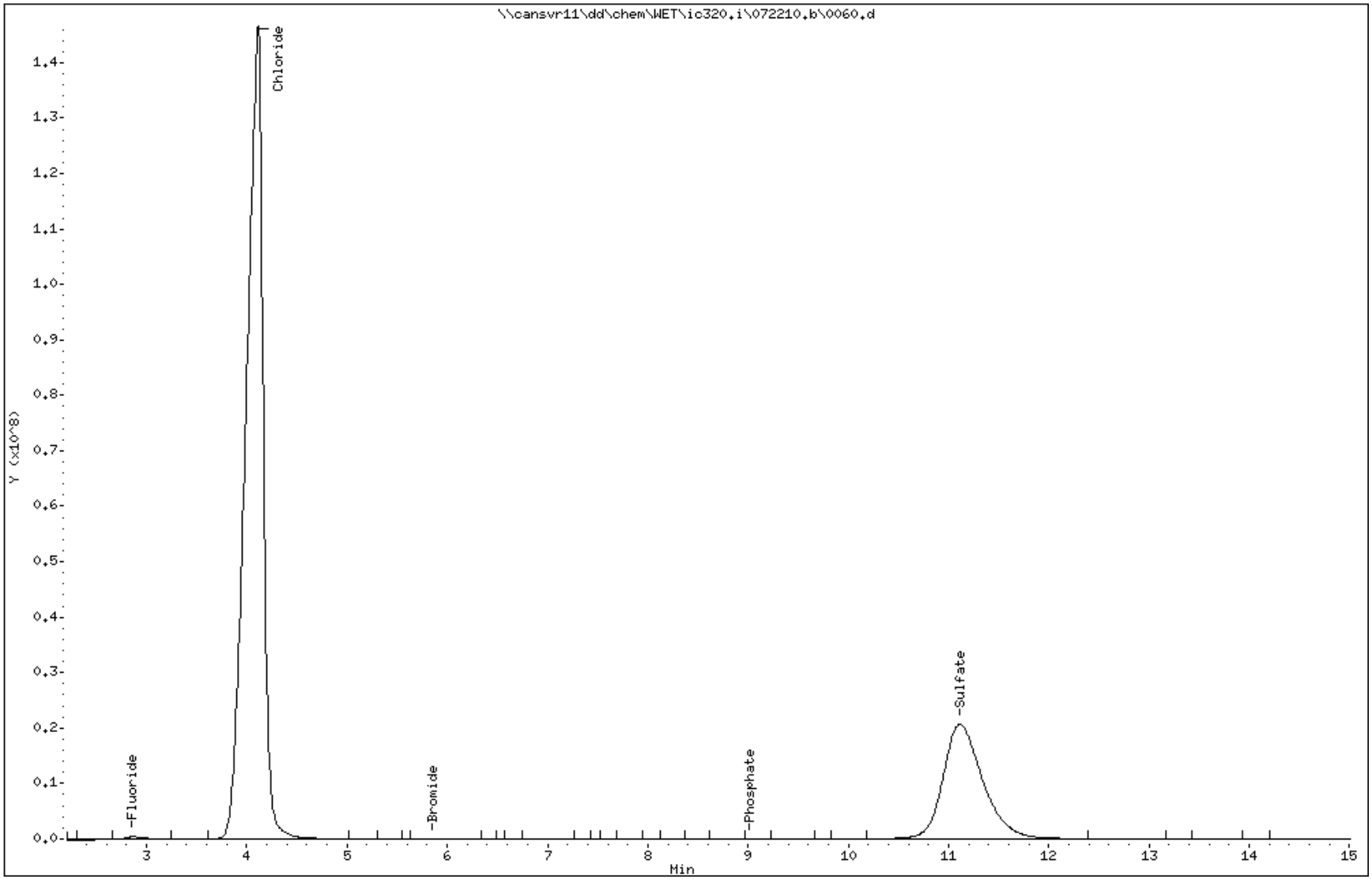
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.858	2.833	0.025	6240907	0.48512	0.4851
2 Chloride	4.116	4.008	0.108	1737551361	169.740	169.7
3 Nitrite	Compound Not Detected.					
4 Bromide	5.866	5.816	0.050	760718	0.20852	0.2085
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.025	9.233	-0.208	4027	0.04542	0.04542(a)
7 Sulfate	11.116	11.191	-0.075	566510069	84.8347	84.83

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0060.d
Date : 23-JUL-2010 07:51
Client ID:
Sample Info: L4JM3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0061.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0061.d
Lab Smp Id: LCS
Inj Date : 23-JUL-2010 08:08
Operator : 001754 Inst ID: ic320.i
Smp Info : LCS,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

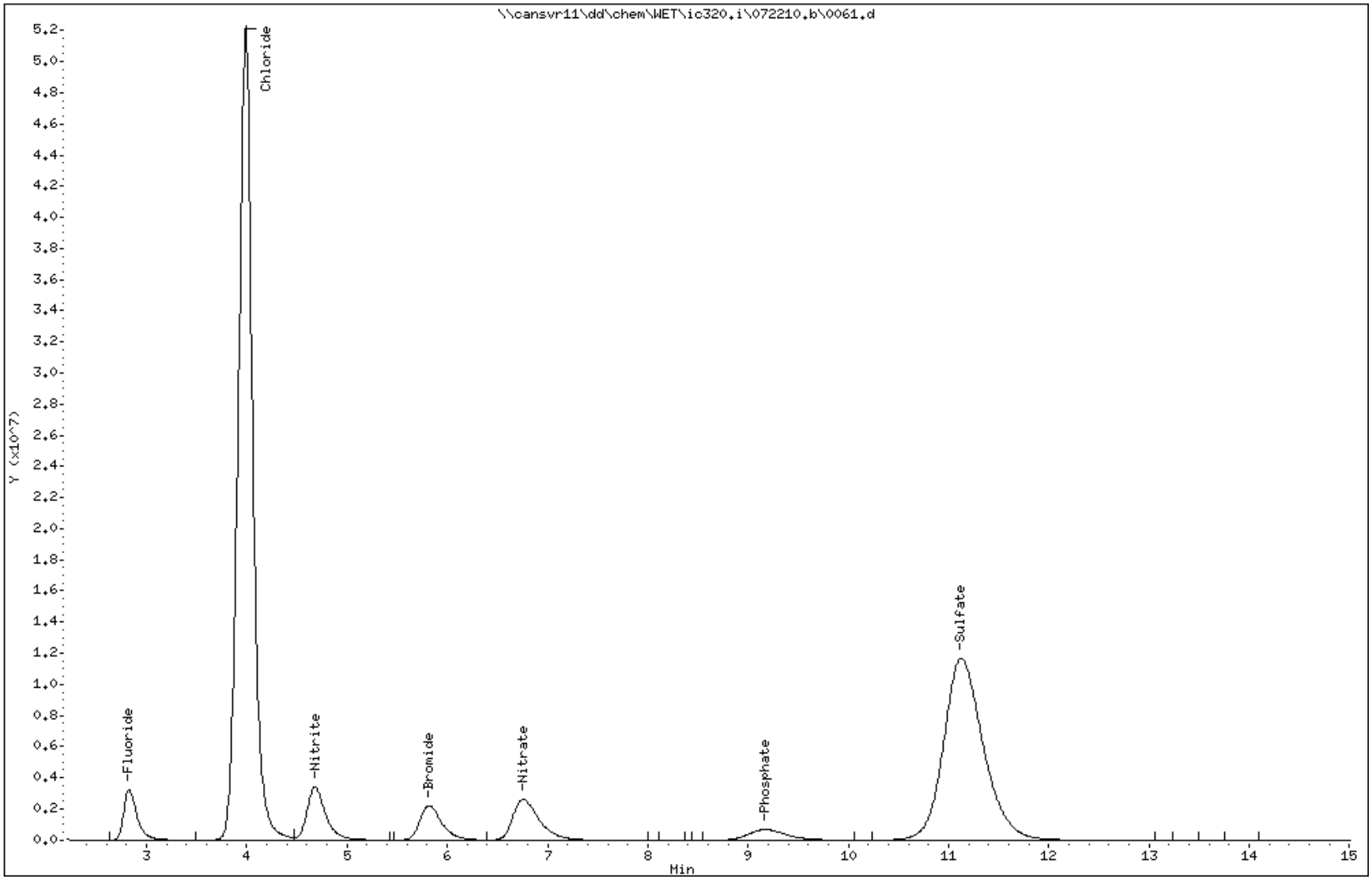
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.825	2.833	-0.008	30612992	2.37964	2.380
2 Chloride	3.991	4.008	-0.017	525493403	51.3351	51.34
3 Nitrite	4.683	4.691	-0.008	44795268	2.48521	2.485
4 Bromide	5.816	5.816	0.000	33899025	9.29189	9.292
5 Nitrate	6.758	6.750	0.008	48135002	2.41862	2.419
6 Phosphate	9.175	9.233	-0.058	698330	2.19373	2.194(R)
7 Sulfate	11.125	11.191	-0.066	324105397	48.5347	48.53

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0061.d
Date : 23-JUL-2010 08:08
Client ID:
Instrument: ic320.i
Sample Info: LCS,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0062.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0062.d
Lab Smp Id: LCS DUP
Inj Date : 23-JUL-2010 08:26
Operator : 001754 Inst ID: ic320.i
Smp Info : LCS DUP,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

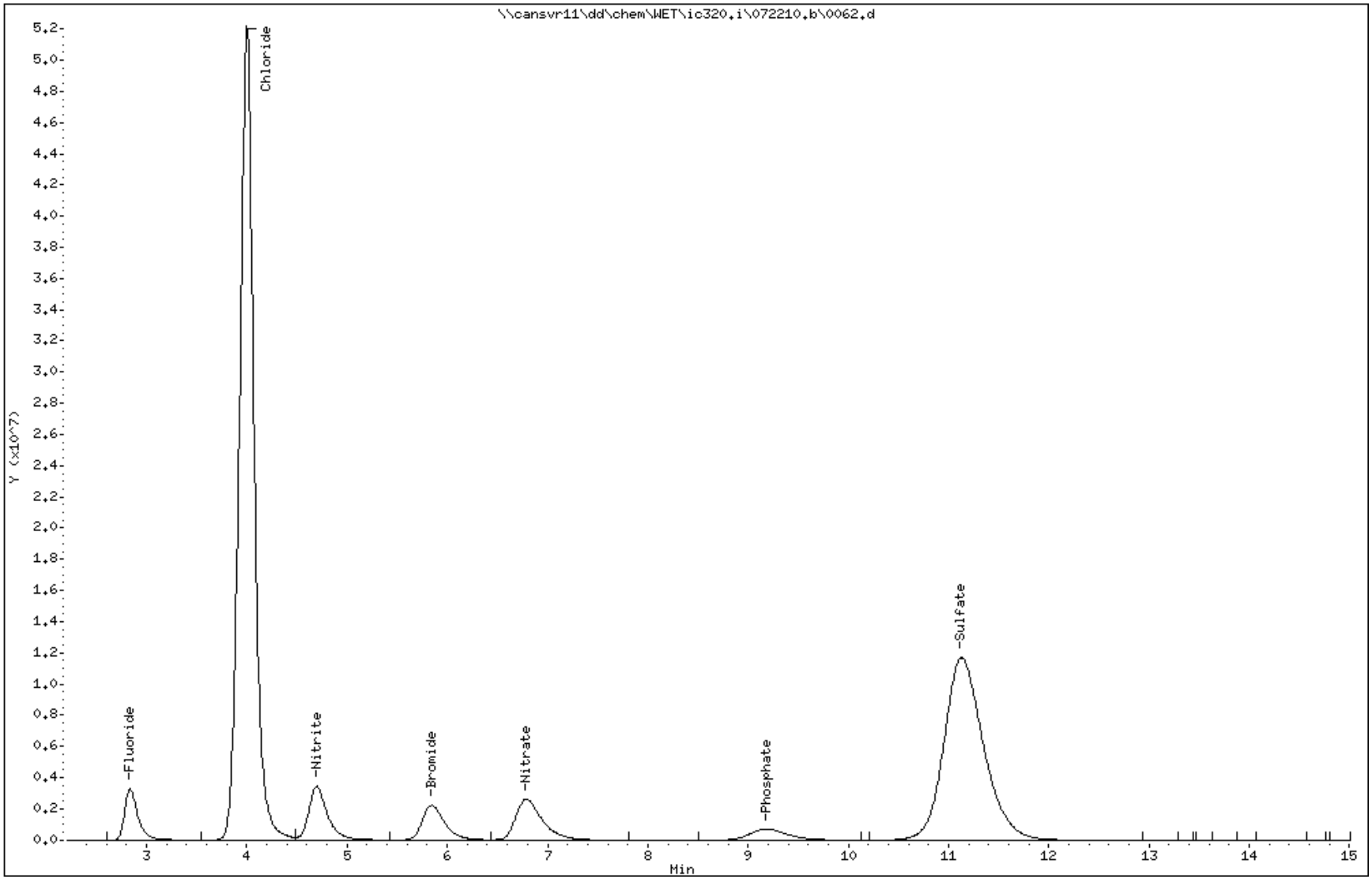
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.833	2.833	0.000	30918659	2.40340	2.403
2 Chloride	4.000	4.008	-0.008	528551559	51.6338	51.63
3 Nitrite	4.700	4.691	0.009	45160282	2.50546	2.505
4 Bromide	5.841	5.816	0.025	34097138	9.34619	9.346
5 Nitrate	6.783	6.750	0.033	48227146	2.42325	2.423
6 Phosphate	9.183	9.233	-0.050	716690	2.24871	2.249(R)
7 Sulfate	11.125	11.191	-0.066	322837032	48.3447	48.34

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0062.d
Date : 23-JUL-2010 08:26
Client ID:
Sample Info: LCS DUP,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0063.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic320.i Injection Date: 23-JUL-2010 08:43
Lab File ID: 0063.d Init. Cal. Date(s): 09-JUL-2010 09-JUL-2010
Analysis Type: WATER Init. Cal. Times: 16:19 18:38
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	12864538	12374379	12374379	0.010	3.81016	10.00000	Averaged
2 Chloride	10236534	10672783	10672783	0.010	-4.26168	10.00000	Averaged
3 Nitrite	18024730	17681490	17681490	0.010	1.90427	10.00000	Averaged
4 Bromide	3648240	3429595	3429595	0.010	5.99314	10.00000	Averaged
5 Nitrate	19901858	19331028	19331028	0.010	2.86822	10.00000	Averaged
6 Phosphate	2.50000	2.30819	294637	0.010	7.67223	10.00000	Quadratic
7 Sulfate	6677814	6555085	6555085	0.010	1.83786	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0063.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0063.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 08:43
Operator : 001754 Inst ID: ic320.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

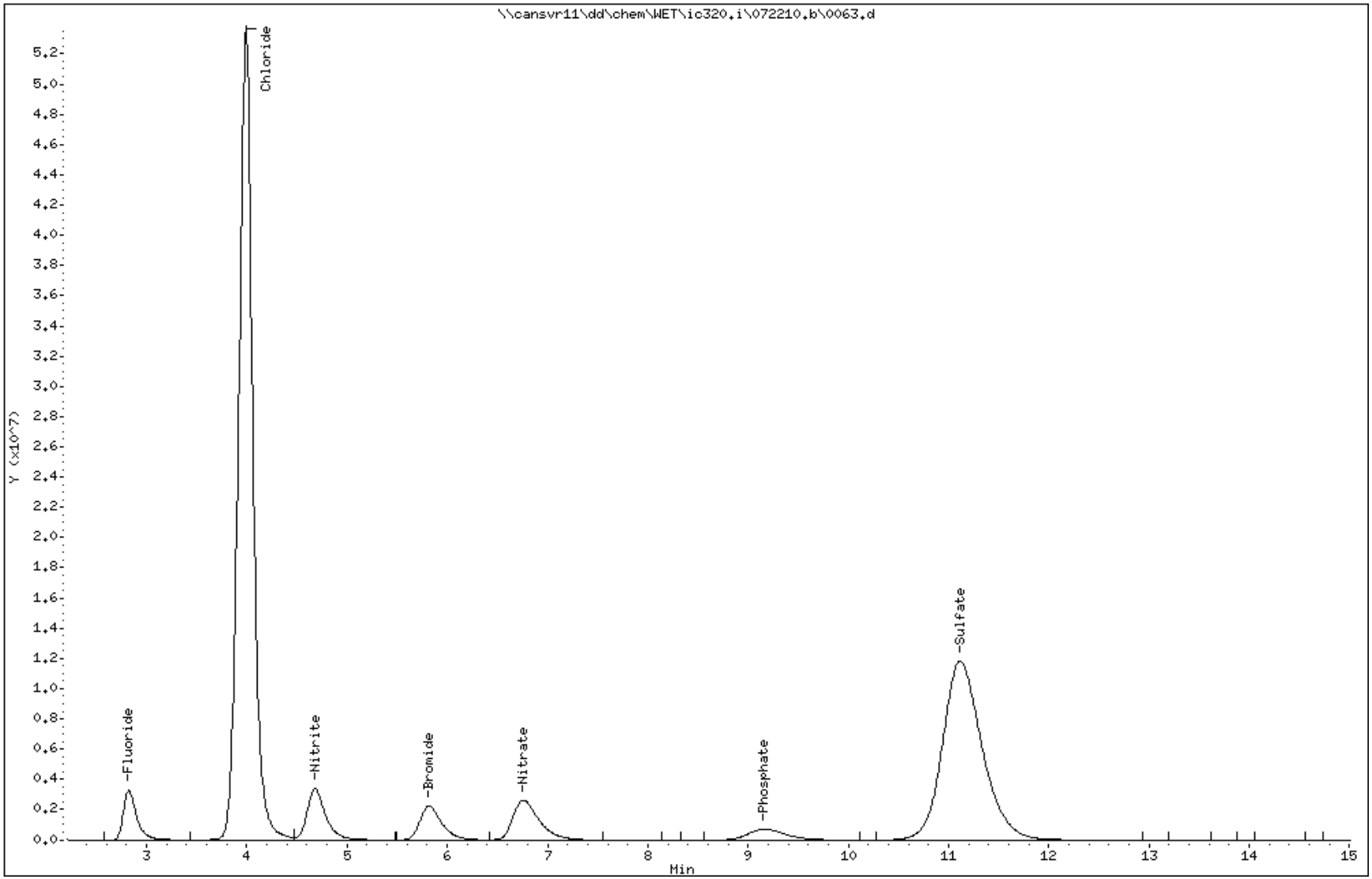
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.825	2.825	0.000	30935948	2.50000	2.405
2 Chloride	3.991	3.991	0.000	533639148	50.0000	52.13
3 Nitrite	4.683	4.683	0.000	44203725	2.50000	2.452
4 Bromide	5.816	5.816	0.000	34295954	10.0000	9.401
5 Nitrate	6.758	6.758	0.000	48327570	2.50000	2.428
6 Phosphate	9.166	9.166	0.000	736592	2.50000	2.308
7 Sulfate	11.116	11.116	0.000	327754243	50.0000	49.08

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0063.d
Date : 23-JUL-2010 08:43
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0064.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

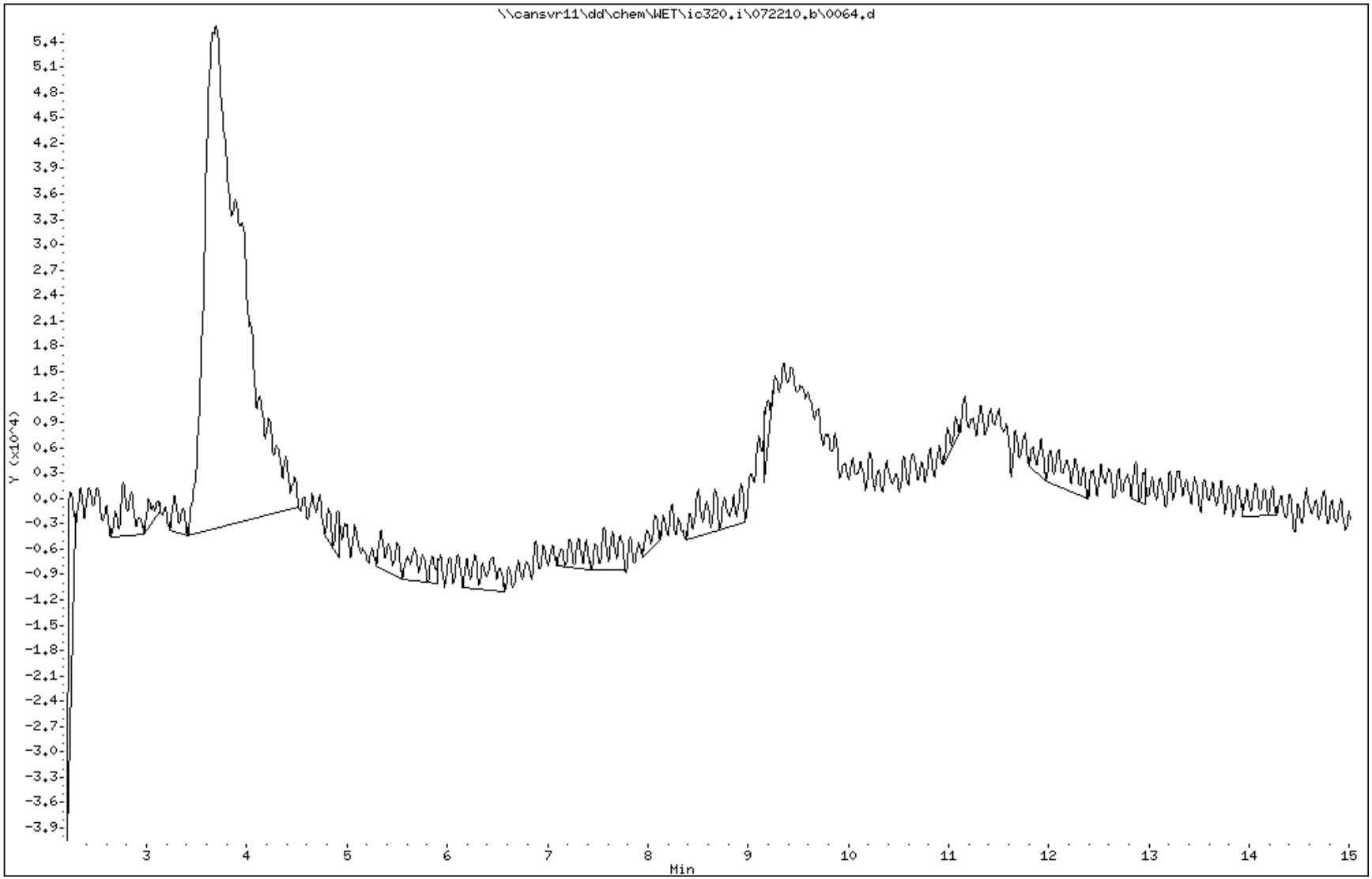
Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0064.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 09:01
Operator : 001754 Inst ID: ic320.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0064.d
Date : 23-JUL-2010 09:01
Client ID:
Instrument: ic320.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0065.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0065.d
Lab Smp Id: CE
Inj Date : 23-JUL-2010 09:18
Operator : 001754 Inst ID: ic320.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

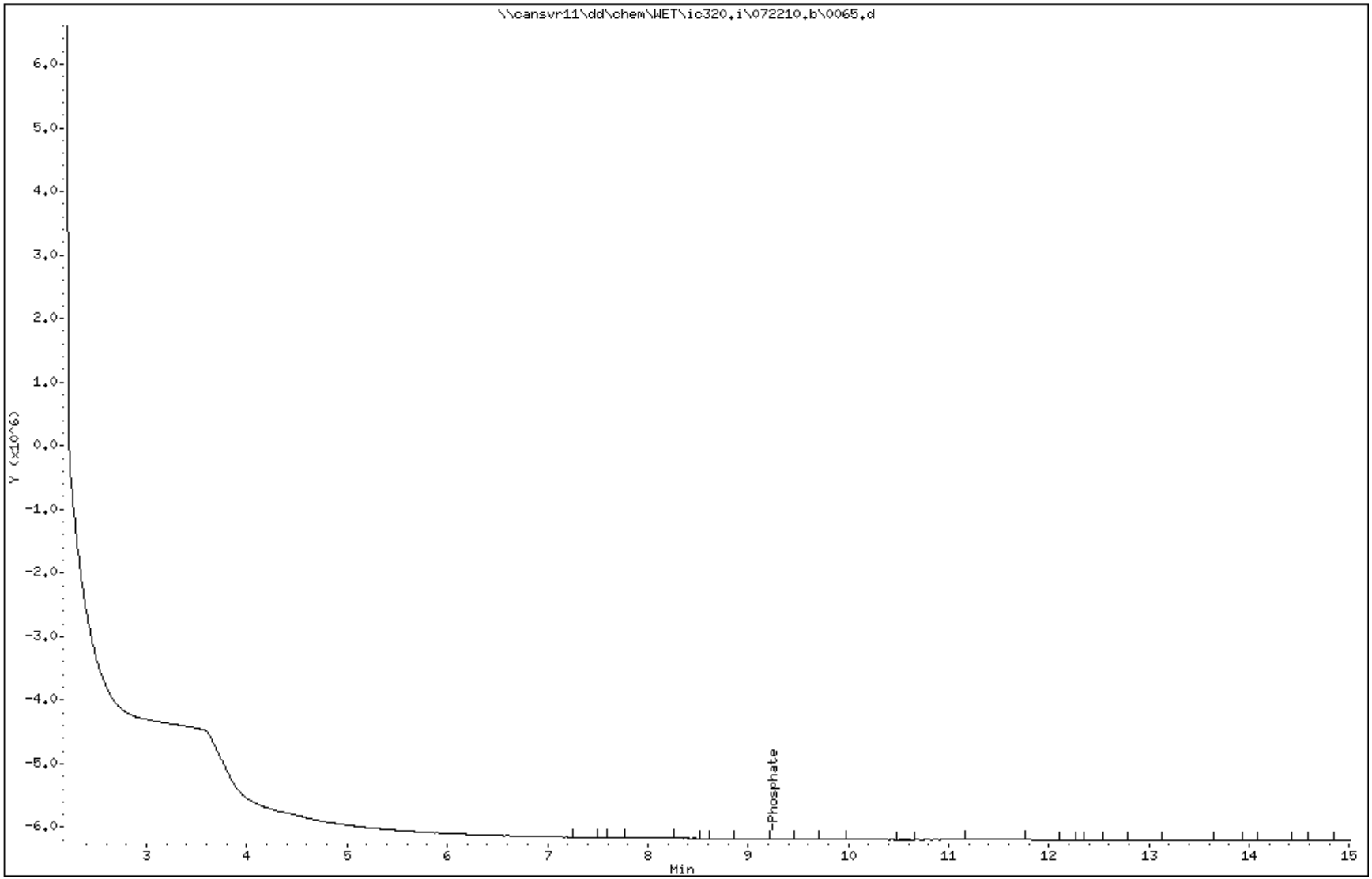
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.250	9.166	0.084	4188	0.04593	0.04593(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0065.d
Date : 23-JUL-2010 09:18
Client ID:
Instrument: ic320.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0066.d
Report Date: 23-Jul-2010 12:35

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0066.d
Lab Smp Id: L4JQH
Inj Date : 23-JUL-2010 09:35
Operator : 001754 Inst ID: ic320.i
Smp Info : L4JQH
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

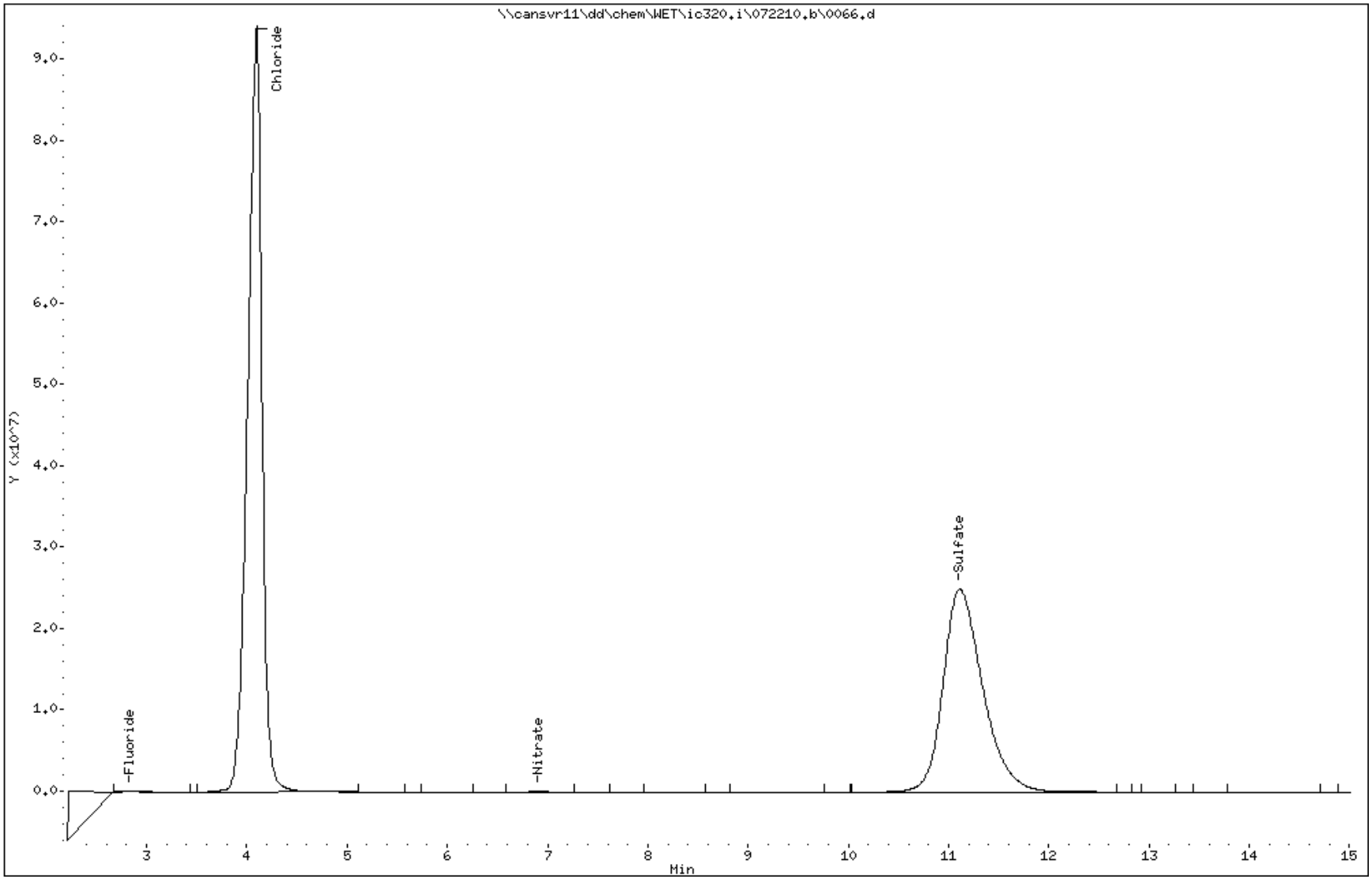
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.841	2.816	0.025	584245	0.04542	0.04542(aM)
2 Chloride	4.100	4.000	0.100	933757539	91.2181	91.22(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.908	6.816	0.092	699874	0.03517	0.03517(a)
6 Phosphate	Compound Not Detected.					
7 Sulfate	11.108	11.083	0.025	685931654	102.718	102.7

QC Flag Legend

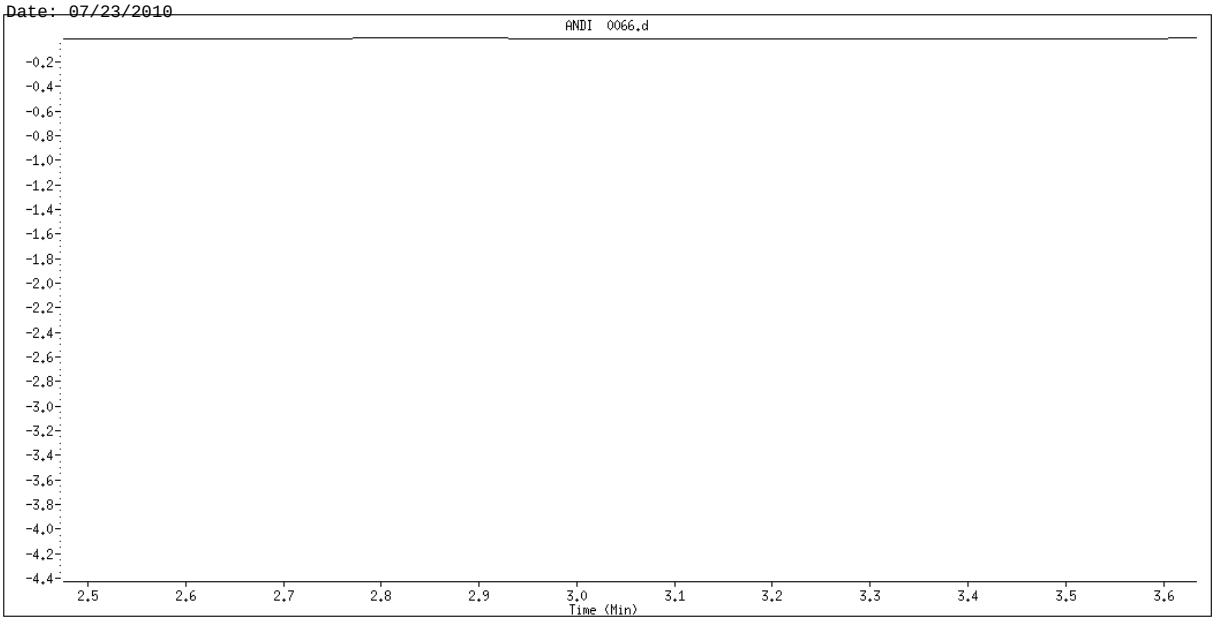
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0066.d
Date : 23-JUL-2010 09:35
Client ID:
Sample Info: L4JQH
Purge Volume: 1.0
Column phase: AS14

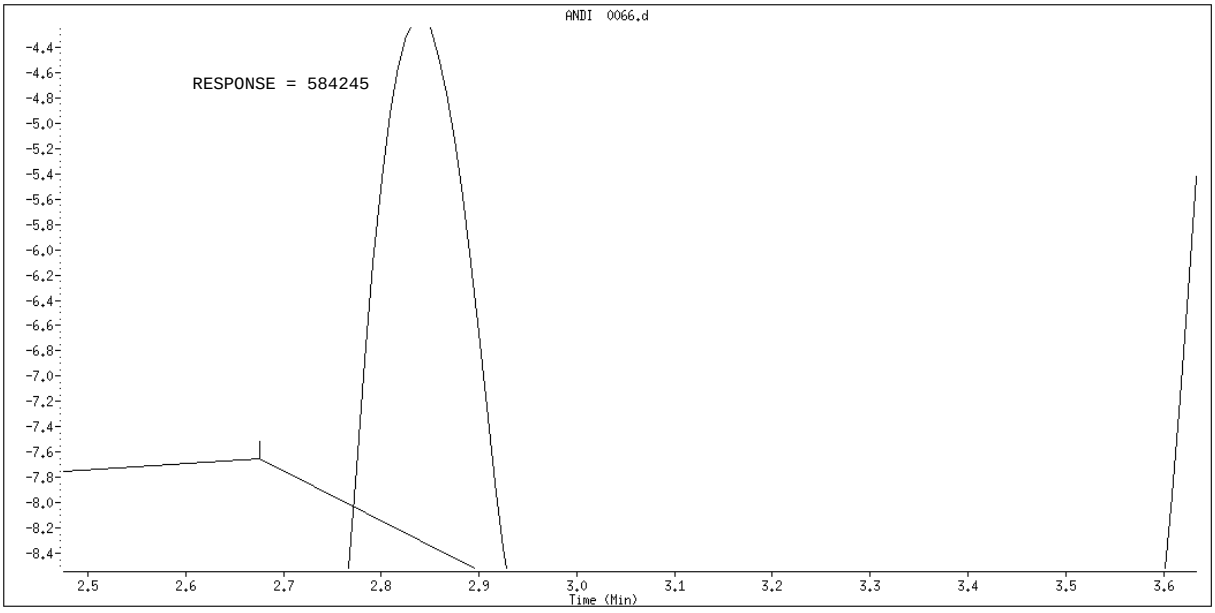
Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0066.d
Inj. Date and Time: 23-JUL-2010 09:35
Instrument ID: ic320.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/23/2010



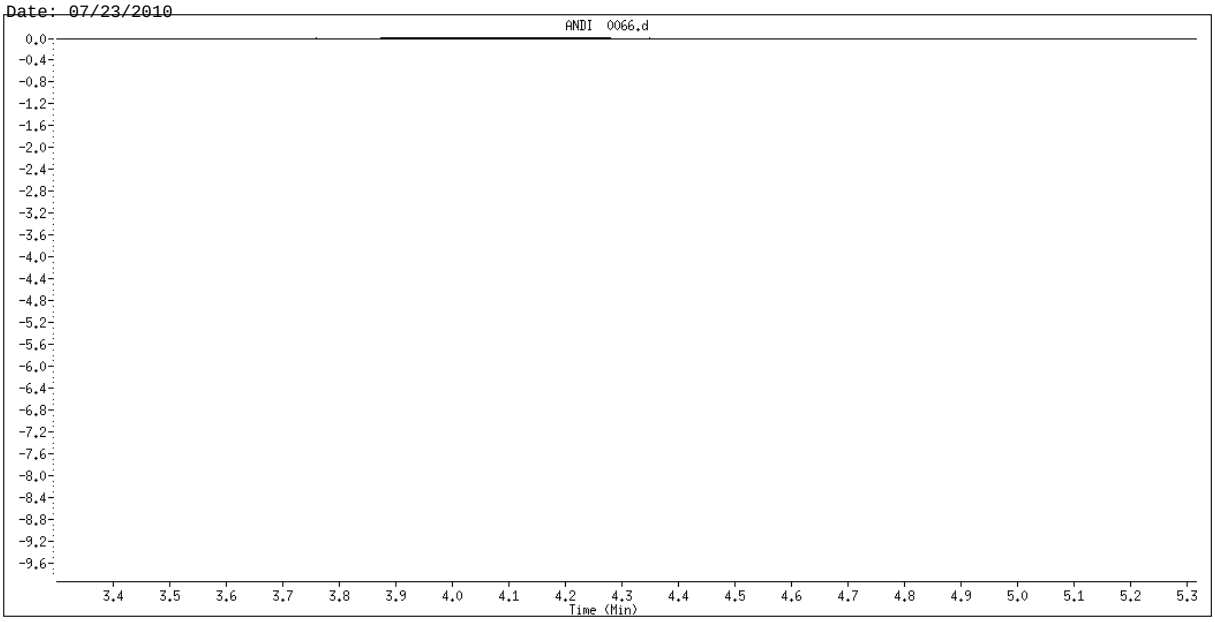
Original Integration



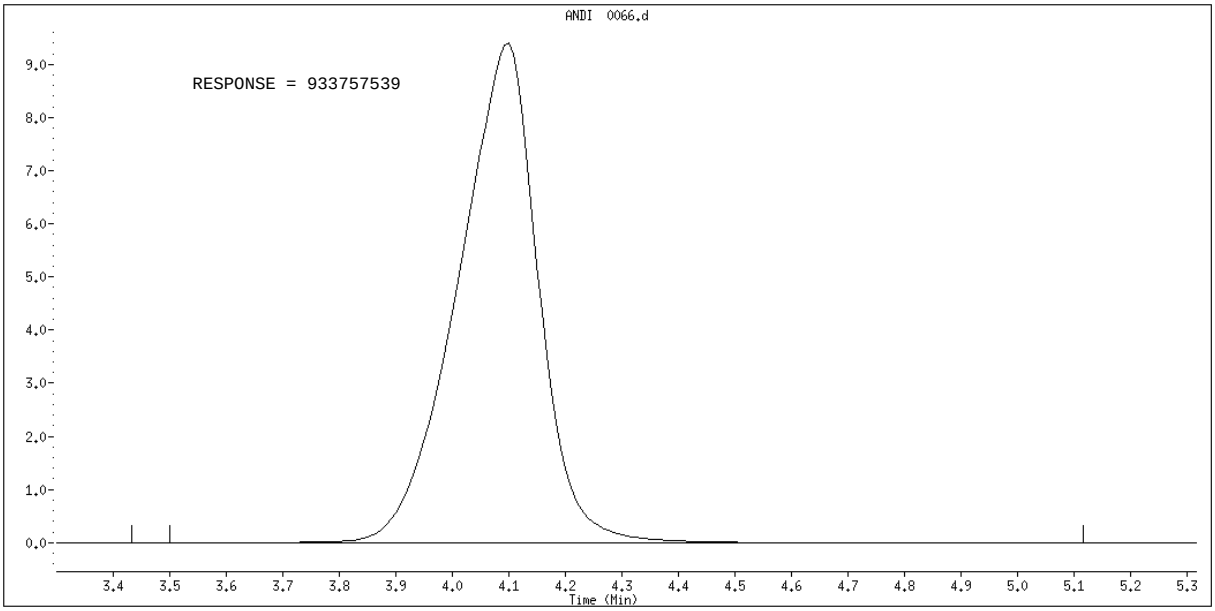
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0066.d
Inj. Date and Time: 23-JUL-2010 09:35
Instrument ID: ic320.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/23/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0067.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic320.i Injection Date: 23-JUL-2010 09:53
Lab File ID: 0067.d Init. Cal. Date(s): 09-JUL-2010 09-JUL-2010
Analysis Type: WATER Init. Cal. Times: 16:19 18:38
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	12864538	12390360	12390360	0.010	3.68594	10.00000	Averaged
2 Chloride	10236534	10666358	10666358	0.010	-4.19892	10.00000	Averaged
3 Nitrite	18024730	17633590	17633590	0.010	2.17002	10.00000	Averaged
4 Bromide	3648240	3474202	3474202	0.010	4.77047	10.00000	Averaged
5 Nitrate	19901858	19545407	19545407	0.010	1.79104	10.00000	Averaged
6 Phosphate	2.50000	2.33751	298566	0.010	6.49940	10.00000	Quadratic
7 Sulfate	6677814	6573973	6573973	0.010	1.55501	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0067.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0067.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 09:53
Operator : 001754 Inst ID: ic320.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

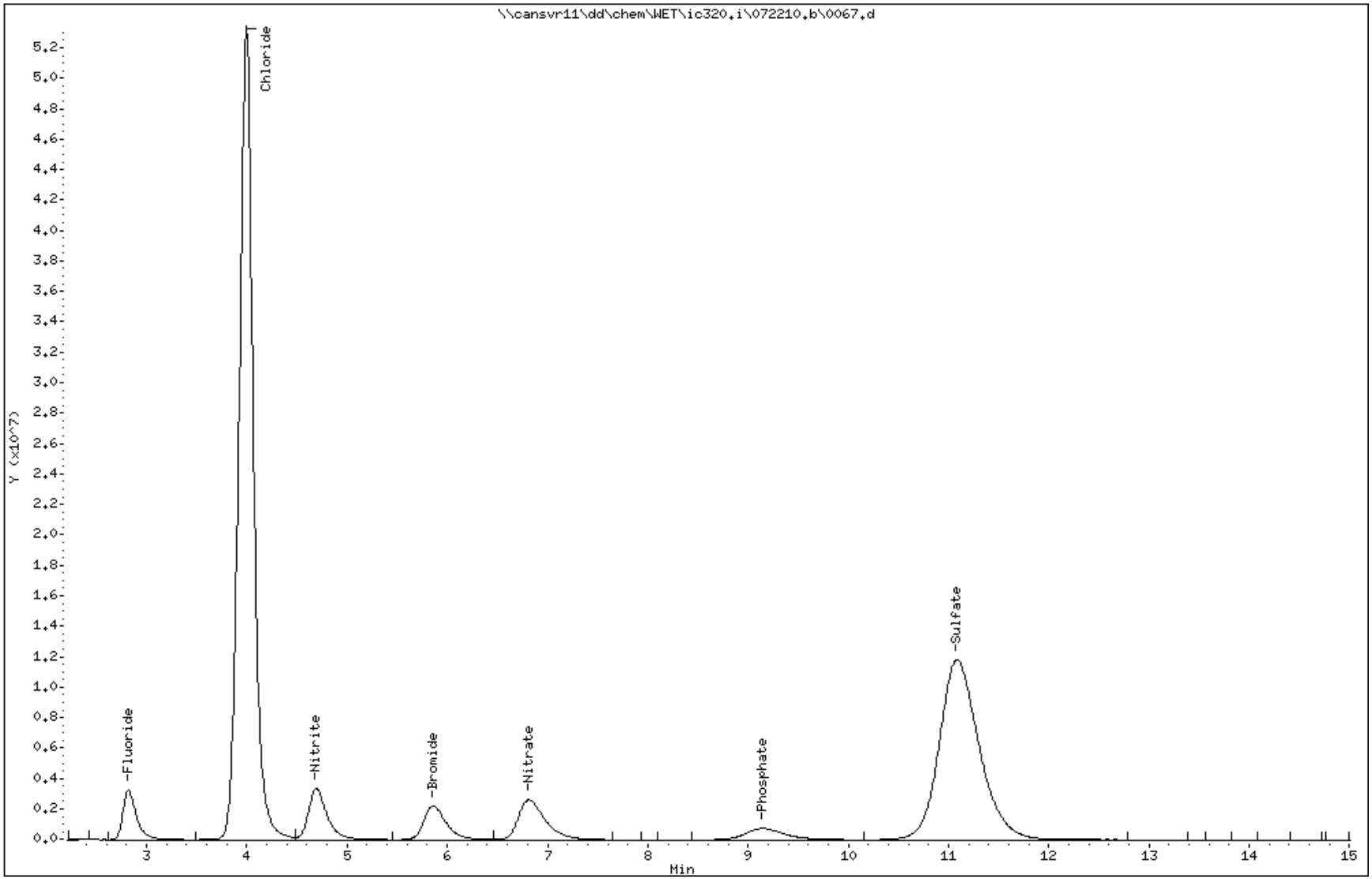
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.816	2.816	0.000	30975899	2.50000	2.408
2 Chloride	4.000	4.000	0.000	533317883	50.0000	52.10
3 Nitrite	4.691	4.691	0.000	44083974	2.50000	2.446
4 Bromide	5.858	5.858	0.000	34742015	10.0000	9.523
5 Nitrate	6.816	6.816	0.000	48863517	2.50000	2.455
6 Phosphate	9.150	9.150	0.000	746415	2.50000	2.338
7 Sulfate	11.083	11.083	0.000	328698652	50.0000	49.22

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0067.d
Date : 23-JUL-2010 09:53
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic320.i\072210.b\0068.d
Report Date: 23-Jul-2010 11:55

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic320.i\072210.b\0068.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 10:10
Operator : 001754 Inst ID: ic320.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic320.i\072210.b\DX320.m
Meth Date : 23-Jul-2010 11:55 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

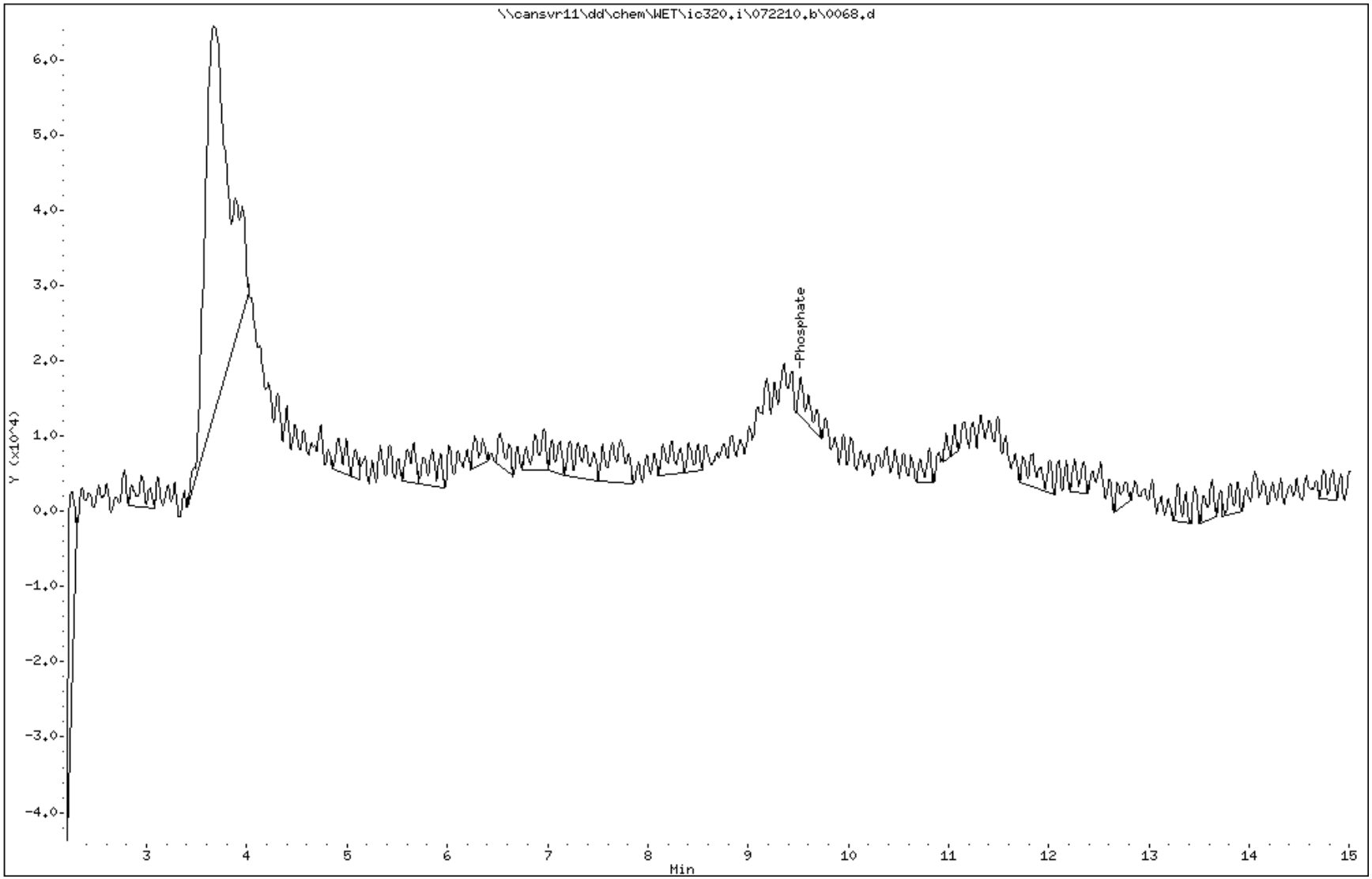
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	9.525	9.150	0.375	5308	0.04951	0.04951(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic320.i\072210.b\0068.d
Date : 23-JUL-2010 10:10
Client ID:
Sample Info: CCB
Purge Volume: 1.0
Column phase: AS14

Instrument: ic320.i
Operator: 001754
Column diameter: 0.00



TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): TOC

Batch(es): 0207246.8, 9

Method #/SOP#: 5310C 415.1

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓			✓		
2. Calibration curve consist of the minimum number of calibration standards?	✓			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓			✓		
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?	✓			✓		
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			✓
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓			✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			✓
E. Titrant						
1. Titrant standardized?			✓			✓
2. If no, standardization expires _____			✓			
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			✓
2. Calculations checked for error ?	✓			✓		
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?	✓			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			✓
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓			✓		
10. All reagent and standard numbers recorded in logbook?	✓		✓	✓		
11. Edits dated and initialed				✓		

Comment on any "NO" response(s): _____

Level I reviewer: Tom Hargman **Date:** 7/27/10

Level II Reviewer: QC **Date:** 7/28/10

N:\Inorganics\spreadsheets2\Use This Wet Chem_Level I.doc
Corporate Policy, QA-012
Revision date: 08/25/00

0207246.8.9
5310C 4501

****
** OI Analytical Model 1010 TOC **
** RUN SETUP **
****

Operator: Unknown
Data Path: C:\PROGRA~1\OIANAL~2\TOCREP~1\DATA10\072610A
WinTOC Version: 5.2 Firmware Version: 5.2
WinTOC Revision: rev 241 Firmware Revision: rev 364

Report To File: Enabled Naming Mode: Automatic
Prefix: 0726 Index: 0

****
** CONFIGURATION **
****

Analysis Mode: TOC Spl Intro: Autosampler 53
Remote Start : OFF

Loop Size: 1 mL Actual Volume 1mL 5mL 10mL 25mL

Loop A (uL):	1000	5000	10000	25000
Loop B (uL):	1000	5000	10000	25000

Tray Type: 53 Vial Vial Option: Septum Piercing
Needle Depth: 95 % Preacid Volume (uL): 200
Wash Needle Depth: 94 % Preacid Purge Time (min:sec): 0:30

TIC TOC TC
Blank ---- ---- ---- Linearization Coeff: 61000
Average: 300 866 260

Sample Transfer Times (sec)

	Initial Fill			Loop Fill			Sample Inject
	Non-AS	AS	AS w/Sep	Non-AS	AS	AS w/Sep	(all)
1mL:	6.0	4.5	4.0	1.2	1.2	1.2	4.5
5mL:	8.1	7.2	6.8	5.1	5.1	4.2	9.3
10mL:	14.2	12.2	11.0	10.5	10.5	11.0	16.5
25mL:	35.0	35.0	32.0	n/a	n/a	n/a	38.0

Analog Concentration Signal indicates TOC
Analog Conc. Signal Timer is OFF, Timer duration (h:m:s): 00:00:00
Min Signal Range: 0.000 ppmC, Max Signal Range: 0.000 ppmC

Alarms DISABLED
Alarm Relay Timer is OFF, Timer duration (h:m:s): 00:00:00
Conc. Alarm Setpoints (ppm C)

	Low	High
TIC:	0.000	0.000
TOC:	0.000	0.000
TC:	0.000	0.000

****
** CALIBRATION **
****

061610 Fri Jun 18 08:16:43 2010

phosphoric Acid WR000451
Sodium persulfate WR000452
LCS P153-516
CCV TC0045

Std. #	Used	Conc. (ppm)	Volume (mL)		
1	Yes	0.050	2.000	RF (ugC/k-cts):	1.374
2	Yes	5.000	2.000	R-Squared:	0.9959
3	Yes	10.000	2.000	Offset (cts):	-726
4	Yes	25.000	2.000	Offset (ugC):	0.999
5	Yes	50.000	2.000	Calibration Mode:	TOC
				Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	808	4625	15692	33601	72696	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

****
** METHODS **
****

TOC Thu Jul 01 10:32:27 2010
Acid Volume: 200 uL Rinse Volume (mL): 20
Oxidant Volume: 1000 uL Rinses Per Rep: 1
Auto-Repeat Time: 00:00:00 (hr:min:sec) Rinses Per Sample: 1

	TIC	TOC	TC
React: (min:sec):	02:00	02:30	00:30
Detect: (min:sec):	01:15	01:30	00:45

****
** SEQUENCE **
****

072610 Mon Jul 26 07:40:46 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 5

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	ZZZZZ	toc	Sample	1	2.000	0	1.00	No	
2	CCV	toc	Sample	1	2.000	0	1.00	No	TV=25 P
3	CCB	toc	Sample	1	2.000	0	1.00	No	
4	LCS-2X	toc	Sample	1	2.000	0	1.00	No	P153-51
5	LCS2-2X	toc	Sample	1	2.000	0	1.00	No	P153-51

Pos#	Remarks
2	TV=25 PPM Range-90-110%
4	P153-516 TV=69.4 @ 2X
5	P153-516 TV=69.4 @ 2X
6	P153-516 TV=69.4 @ 2X

****
** RESULTS - 072610 **
****

Pos/Vial: 1 Name: ZZZZZ Analyzed: 26Jul2010 08:36
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726000	26Jul2010	08:36	-	-	-	970	0.143	0.072	-	-	-

Pos/Vial: 2 Name: CCV Analyzed: 26Jul2010 08:46
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: TV=25 PPM Range-90-110%

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726001	26Jul2010	08:46	-	-	-	35664	47.820	23.910	-	-	-

96 7

Pos/Vial: 3 Name: CCB Analyzed: 26Jul2010 08:57
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726002	26Jul2010	08:57	-	-	-	689	0.000	0.000	-	-	-

0207246

Pos/Vial: 4 Name: LCS-2X Analyzed: 26Jul2010 09:07
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726003	26Jul2010	09:07	-	-	-	50689	68.468	34.234	-	-	-

0207246

68.468

Pos/Vial: 5 Name: LCS2-2X Analyzed: 26Jul2010 09:18
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726004	26Jul2010	09:18	-	-	-	47909	64.647	32.324	-	-	-

0207246, 8, 9

64.646

E-Low gas pressure. 26Jul2010 09:20

****
** CALIBRATION **

****

061610 Fri Jun 18 08:16:43 2010

Std. #	Used	Conc. (ppm)	Volume (mL)		
				RF (ugC/k-cts):	1.374
1	Yes	0.050	2.000	R-Squared:	0.9959
2	Yes	5.000	2.000	Offset (cts):	-726
3	Yes	10.000	2.000	Offset (ugC):	0.999
4	Yes	25.000	2.000	Calibration Mode:	TOC
5	Yes	50.000	2.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	808	4625	15692	33601	72696	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

****
** SEQUENCE **
****

072610A Mon Jul 26 09:20:20 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 8

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4K99	toc	Sample	1	2.000	0	1.00	No	
2	L4K99-MS	toc	Sample	1	2.000	0	1.00	No	
3	L4K99-MSD	toc	Sample	1	2.000	0	1.00	No	
4	L4JD3	toc	Sample	1	2.000	0	1.00	No	
5	L4JD3-MS	toc	Sample	1	2.000	0	1.00	No	
6	L4JD3-MSD	toc	Sample	1	2.000	0	1.00	No	
7	CCV	toc	Sample	1	2.000	0	1.00	No	
8	CCB	toc	Sample	1	2.000	0	1.00	No	

****
** RESULTS - 072610A **
****

Pos/Vial: 1 Name: L4K99 Analyzed: 26Jul2010 09:34
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726005	26Jul2010 09:34	-	-	-	7400	8.979	4.490	-	-	-

Pos/Vial: 2 Name: L4K99-MS Analyzed: 26Jul2010 09:44
Run ID: 1 Meth: toc Vol (mL): 2.000

Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726006	26Jul2010 09:44	-	-	-	22088	29.164	14.582	-	-	-

L4K99-MS 29.164

Pos/Vial: 3 Name: L4K99-MSD Analyzed: 26Jul2010 09:55
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726007	26Jul2010 09:55	-	-	-	22357	29.533	14.767	-	-	-

29.534

Pos/Vial: 4 Name: L4JD3 Analyzed: 26Jul2010 10:06
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726008	26Jul2010 10:06	-	-	-	2366	2.061	1.031	-	-	-

Pos/Vial: 5 Name: L4JD3-MS Analyzed: 26Jul2010 10:16
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726009	26Jul2010 10:16	-	-	-	19096	25.052	12.526	-	-	-

25.052

Pos/Vial: 6 Name: L4JD3-MSD Analyzed: 26Jul2010 10:27
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726010	26Jul2010 10:27	-	-	-	20133	26.477	13.238	-	-	-

26.476

Pos/Vial: 7 Name: CCV Analyzed: 26Jul2010 10:37
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

CCV 967

1 0726011 26Jul2010 10:37 - - - 35873 48.107 24.054 - - -

Pos/Vial: 8 Name: CCB Analyzed: 26Jul2010 10:48
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
SAMPLES												
1	0726012	26Jul2010	10:48	-	-	-	659	0.000	0.000	-	-	-

02072489

****
** CALIBRATION **
****

061610 Fri Jun 18 08:16:43 2010

Std. #	Used	Conc. (ppm)	Volume (mL)
1	Yes	0.050	2.000
2	Yes	5.000	2.000
3	Yes	10.000	2.000
4	Yes	25.000	2.000
5	Yes	50.000	2.000

RF (ugC/k-cts): 1.374
R-Squared: 0.9959
Offset (cts): -726
Offset (ugC): 0.999
Calibration Mode: TOC
Allow Editing: No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5
1	808	4625	15692	33601	72696
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

(* = unused)

****
** SEQUENCE **
****

072610B Mon Jul 26 10:59:47 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 36

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4J6L	toc	Sample	1	2.000	0	1.00	No	
2	L4J6N	toc	Sample	1	2.000	0	1.00	No	
3	L4JQW	toc	Sample	1	2.000	0	1.00	No	
4	L4JQ3	toc	Sample	1	2.000	0	1.00	No	
5	L4J1P	toc	Sample	1	2.000	0	1.00	No	
6	L4J14	toc	Sample	1	2.000	0	1.00	No	
7	L4J15	toc	Sample	1	2.000	0	1.00	No	
8	L4J16	toc	Sample	1	2.000	0	1.00	No	
9	L4J2C	toc	Sample	1	2.000	0	1.00	No	
10	L4J2L	toc	Sample	1	2.000	0	1.00	No	
11	CCV	toc	Sample	1	2.000	0	1.00	No	

```
12 CCB        toc      Sample  1  2.000   0 1.00 No
13 L4J2X      toc      Sample  1  2.000   0 1.00 No
14 L4J28      toc      Sample  1  2.000   0 1.00 No
15 L4J3D      toc      Sample  1  2.000   0 1.00 No
16 L4J7L      toc      Sample  1  2.000   0 1.00 No
17 L4J7R      toc      Sample  1  2.000   0 1.00 No
18 L4K7R      toc      Sample  1  2.000   0 1.00 No
19 L4K9A      toc      Sample  1  2.000   0 1.00 No
20 L4K9T      toc      Sample  1  2.000   0 1.00 No
21 L4K91      toc      Sample  1  2.000   0 1.00 No
22 L4LAK      toc      Sample  1  2.000   0 1.00 No
23 CCV        toc      Sample  1  2.000   0 1.00 No
24 CCB        toc      Sample  1  2.000   0 1.00 No
25 L4LAQ      toc      Sample  1  2.000   0 1.00 No
26 L4JDK      toc      Sample  1  2.000   0 1.00 No
27 L4JD0      toc      Sample  1  2.000   0 1.00 No
28 L4JEC      toc      Sample  1  2.000   0 1.00 No
29 L4JED      toc      Sample  1  2.000   0 1.00 No
30 L4JEG      toc      Sample  1  2.000   0 1.00 No
31 L4K1A      toc      Sample  1  2.000   0 1.00 No
32 L4K1R      toc      Sample  1  2.000   0 1.00 No
33 L4K2T      toc      Sample  1  2.000   0 1.00 No
34 L4K29      toc      Sample  1  2.000   0 1.00 No
35 CCV        toc      Sample  1  2.000   0 1.00 No
36 CCB        toc      Sample  1  2.000   0 1.00 No

**********************************************************************
**              RESULTS - 072610B                   **
**********************************************************************

Pos/Vial:  1   Name: L4J6L        Analyzed:  26Jul2010 11:11
Run ID:    8   Meth: toc          Vol (mL):  2.000
Remarks: <none>

SAMPLES                TIC   TIC     TIC    TOC   TOC     TOC    TC    TC      TC
                     Area  Mass    Conc   Area  Mass    Conc  Area  Mass    Conc
Rep Datafile  Date  Time (cts) (ugC)   (ppm) (cts) (ugC)   (ppm) (cts) (ugC)   (ppm)
--- -------- --------- ----- ------- ------- ---------- ------- ------- ---------- ------- ------- ----------

 1 0726013  26Jul2010 11:11    -       -       -   34182  45.783  22.892    -       -       -

Pos/Vial:  2   Name: L4J6N        Analyzed:  26Jul2010 11:21
Run ID:    1   Meth: toc          Vol (mL):  2.000
Remarks: <none>

SAMPLES                TIC   TIC     TIC    TOC   TOC     TOC    TC    TC      TC
                     Area  Mass    Conc   Area  Mass    Conc  Area  Mass    Conc
Rep Datafile  Date  Time (cts) (ugC)   (ppm) (cts) (ugC)   (ppm) (cts) (ugC)   (ppm)
--- -------- --------- ----- ------- ------- ---------- ------- ------- ---------- ------- ------- ----------

 1 0726014  26Jul2010 11:21    -       -       -   31638  42.287  21.144    -       -       -

Pos/Vial:  3   Name: L4JQW        Analyzed:  26Jul2010 11:32
Run ID:    2   Meth: toc          Vol (mL):  2.000
Remarks: <none>

SAMPLES                TIC   TIC     TIC    TOC   TOC     TOC    TC    TC      TC
                     Area  Mass    Conc   Area  Mass    Conc  Area  Mass    Conc
Rep Datafile  Date  Time (cts) (ugC)   (ppm) (cts) (ugC)   (ppm) (cts) (ugC)   (ppm)
--- -------- --------- ----- ------- ------- ---------- ------- ------- ---------- ------- ------- ----------

 1 0726015  26Jul2010 11:32    -       -       -    1711   1.161   0.581    -       -       -
```

Pos/Vial: 4 Name: L4JQ3 Analyzed: 26Jul2010 11:42
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726016	26Jul2010	11:42	-	-	-	2235	1.881	0.941	-	-	-

Pos/Vial: 5 Name: L4J1P Analyzed: 26Jul2010 11:53
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726017	26Jul2010	11:53	-	-	-	2879	2.766	1.383	-	-	-

Pos/Vial: 6 Name: L4J14 Analyzed: 26Jul2010 12:03
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726018	26Jul2010	12:03	-	-	-	3123	3.102	1.551	-	-	-

Pos/Vial: 7 Name: L4J15 Analyzed: 26Jul2010 12:14
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726019	26Jul2010	12:14	-	-	-	2582	2.358	1.179	-	-	-

Pos/Vial: 8 Name: L4J16 Analyzed: 26Jul2010 12:24
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726020	26Jul2010	12:24	-	-	-	2939	2.849	1.424	-	-	-

Pos/Vial: 9 Name: L4J2C Analyzed: 26Jul2010 12:35
Run ID: 8 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726021	26Jul2010	12:35	-	-	-	1023	0.216	0.108	-	-	-

L4J2C

Pos/Vial: 10 Name: L4J2L Analyzed: 26Jul2010 12:45
Run ID: 9 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726022	26Jul2010	12:45	-	-	-	2977	2.901	1.451	-	-	-

Pos/Vial: 11 Name: CCV Analyzed: 26Jul2010 12:56
Run ID: 10 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726023	26Jul2010	12:56	-	-	-	36476	48.936	24.468	-	-	-

98%

Pos/Vial: 12 Name: CCB Analyzed: 26Jul2010 13:06
Run ID: 11 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726024	26Jul2010	13:06	-	-	-	1923	1.453	0.726	-	-	-

Pos/Vial: 13 Name: L4J2X Analyzed: 26Jul2010 13:17
Run ID: 12 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726025	26Jul2010	13:17	-	-	-	4685	5.248	2.624	-	-	-

Pos/Vial: 14 Name: L4J28 Analyzed: 26Jul2010 13:27
Run ID: 13 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726026	26Jul2010	13:27	-	-	-	2630	2.424	1.212	-	-	-

Pos/Vial: 15 Name: L4J3D Analyzed: 26Jul2010 13:38
Run ID: 14 Meth: toc Vol (mL): 2.000

Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726027	26Jul2010 13:38	-	-	-	2434	2.155	1.077	-	-	-

L4J3D

Pos/Vial: 16 Name: L4J7L Analyzed: 26Jul2010 13:48
Run ID: 15 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726028	26Jul2010 13:48	-	-	-	10393	13.092	6.546	-	-	-

Pos/Vial: 17 Name: L4J7R Analyzed: 26Jul2010 13:59
Run ID: 16 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726029	26Jul2010 13:59	-	-	-	12269	15.670	7.835	-	-	-

Pos/Vial: 18 Name: L4K7R Analyzed: 26Jul2010 14:09
Run ID: 17 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726030	26Jul2010 14:09	-	-	-	2933	2.841	1.420	-	-	-

Pos/Vial: 19 Name: L4K9A Analyzed: 26Jul2010 14:20
Run ID: 18 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726031	26Jul2010 14:20	-	-	-	2875	2.761	1.380	-	-	-

Pos/Vial: 20 Name: L4K9T Analyzed: 26Jul2010 14:30
Run ID: 19 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

L4K9T

1 0726032 26Jul2010 14:30 - - - 2802 2.660 1.330 - - -

Pos/Vial: 21 Name: L4K91 Analyzed: 26Jul2010 14:41
Run ID: 20 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726033	26Jul2010 14:41	-	-	-	2437	2.159	1.079	-	-	-

Pos/Vial: 22 Name: L4LAK Analyzed: 26Jul2010 14:51
Run ID: 21 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726034	26Jul2010 14:51	-	-	-	8073	9.904	4.952	-	-	-

Pos/Vial: 23 Name: CCV Analyzed: 26Jul2010 15:02
Run ID: 22 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726035	26Jul2010 15:02	-	-	-	35279	47.291	23.645	-	-	-

95 ?

Pos/Vial: 24 Name: CCB Analyzed: 26Jul2010 15:12
Run ID: 23 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726036	26Jul2010 15:12	-	-	-	684	0.000	0.000	-	-	-

Pos/Vial: 25 Name: L4LAQ Analyzed: 26Jul2010 15:23
Run ID: 24 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726037	26Jul2010 15:23	-	-	-	987	0.166	0.083	-	-	-

Pos/Vial: 26 Name: L4JDK Analyzed: 26Jul2010 15:33
Run ID: 25 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC

L4JDK

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726038	26Jul2010	15:33	-	-	-	5596	6.500	3.250	-	-	-

Pos/Vial: 27 Name: L4JD0 Analyzed: 26Jul2010 15:44
Run ID: 26 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726039	26Jul2010	15:44	-	-	-	5547	6.433	3.216	-	-	-

Pos/Vial: 28 Name: L4JEC Analyzed: 26Jul2010 15:55
Run ID: 27 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726040	26Jul2010	15:55	-	-	-	1695	1.139	0.570	-	-	-

Pos/Vial: 29 Name: L4JED Analyzed: 26Jul2010 16:05
Run ID: 28 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726041	26Jul2010	16:05	-	-	-	1771	1.244	0.622	-	-	-

Pos/Vial: 30 Name: L4JEG Analyzed: 26Jul2010 16:16
Run ID: 29 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726042	26Jul2010	16:16	-	-	-	2428	2.147	1.073	-	-	-

Pos/Vial: 31 Name: L4K1A Analyzed: 26Jul2010 16:26
Run ID: 30 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726043	26Jul2010	16:26	-	-	-	1795	1.277	0.638	-	-	-

Pos/Vial: 32 Name: L4K1R Analyzed: 26Jul2010 16:37

Run ID: 31 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726044	26Jul2010	16:37	-	-	-	9811	12.292	6.146	-	-	-

L4K1R

Pos/Vial: 33 Name: L4K2T Analyzed: 26Jul2010 16:47
Run ID: 32 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726045	26Jul2010	16:47	-	-	-	15960	20.742	10.371	-	-	-

Pos/Vial: 34 Name: L4K29 Analyzed: 26Jul2010 16:58
Run ID: 33 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726046	26Jul2010	16:58	-	-	-	1472	0.833	0.416	-	-	-

Pos/Vial: 35 Name: CCV Analyzed: 26Jul2010 17:08
Run ID: 34 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726047	26Jul2010	17:08	-	-	-	35100	47.045	23.522	-	-	-

94 %

Pos/Vial: 36 Name: CCB Analyzed: 26Jul2010 17:19
Run ID: 35 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726048	26Jul2010	17:19	-	-	-	570	0.000	0.000	-	-	-

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): T ALK

Batch(es): 0708123/6

Method #/SOP#: (2308, SM18) , 310.1

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓			✓		
2. Calibration curve consist of the minimum number of calibration standards?	✓			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓					✓
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?			✓			✓
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓			✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			✓
E. Titrant						
1. Titrant standardized?		✓	~~✓~~ KH 7-27-10	✓		
2. If no, standardization expires 8-8-10	✓					
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			✓
2. Calculations checked for error ?	✓					✓
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?	✓			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			✓
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓			✓		
10. All reagent and standard numbers recorded in logbook?	✓					
11. Edits dated and initialed	✓			✓		

Comment on any "NO" response(s):

Level I reviewer: KH 7-27-10 **Date:** 7-27-10

Level II Reviewer: QC **Date:** 7/28/10

N:\Inorganics\spreadsheets2\Use This Wet Chem_Level I.doc
Corporate Policy, QA-012
Revision date: 08/25/00

Test America

310.1 / 2320B

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
PH 7	07/26/2010	11:33 AM	0000.00	7.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
LCSP179506 TV111	07/26/2010	11:46 AM	0000.00	9.0568	56.7821	109.0658	0.0000	104.5673	4.4985	0.0000	.00	.00
BLANK	07/26/2010	11:54 AM	0000.00	6.5082	0.0000	2.5767	2.5767	0.0000	0.0000	0.0000	.00	.00
PH 7-1	07/26/2010	11:59 AM	0000.00	7.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00

Test America

Analyst_____
LCS _____
Date _____

02/8/2316

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L3X1R	07/26/2010	5:56 PM	0000.00	7.3577	0.0000	534.8419	534.8419	0.0000	0.0000	0.0000	.00	.00
L4G39	07/26/2010	6:12 PM	0000.00	7.5771	0.0000	325.1171	325.1171	0.0000	0.0000	0.0000	.00	.00
L4G39 MS	07/26/2010	6:34 PM	0000.00	9.5447	160.1707	726.5852	406.2438	320.3414	0.0000	0.0000	.00	.00
L4G39 MSD	07/26/2010	6:55 PM	0000.00	9.4531	132.8858	667.5159	401.7443	265.7716	0.0000	0.0000	.00	.00
L4G5E	07/26/2010	7:10 PM	0000.00	7.6502	0.0000	334.7365	334.7365	0.0000	0.0000	0.0000	.00	.00
L4G5P	07/26/2010	7:19 PM	0000.00	6.6687	0.0000	3.4214	3.4214	0.0000	0.0000	0.0000	.00	.00
L4G51	07/26/2010	7:34 PM	0000.00	7.6604	0.0000	321.7592	321.7592	0.0000	0.0000	0.0000	.00	.00
L4G54	07/26/2010	7:49 PM	0000.00	7.6809	0.0000	331.4543	331.4543	0.0000	0.0000	0.0000	.00	.00
L4G56	07/26/2010	8:04 PM	0000.00	7.6037	0.0000	372.4035	372.4035	0.0000	0.0000	0.0000	.00	.00
L4G6A	07/26/2010	8:20 PM	0000.00	7.5060	0.0000	350.4601	350.4601	0.0000	0.0000	0.0000	.00	.00
PH 7-2	07/26/2010	8:25 PM	0000.00	6.9897	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4G6F	07/26/2010	8:38 PM	0000.00	7.8617	0.0000	243.7584	243.7584	0.0000	0.0000	0.0000	.00	.00
L4G6J	07/26/2010	8:54 PM	0000.00	7.5507	0.0000	368.3342	368.3342	0.0000	0.0000	0.0000	.00	.00
L4J1P	07/26/2010	9:09 PM	0000.00	7.5791	0.0000	334.9040	334.9040	0.0000	0.0000	0.0000	.00	.00
L4J14	07/26/2010	9:25 PM	0000.00	7.6666	0.0000	355.5871	355.5871	0.0000	0.0000	0.0000	.00	.00
L4J15	07/26/2010	9:40 PM	0000.00	7.7317	0.0000	310.0465	310.0465	0.0000	0.0000	0.0000	.00	.00
L4J16	07/26/2010	9:55 PM	0000.00	7.6869	0.0000	360.0998	360.0998	0.0000	0.0000	0.0000	.00	.00
L1J2C	07/26/2010	10:03 PM	0000.00	6.2339	0.0000	2.4994	2.4994	0.0000	0.0000	0.0000	.00	.00
L4J2L	07/26/2010	10:19 PM	0000.00	7.7560	0.0000	355.5760	355.5760	0.0000	0.0000	0.0000	.00	.00
L4J2X	07/26/2010	10:35 PM	0000.00	7.6158	0.0000	392.0533	392.0533	0.0000	0.0000	0.0000	.00	.00

713

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4J28	07/26/2010	10:51 PM	0000.00	7.7661	0.0000	356.4755	356.4755	0.0000	0.0000	0.0000	.00	.00
PH7-3	07/26/2010	10:56 PM	0000.00	6.9897	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4J3D	07/26/2010	11:10 PM	0000.00	7.7438	0.0000	293.3922	293.3922	0.0000	0.0000	0.0000	.00	.00
L4K7R	07/26/2010	11:26 PM	0000.00	7.8800	0.0000	373.3984	373.3984	0.0000	0.0000	0.0000	.00	.00
LCSP179506TV-111	07/26/2010	11:38 PM	0000.00	9.0062	62.9042	119.8216	0.0000	113.8349	5.9867	0.0000	.00	.00
BLANK-2	07/26/2010	11:47 PM	0000.00	6.0917	0.0000	2.1537	2.1537	0.0000	0.0000	0.0000	.00	.00
L4JAN	07/27/2010	12:13 AM	0000.00	6.9250	0.0000	909.9750	909.9750	0.0000	0.0000	0.0000	.00	.00
L4JAP	07/27/2010	12:36 AM	0000.00	7.2520	0.0000	778.1158	778.1158	0.0000	0.0000	0.0000	.00	.00
L4JAR	07/27/2010	12:55 AM	0000.00	7.3454	0.0000	547.4612	547.4612	0.0000	0.0000	0.0000	.00	.00
L4JAV	07/27/2010	1:03 AM	0000.00	6.0591	0.0000	2.3328	2.3328	0.0000	0.0000	0.0000	.00	.00
L4JAX	07/27/2010	1:23 AM	0000.00	7.3007	0.0000	555.0707	555.0707	0.0000	0.0000	0.0000	.00	.00
L4JDK	07/27/2010	1:38 AM	0000.00	6.9756	0.0000	343.6076	343.6076	0.0000	0.0000	0.0000	.00	.00
PH7--4	07/27/2010	1:44 AM	0000.00	6.9959	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4JD0	07/27/2010	1:59 AM	0000.00	7.0304	0.0000	333.0890	333.0890	0.0000	0.0000	0.0000	.00	.00
L4JD3	07/27/2010	2:10 AM	0000.00	6.8497	0.0000	102.6593	102.6593	0.0000	0.0000	0.0000	.00	.00
L4JD3 MS	07/27/2010	2:28 AM	0000.00	9.5060	85.2224	520.3716	349.9269	170.4447	0.0000	0.0000	.00	.00
L4JD3 MSD	07/27/2010	2:46 AM	0000.00	9.5082	89.0679	516.8068	338.6709	178.1358	0.0000	0.0000	.00	.00
L4JEC	07/27/2010	2:57 AM	0000.00	6.7217	0.0000	34.8988	34.8988	0.0000	0.0000	0.0000	.00	.00
L4JED	07/27/2010	3:08 AM	0000.00	6.5895	0.0000	34.1714	34.1714	0.0000	0.0000	0.0000	.00	.00
L4JEG	07/27/2010	3:19 AM	0000.00	7.0974	0.0000	105.2257	105.2257	0.0000	0.0000	0.0000	.00	.00
L4JQH	07/27/2010	3:30 AM	0000.00	6.2218	0.0000	135.8845	135.8845	0.0000	0.0000	0.0000	.00	.00
L4KTD	07/27/2010	3:52 AM	0000.00	7.6583	0.0000	672.6683	672.6683	0.0000	0.0000	0.0000	.00	.00
L4KTP	07/27/2010	4:00 AM	0000.00	6.1324	0.0000	2.4249	2.4249	0.0000	0.0000	0.0000	.00	.00
PH 7-5	07/27/2010	4:05 AM	0000.00	6.9736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4KTR	07/27/2010	4:21 AM	0000.00	7.6157	0.0000	403.0836	403.0836	0.0000	0.0000	0.0000	.00	.00

North Canton

Analyst_____

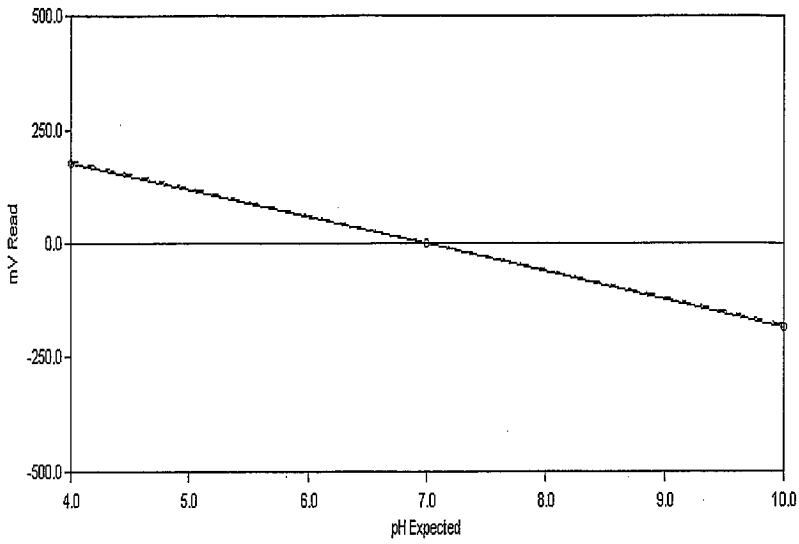
LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4KTT	07/27/2010	4:38 AM	0000.00	7.7091	0.0000	409.5188	409.5188	0.0000	0.0000	0.0000	.00	.00
L4KTV	07/27/2010	5:02 AM	0000.00	7.4308	0.0000	799.7661	799.7661	0.0000	0.0000	0.0000	.00	.00
L4KT0	07/27/2010	5:29 AM	0000.00	7.6707	0.0000	954.1469	954.1469	0.0000	0.0000	0.0000	.00	.00
L4K1A	07/27/2010	5:35 AM	0000.00	6.9939	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4K1R	07/27/2010	5:47 AM	0000.00	6.9208	0.0000	178.2752	178.2752	0.0000	0.0000	0.0000	.00	.00
PH 7-6-3	07/27/2010	5:52 AM	0000.00	6.9877	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
SOAK	07/27/2010	6:26 AM	0000.00	6.8557	0.0000	1317.4382	1317.4382	0.0000	0.0000	0.0000	.00	.00

Calibration Report

Calibration Record # 4266



Calibration Settings

Calibration ID	PH CAL 4-7-10 ALK	Date	07/26/2010
Channel	1	Time	11:28 AM
Probe Type	pH WCP 56	Temperature	298.56 K 25.41 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-60.057	CorrCoeff	1.0000
Intercept	-1.587	Equation: Y = (-60.057) X + (-1.587)	

Calibration Validity True Operator A

	Result	Minimum	Maximum
Slope	-60.057	-85.00	-45.00
Intercept	-1.587	-100.00	100.00
Correlation Coefficient	1.0000	1.00	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00 H46511	177.97
	7.00 J05518	-0.36
	10.00 J04532	-182.37

H_2SO_4 0.02N WR00667

LCS TV= 111
P179-506

MS/MSD TV = 500 mg/L.

CALRPRT.SRW

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	TestAmerica, North Canton				
	376.1 / 4500-S2-E Sulfide Logsheet				
Prep Date	07/28/10		Batch	0209262/3	
Anal Date	07/28/10				
			Lcs No.	SD0009	
Analyst	BW		Prep Date	07/28/10	
Titrant	Sodium		**WR00613**		
Name	Thiosulfate		Iodine	**WR00446**	
Normality	0.0254		Normality	0.0282	
Standardization	06/28/10		Date	07/28/10	
Intials	JB		Intials	BW	
Sample No.	Sample Vol	dil	Titrant Vol (ml)	Final Conc mg/L or mg/kg	Time
BLK	250	1	22.2	0.01	15:51
LCS	250	1	12.8	15.29	15:51
L4JDK	250	1	22.4	-0.32	15:51
L4JD0	250	1	22.5	-0.48	15:51
L4JD3	250	1	22.5	-0.48	15:51
L4JD3 MS	250	1	13.2	14.64	15:51
L4JD3 MSD	250	1	13.4	14.31	15:51
L4JEC	250	1	22.4	-0.32	15:51
L4JED	250	1	22.4	-0.32	15:51
L4JEG	250	1	23.0	-1.29	15:51
L4K1A	250	1	22.2	0.01	15:51
L4K1R	250	1	22.4	-0.32	15:51
L4K2T	250	1	22.2	0.01	15:51
L4K29	250	1	22.4	-0.32	15:51
BLK 2	250	1	22.2	0.01	15:51
LCS 2	250	1	12.8	15.29	15:51
L4K7R	250	1	20.6	2.61	15:51
L4K9A	250	1	22.2	0.01	15:51
L4K9T	250	1	22.2	0.01	15:51
L4K91	250	1	22	0.33	15:51
L4K99	250	1	21.8	0.66	15:51
L4K99 MS	250	1	13.7	13.83	15:51
L4K99 MSD	250	1	13.4	14.31	15:51
L4LAK	250	1	22	0.33	15:51
L4LAQ	250	1	22.2	0.01	15:51
	250	1		36.10	
BLK 1	250	1	22.2	0.01	15:47
BLK 2	250	1	22.2	0.01	15:47
BLK 3	250	1	22.3	-0.15	15:47
	250	1		36.10	
LCS 1	250	1	12.8	15.29	15:52
LCS 2	250	1	12.8	15.29	15:52

LCS 3	250	1	13	14.96	15:52

Starch **WR00719**

QC/Calc

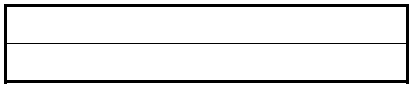
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TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0G220446	2		L4JDK1AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	2		L4JDK1AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	2		L4JDK1AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	2		L4JDK1AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	2		L4JDK1AA	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	2		L4JDK1AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G220446	3		L4JD01AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	3		L4JD01AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	3		L4JD01AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	3		L4JD01AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	3		L4JD01AA	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	3		L4JD01AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G220446	5		L4JD31AH	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	5		L4JD31AL	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5		L4JD31AP	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5		L4JD31AT	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5		L4JD31AA	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	5		L4JD31AE	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G220446	5	S	L4JD31AJ	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	5	S	L4JD31AM	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5	S	L4JD31AQ	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5	S	L4JD31AU	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5	S	L4JD31AC	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	5	S	L4JD31AF	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G220446	5	D	L4JD31AK	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	5	D	L4JD31AN	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5	D	L4JD31AR	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0G220446	5	D	L4JD31AV	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	5	D	L4JD31AD	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	5	D	L4JD31AG	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G220446	6		L4JEC1AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	6		L4JEC1AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	6		L4JEC1AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	6		L4JEC1AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	6		L4JEC1AA	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	6		L4JEC1AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G220446	7		L4JED1AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	7		L4JED1AA	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	7		L4JED1AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G220446	7		L4JED1AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	7		L4JED1AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	7		L4JED1AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	8		L4JEG1AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G220446	8		L4JEG1AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	8		L4JEG1AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	8		L4JEG1AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G220446	8		L4JEG1AA	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G220446	8		L4JEG1AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 104-0012-0200

CARROLL & DUBIES (C&D)

Lot #: A0G230443

Barbara Jones

Cardinal Resources
1505 E Carson Street
Suite #200
Pittsburgh, PA 15203

TESTAMERICA LABORATORIES, INC.

Approved for release.
Denise D. Heckler
Project Manager
8/13/2010 9:53 AM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

August 13, 2010

ACCREDITED IN ACCORDANCE WITH nelac

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0G230443

The following report contains the analytical results for three solid samples, eight water samples and one quality control sample submitted to TestAmerica North Canton by Cardinal Resources from the Carroll & Dubies (C&D) Site, project number 104-0012-0200. The samples were received July 23, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Barbara Jones, John Vogeding, and Steve Bodnar on August 06, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit with the exception of Total Residue as Percent Solids and Dissolved Gases in Water which were reported to the method detection limit and include appropriate qualifiers. Volatile Organics by GC/MS had some samples evaluated to the method detection limit and some samples evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.6°C.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The internal standard areas were outside acceptance limits for sample(s) SED 2, SED 2MSD and SED 2MS due to matrix effects. (Refer to IS report following this case narrative for additional detail.)

DISSOLVED GASES/RSK

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

□(s10H
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Report Date: 30-Jul-2010 08:47

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141517.D
Lab Smp Id: L4K241AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Client Smp ID: SED 2
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1128796	-27.83
2 Chlorobenzene-d5	1117515	558758	2235030	645056	-42.28
3 1,4-Dichlorobenze	636663	318332	1273326	243325	-61.78 <-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0G230443

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
FIELD BLANK 3 07/22/10 08:40 001				
Acetone	1.2 J	10	ug/L	SW846 8260B
OW25 07/22/10 09:10 002				
Acetone	1.2 J	10	ug/L	SW846 8260B
Chloride	1.5	1.0	mg/L	MCAWW 300.0A
Sulfate	9.2	1.0	mg/L	MCAWW 300.0A
Nitrate as N	1.8	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	46	5.0	mg/L	MCAWW 310.1
SW1 07/22/10 11:00 003				
Acetone	3.6 J	10	ug/L	SW846 8260B
OW19 07/22/10 11:15 004				
Ethane	0.56 J	1.0	ug/L	RSK SOP-175
Methane	1500	1.0	ug/L	RSK SOP-175
Vinyl chloride	0.63 J	2.0	ug/L	SW846 8260B
Chloroethane	0.85 J	2.0	ug/L	SW846 8260B
Acetone	1.3 J	10	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.65 J	1.0	ug/L	SW846 8260B
Benzene	1.2	1.0	ug/L	SW846 8260B
Chlorobenzene	11	1.0	ug/L	SW846 8260B
Chloride	5.8	1.0	mg/L	MCAWW 300.0A
Sulfate	15.9	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	6	1	mg/L	MCAWW 415.1
Total Alkalinity	180	5.0	mg/L	MCAWW 310.1
SED 1 07/22/10 11:20 005				
Acetone	45	29	ug/kg	SW846 8260B
Methylene chloride	7.9	7.3	ug/kg	SW846 8260B
Percent Solids	67.6	10.0	%	MCAWW 160.3 MOD
SW DUP 07/22/10 006				
Acetone	3.6 J	10	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0G230443

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SED DUP 07/22/10 007				
Acetone	85	62	ug/kg	SW846 8260B
Percent Solids	34.3	10.0	%	MCAWW 160.3 MOD
OW18 07/22/10 13:00 008				
Methane	910	1.0	ug/L	RSK SOP-175
Chloroethane	0.41 J	2.0	ug/L	SW846 8260B
Acetone	1.6 J	10	ug/L	SW846 8260B
1,2-Dichloropropane	0.30 J	1.0	ug/L	SW846 8260B
Benzene	2.8	1.0	ug/L	SW846 8260B
Chlorobenzene	11	1.0	ug/L	SW846 8260B
Xylenes (total)	0.63 J	1.0	ug/L	SW846 8260B
Chloride	7.9	1.0	mg/L	MCAWW 300.0A
Sulfate	3.5	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	10	1	mg/L	MCAWW 415.1
Total Alkalinity	320	5.0	mg/L	MCAWW 310.1
SED 2 07/22/10 14:30 010				
Acetone	89	65	ug/kg	SW846 8260B
Methylene chloride	18	16	ug/kg	SW846 8260B
Percent Solids	45.2	10.0	%	MCAWW 160.3 MOD
OW24 07/22/10 14:20 011				
Chloromethane	0.47 J	2.0	ug/L	SW846 8260B
Chloride	1.8	1.0	mg/L	MCAWW 300.0A
Sulfate	12.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.21	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	110	5.0	mg/L	MCAWW 310.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0G230443

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0A
Dissolved Gases in Water	RSK SOP-175
Nitrate as N	MCAWW 300.0A
Sulfate	MCAWW 300.0A
Sulfide	MCAWW 376.1
Total Organic Carbon	MCAWW 415.1
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE SUMMARY

SAMPLE SUMMARY

A0G230443

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4KX7	001	FIELD BLANK 3	07/22/10	08:40
L4K1A	002	OW25	07/22/10	09:10
L4K1N	003	SW1	07/22/10	11:00
L4K1R	004	OW19	07/22/10	11:15
L4K1V	005	SED 1	07/22/10	11:20
L4K2Q	006	SW DUP	07/22/10	
L4K2R	007	SED DUP	07/22/10	
L4K2T	008	OW18	07/22/10	13:00
L4K22	009	SW2	07/22/10	14:00
L4K24	010	SED 2	07/22/10	14:30
L4K29	011	OW24	07/22/10	14:20
L4K3C	012	TRIP BLANK	07/22/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

Chain of Custody Record

TestAmerica 16
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Cardinal Resources, LLC	Client Project Manager: Barb. Jones	Site Contact: John Vogeding	Lab Contact: Nathan Pietrys
Address: 1505 E. Carson St.	Telephone:	Telephone: 412 374-0980p	Telephone:
City/State/Zip: Pittsburgh, PA 15203	Email: BJones@Cardinalres.com	Analysis Turnaround Time (in BUS days)	
Phone: 412 374 0989		TAT if different from below _____	
Project Name: Carroll + Dubies (C+D)	Method of Shipment/Carrier: Fed Ex	☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Number: 104-0012-0200	Shipping/Tracking No:		
PO #			

COC No: 1 of 2 COCs

For lab use only
Walk-in client: ☐
Lab pickup: ☐
Lab sampling: ☐
Job/SDG No.:

Analyses

Sample Identification	2010 Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) or Grab (G)	TCL VOC	Methane/Ethane/Ethene	SM 5310C TOC	Sulfide, Total	Alkalinity	RSK-175 (CH4,E,E)	NITOC			Sample Specific Notes / Special Instructions:
Field Blank 3	7-22	0840		X						X					N	G	X									
OW25		0910		X				X		X		X	X		N	G	X	X	X	X	X	X	X	X		
SW1		1100		X						X					N	G	X									
OW19		1115		X				X		X		X	X		N	G	X	X	X	X	X	X	X	X		
Sed 1		1120			X								X		N	G	X									
SW Dup		—		X						X					N	G	X									
Sed Dup		—			X								X		N	G	X									
OW18		1300		X				X		X		X	X		N	G	X	X	X	X	X	X	X	X		
SW2		1400		X						X					N	G	X									
SW2 MS		1410		X						X					N	G	X									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: John Vogeding	Company: Cardinal Resources	Date/Time: 7-22-10 1615	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Clara Mangum	Company: TAL NC	Date/Time: 7/23/10 905

TAL-0018 (1008)

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North Canton

Chain of Custody Record

TestAmerica 17
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Cardinal Resources, LLC	Client Project Manager: Brad Jones	Site Contact: John Vogeding	Lab Contact: Nathan Pietras
Address: See Page 1	Telephone:	Telephone: 412 374 0989	Telephone:
City/State/Zip:	Email: See Page 1	Analysis Turnaround Time (in BUSINESS days)	COC No: 2 of 2 COCs
Phone:		TAT if different from below _____	For lab use only
Project Name: CYD	Method of Shipment/Carrier: FedEx	☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐
Project Number: 104-0012-200	Shipping/Tracking No:		Job/SDG No:
PO #			

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite = C, Grab = G	Analyses: TLC VOCs	Methane/Ethane/Ethene	Sulfide	Sulfide	Alkalinity	Chloride	Nitrate	Sulfate	Sample Specific Notes / Special Instructions:
SW2 MSD	7-22	1420		X						X					N	X	X								
Sed 2	↓	1430			X								X		N	X	X								
Sed 2 MS		1440			X								X		N	X	X								
Sed 2 MSD		1450			X								X		N	X	X								
OW 24		1420		X				X		X		X	X		N	X	X	X	X	X	X	X	X	X	
Trip Blank	Lab Prepared			X						X					N	X	X								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Vogeding	Cardinal Resources	7-22-10 1615			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Adam Mangen	Company: TAL NC	Date/Time: 7/23/10 908

TAL-0018 (1008)

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North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A0G230443

North Canton Facility

Client Cardinal Resources Project _____ By: Diana Mangu
(Signature)

Cooler Received on 7/23/10 Opened on 7/23/10

FedEx [X] UPS [ ] DHL [ ] FAS [ ] Stetson [ ] Client Drop Off [ ] TestAmerica Courier [ ] Other _____

TestAmerica Cooler # C270 Multiple Coolers [ ] Foam Box [ ] Client Cooler [ ] Other _____

1. Were custody seals on the outside of the cooler(s)? Yes [ ] No [X] Intact? Yes [ ] No [ ] NA [X]
   If YES, Quantity_____ Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes [ ] No [ ] NA [X]
   Were custody seals on the bottle(s)? Yes [ ] No [X]
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes [X] No [ ]
3. Did custody papers accompany the sample(s)? Yes [X] No [ ] Relinquished by client? Yes [X] No [ ]
4. Were the custody papers signed in the appropriate place? Yes [X] No [ ]
5. Packing material used: Bubble Wrap [ ] Foam [ ] None [ ] Other _____
6. Cooler temperature upon receipt 5.6 °C See back of form for multiple coolers/temps [ ]
   METHOD: IR [X] Other [ ] _____
   COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]
7. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
8. Could all bottle labels be reconciled with the COC? Yes [X] No [ ]
9. Were sample(s) at the correct pH upon receipt? Yes [X] No [ ] NA [ ]
10. Were correct bottle(s) used for the test(s) indicated? Yes [X] No [ ]
11. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [X] NA [ ]
12. Sufficient quantity received to perform indicated analyses? Yes [X] No [ ]
13. Was a trip blank present in the cooler(s)? Yes [X] No [ ] Were VOAs on the COC? Yes [X] No [ ]

Contacted PM _____ Date _____ by _____ via Verbal [ ] Voice Mail [ ] Other [ ]

Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

_____

_____

_____

_____

_____

_____

15. SAMPLE CONDITION

Sample(s)_____ were received after the recommended holding time had expired.

Sample(s)_____ were received in a broken container.

Sample(s)_____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 051010-HNO_3; *Sulfuric Acid Lot#* 121709-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
25	>9	7/23/10	
19	>9	"	"
18	>9	"	"
24	>9	"	"

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS VOLATILE DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G230443

Extraction: XXAM8QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	SED 1	80	82	105	128	00
02	SED DUP	81	87	97	100	00
03	SED 2	89	92	111	122	00
04	SED 2 D	89	82	114	138	00
05	SED 2 S	90	80	115	117	00

SURROGATES		QC LIMITS
SRG01	= Dibromofluoromethane	(59-138)
SRG02	= 1,2-Dichloroethane-d4	(61-130)
SRG03	= Toluene-d8	(60-143)
SRG04	= 4-Bromofluorobenzene	(47-158)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G230443

Extraction: XXA15QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	METHOD BLK. L4WK61AA	85	84	93	99	00
02	LCS L4WK61AC	88	83	96	101	00
03	LCSD L4WK61AD	89	84	99	101	00

SURROGATES		QC LIMITS
SRG01	= Dibromofluoromethane	(59-138)
SRG02	= 1,2-Dichloroethane-d4	(61-130)
SRG03	= Toluene-d8	(60-143)
SRG04	= 4-Bromofluorobenzene	(47-158)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G230443

Extraction: XXI25QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	92	92	86	87	00
02	FIELD BLANK 3	85	83	85	84	00
03	OW25	92	94	87	88	00
04	SW1	87	81	87	85	00
05	OW19	88	83	87	87	00
06	SW DUP	86	84	88	87	00
07	OW18	87	85	87	90	00
08	SW2	87	85	86	86	00
09	OW24	85	85	88	87	00
10	TRIP BLANK	86	84	86	87	00
11	METHOD BLK. L40X21AA	83	81	86	85	00
12	METHOD BLK. L416P1AA	87	86	86	86	00
13	LCS L40X21AC	87	89	88	94	00
14	LCS L416P1AC	86	92	86	92	00
15	LAB MS/MSD D	94	94	88	97	00
16	SW2 D	85	88	88	93	00
17	LCSD L40X21AD	87	85	87	92	00
18	LCSD L416P1AD	89	93	87	95	00
19	LAB MS/MSD S	92	94	87	93	00
20	SW2 S	86	89	89	96	00

SURROGATES		QC LIMITS
SRG01	= Dibromofluoromethane	(73-122)
SRG02	= 1,2-Dichloroethane-d4	(61-128)
SRG03	= Toluene-d8	(76-110)
SRG04	= 4-Bromofluorobenzene	(74-116)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G300000 WO #: L4WK61AC
BATCH: 0211125

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	55	110	55 - 142	
Trichloroethene	50	50	99	70 - 131	
Benzene	50	54	108	75 - 129	
Toluene	50	51	102	71 - 130	
Chlorobenzene	50	51	102	75 - 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G300000 WO #: L4WK61AD
BATCH: 0211125

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50	55	109	55- 142	
Trichloroethene	50	49	98	70- 131	
Benzene	50	54	108	75- 129	
Toluene	50	52	104	71- 130	
Chlorobenzene	50	51	102	75- 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H020000 WO #: L40X21AC
BATCH: 0214227

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	11	105	63 - 130	
Trichloroethene	10	10	103	75 - 122	
Benzene	10	9.8	98	80 - 116	
Toluene	10	10	100	74 - 119	
Chlorobenzene	10	9.8	98	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H020000 WO #: L40X21AD
BATCH: 0214227

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	10	100	63 - 130	
Trichloroethene	10	9.5	95	75 - 122	
Benzene	10	9.3	93	80 - 116	
Toluene	10	9.6	96	74 - 119	
Chlorobenzene	10	9.3	93	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H030000 WO #: L416P1AC
BATCH: 0215229

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	8.7	87	63 - 130	
Trichloroethene	10	10	101	75 - 122	
Benzene	10	9.7	97	80 - 116	
Toluene	10	9.4	94	74 - 119	
Chlorobenzene	10	9.4	94	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0H030000 WO #: L416P1AD
BATCH: 0215229

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	8.7	87	63 - 130	
Trichloroethene	10	10	102	75 - 122	
Benzene	10	9.6	96	80 - 116	
Toluene	10	9.4	94	74 - 119	
Chlorobenzene	10	9.5	95	76 - 117	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: SED 2

Lot #: A0G230443 WO #: L4K241AF
BATCH: 0211125

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	150	ND	170	114	43- 147	
Trichloroethene	150	ND	140	92	46- 143	
Benzene	150	ND	160	106	55- 138	
Toluene	150	ND	170	112	46- 147	
Chlorobenzene	150	ND	130	89	49- 139	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: SED 2

Lot #: A0G230443 WO #: L4K241AG
BATCH: 0211125

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	150	160	108	4.6	27	43 - 147	
Trichloroethene	150	140	91	0.47	23	46 - 143	
Benzene	150	160	105	0.090	20	55 - 138	
Toluene	150	180	115	4.0	24	46 - 147	
Chlorobenzene	150	140	94	6.2	22	49 - 139	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: SW2

Lot #: A0G230443 WO #: L4K221AC
BATCH: 0214227

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	10	ND	10	100	62- 130	
Trichloroethene	10	ND	9.6	96	62- 130	
Benzene	10	ND	9.3	93	78- 118	
Toluene	10	ND	9.7	97	70- 119	
Chlorobenzene	10	ND	9.4	94	76- 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: SW2

Lot #: A0G230443 WO #: L4K221AD
BATCH: 0214227

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	9.9	99	0.58	20	62 - 130	
Trichloroethene	10	9.7	97	1.6	20	62 - 130	
Benzene	10	9.3	93	0.30	20	78 - 118	
Toluene	10	9.4	94	2.6	20	70 - 119	
Chlorobenzene	10	9.2	92	1.5	20	76 - 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G230409 WO #: L4KL11AU
BATCH: 0215229

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	10	ND	9.4	94	62 - 130	
Trichloroethene	10	ND	9.7	97	62 - 130	
Benzene	10	ND	9.4	94	78 - 118	
Toluene	10	ND	8.7	87	70 - 119	
Chlorobenzene	10	ND	8.6	86	76 - 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G230409 WO #: L4KL11AV
BATCH: 0215229

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	10	9.4	94	0.030	20	62 - 130	
Trichloroethene	10	9.6	96	0.46	20	62 - 130	
Benzene	10	9.3	93	0.57	20	78 - 118	
Toluene	10	8.9	89	3.2	20	70 - 119	
Chlorobenzene	10	8.9	89	2.7	20	76 - 117	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L40X21AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: UXJ1166.D

Lot Number: A0G230443

Date Analyzed: 08/01/10

Time Analyzed: 15:41

Matrix: WATER

Date Extracted:08/01/10

GC Column: DB 624 ID: .18

Extraction Method: 5030B

Instrument ID: UX11

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	FIELD BLANK 3	L4KX71AA	UXJ1167.D	08/01/10	16:04
02	SW1	L4K1N1AA	UXJ1168.D	08/01/10	16:26
03	OW19	L4K1R1AJ	UXJ1169.D	08/01/10	16:49
04	SW DUP	L4K2Q1AA	UXJ1170.D	08/01/10	17:12
05	OW18	L4K2T1AJ	UXJ1171.D	08/01/10	17:34
06	SW2	L4K221AA	UXJ1172.D	08/01/10	17:57
07	SW2	L4K221AC S	UXJ1173.D	08/01/10	18:20
08	SW2	L4K221AD D	UXJ1174.D	08/01/10	18:43
09	OW24	L4K291AJ	UXJ1175.D	08/01/10	19:05
10	TRIP BLANK	L4K3C1AA	UXJ1176.D	08/01/10	19:28
11	CHECK SAMPLE	L40X21AC C	UXJ1164.D	08/01/10	14:55
12	DUPLICATE CHECK	L40X21AD L	UXJ1165.D	08/01/10	15:18
13					
14					
15					
16					
17					
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22					
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24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L416P1AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: UXJ1222.D

Lot Number: A0G230443

Date Analyzed: 08/02/10

Time Analyzed: 23:49

Matrix: WATER

Date Extracted: 08/02/10

GC Column: DB 624 ID: .18

Extraction Method: 5030B

Instrument ID: UX11

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	L4KL11AT	UXJ1238.D	08/03/10	05:50
02	LAB MS/MSD	L4KL11AU S	UXJ1239.D	08/03/10	06:13
03	LAB MS/MSD	L4KL11AV D	UXJ1240.D	08/03/10	06:36
04	OW25	L4K1A1AJ	UXJ1244.D	08/03/10	08:07
05	CHECK SAMPLE	L416P1AC C	UXJ1220.D	08/02/10	23:03
06	DUPLICATE CHECK	L416P1AD L	UXJ1221.D	08/02/10	23:26
07					
08					
09					
10					
11					
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28					
29					
30					

COMMENTS:

FORM IV

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L4WK61AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: 141506.D

Lot Number: A0G230443

Date Analyzed: 07/29/10

Time Analyzed: 12:21

Matrix: SOLID

Date Extracted:07/29/10

GC Column: DB624 ID: .18

Extraction Method: 5035A

Instrument ID: UX14

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SED 1	L4K1V1AA	141515.D	07/29/10	15:34
02	SED DUP	L4K2R1AA	141528.D	07/29/10	20:12
03	SED 2	L4K241AA	141517.D	07/29/10	16:17
04	SED 2	L4K241AF S	141518.D	07/29/10	16:38
05	SED 2	L4K241AG D	141519.D	07/29/10	17:00
06	CHECK SAMPLE	L4WK61AC C	141504.D	07/29/10	11:38
07	DUPLICATE CHECK	L4WK61AD L	141505.D	07/29/10	11:59
08					
09					
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COMMENTS:

FORM IV

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID: BFB432 BFB Injection Date: 07/30/10

Instrument ID: A3UX11 BFB Injection Time: 1402

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.7
75	30.0 - 60.0% of mass 95	59.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 100.0% of mass 95	64.7
175	5.0 - 9.0% of mass 174	4.8 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	61.9 (95.7)1
177	5.0 - 9.0% of mass 176	3.6 (5.9)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD040	200NG-IC	UXJ1126	07/30/10	1519
02	VSTD020	100NG-IC	UXJ1127	07/30/10	1541
03	VSTD010	50NG-IC	UXJ1128	07/30/10	1604
04	VSTD005	25NG-IC	UXJ1129	07/30/10	1627
05	VSTD002	10NG-IC	UXJ1130	07/30/10	1650
06	VSTD001	5NG-IC	UXJ1131	07/30/10	1712
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID: BFB434 BFB Injection Date: 08/01/10

Instrument ID: A3UX11 BFB Injection Time: 1343

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 100.0% of mass 95	69.0
175	5.0 - 9.0% of mass 174	5.0 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.4 (99.0)1
177	5.0 - 9.0% of mass 176	4.4 (6.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UXJ1162	08/01/10	1410
02	L40X2CHK	L40X21AC	UXJ1164	08/01/10	1455
03	L40X2CKDUP	L40X21AD	UXJ1165	08/01/10	1518
04	L40X2BLK	L40X21AA	UXJ1166	08/01/10	1541
05	FIELD BLANK	L4KX71AA	UXJ1167	08/01/10	1604
06	SW1	L4K1N1AA	UXJ1168	08/01/10	1626
07	OW19	L4K1R1AJ	UXJ1169	08/01/10	1649
08	SW DUP	L4K2Q1AA	UXJ1170	08/01/10	1712
09	OW18	L4K2T1AJ	UXJ1171	08/01/10	1734
10	SW2	L4K221AA	UXJ1172	08/01/10	1757
11	SW2	L4K221AC	UXJ1173	08/01/10	1820
12	SW2	L4K221AD	UXJ1174	08/01/10	1843
13	OW24	L4K291AJ	UXJ1175	08/01/10	1905
14	TRIP BLANK	L4K3C1AA	UXJ1176	08/01/10	1928
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID: BFB436 BFB Injection Date: 08/02/10

Instrument ID: A3UX11 BFB Injection Time: 2156

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	50.0 - 100.0% of mass 95	64.5
175	5.0 - 9.0% of mass 174	5.2 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	61.5 (95.3)1
177	5.0 - 9.0% of mass 176	4.2 (6.8)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	50NG-CC	UXJ1218	08/02/10	2218
02	L416PCHK	L416P1AC	UXJ1220	08/02/10	2303
03	L416PCKDUP	L416P1AD	UXJ1221	08/02/10	2326
04	L416PBLK	L416P1AA	UXJ1222	08/02/10	2349
05	OW25	L4K1A1AJ	UXJ1244	08/03/10	0807
06					
07					
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22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID: BFB14484 BFB Injection Date: 07/19/10

Instrument ID: A3UX14 BFB Injection Time: 1557

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	30.1
75	30.0 - 60.0% of mass 95	44.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	92.6
175	5.0 - 9.0% of mass 174	6.8 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	89.3 (96.5)1
177	5.0 - 9.0% of mass 176	5.8 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	1000NG-IC	141240	07/19/10	1642
02	VSTD100	500NG-IC	141241	07/19/10	1703
03	VSTD050	250NG-IC	141242	07/19/10	1725
04	VSTD020	100NG-IC	141243	07/19/10	1746
05	VSTD010	50NG-IC	141244	07/19/10	1807
06	VSTD005	25NG-IC	141245	07/19/10	1829
07	VSTD002	10NG-IC	141246	07/19/10	1850
08	VSTD001	5NG-IC	141247	07/19/10	1912
09	VSTD200	1000NG-IC	141248	07/19/10	1933
10	VSTD100	500NG-IC	141249	07/19/10	1954
11	VSTD050	250NG-IC	141250	07/19/10	2016
12	VSTD020	100NG-IC	141251	07/19/10	2037
13	VSTD010	50NG-IC	141252	07/19/10	2059
14	VSTD005	25NG-IC	141253	07/19/10	2120
15	VSTD002	10NG-IC	141254	07/19/10	2142
16	VSTD001	5NG-IC	141255	07/19/10	2203
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID: BFB14505 BFB Injection Date: 07/29/10

Instrument ID: A3UX14 BFB Injection Time: 1011

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.3
75	30.0 - 60.0% of mass 95	41.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	96.2
175	5.0 - 9.0% of mass 174	6.9 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	92.2 (95.8)1
177	5.0 - 9.0% of mass 176	6.0 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	250NG-CC	141502	07/29/10	1055
02	L4WK6CHK	L4WK61AC	141504	07/29/10	1138
03	L4WK6CKDUP	L4WK61AD	141505	07/29/10	1159
04	L4WK6BLK	L4WK61AA	141506	07/29/10	1221
05	SED 1	L4K1V1AA	141515	07/29/10	1534
06	SED 2	L4K241AA	141517	07/29/10	1617
07	SED 2	L4K241AF	141518	07/29/10	1638
08	SED 2	L4K241AG	141519	07/29/10	1700
09	SED DUP	L4K2R1AA	141528	07/29/10	2012
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID (Standard): UXJ1162 Date Analyzed: 08/01/10

Instrument ID: A3UX11 Time Analyzed: 1410

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1630492	5.35	1193156	8.04	593165	10.29
	UPPER LIMIT	3260984	5.85	2386312	8.54	1186330	10.79
	LOWER LIMIT	815246	4.85	596578	7.54	296583	9.79
	EPA SAMPLE NO.						
01	L40X2CHK	1607368	5.35	1149624	8.04	568518	10.29
02	L40X2CKDUP	1661967	5.35	1173652	8.04	584800	10.29
03	L40X2BLK	1641026	5.35	1142745	8.04	499952	10.29
04	FIELD BLANK	1556591	5.35	1120720	8.04	485169	10.29
05	SW1	1543326	5.35	1084491	8.04	480694	10.29
06	OW19	1509697	5.35	1065074	8.04	470187	10.29
07	SW DUP	1482856	5.35	1029965	8.04	444232	10.29
08	OW18	1465638	5.35	1032734	8.04	469501	10.29
09	SW2	1453660	5.35	1020355	8.04	451900	10.29
10	SW2	1476261	5.35	1041752	8.04	521051	10.29
11	SW2	1499592	5.35	1074080	8.04	526238	10.29
12	OW24	1487592	5.35	1042627	8.04	463815	10.29
13	TRIP BLANK	1442450	5.35	1020825	8.04	445554	10.29
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID (Standard): UXJ1218 Date Analyzed: 08/02/10

Instrument ID: A3UX11 Time Analyzed: 2218

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1338892	5.35	992965	8.04	498138	10.29
	UPPER LIMIT	2677784	5.85	1985930	8.54	996276	10.79
	LOWER LIMIT	669446	4.85	496483	7.54	249069	9.79
	EPA SAMPLE NO.						
01	L416PCHK	1355177	5.35	1001286	8.04	501056	10.29
02	L416PCKDUP	1384480	5.35	1022471	8.04	518638	10.29
03	L416PBLK	1402125	5.35	990140	8.04	443808	10.29
04	OW25	1207710	5.35	872829	8.04	396012	10.29
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

Lab File ID (Standard): 141502 Date Analyzed: 07/29/10

Instrument ID: A3UX14 Time Analyzed: 1055

Matrix: (soil/water) SOIL Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 AREA #	RT	IS2 (CBZ) AREA #	RT	IS3 (DCB) AREA #	RT
	12 HOUR STD	1564159	6.59	1117515	9.32	636663	11.29
	UPPER LIMIT	3128318	7.09	2235030	9.82	1273326	11.79
	LOWER LIMIT	782080	6.09	558758	8.82	318332	10.79
	EPA SAMPLE NO.						
01	L4WK6CHK	1559093	6.59	1122666	9.32	639298	11.29
02	L4WK6CKDUP	1580024	6.59	1115260	9.32	638524	11.29
03	L4WK6BLK	1480421	6.59	1062102	9.32	618299	11.29
04	SED 1	1397287	6.59	919085	9.32	360233	11.29
05	SED 2	1128796	6.59	645056	9.32	243325*	11.29
06	SED 2	1315344	6.59	761606	9.32	314544*	11.29
07	SED 2	1380319	6.59	836788	9.32	285781*	11.29
08	SED DUP	1528781	6.59	1074816	9.32	617046	11.29
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Cardinal Resources

Client Sample ID: FIELD BLANK 3

GC/MS Volatiles

Lot-Sample #...: A0G230443-001 **Work Order #...:** L4KX71AA **Matrix.....:** WQ
Date Sampled...: 07/22/10 08:40 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.2 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	83	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: FIELD BLANK 3

GC/MS Volatiles

Lot-Sample #...: A0G230443-001 **Work Order #...:** L4KX71AA **Matrix.....:** WQ

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D
Report Date: 02-Aug-2010 12:26

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D
Lab Smp Id: L4KX71AA Client Smp ID: FIELD BLANK 3
Inj Date : 01-AUG-2010 16:04
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4KX71AA,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.354	5.354	(1.000)	1556591	50.0000	
* 2	Chlorobenzene-d5	117	8.040	8.040	(1.000)	1120720	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	485169	50.0000	
$ 4	Dibromofluoromethane	113	4.774	4.774	(0.892)	436194	42.6207	8.524
$ 5	1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	760661	41.6295	8.326
$ 6	Toluene-d8	98	6.726	6.727	(0.837)	1924516	42.5959	8.519
$ 7	Bromofluorobenzene	95	9.152	9.152	(1.138)	691598	42.2074	8.441
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	2.952	2.952	(0.551)	61914	6.07270	1.214
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D
Report Date: 02-Aug-2010 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D
Report Date: 02-Aug-2010 12:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	4.431	4.431	(0.828)	20393	2.01440	0.4029
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
103	Cyclohexanone	55	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	Compound Not Detected.					
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D
Report Date: 02-Aug-2010 12:26

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1167.D
Lab Smp Id: L4KX71AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

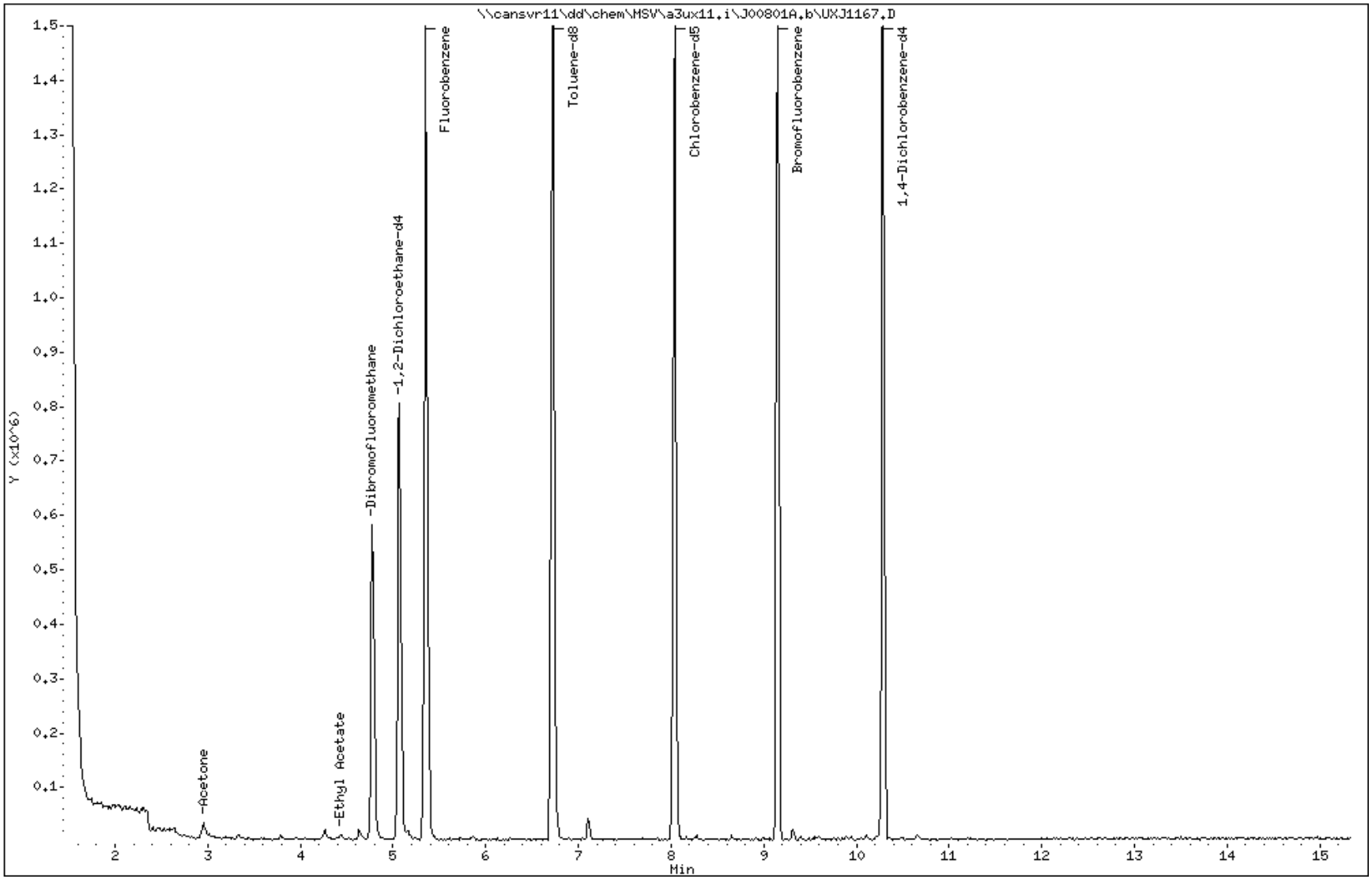
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: FIELD BLANK 3
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1556591	-4.53
2 Chlorobenzene-d5	1193156	596578	2386312	1120720	-6.07
3 1,4-Dichlorobenze	593165	296583	1186330	485169	-18.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D
Date : 01-AUG-2010 16:04
Client ID: FIELD BLANK 3
Instrument: a3ux11.i
Sample Info: L4KX71AA,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D

Date : 01-AUG-2010 16:04

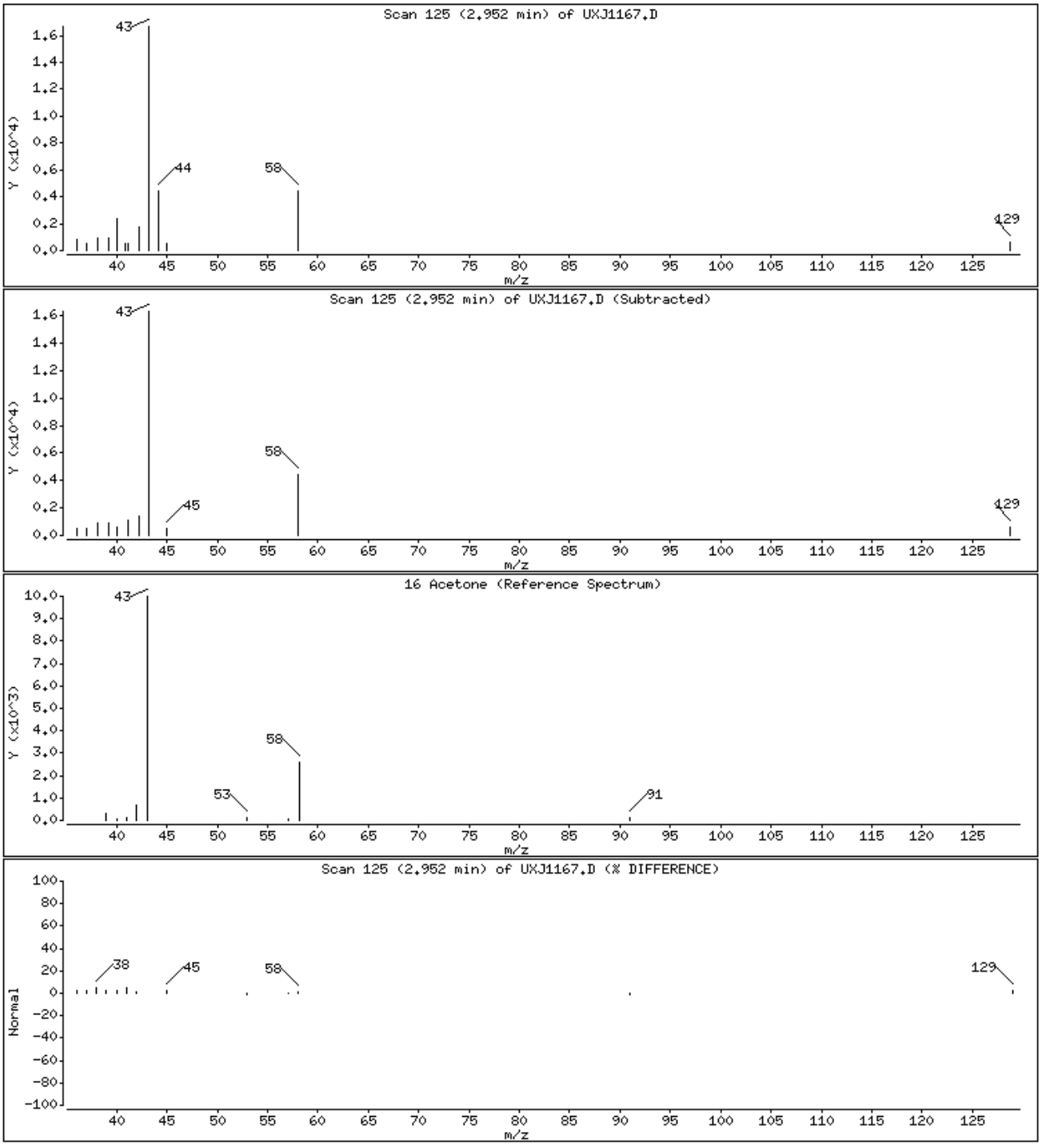
Client ID: FIELD BLANK 3 Instrument: a3ux11.i

Sample Info: L4KX71AA,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 1.214 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1167.D

Date : 01-AUG-2010 16:04

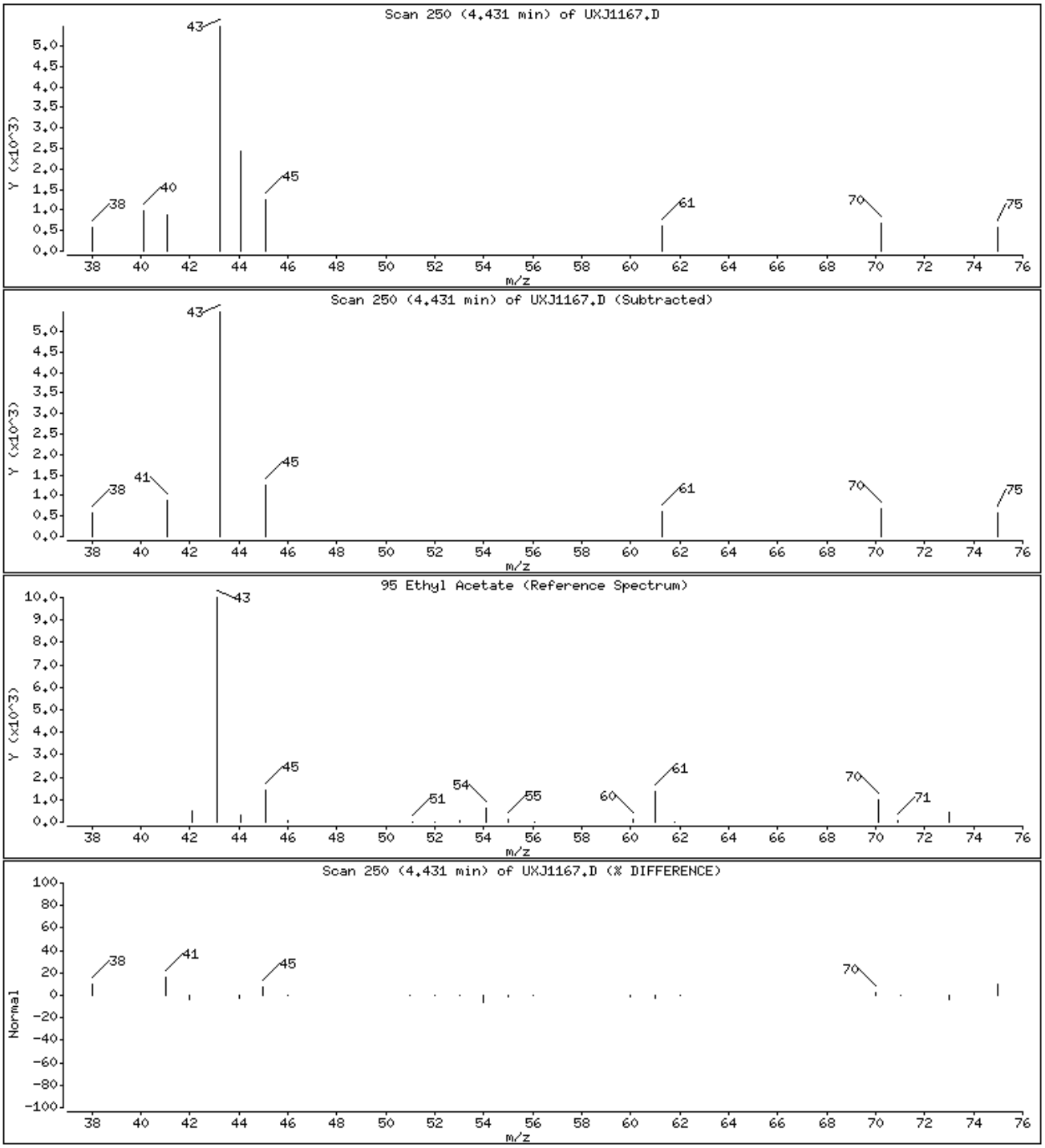
Client ID: FIELD BLANK 3 Instrument: a3ux11.i

Sample Info: L4KX71AA,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

95 Ethyl Acetate Concentration: 0.4029 ug/L



Cardinal Resources

Client Sample ID: OW25

GC/MS Volatiles

Lot-Sample #...: A0G230443-002 **Work Order #...:** L4K1A1AJ **Matrix.....:** WG
Date Sampled...: 07/22/10 09:10 **Date Received..:** 07/23/10
Prep Date.....: 08/03/10 **Analysis Date..:** 08/03/10
Prep Batch #...: 0215229
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.2 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW25

GC/MS Volatiles

Lot-Sample #...: A0G230443-002 **Work Order #...:** L4K1A1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D
Report Date: 03-Aug-2010 13:39

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D
Lab Smp Id: L4K1A1AJ Client Smp ID: OW25
Inj Date : 03-AUG-2010 08:07
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K1A1AJ,5ML/5ML
Misc Info : J00802B,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Meth Date : 03-Aug-2010 08:40 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 58
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.354	5.354	(1.000)	1207710	50.0000	
* 2	Chlorobenzene-d5	117	8.040	8.040	(1.000)	872829	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	396012	50.0000	
$ 4	Dibromofluoromethane	113	4.774	4.774	(0.892)	364689	45.9278	9.186
$ 5	1,2-Dichloroethane-d4	65	5.070	5.070	(0.947)	665079	46.9132	9.383
$ 6	Toluene-d8	98	6.727	6.726	(0.837)	1538144	43.7131	8.743
$ 7	Bromofluorobenzene	95	9.152	9.152	(1.138)	560208	43.8987	8.780
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	1.804	1.804	(0.337)	22139	1.45229	0.2904
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	2.964	2.952	(0.554)	47320	5.88159	1.176
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					
22	Acetonitrile	41	Compound Not Detected.					

23	Acrylonitrile	53	Compound Not Detected.
24	Methyl tert-butyl ether	73	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D
Report Date: 03-Aug-2010 13:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					
	76 tert-Butylbenzene	119	Compound Not Detected.					

77	1,2,4-Trimethylbenzene	105	Compound Not Detected.
78	sec-Butylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D
Report Date: 03-Aug-2010 13:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	Compound Not Detected.					
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	Compound Not Detected.					
88 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	Compound Not Detected.					
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	Compound Not Detected.					
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
103 Cyclohexanone	55	Compound Not Detected.					
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	Compound Not Detected.					
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D
Report Date: 03-Aug-2010 13:39

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1244.D
Lab Smp Id: L4K1A1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Misc Info: J00802B,8260LLUX11,,43582

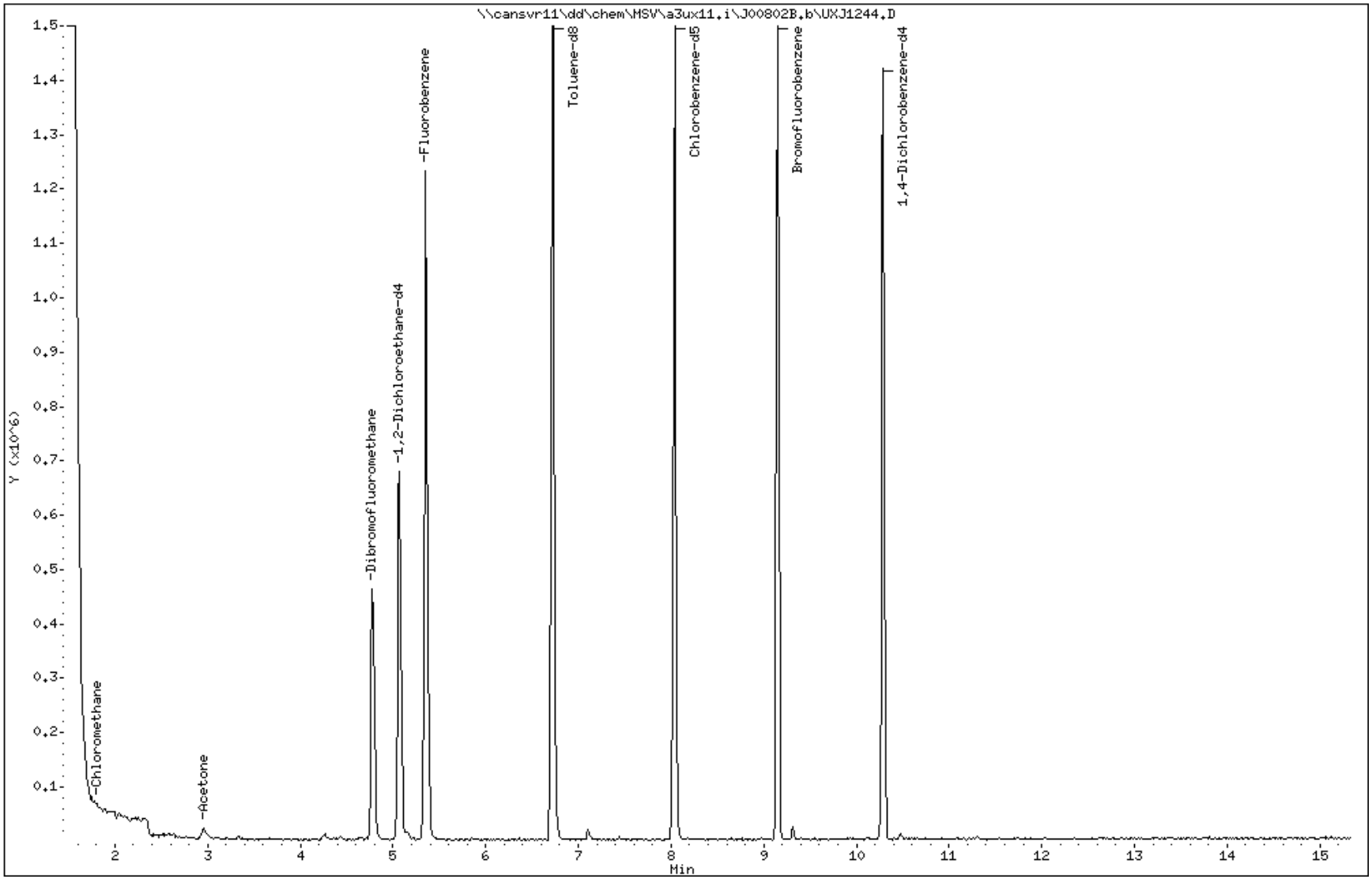
Calibration Date: 02-AUG-2010
Calibration Time: 22:18
Client Smp ID: OW25
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1338892	669446	2677784	1207710	-9.80
2 Chlorobenzene-d5	992965	496483	1985930	872829	-12.10
3 1,4-Dichlorobenze	498138	249069	996276	396012	-20.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D
Date : 03-AUG-2010 08:07
Client ID: OW25 Instrument: a3ux11.i
Sample Info: L4K1A1AJ,5ML/5ML
Purge Volume: 5.0 Operator: 43582
Column phase: DB624 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D

Date : 03-AUG-2010 08:07

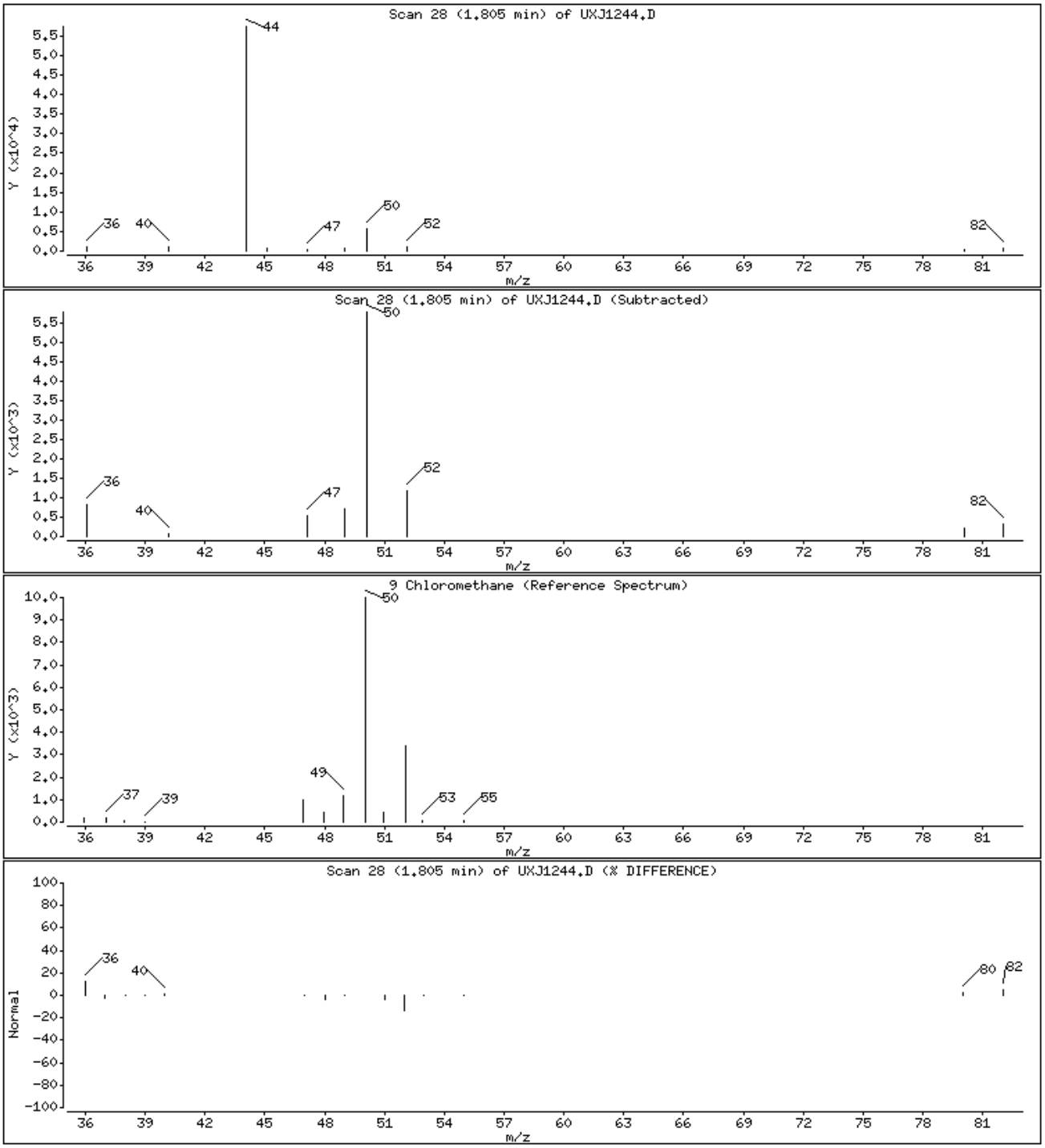
Client ID: OW25 Instrument: a3ux11.i

Sample Info: L4K1A1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 0.2904 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1244.D

Date : 03-AUG-2010 08:07

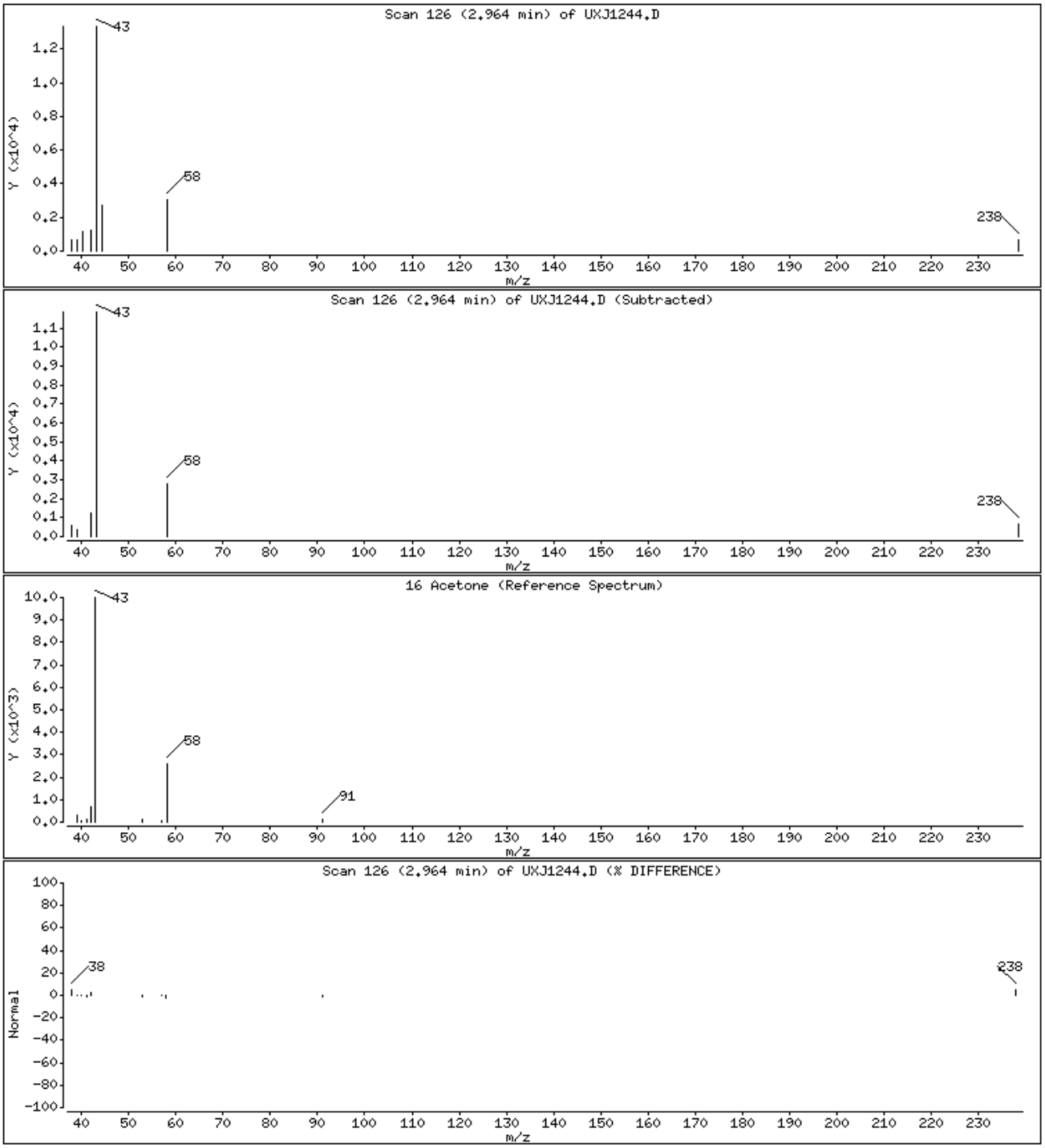
Client ID: OW25 Instrument: a3ux11.i

Sample Info: L4K1A1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 1.176 ug/L



Cardinal Resources

Client Sample ID: SW1

GC/MS Volatiles

Lot-Sample #...: A0G230443-003 **Work Order #...:** L4K1N1AA **Matrix.....:** WG
Date Sampled...: 07/22/10 11:00 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**3.6 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	81	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: SW1

GC/MS Volatiles

Lot-Sample #...: A0G230443-003 **Work Order #...:** L4K1N1AA **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D
Report Date: 02-Aug-2010 12:27

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D
Lab Smp Id: L4K1N1AA Client Smp ID: SW1
Inj Date : 01-AUG-2010 16:26
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K1N1AA,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1543326	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1084491	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	480694	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	439423	43.3052	8.661
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	737064	40.6848	8.137
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	1903225	43.5319	8.706
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	675751	42.6179	8.524
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.952	2.952	(0.551)	119541	18.2006	3.640
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D
Report Date: 02-Aug-2010 12:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D
Report Date: 02-Aug-2010 12:27

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
78 sec-Butylbenzene	105	Compound Not Detected.					
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	Compound Not Detected.					
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	Compound Not Detected.					
88 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	Compound Not Detected.					
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.431	4.431	(0.828)	19822	1.97483	0.3950
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
103 Cyclohexanone	55	Compound Not Detected.					
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	Compound Not Detected.					
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D
Report Date: 02-Aug-2010 12:27

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1168.D
Lab Smp Id: L4K1N1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

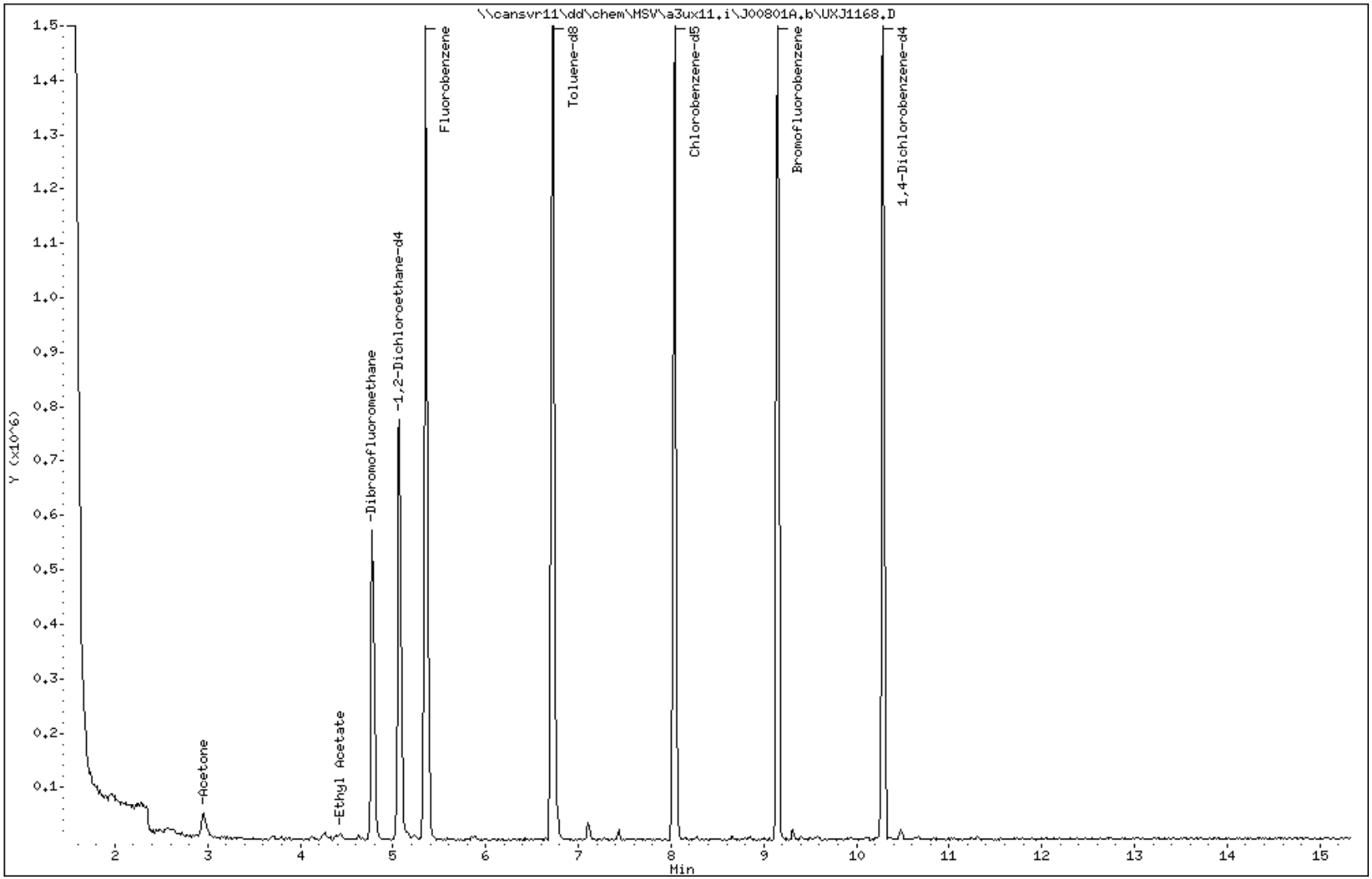
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: SW1
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1543326	-5.35
2 Chlorobenzene-d5	1193156	596578	2386312	1084491	-9.11
3 1,4-Dichlorobenze	593165	296583	1186330	480694	-18.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D
Date : 01-AUG-2010 16:26
Client ID: SW1
Instrument: a3ux11.i
Sample Info: L4K1N1AA,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D

Date : 01-AUG-2010 16:26

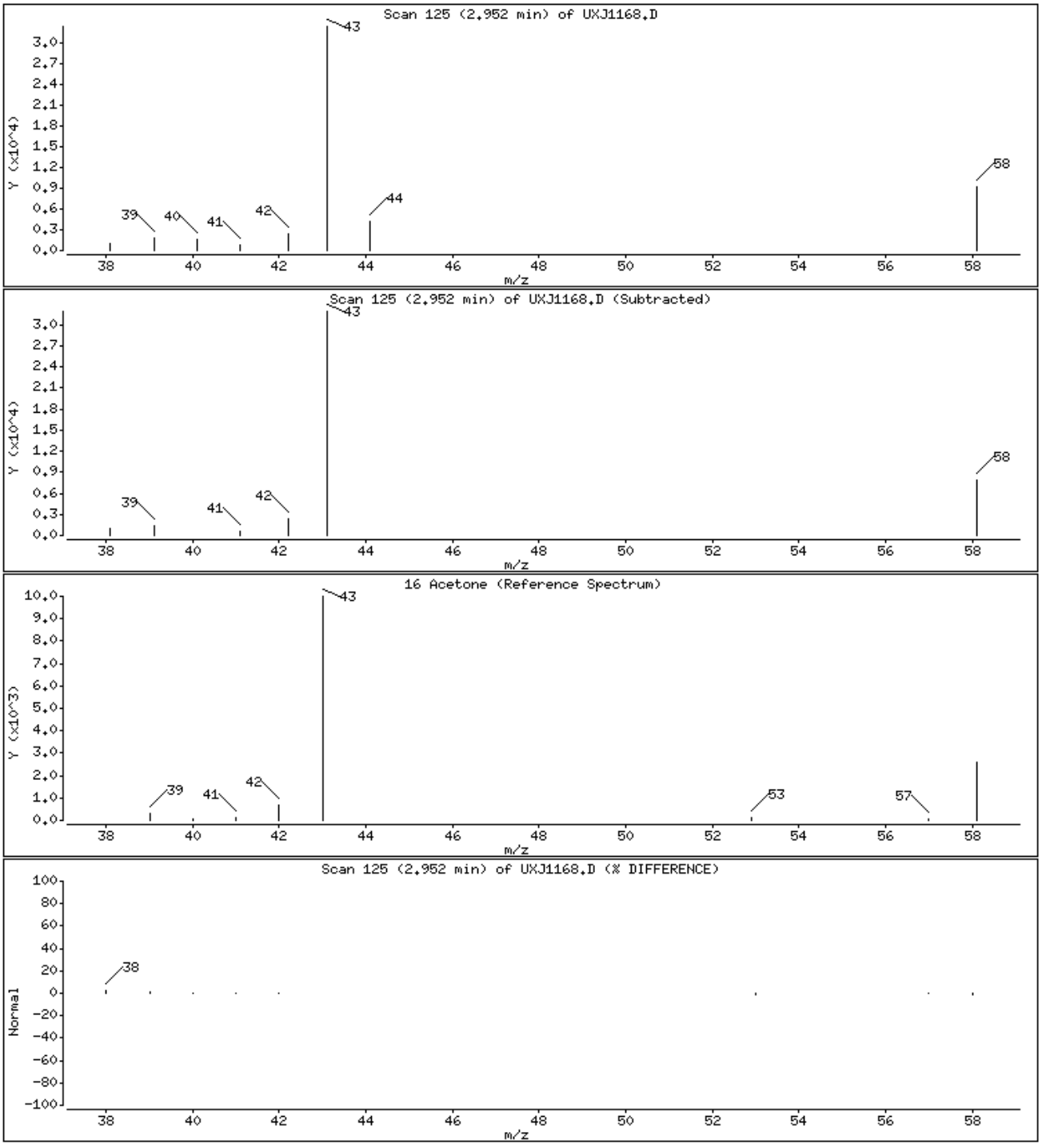
Client ID: SW1 Instrument: a3ux11.i

Sample Info: L4K1N1AA,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 3.640 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1168.D

Date : 01-AUG-2010 16:26

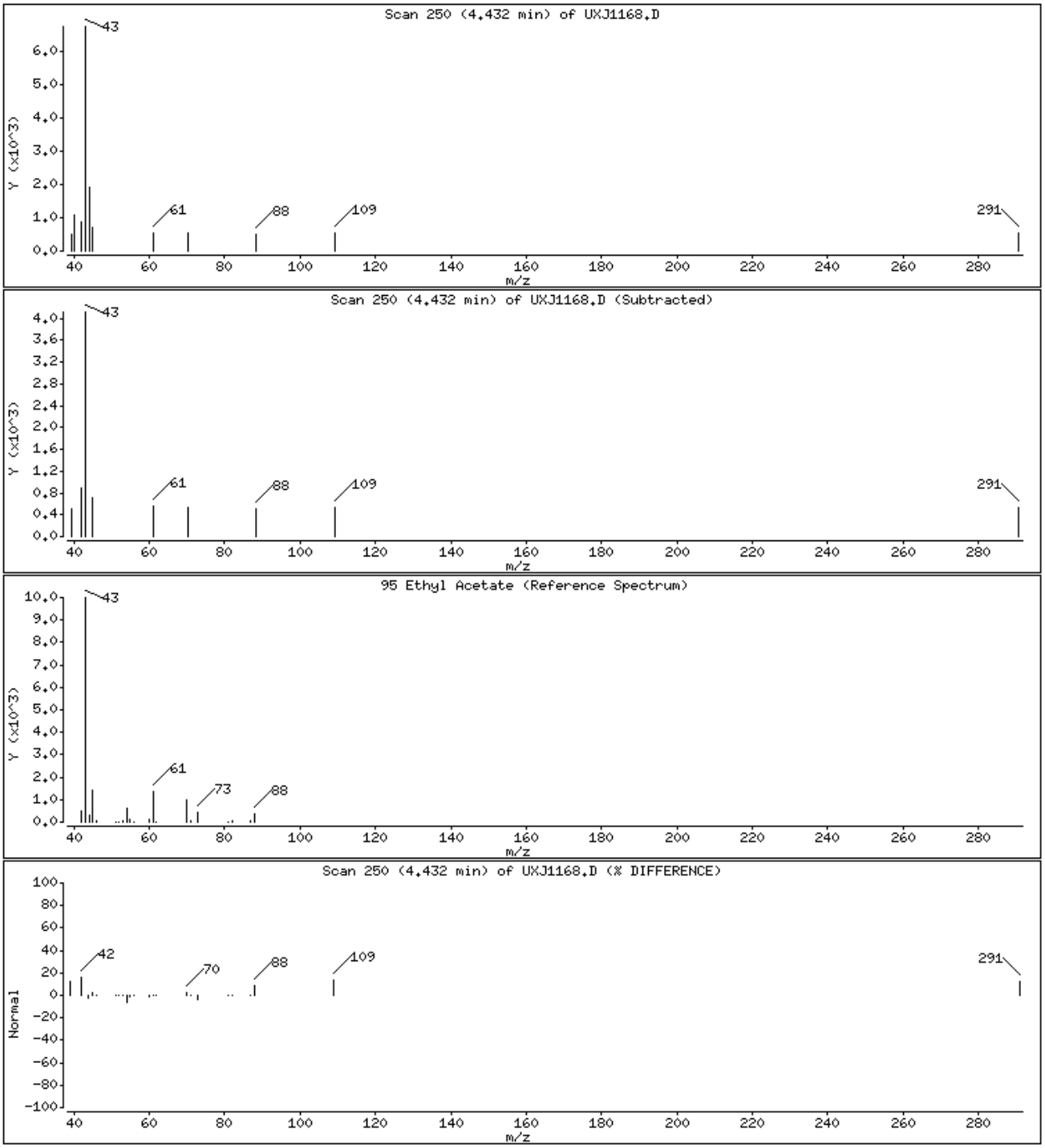
Client ID: SW1 Instrument: a3ux11.i

Sample Info: L4K1N1AA,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

95 Ethyl Acetate Concentration: 0.3950 ug/L



Cardinal Resources

Client Sample ID: OW19

GC/MS Volatiles

Lot-Sample #...: A0G230443-004 **Work Order #...:** L4K1R1AJ **Matrix.....:** WG
Date Sampled...: 07/22/10 11:15 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.63 J**	**2.0**	**ug/L**
Chloroethane	**0.85 J**	**2.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Acetone	**1.3 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.65 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**1.2**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**11**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(73 - 122)
1,2-Dichloroethane-d4	83	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW19

GC/MS Volatiles

Lot-Sample #...: A0G230443-004 **Work Order #...:** L4K1R1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D
Report Date: 02-Aug-2010 12:29

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D
Lab Smp Id: L4K1R1AJ Client Smp ID: OW19
Inj Date : 01-AUG-2010 16:49
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K1R1AJ,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1509697	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1065074	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	470187	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	435449	43.8695	8.774
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	735095	41.4799	8.296
$ 6 Toluene-d8	98	6.726	6.727	(0.837)	1867653	43.4971	8.699
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	677619	43.5148	8.703
8 Dichlorodifluoromethane	85	1.650	1.638	(0.308)	17838	1.45220	0.2904
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	1.899	1.899	(0.355)	52817	3.16688	0.6334
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	2.289	2.301	(0.428)	24022	4.23122	0.8462
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.952	2.952	(0.551)	62125	6.51533	1.303
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D
Report Date: 02-Aug-2010 12:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96				39140	3.24590	0.6492
	32 cis-1,2-dichloroethene	96	4.395	4.384	(0.821)	39140	3.24590	0.6492
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	5.129	5.129	(0.958)	330576	6.12053	1.224
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	8.064	8.064	(1.003)	1703775	55.6964	11.139
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D
Report Date: 02-Aug-2010 12:29

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
78 sec-Butylbenzene	105	Compound Not Detected.					
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	91259	4.35638	0.8713
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	22007	1.18484	0.2370
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	Compound Not Detected.					
88 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14 Dichlorofluoromethane	67	2.455	2.455	(0.459)	68279	4.85320	0.9706
89 Ethyl Ether	59	2.715	2.715	(0.507)	47713	5.29550	1.059
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.431	4.431	(0.828)	18858	1.92064	0.3841
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
103 Cyclohexanone	55	Compound Not Detected.					
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	Compound Not Detected.					
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D
Report Date: 02-Aug-2010 12:29

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

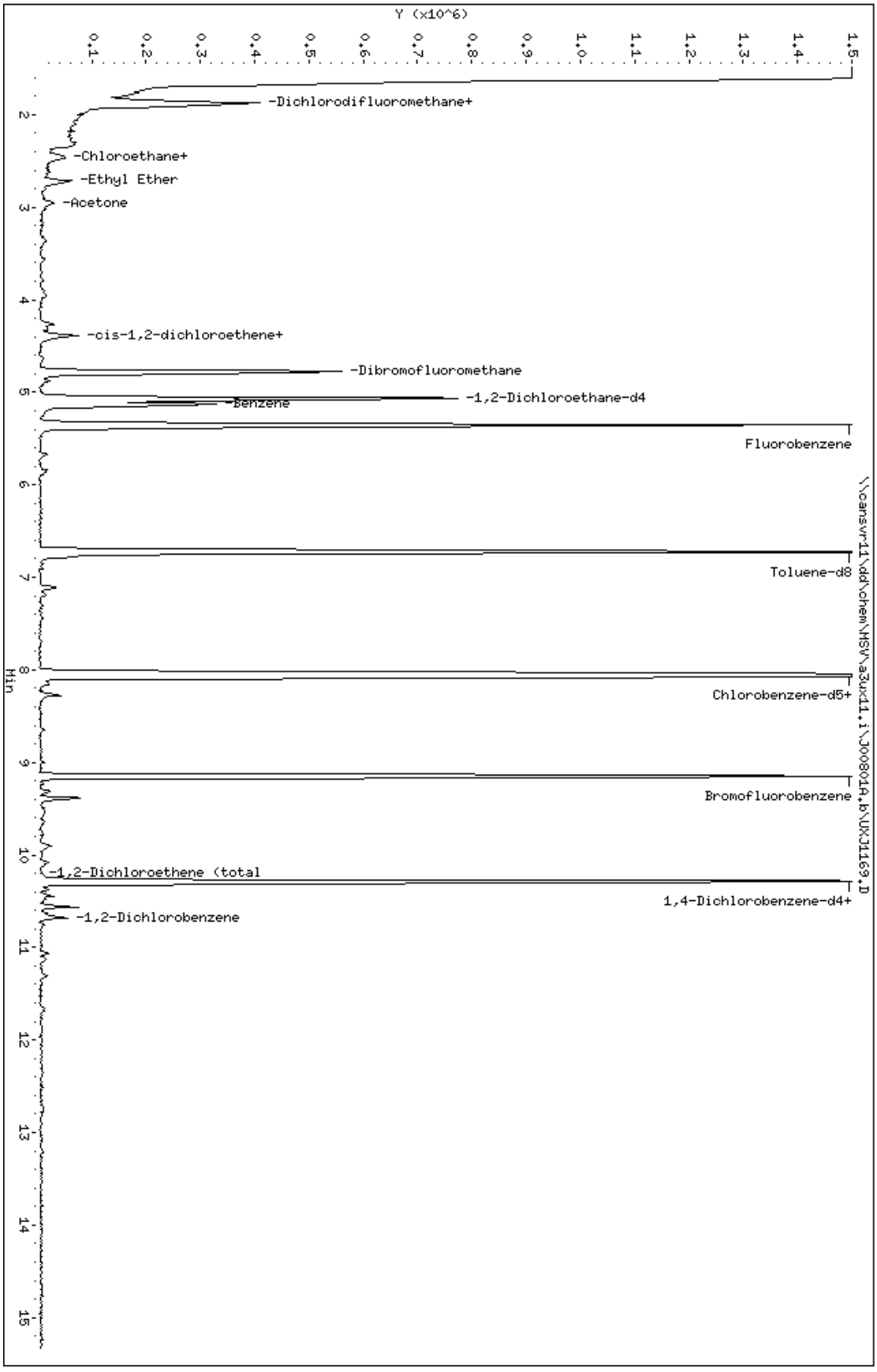
Instrument ID: a3ux11.i
Lab File ID: UXJ1169.D
Lab Smp Id: L4K1R1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: OW19
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1509697	-7.41
2 Chlorobenzene-d5	1193156	596578	2386312	1065074	-10.73
3 1,4-Dichlorobenze	593165	296583	1186330	470187	-20.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\JO0801A.b\UXJ1169.D
Date : 01-AUG-2010 16:49
Client ID: DW19
Sample Info: L4K1R1AJ,5ML/5ML
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
-Dichlorodifluoromethane+
-Chloroethane+
-Ethyl Ether
-Acetone
-cis-1,2-dichloroethene+
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Benzene
Fluorobenzene
Toluene-d8
Chlorobenzene-d5+
Bromofluorobenzene
-1,2-Dichloroethene (total
1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene
Min
\\cansvr11\dd\chem\MSV\a3ux11.i\JO0801A.b\UXJ1169.D

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

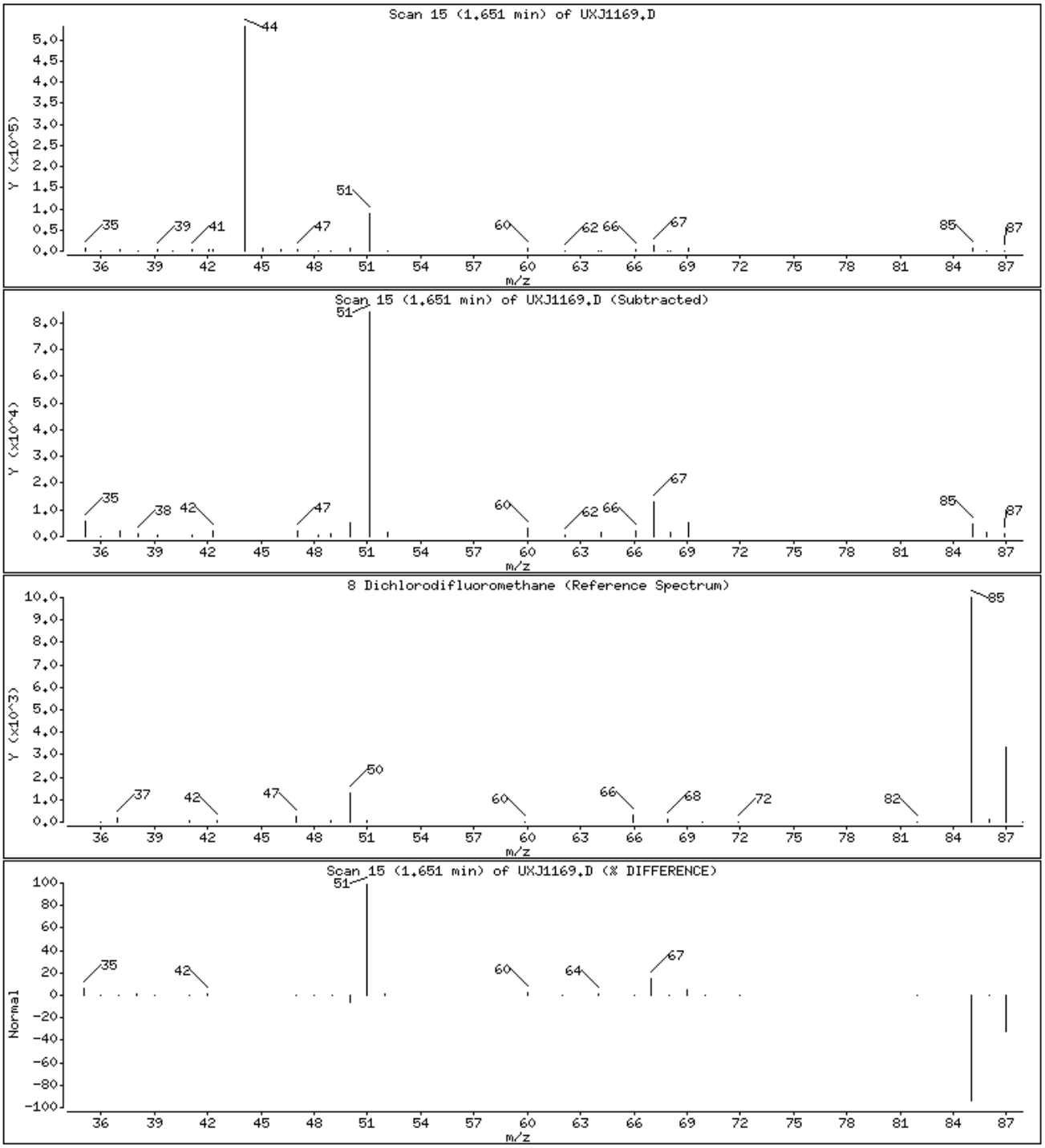
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

8 Dichlorodifluoromethane Concentration: 0.2904 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

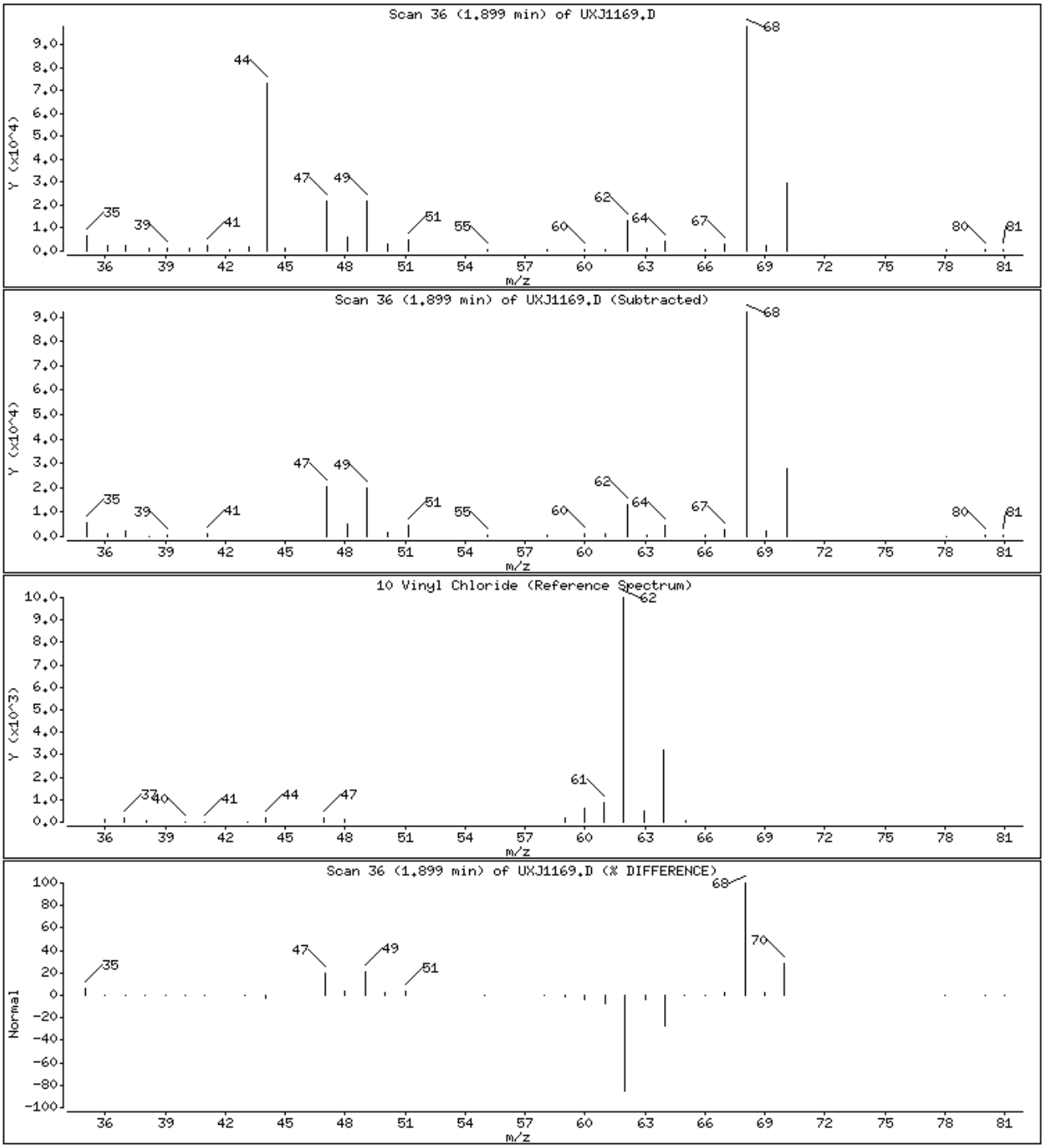
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

10 Vinyl Chloride Concentration: 0.6334 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

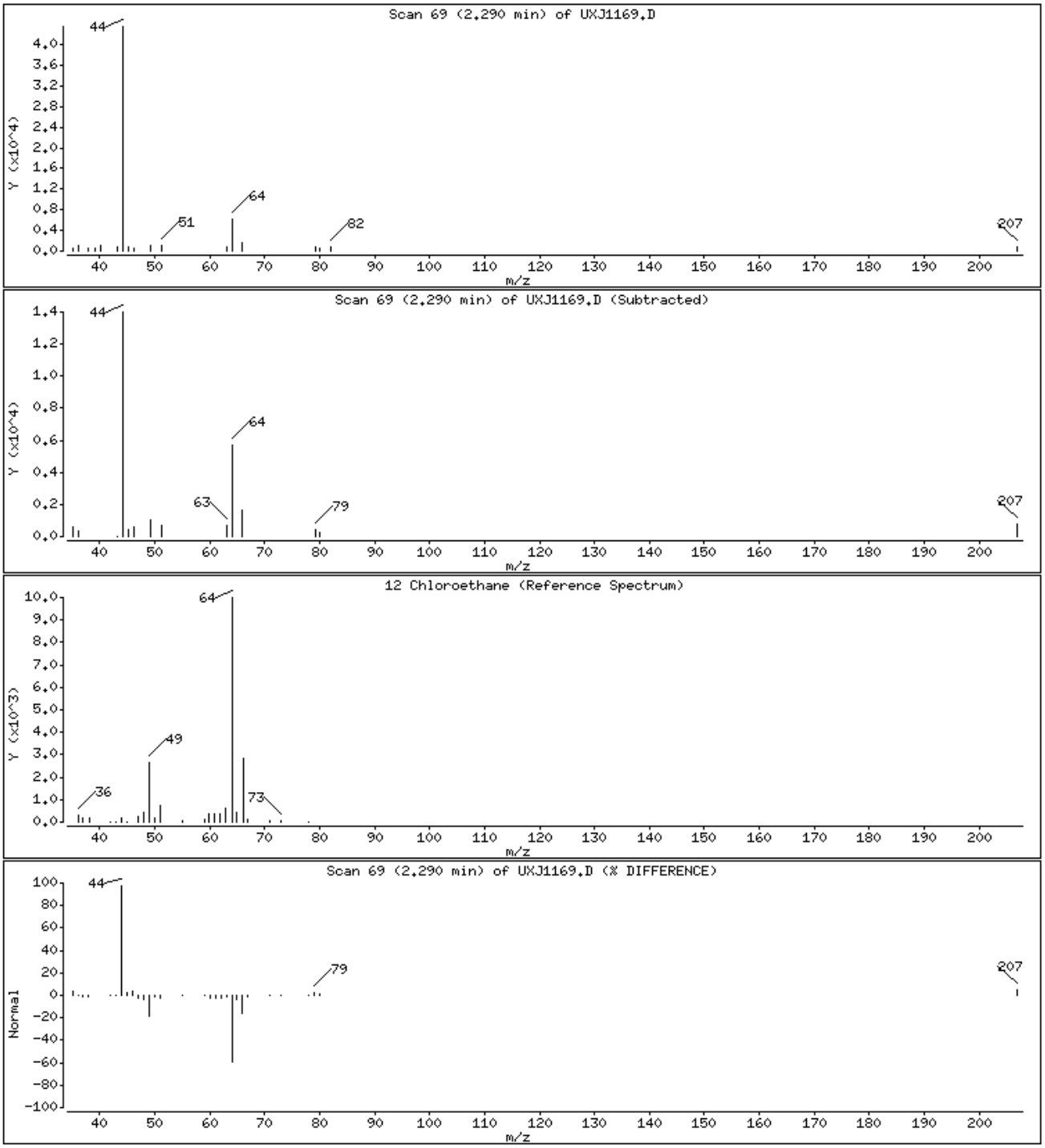
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

12 Chloroethane Concentration: 0.8462 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

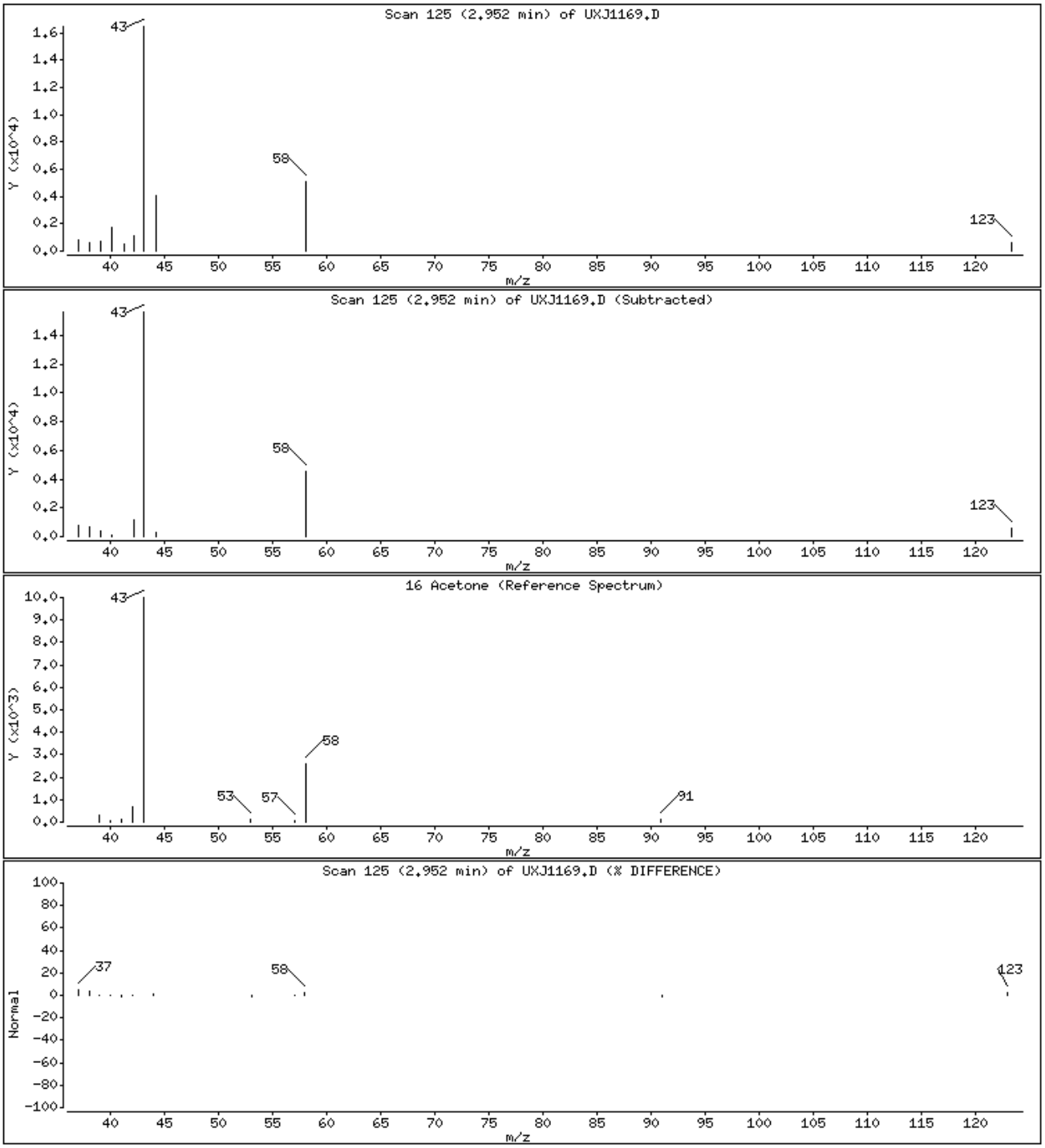
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 1.303 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

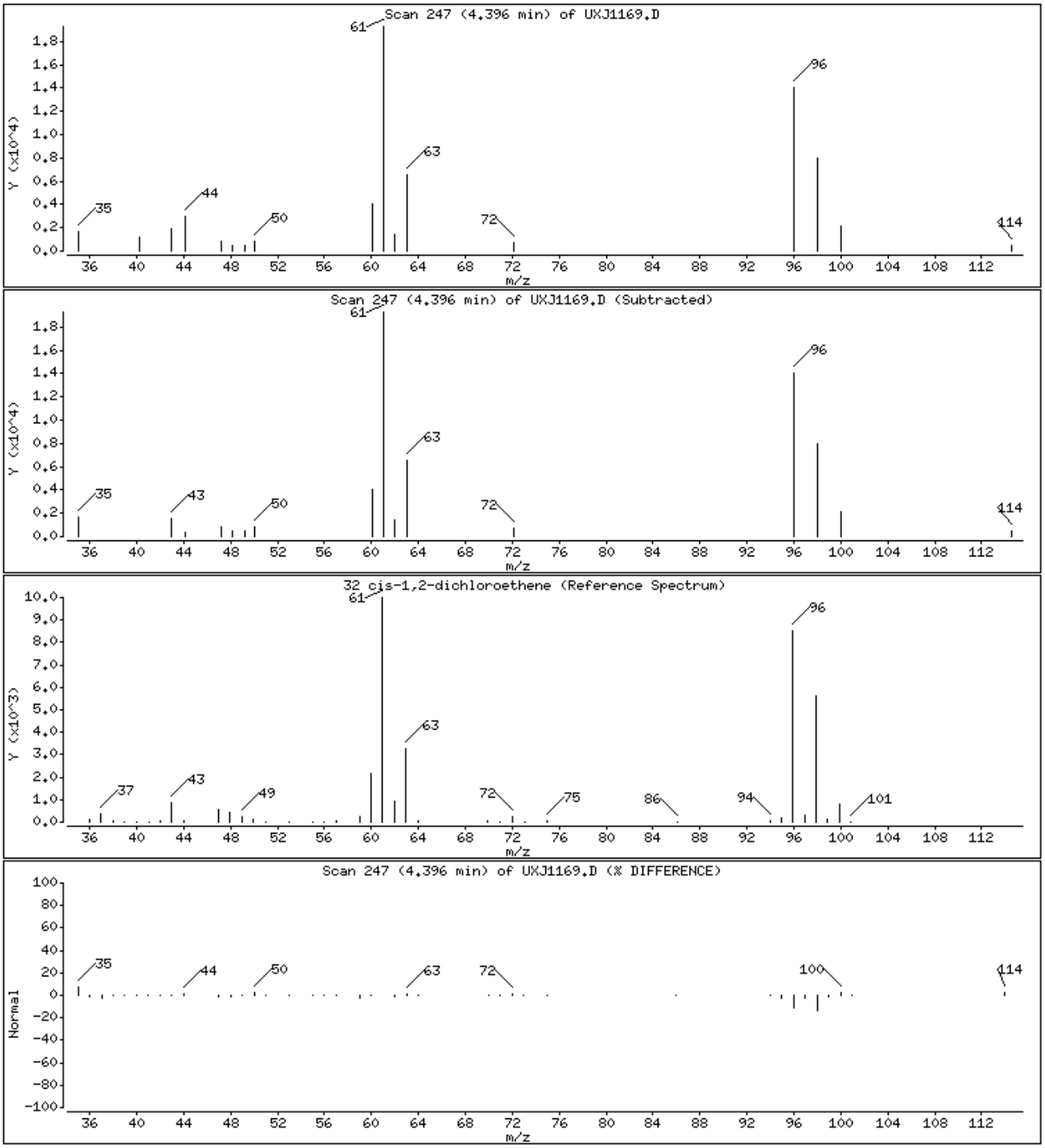
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 0.6492 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

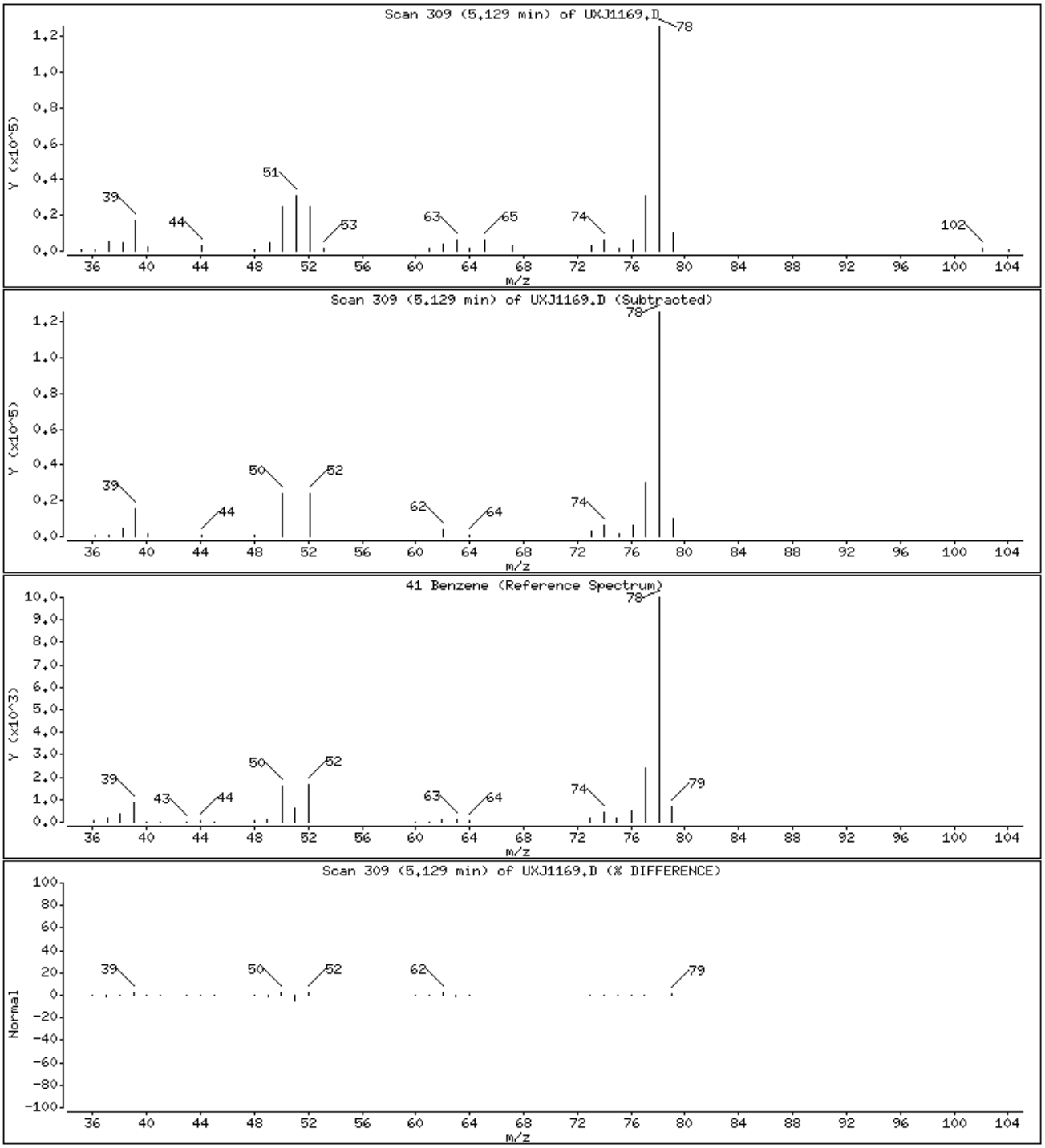
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 1.224 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

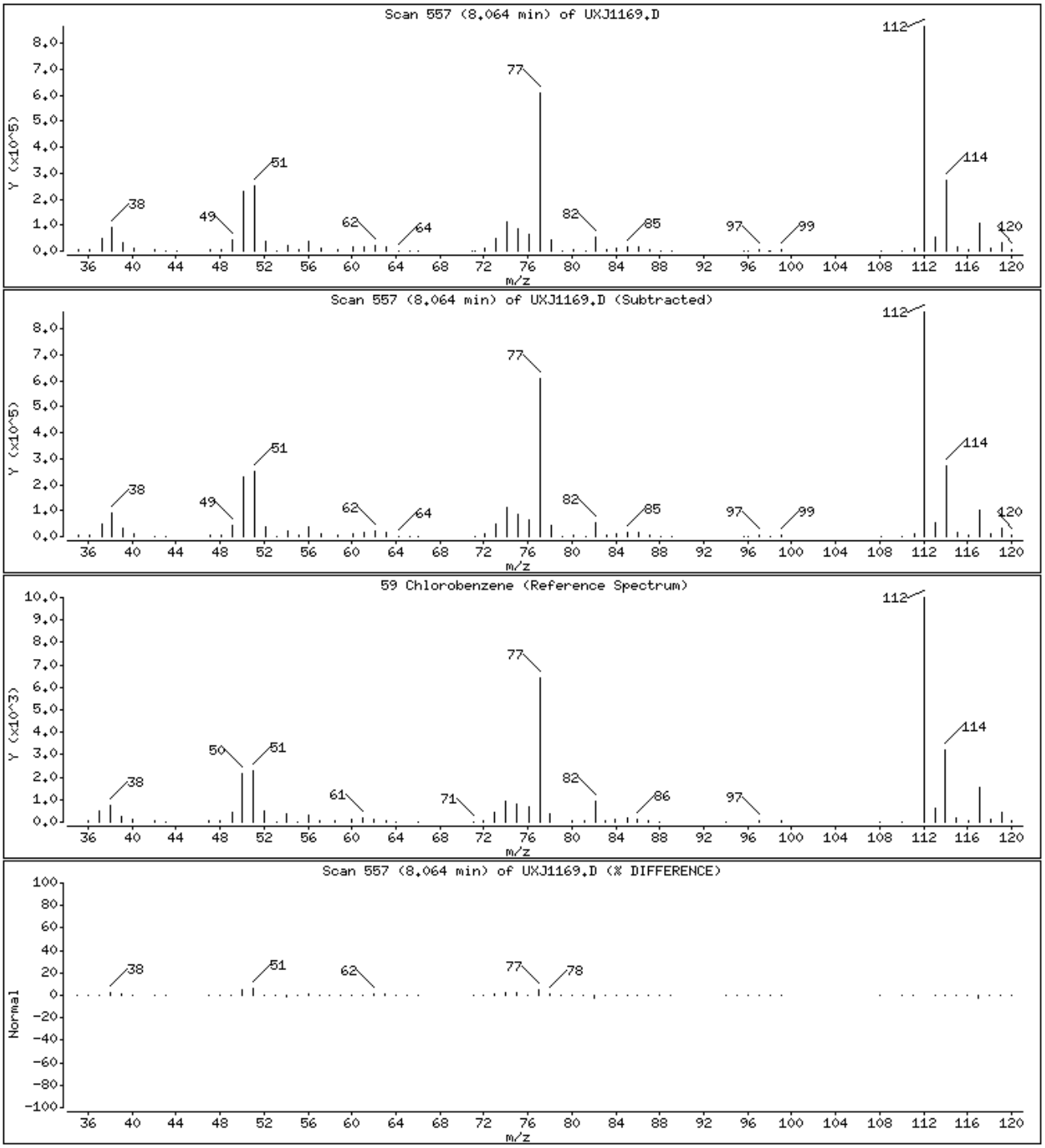
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

59 Chlorobenzene Concentration: 11.139 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

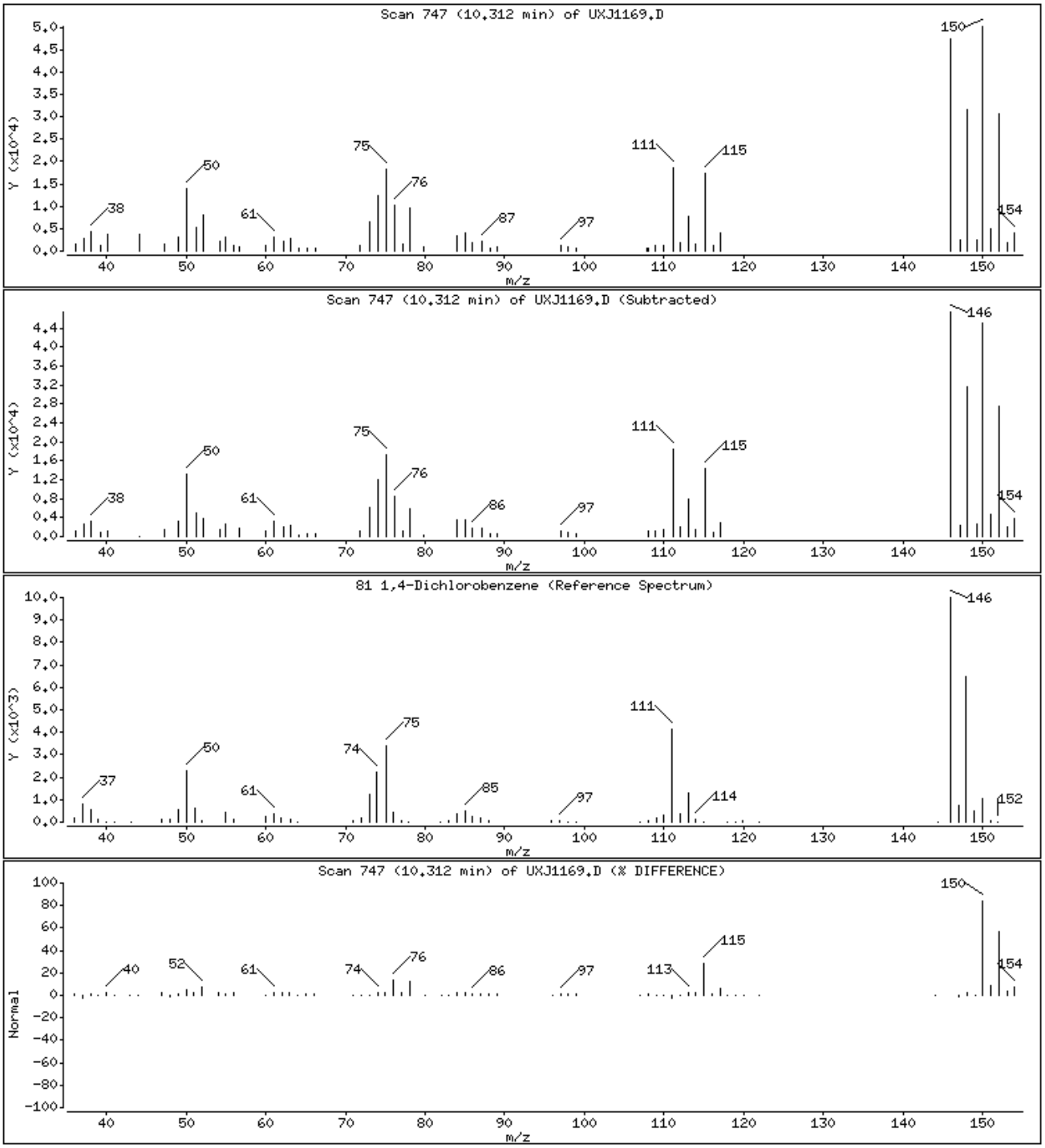
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.8713 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

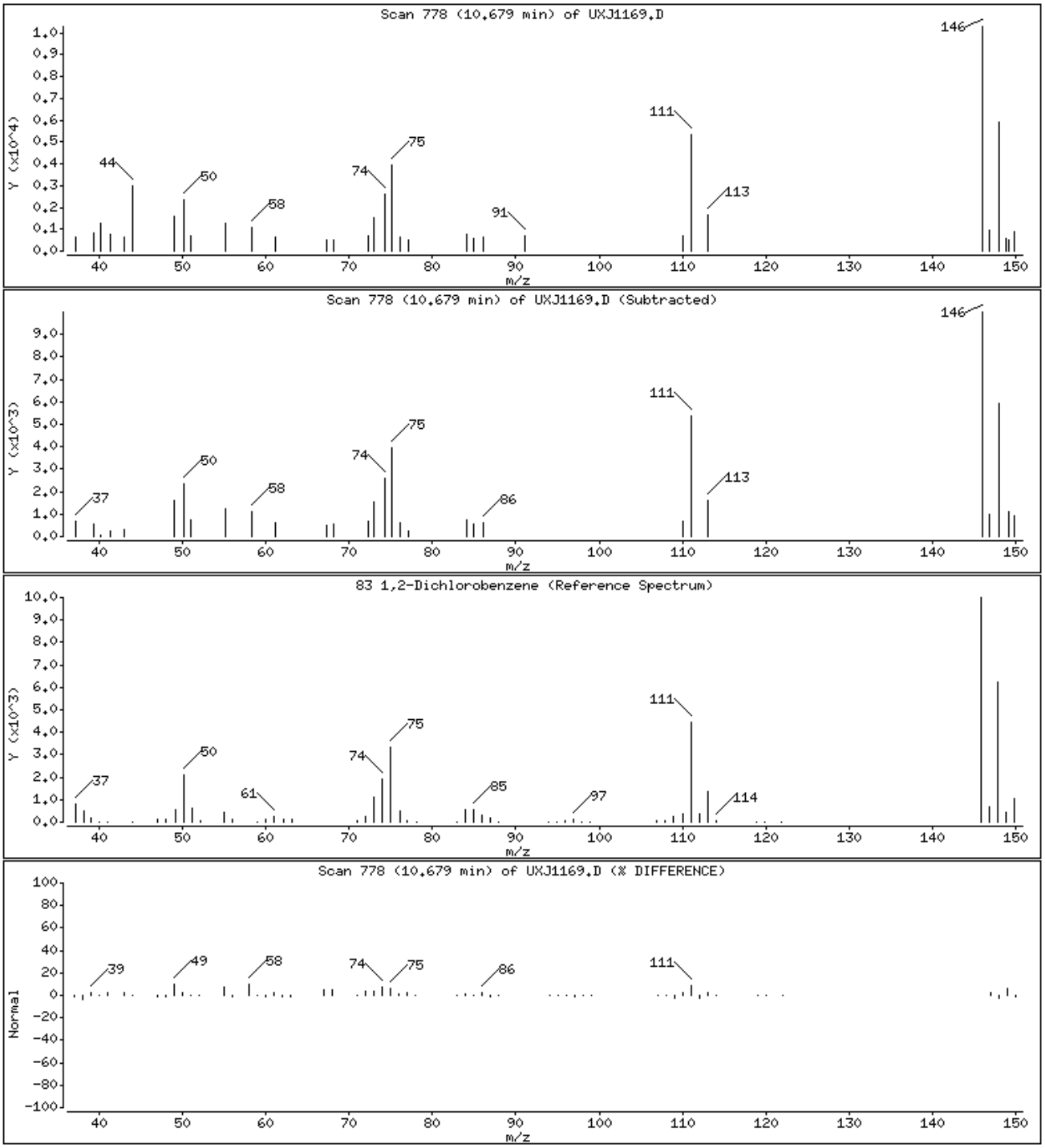
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

83 1,2-Dichlorobenzene Concentration: 0.2370 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

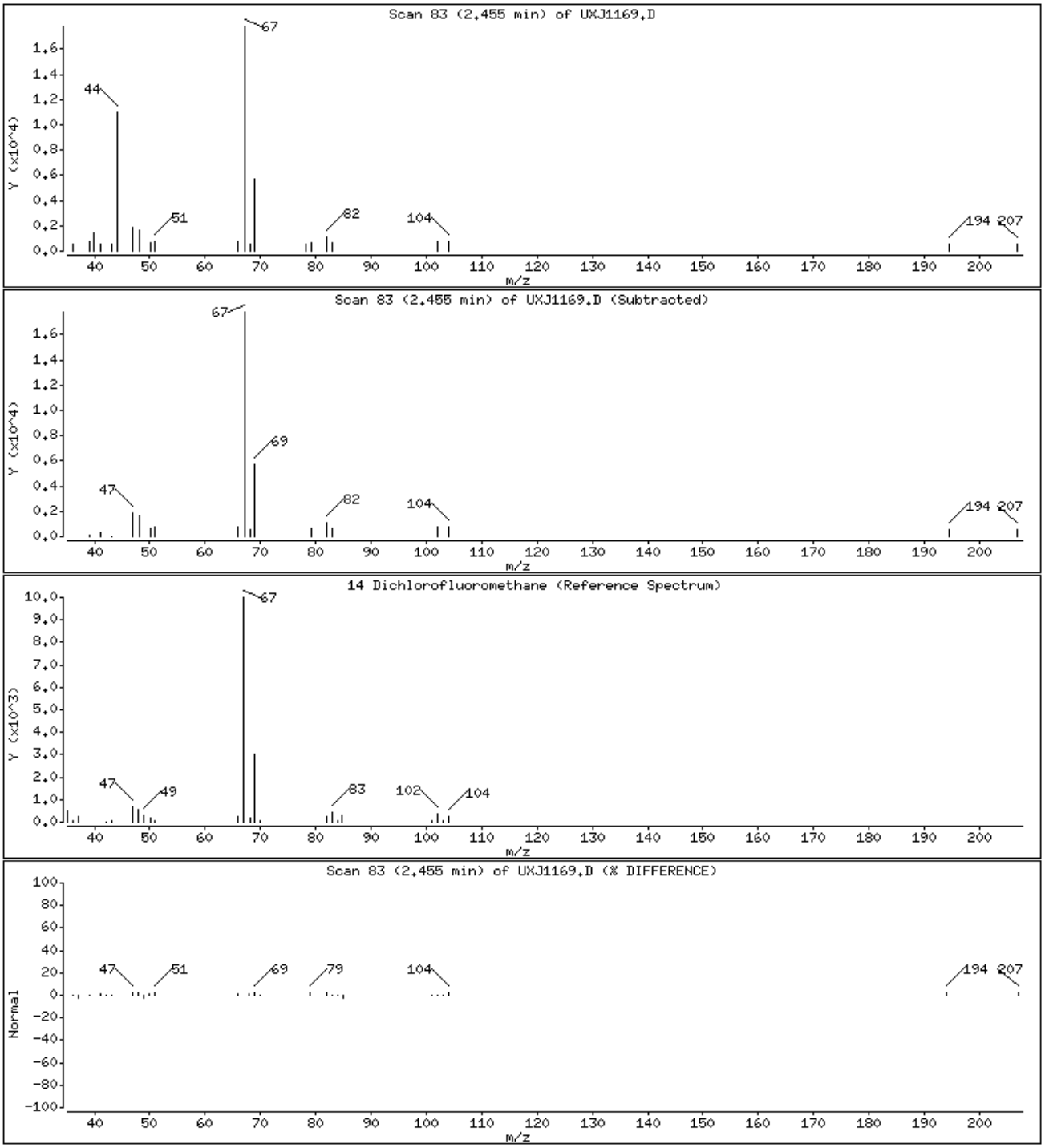
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

14 Dichlorofluoromethane Concentration: 0.9706 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

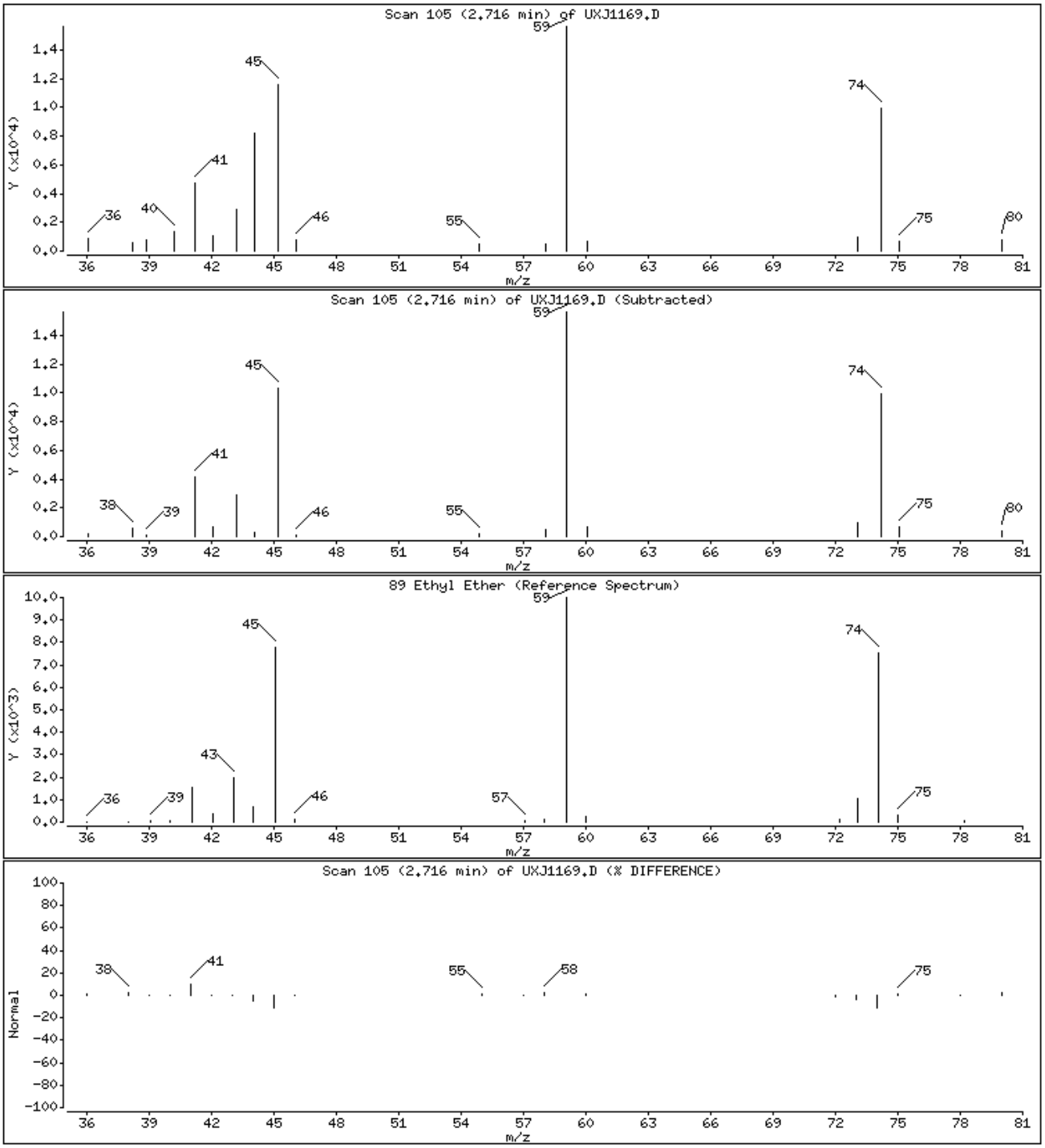
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

89 Ethyl Ether Concentration: 1.059 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1169.D

Date : 01-AUG-2010 16:49

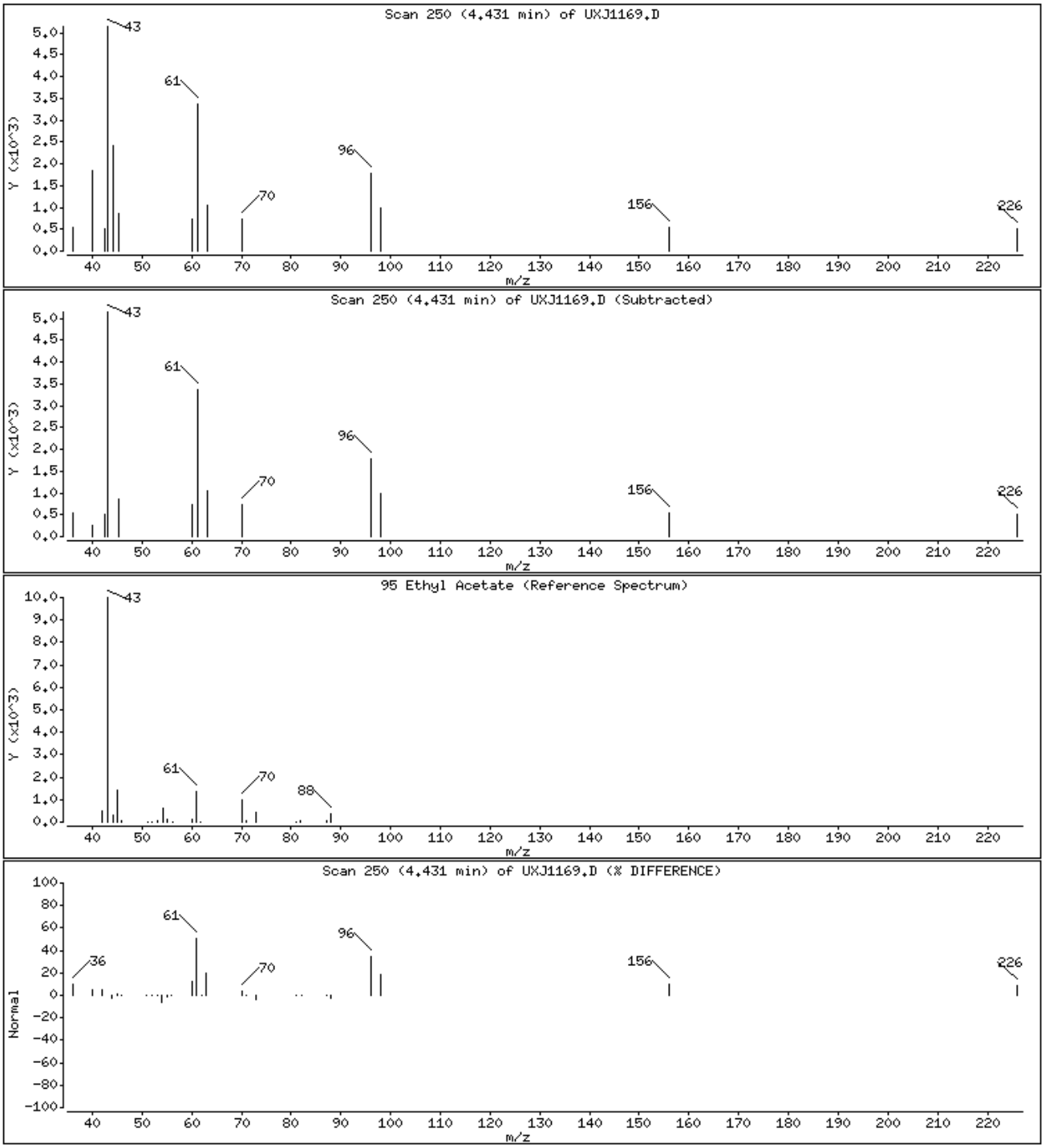
Client ID: OW19 Instrument: a3ux11.i

Sample Info: L4K1R1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

95 Ethyl Acetate Concentration: 0.3841 ug/L



Cardinal Resources

Client Sample ID: SED 1

GC/MS Volatiles

Lot-Sample #...: A0G230443-005 **Work Order #...:** L4K1V1AA **Matrix.....:** SO
Date Sampled...: 07/22/10 11:20 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 0.99 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 32 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**45**	**29**	**ug/kg**
Benzene	ND	7.3	ug/kg
Bromodichloromethane	ND	7.3	ug/kg
Bromoform	ND	7.3	ug/kg
Bromomethane	ND	7.3	ug/kg
2-Butanone	ND	29	ug/kg
Carbon disulfide	ND	7.3	ug/kg
Carbon tetrachloride	ND	7.3	ug/kg
Chlorobenzene	ND	7.3	ug/kg
Dibromochloromethane	ND	7.3	ug/kg
1,2-Dibromo-3-chloro-propane	ND	15	ug/kg
Chloroethane	ND	7.3	ug/kg
Chloroform	ND	7.3	ug/kg
Chloromethane	ND	7.3	ug/kg
Cyclohexane	ND	15	ug/kg
1,2-Dibromoethane	ND	7.3	ug/kg
1,2-Dichlorobenzene	ND	7.3	ug/kg
1,3-Dichlorobenzene	ND	7.3	ug/kg
1,4-Dichlorobenzene	ND	7.3	ug/kg
Dichlorodifluoromethane	ND	7.3	ug/kg
1,1-Dichloroethane	ND	7.3	ug/kg
1,2-Dichloroethane	ND	7.3	ug/kg
1,1-Dichloroethene	ND	7.3	ug/kg
cis-1,2-Dichloroethene	ND	7.3	ug/kg
trans-1,2-Dichloroethene	ND	7.3	ug/kg
1,2-Dichloropropane	ND	7.3	ug/kg
cis-1,3-Dichloropropene	ND	7.3	ug/kg
trans-1,3-Dichloropropene	ND	7.3	ug/kg
Ethylbenzene	ND	7.3	ug/kg
Trichlorofluoromethane	ND	7.3	ug/kg
2-Hexanone	ND	29	ug/kg
Isopropylbenzene	ND	7.3	ug/kg
Methyl acetate	ND	15	ug/kg
Methylcyclohexane	ND	15	ug/kg
Methylene chloride	**7.9**	**7.3**	**ug/kg**
4-Methyl-2-pentanone	ND	29	ug/kg
Styrene	ND	7.3	ug/kg

(Continued on next page)

Cardinal Resources

Client Sample ID: SED 1

GC/MS Volatiles

Lot-Sample #...: A0G230443-005 **Work Order #...:** L4K1V1AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	7.3	ug/kg
Tetrachloroethene	ND	7.3	ug/kg
Toluene	ND	7.3	ug/kg
1,2,4-Trichloro-benzene	ND	7.3	ug/kg
1,1,1-Trichloroethane	ND	7.3	ug/kg
1,1,2-Trichloroethane	ND	7.3	ug/kg
Trichloroethene	ND	7.3	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.3	ug/kg
Vinyl chloride	ND	7.3	ug/kg
Xylenes (total)	ND	15	ug/kg
Methyl tert-butyl ether	ND	29	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	128	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D
Report Date: 29-Jul-2010 16:24

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D
Lab Smp Id: L4K1V1AA Client Smp ID: SED 1
Inj Date : 29-JUL-2010 15:34
Operator : 2807 Inst ID: a3ux14.i
Smp Info : L4K1V1AA,5.04G/5ML
Misc Info : R00729A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.040	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1397287	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	919085	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	360233	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	357314	198.906	39.466
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	378444	204.006	40.477
$ 6 Toluene-d8	98	8.067	8.066	(0.865)	1311525	261.655	51.916
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	346752	318.835	63.261
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.919	2.919	(0.443)	118676	152.308	30.220
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	3.487	3.487	(0.529)	58619	27.0639	5.370

22 Acetonitrile	41	3.286	3.274 (0.499)	8933	36.8702	7.316
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D
Report Date: 29-Jul-2010 16:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.369	5.357	(0.815)	48280	53.4996	10.615
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	6.292	6.292	(0.955)	13472	2.64174	0.5242
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	11440	7.62115	1.512
	50 Toluene	91	8.126	8.126	(0.872)	15250	3.09128	0.6133
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	9.344	9.344	(1.003)	2423	0.69409	0.1377
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	9.534	9.534	(1.023)	2889	1.33398	0.2647
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.					
76	tert-Butylbenzene	119	10.954	10.954 (0.971)		1986	0.58877	0.1168
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D
Report Date: 29-Jul-2010 16:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	1024	8.77001	1.740
89	Ethyl Ether	59	2.588	2.588	(0.393)	3126	1.95108	0.3871
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.948	5.948	(0.903)	3197	0.78808	0.1564
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.344	11.356	(1.005)	508	0.16232	0.03221(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D
Report Date: 29-Jul-2010 16:24

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141515.D
Lab Smp Id: L4K1V1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807

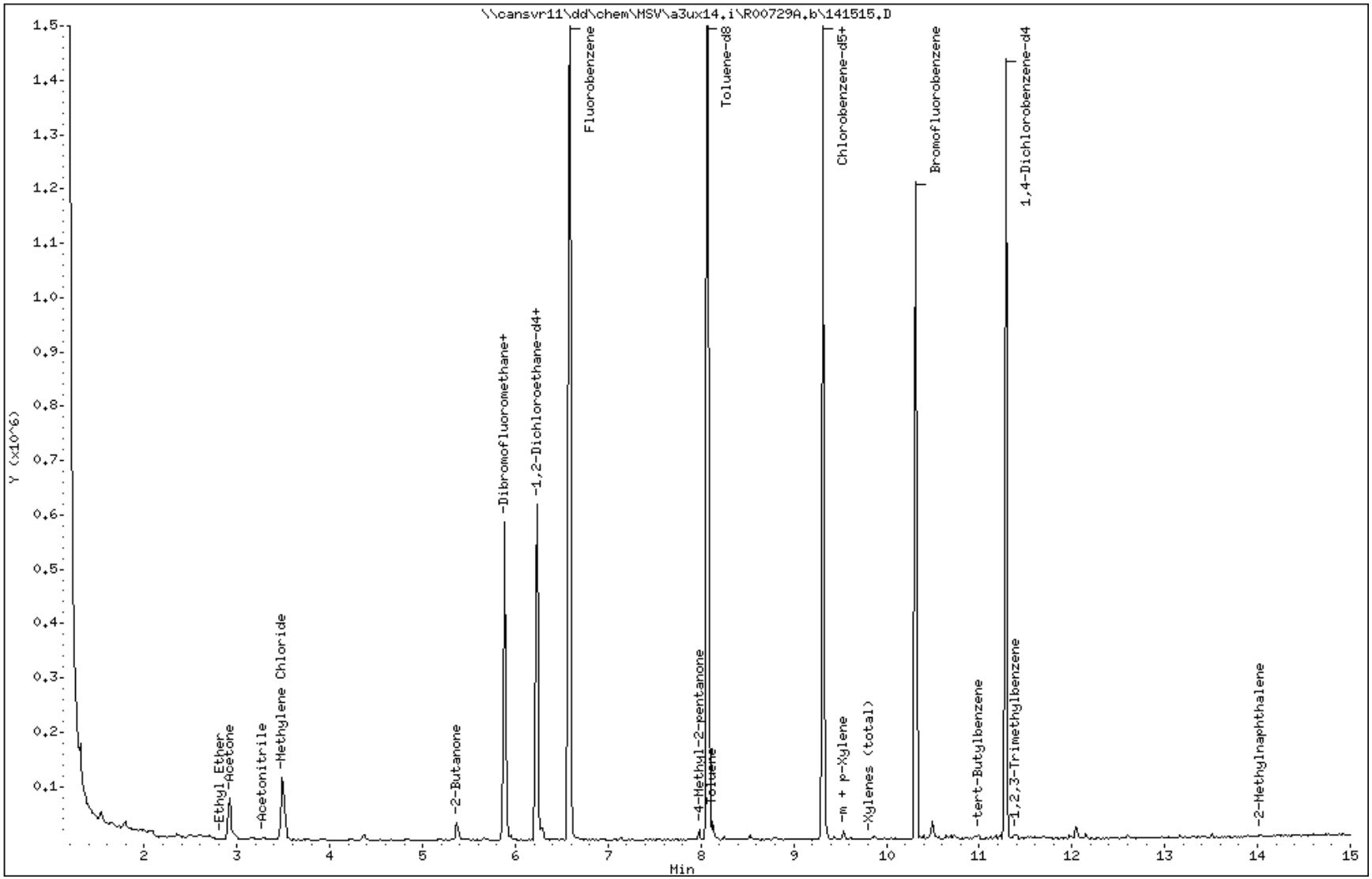
Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Client Smp ID: SED 1
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1397287	-10.67
2 Chlorobenzene-d5	1117515	558758	2235030	919085	-17.76
3 1,4-Dichlorobenze	636663	318332	1273326	360233	-43.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D
Date : 29-JUL-2010 15:34
Client ID: SED 1
Instrument: a3ux14.i
Sample Info: L4K1V1AA,5.04G/5ML
Purge Volume: 5.0
Operator: 2807
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

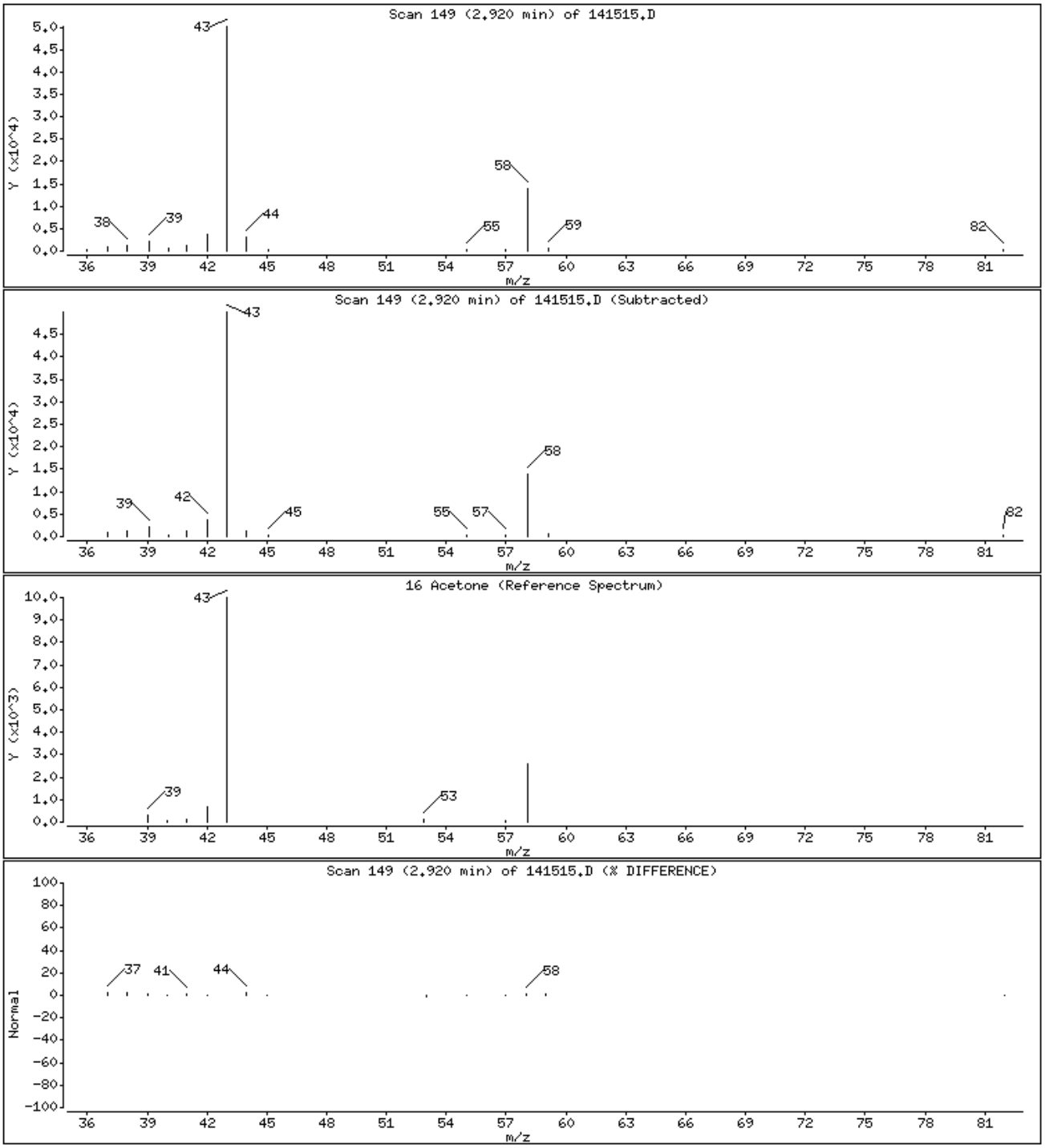
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 30.220 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

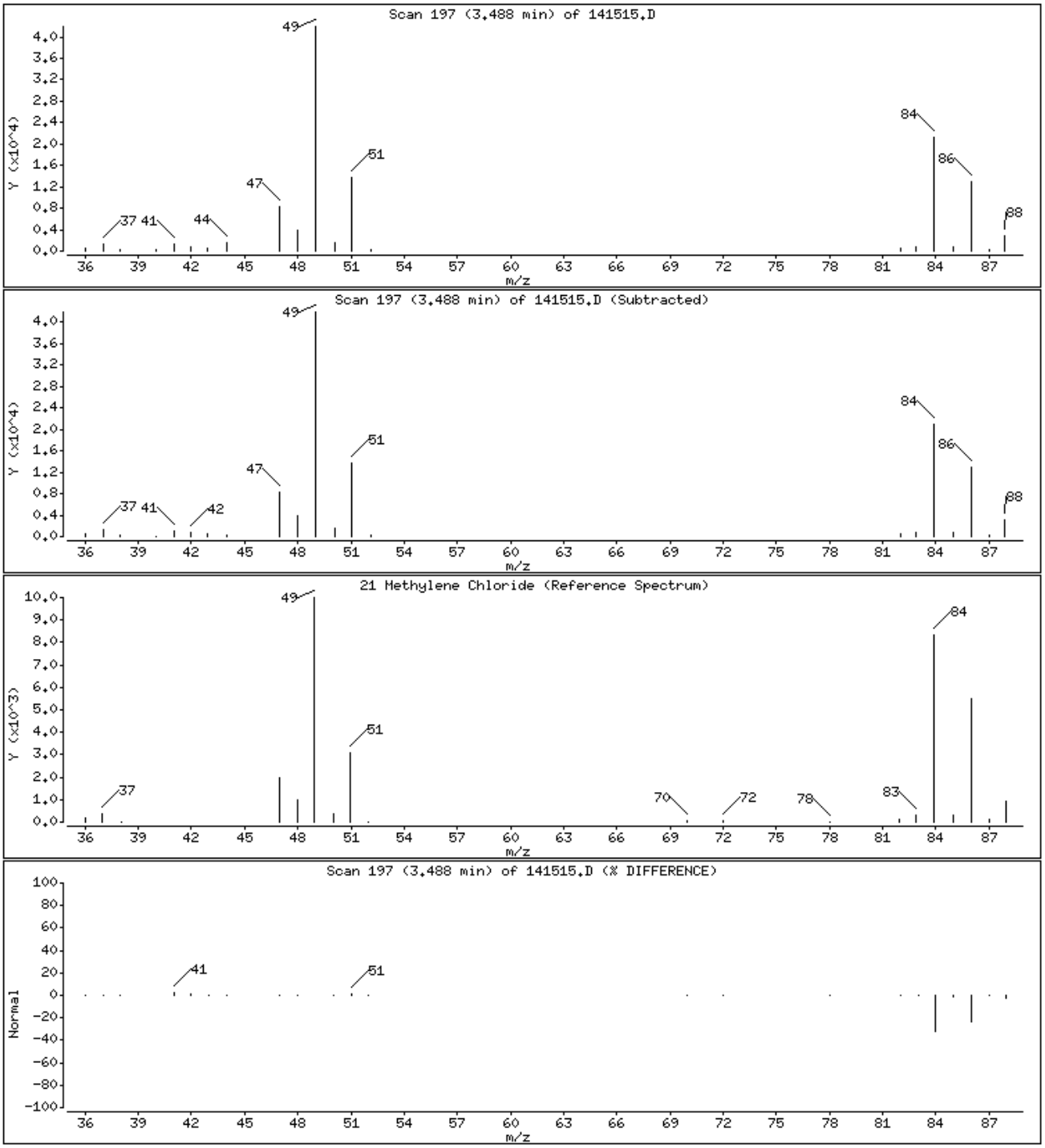
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

21 Methylene Chloride Concentration: 5.370 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

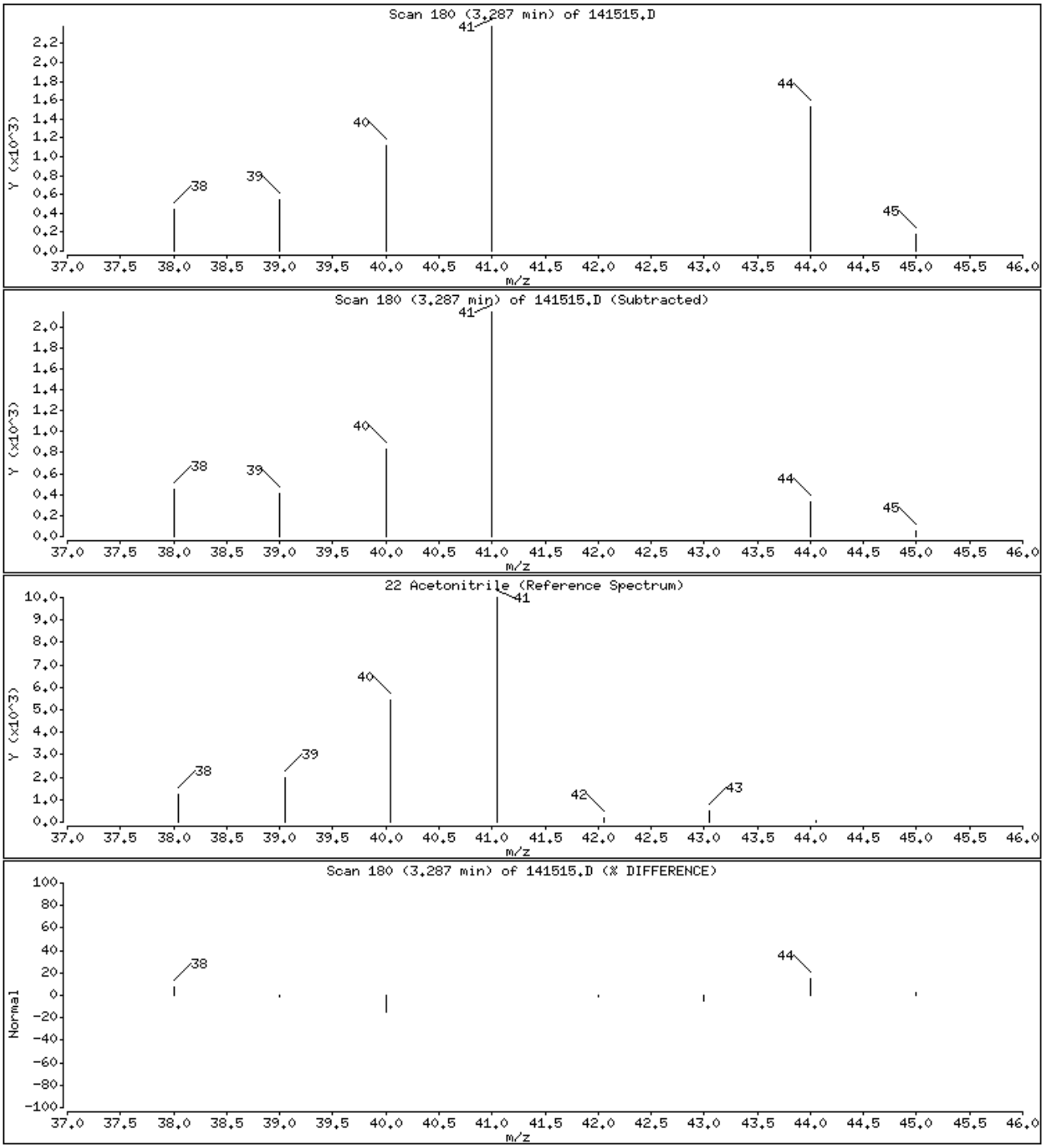
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

22 Acetonitrile Concentration: 7.316 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

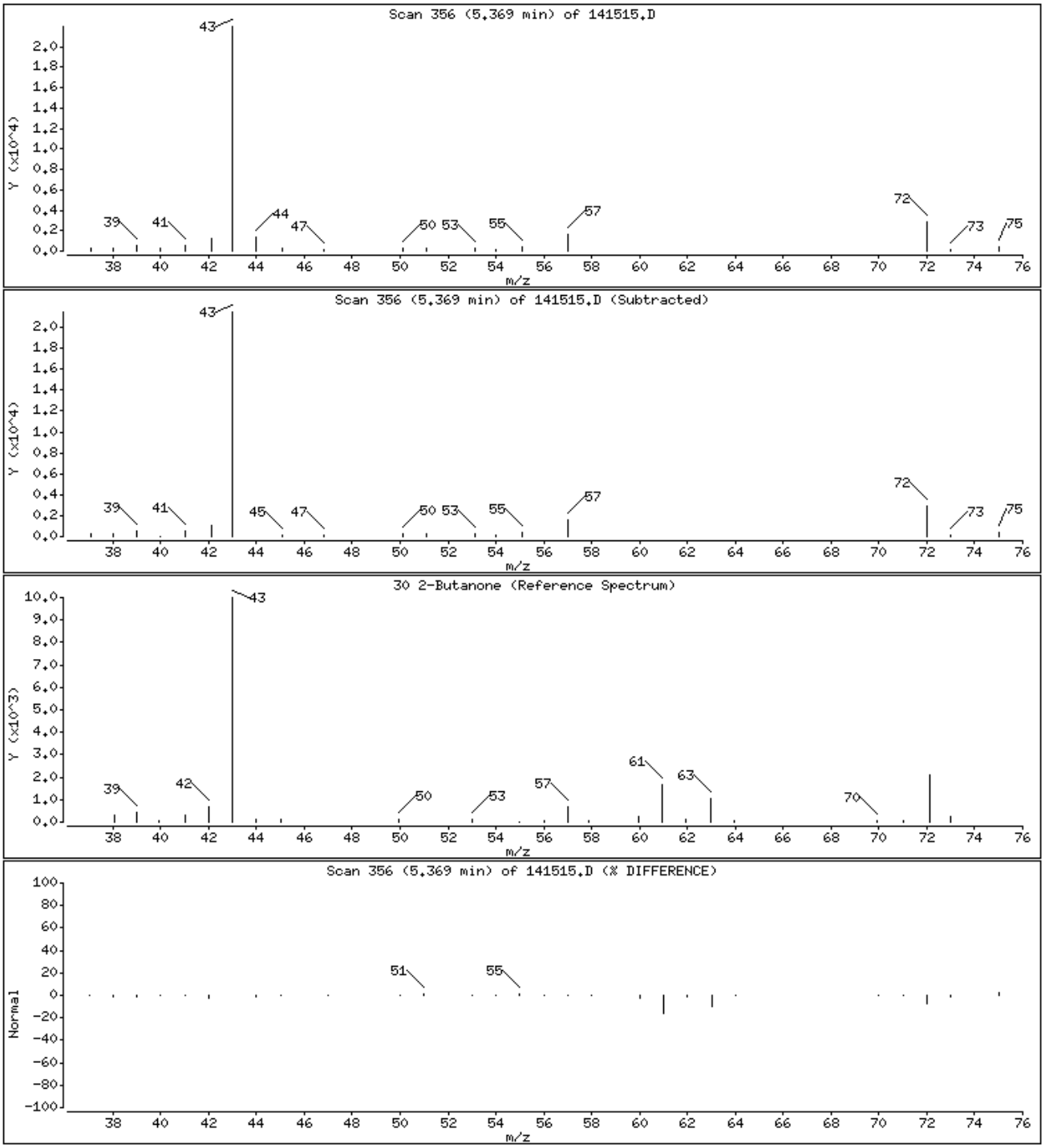
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

30 2-Butanone Concentration: 10.615 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

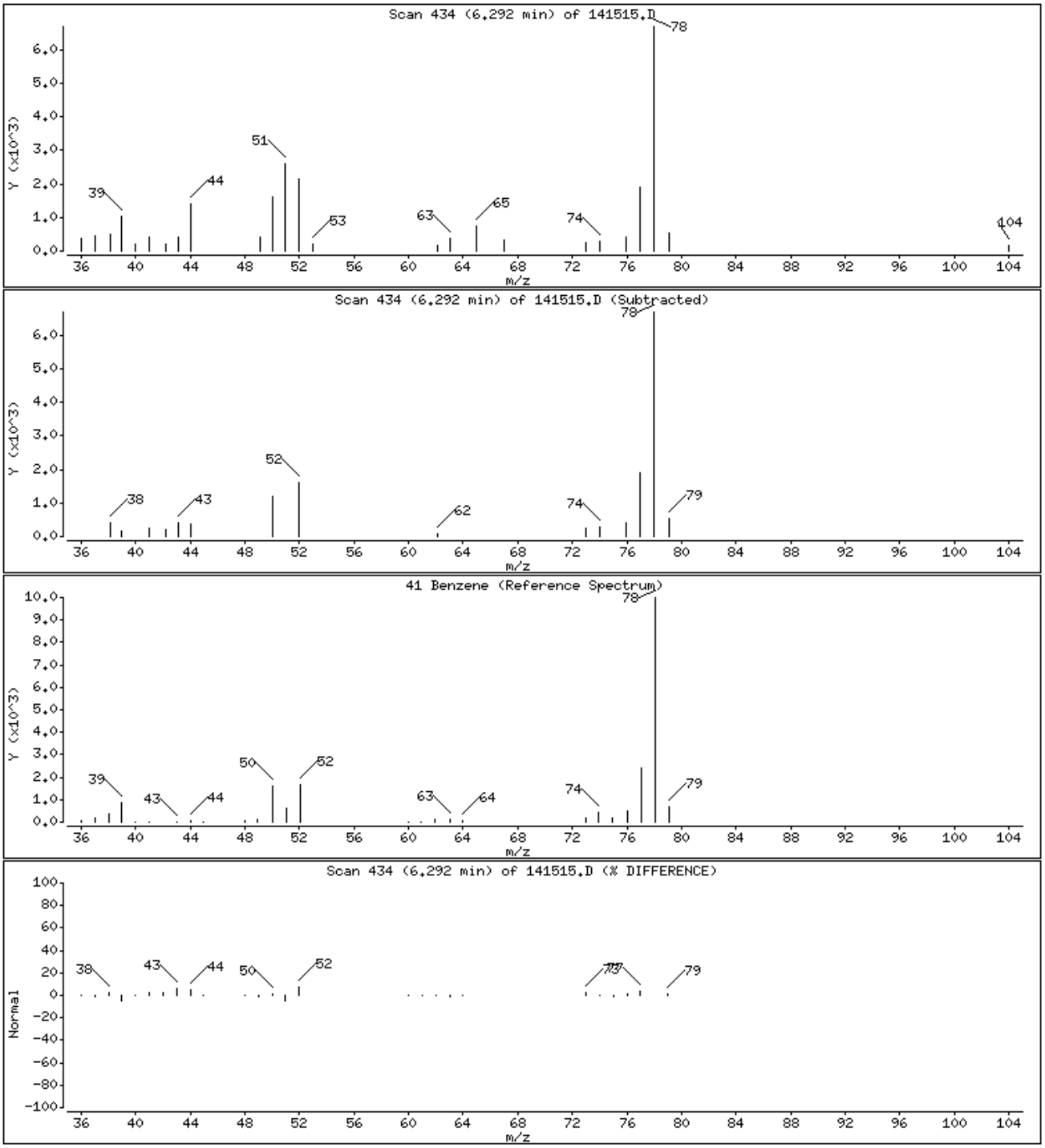
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 0.5242 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

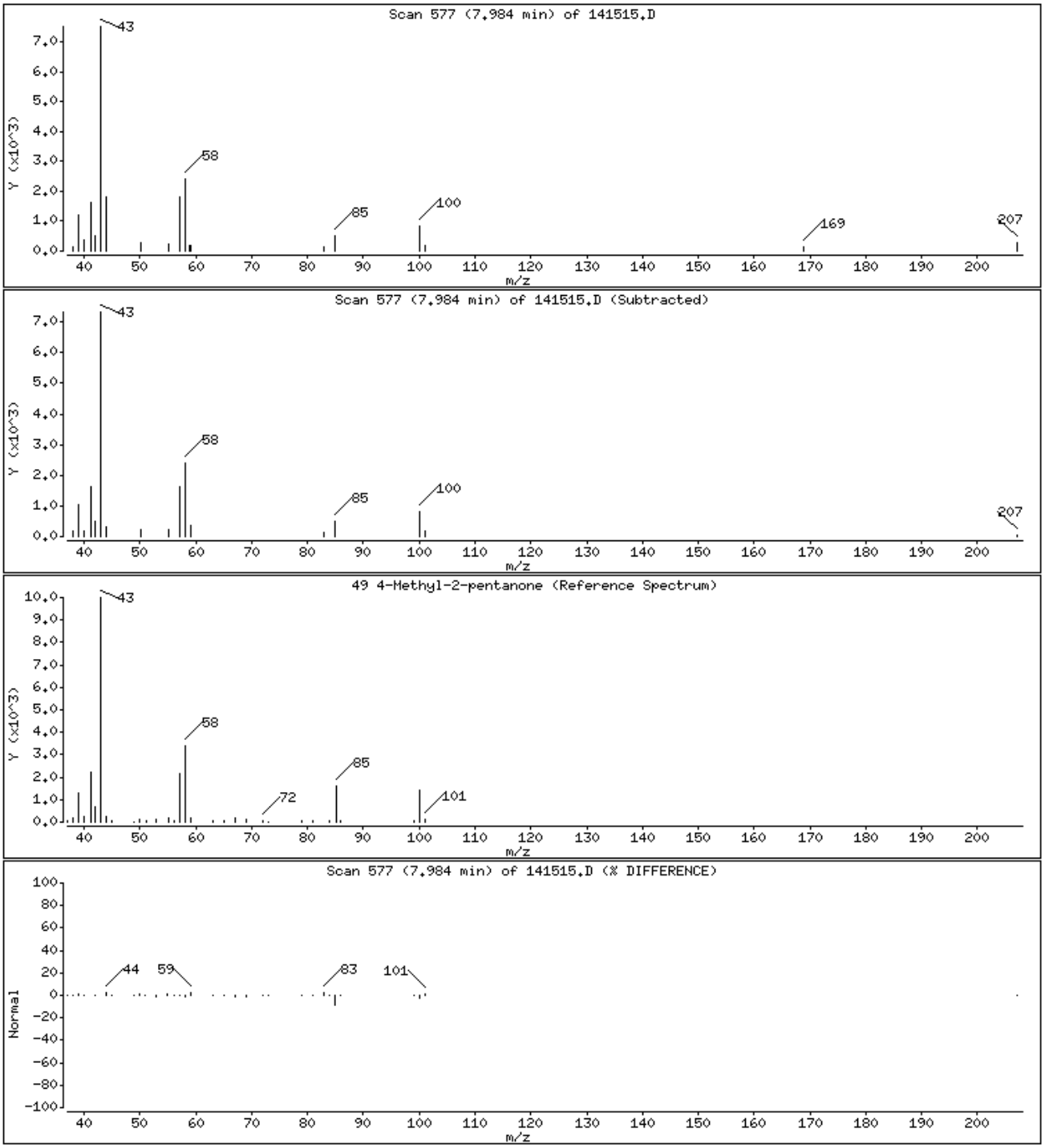
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 1.512 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

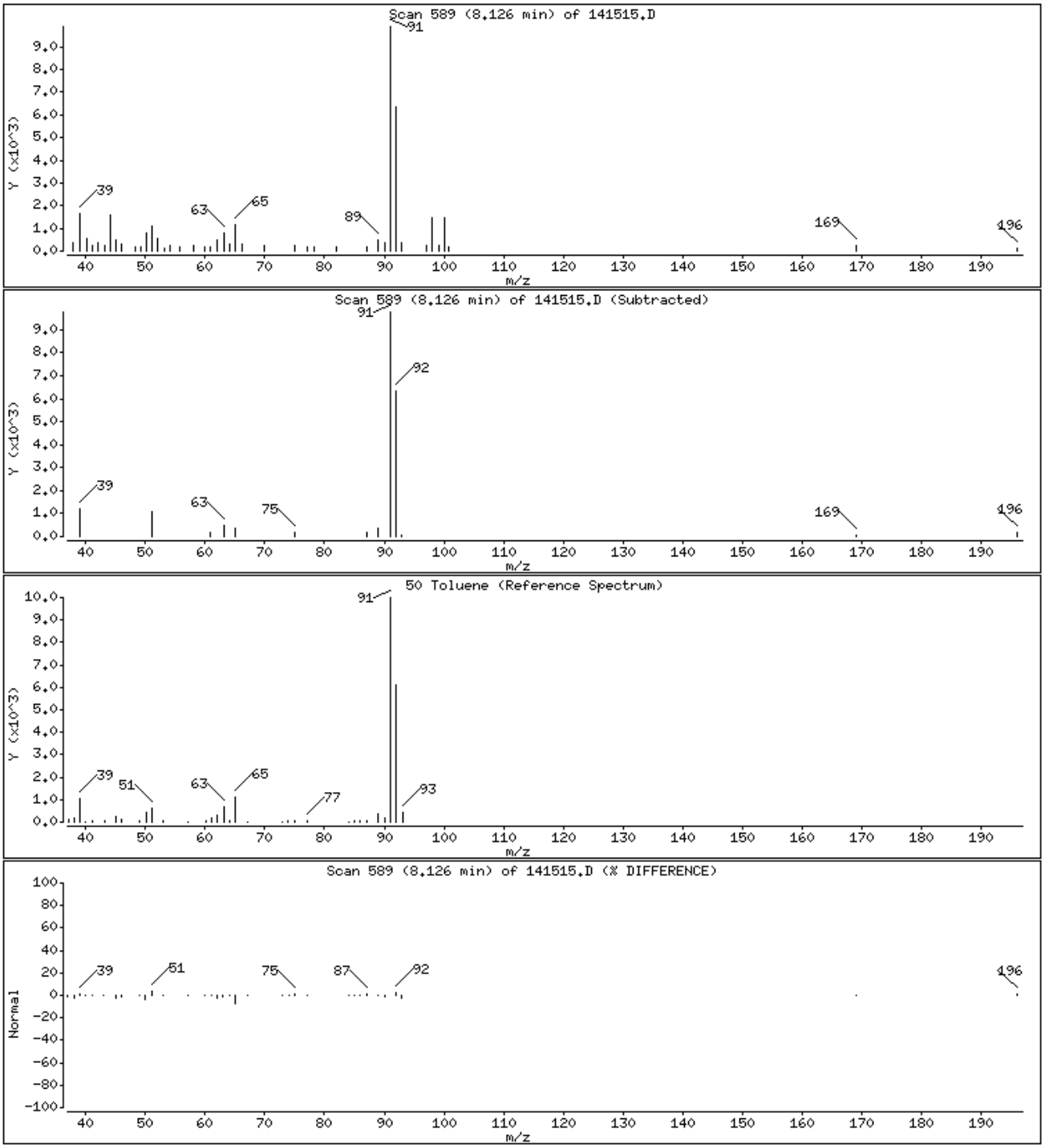
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

50 Toluene Concentration: 0.6133 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

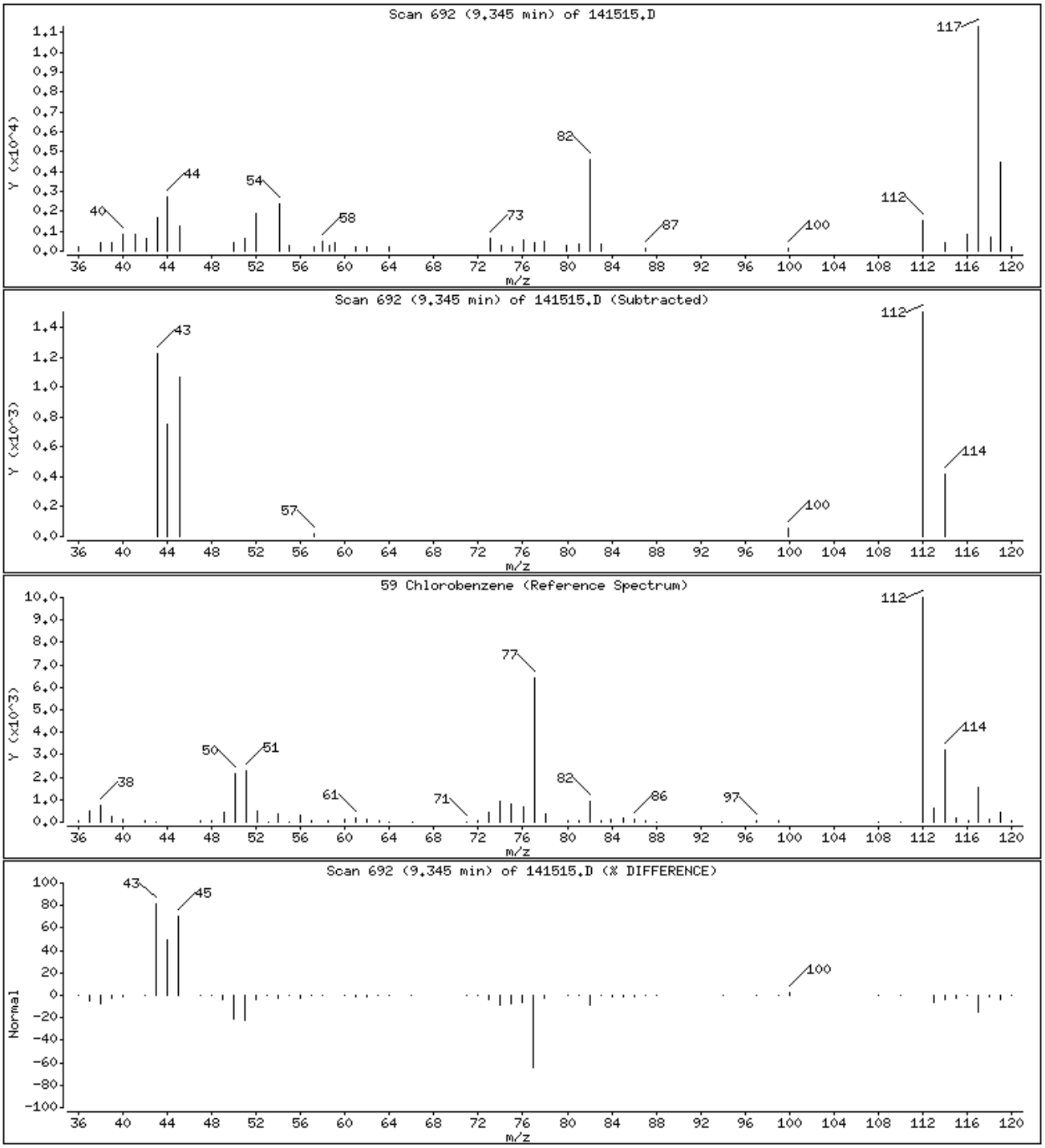
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

59 Chlorobenzene Concentration: 0.1377 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

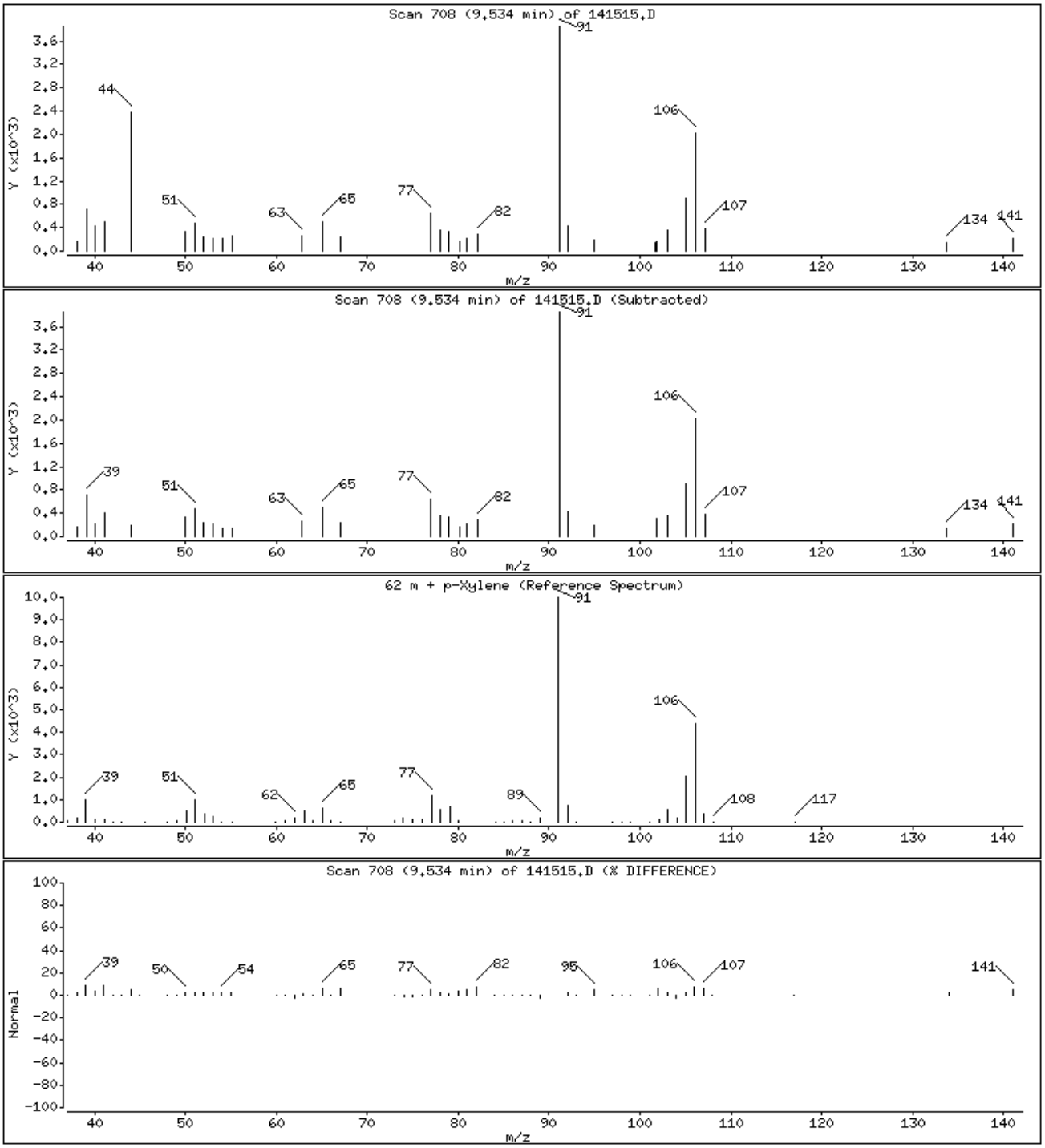
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

62 m + p-Xylene Concentration: 0.2647 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

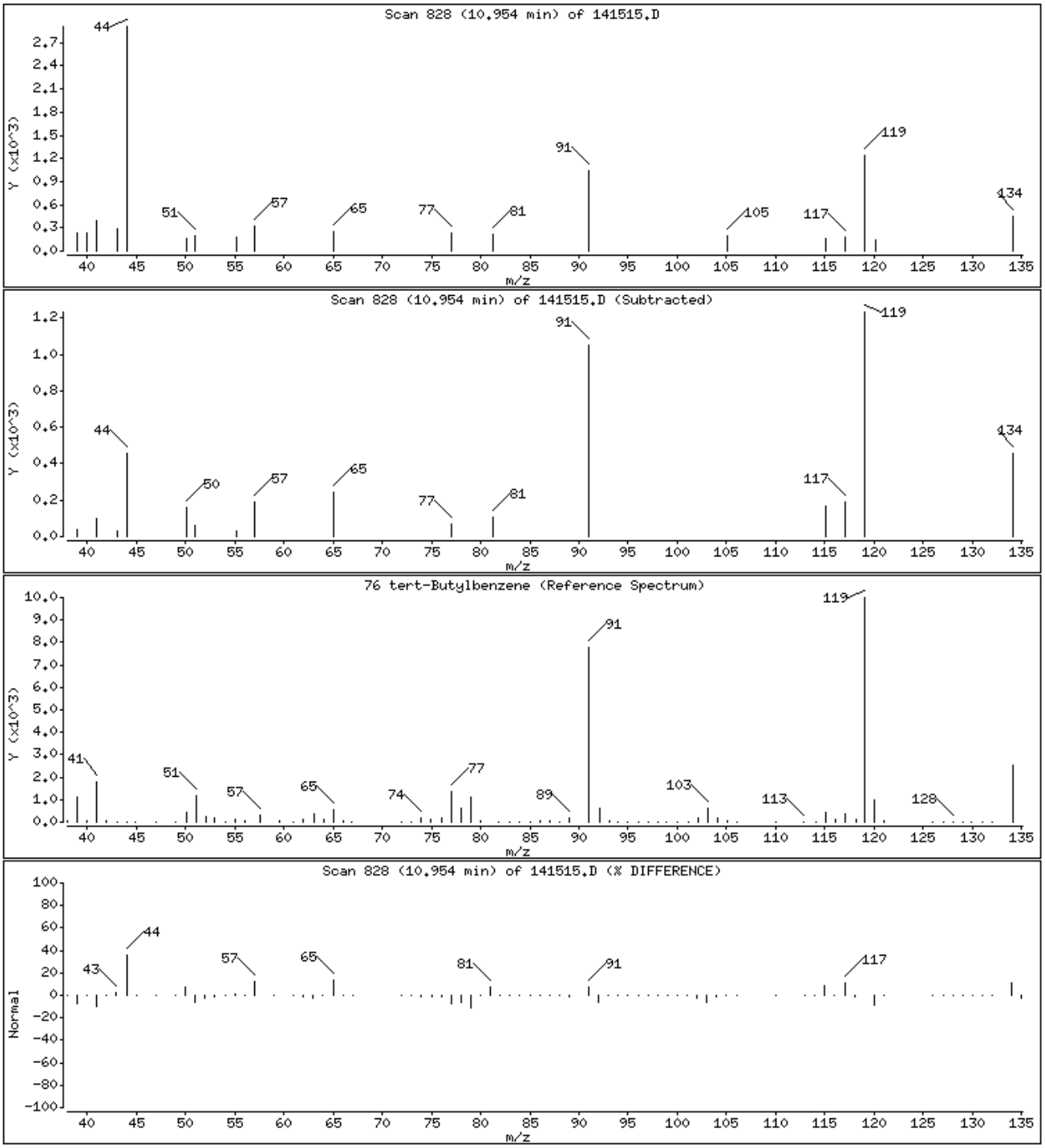
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

76 tert-Butylbenzene Concentration: 0.1168 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

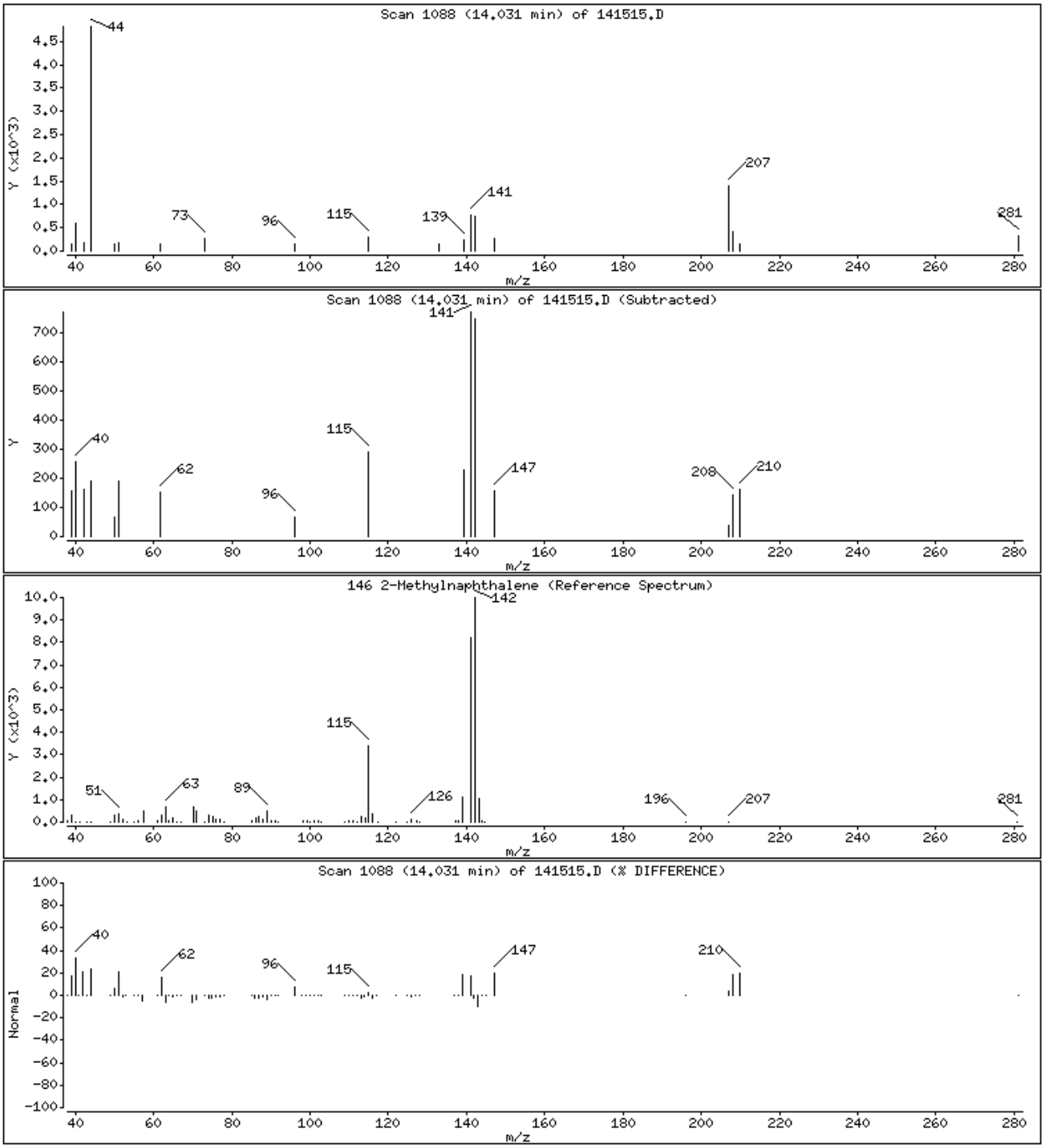
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

146 2-Methylnaphthalene Concentration: 1.740 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

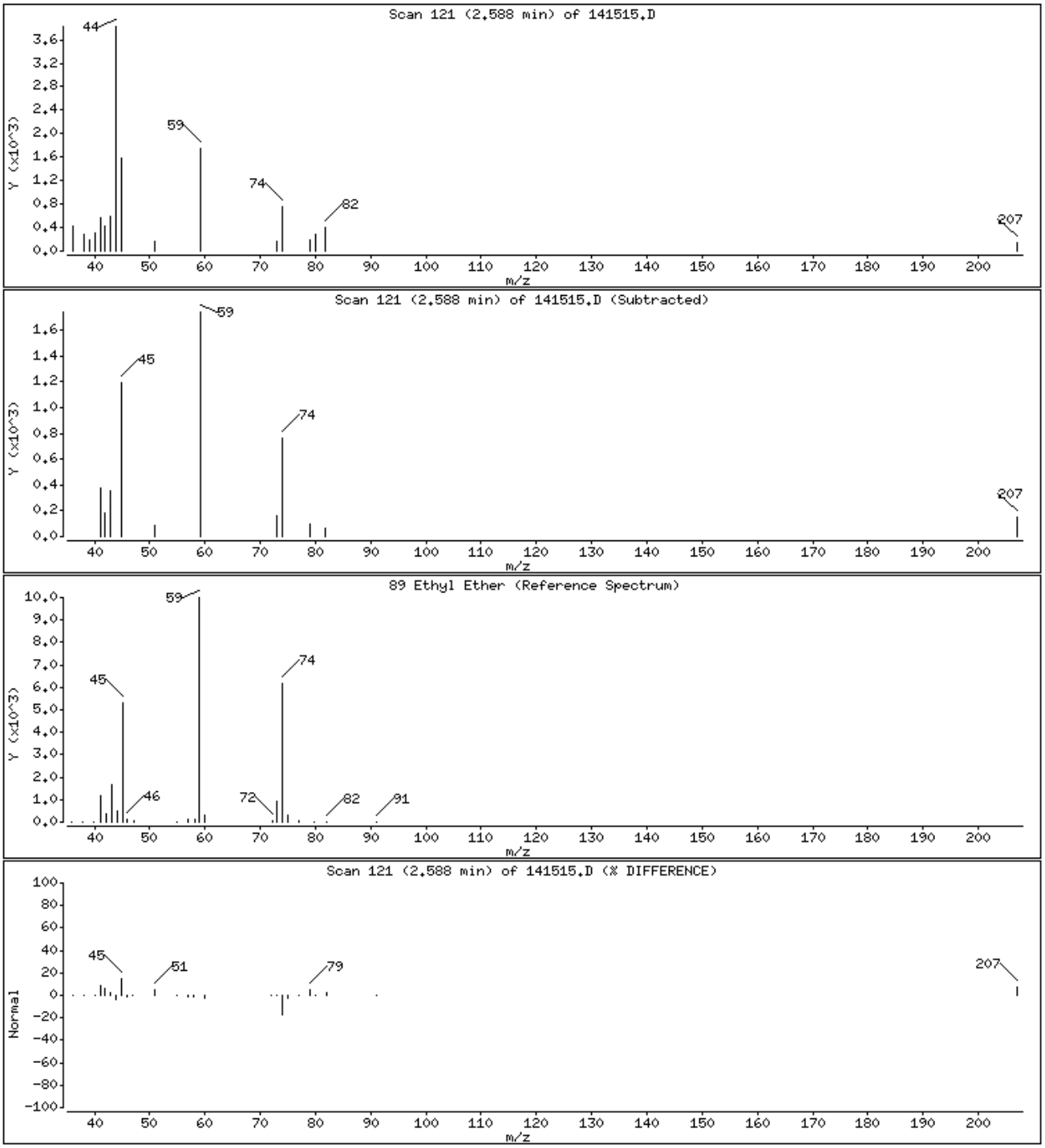
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

89 Ethyl Ether Concentration: 0.3871 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

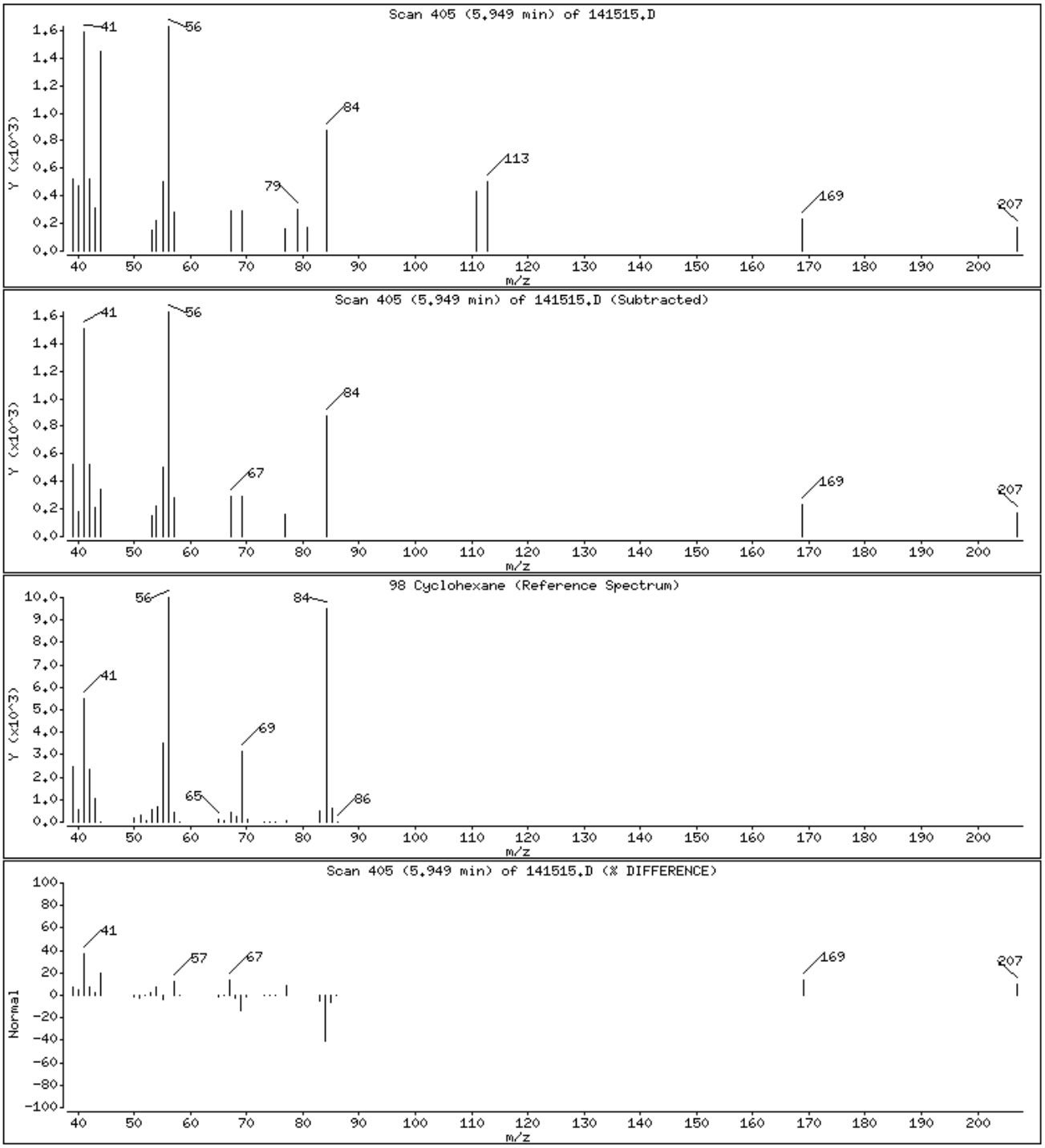
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

98 Cyclohexane Concentration: 0.1564 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141515.D

Date : 29-JUL-2010 15:34

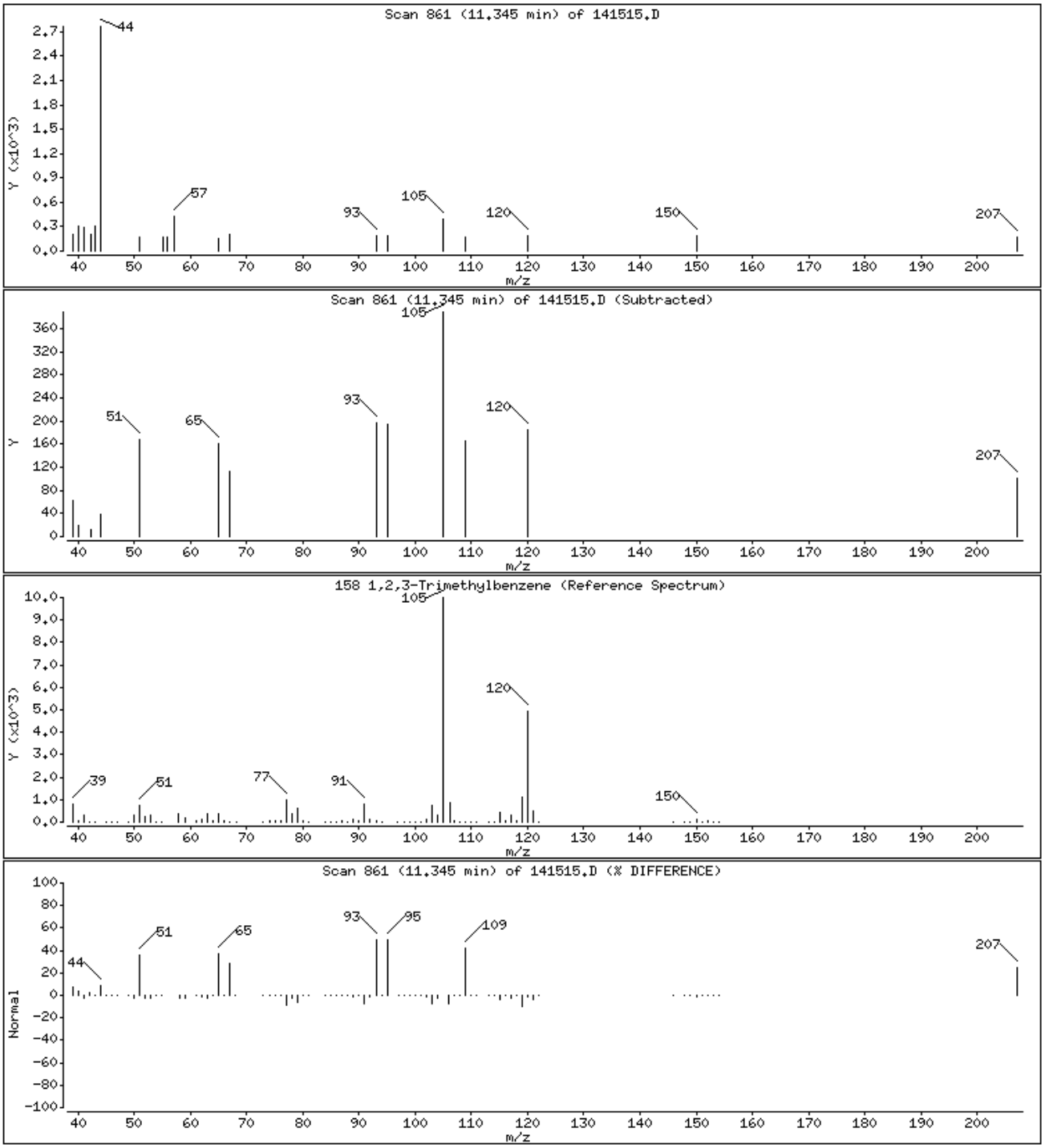
Client ID: SED 1 Instrument: a3ux14.i

Sample Info: L4K1V1AA,5.04G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

158 1,2,3-Trimethylbenzene Concentration: 0.03221 UG/KG



Cardinal Resources

Client Sample ID: SW DUP

GC/MS Volatiles

Lot-Sample #...: A0G230443-006 **Work Order #...:** L4K2Q1AA **Matrix.....:** WG
Date Sampled...: 07/22/10 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**3.6 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
1,2-Dichloroethane-d4	84	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: SW DUP

GC/MS Volatiles

Lot-Sample #...: A0G230443-006 **Work Order #...:** L4K2Q1AA **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D
Report Date: 02-Aug-2010 12:29

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D
Lab Smp Id: L4K2Q1AA Client Smp ID: SW DUP
Inj Date : 01-AUG-2010 17:12
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K2Q1AA,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1482856	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1029965	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	444232	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	421329	43.2153	8.643
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	732954	42.1077	8.422
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	1827709	44.0178	8.804
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	656712	43.6098	8.722
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.964	2.952	(0.554)	115000	18.2316	3.646
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D
Report Date: 02-Aug-2010 12:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D
Report Date: 02-Aug-2010 12:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
78 sec-Butylbenzene	105	Compound Not Detected.					
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	Compound Not Detected.					
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	Compound Not Detected.					
88 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	Compound Not Detected.					
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.419	4.431	(0.825)	29455	3.05421	0.6108
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
103 Cyclohexanone	55	Compound Not Detected.					
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	Compound Not Detected.					
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D
Report Date: 02-Aug-2010 12:29

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1170.D
Lab Smp Id: L4K2Q1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

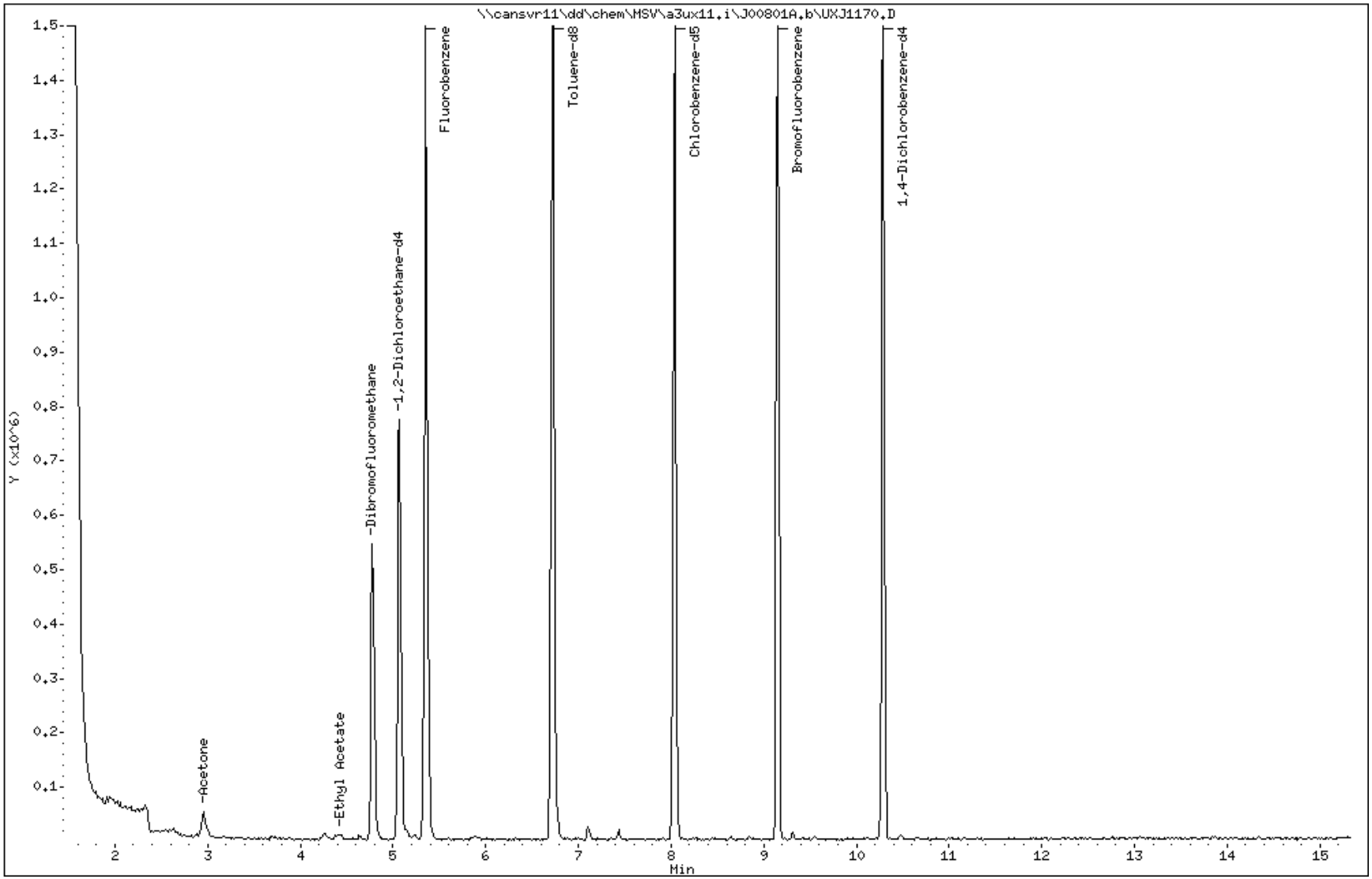
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: SW DUP
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1482856	-9.05
2 Chlorobenzene-d5	1193156	596578	2386312	1029965	-13.68
3 1,4-Dichlorobenze	593165	296583	1186330	444232	-25.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D
Date : 01-AUG-2010 17:12
Client ID: SW DUP
Instrument: a3ux11.i
Sample Info: L4K2Q1AA,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D

Date : 01-AUG-2010 17:12

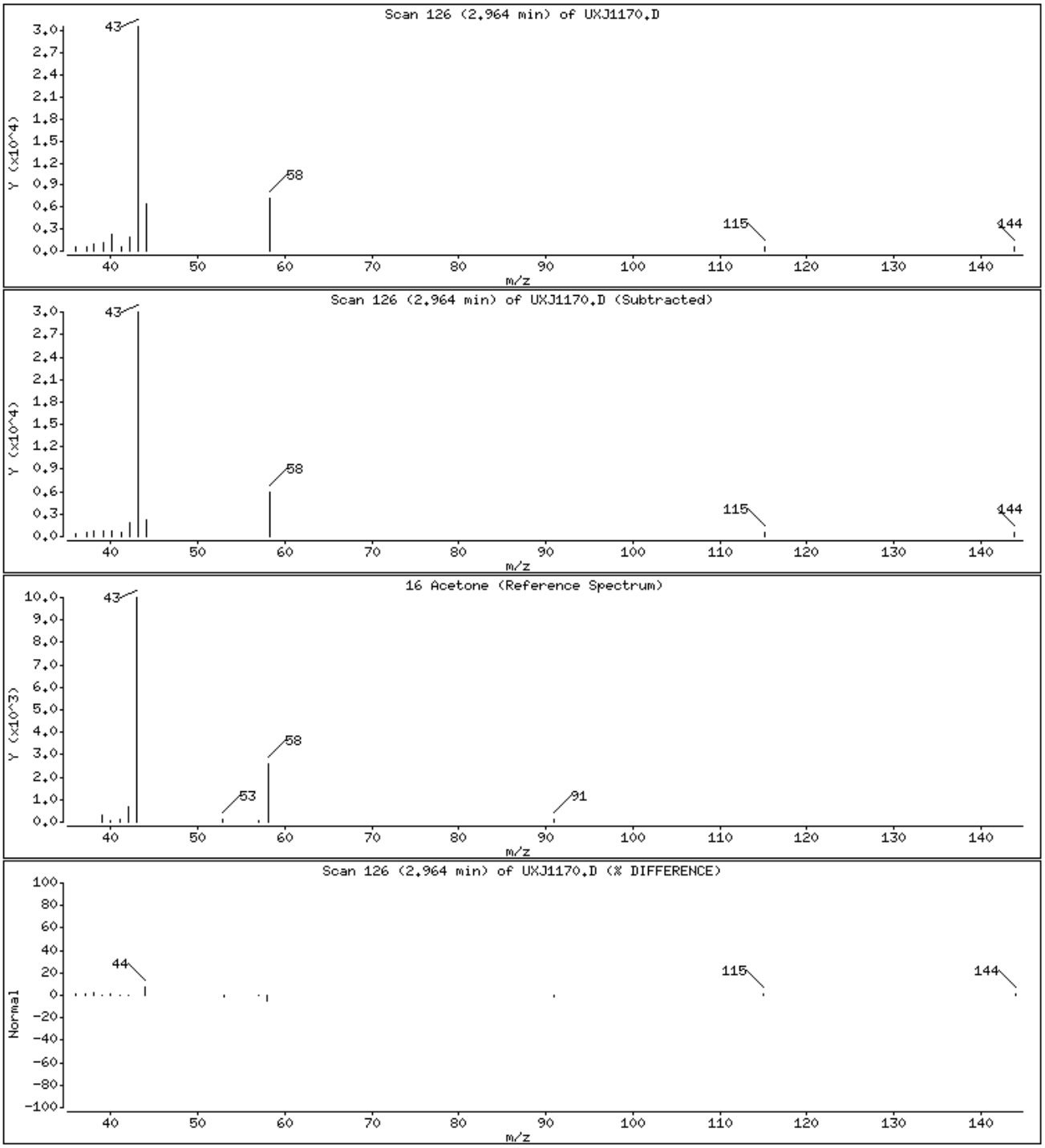
Client ID: SW DUP | Instrument: a3ux11.i

Sample Info: L4K2Q1AA,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 3.646 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1170.D

Date : 01-AUG-2010 17:12

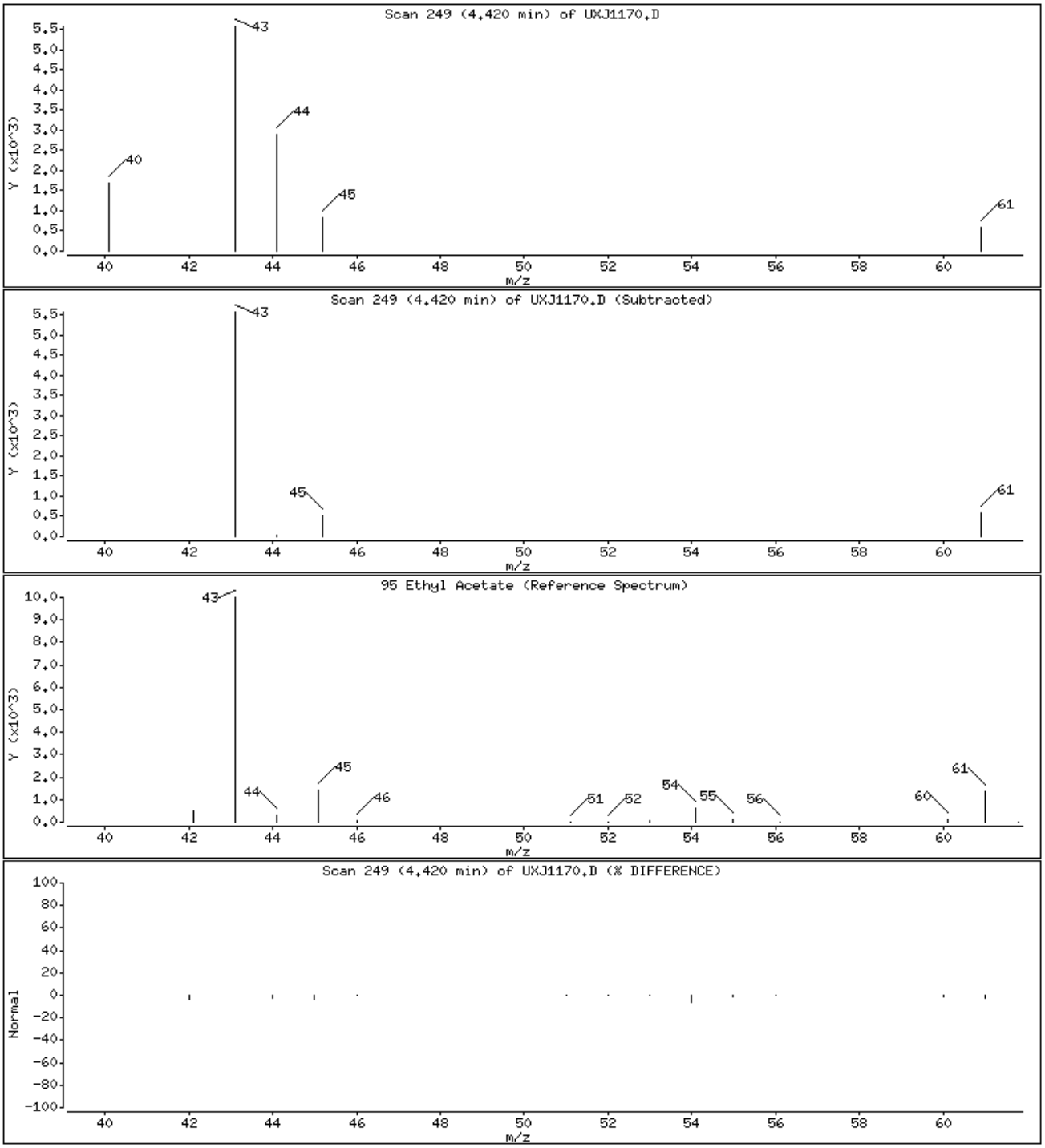
Client ID: SW DUP | Instrument: a3ux11.i

Sample Info: L4K2Q1AA,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

95 Ethyl Acetate | Concentration: 0.6108 ug/L



Cardinal Resources

Client Sample ID: SED DUP

GC/MS Volatiles

Lot-Sample #...: A0G230443-007 **Work Order #...:** L4K2R1AA **Matrix.....:** SO
Date Sampled...: 07/22/10 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1.06 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 66 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**85**	**62**	**ug/kg**
Benzene	ND	15	ug/kg
Bromodichloromethane	ND	15	ug/kg
Bromoform	ND	15	ug/kg
Bromomethane	ND	15	ug/kg
2-Butanone	ND	62	ug/kg
Carbon disulfide	ND	15	ug/kg
Carbon tetrachloride	ND	15	ug/kg
Chlorobenzene	ND	15	ug/kg
Dibromochloromethane	ND	15	ug/kg
1,2-Dibromo-3-chloro-propane	ND	31	ug/kg
Chloroethane	ND	15	ug/kg
Chloroform	ND	15	ug/kg
Chloromethane	ND	15	ug/kg
Cyclohexane	ND	31	ug/kg
1,2-Dibromoethane	ND	15	ug/kg
1,2-Dichlorobenzene	ND	15	ug/kg
1,3-Dichlorobenzene	ND	15	ug/kg
1,4-Dichlorobenzene	ND	15	ug/kg
Dichlorodifluoromethane	ND	15	ug/kg
1,1-Dichloroethane	ND	15	ug/kg
1,2-Dichloroethane	ND	15	ug/kg
1,1-Dichloroethene	ND	15	ug/kg
cis-1,2-Dichloroethene	ND	15	ug/kg
trans-1,2-Dichloroethene	ND	15	ug/kg
1,2-Dichloropropane	ND	15	ug/kg
cis-1,3-Dichloropropene	ND	15	ug/kg
trans-1,3-Dichloropropene	ND	15	ug/kg
Ethylbenzene	ND	15	ug/kg
Trichlorofluoromethane	ND	15	ug/kg
2-Hexanone	ND	62	ug/kg
Isopropylbenzene	ND	15	ug/kg
Methyl acetate	ND	31	ug/kg
Methylcyclohexane	ND	31	ug/kg
Methylene chloride	ND	15	ug/kg
4-Methyl-2-pentanone	ND	62	ug/kg
Styrene	ND	15	ug/kg

(Continued on next page)

Cardinal Resources

Client Sample ID: SED DUP

GC/MS Volatiles

Lot-Sample #...: A0G230443-007 **Work Order #...:** L4K2R1AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	15	ug/kg
Tetrachloroethene	ND	15	ug/kg
Toluene	ND	15	ug/kg
1,2,4-Trichloro-benzene	ND	15	ug/kg
1,1,1-Trichloroethane	ND	15	ug/kg
1,1,2-Trichloroethane	ND	15	ug/kg
Trichloroethene	ND	15	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	15	ug/kg
Vinyl chloride	ND	15	ug/kg
Xylenes (total)	ND	31	ug/kg
Methyl tert-butyl ether	ND	62	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	100	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D
Report Date: 30-Jul-2010 09:18

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D
Lab Smp Id: L4K2R1AA Client Smp ID: SED DUP
Inj Date : 29-JUL-2010 20:12
Operator : 2807 Inst ID: a3ux14.i
Smp Info : L4K2R1AA,4.71G/5ML
Misc Info : R00729A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	4.710	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1528781	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1074816	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	617046	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	395877	201.419	42.764
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	440687	217.126	46.099
$ 6 Toluene-d8	98	8.066	8.066	(0.865)	1420301	242.301	51.444
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	466782	250.569	53.199
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.919	2.919	(0.443)	118885	137.526	29.199
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	3.487	3.487	(0.529)	50463	18.3407	3.894

22 Acetonitrile	41	3.286	3.274 (0.499)	6390	24.1057	5.118
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D
Report Date: 30-Jul-2010 09:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.369	5.357	(0.815)	46281	46.8733	9.952
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	6.291	6.292	(0.955)	5606	1.00473	0.2133
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	7604	4.33170	0.9197
	50 Toluene	91	8.126	8.126	(0.872)	8191	1.41980	0.3014
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D
Report Date: 30-Jul-2010 09:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	3055	9.15212	1.943
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.487	5.463	(0.833)	5451	2.92865	0.6218
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	6.942	6.942	(1.054)	234	5.90339	1.253
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.356	11.356	(1.006)	443	0.08264	0.01754(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D
Report Date: 30-Jul-2010 09:18

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141528.D
Lab Smp Id: L4K2R1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807

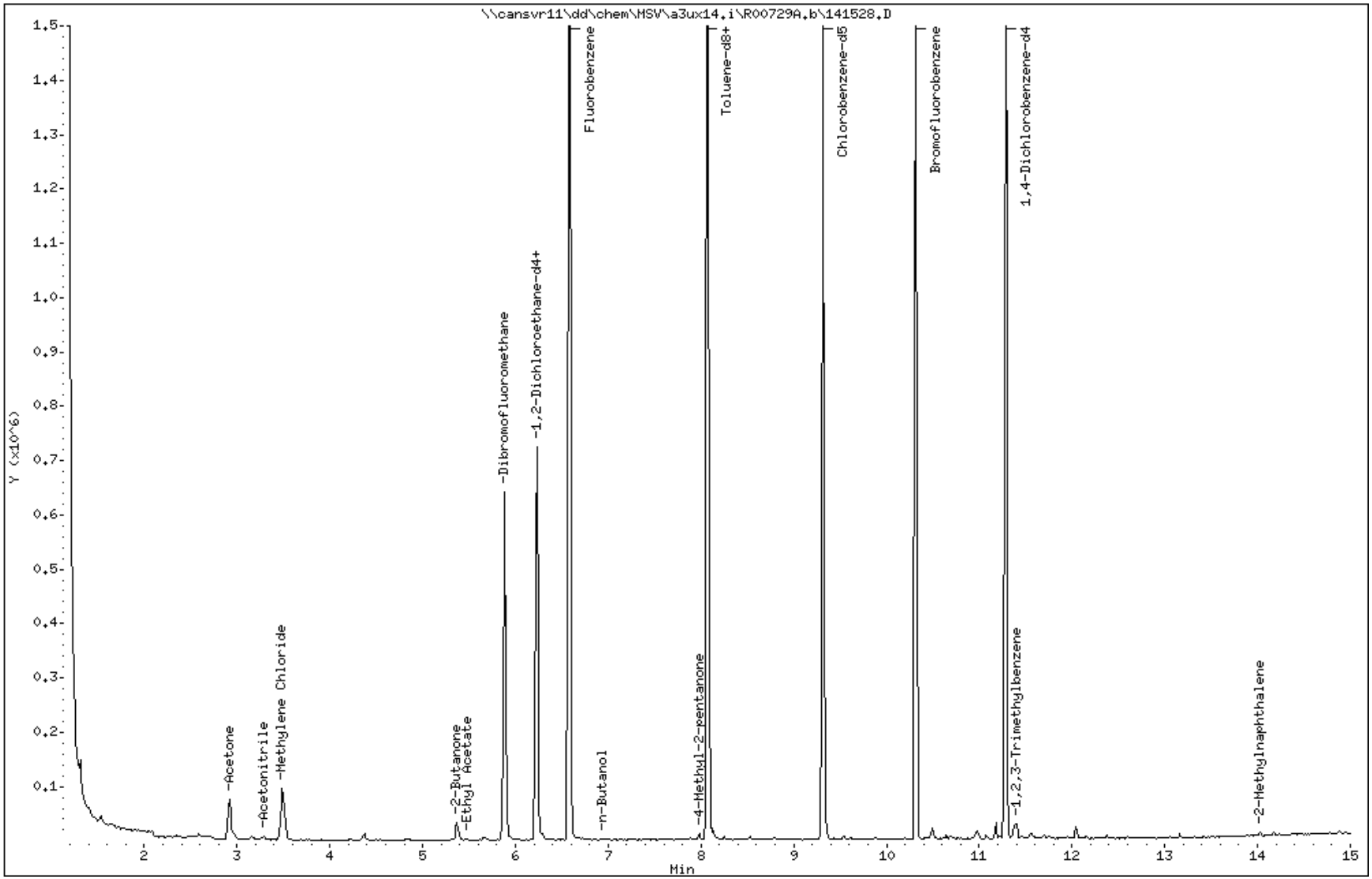
Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Client Smp ID: SED DUP
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1528781	-2.26
2 Chlorobenzene-d5	1117515	558758	2235030	1074816	-3.82
3 1,4-Dichlorobenze	636663	318332	1273326	617046	-3.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D
Date : 29-JUL-2010 20:12
Client ID: SED DUP
Instrument: a3ux14.i
Sample Info: L4K2R1AA,4.71G/5ML
Purge Volume: 4.7
Operator: 2807
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

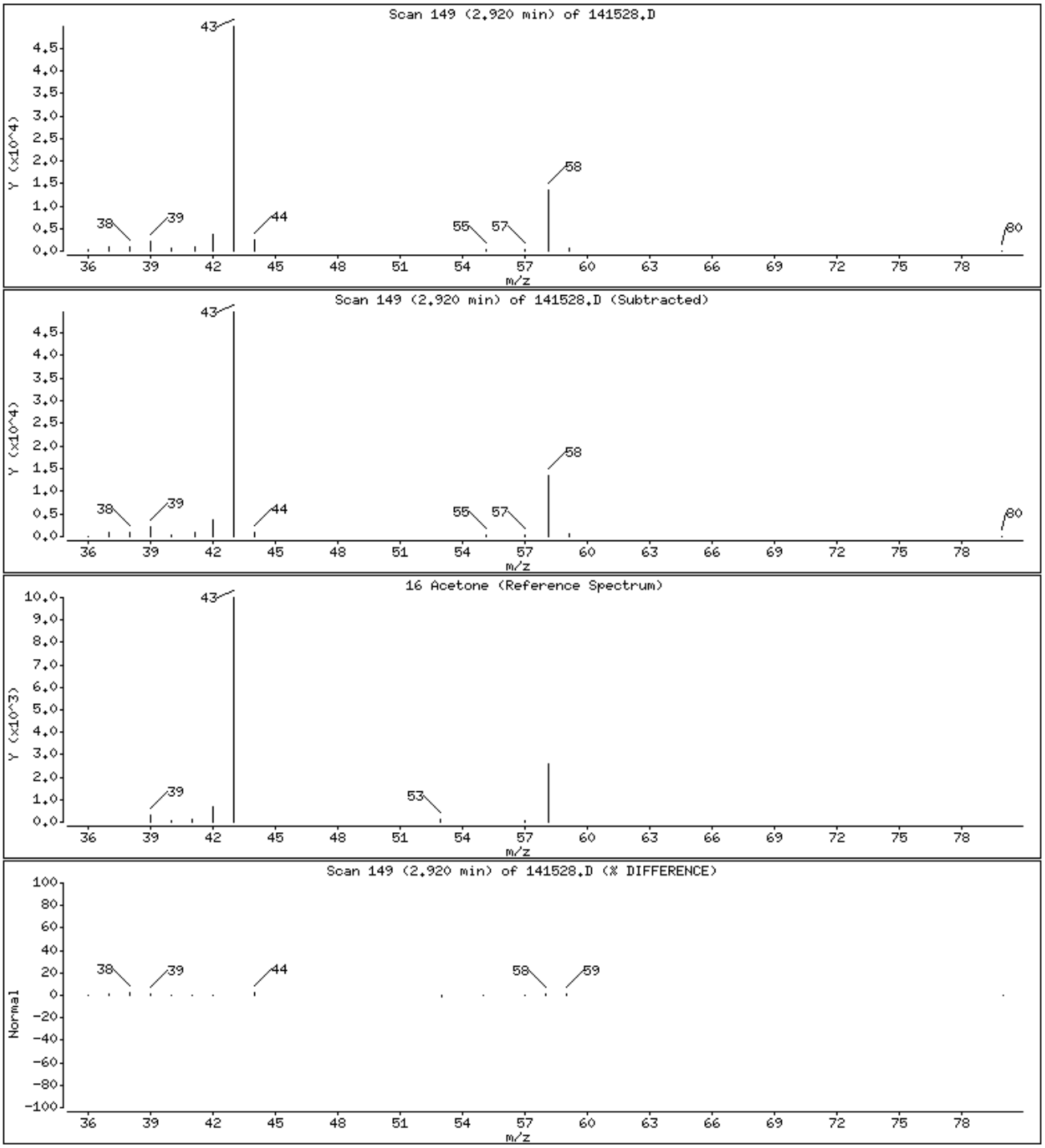
Operator: 2807

Column phase: DB624

Column diameter: 0.18

16 Acetone

Concentration: 29.199 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

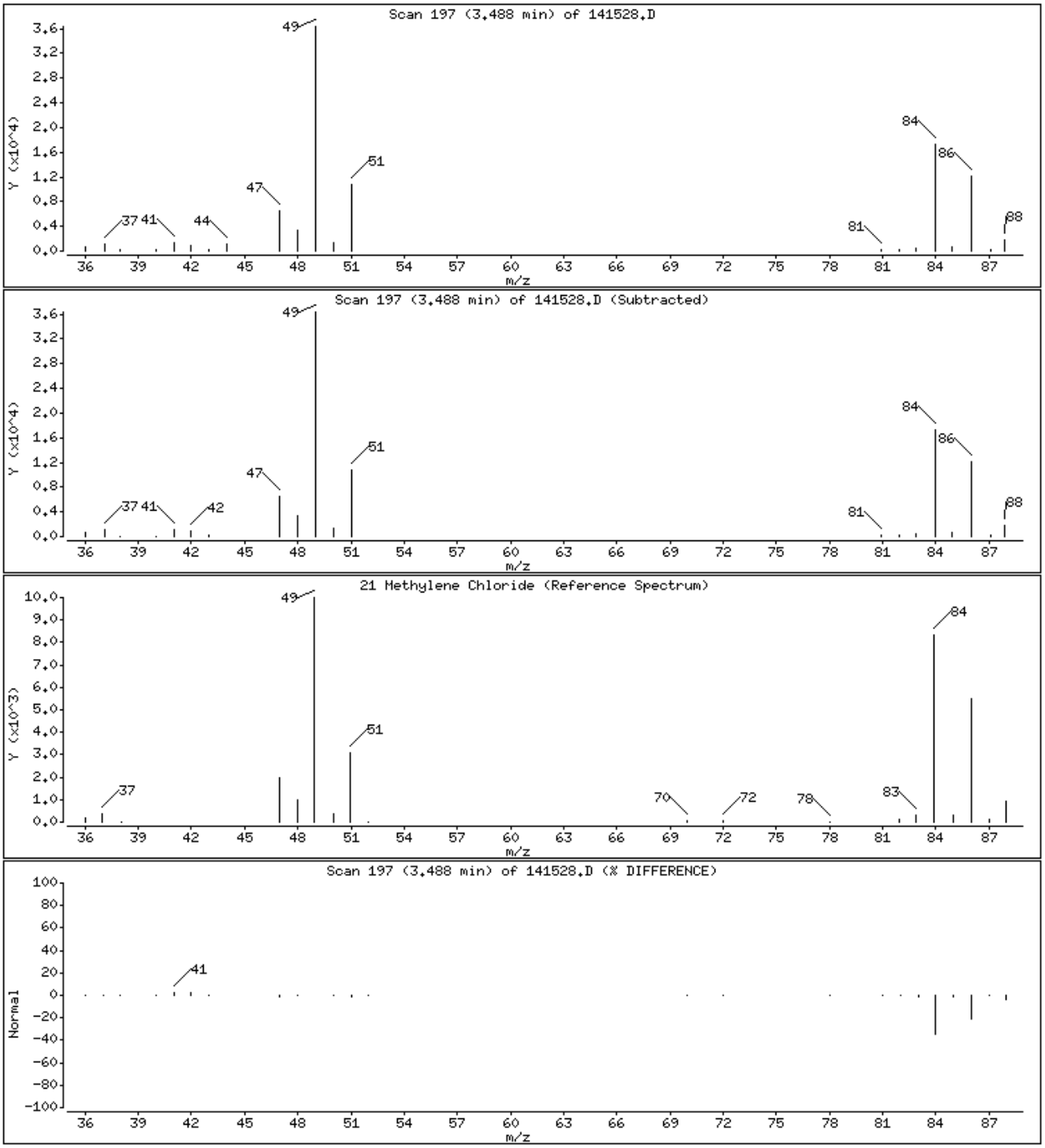
Operator: 2807

Column phase: DB624

Column diameter: 0.18

21 Methylene Chloride

Concentration: 3.894 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

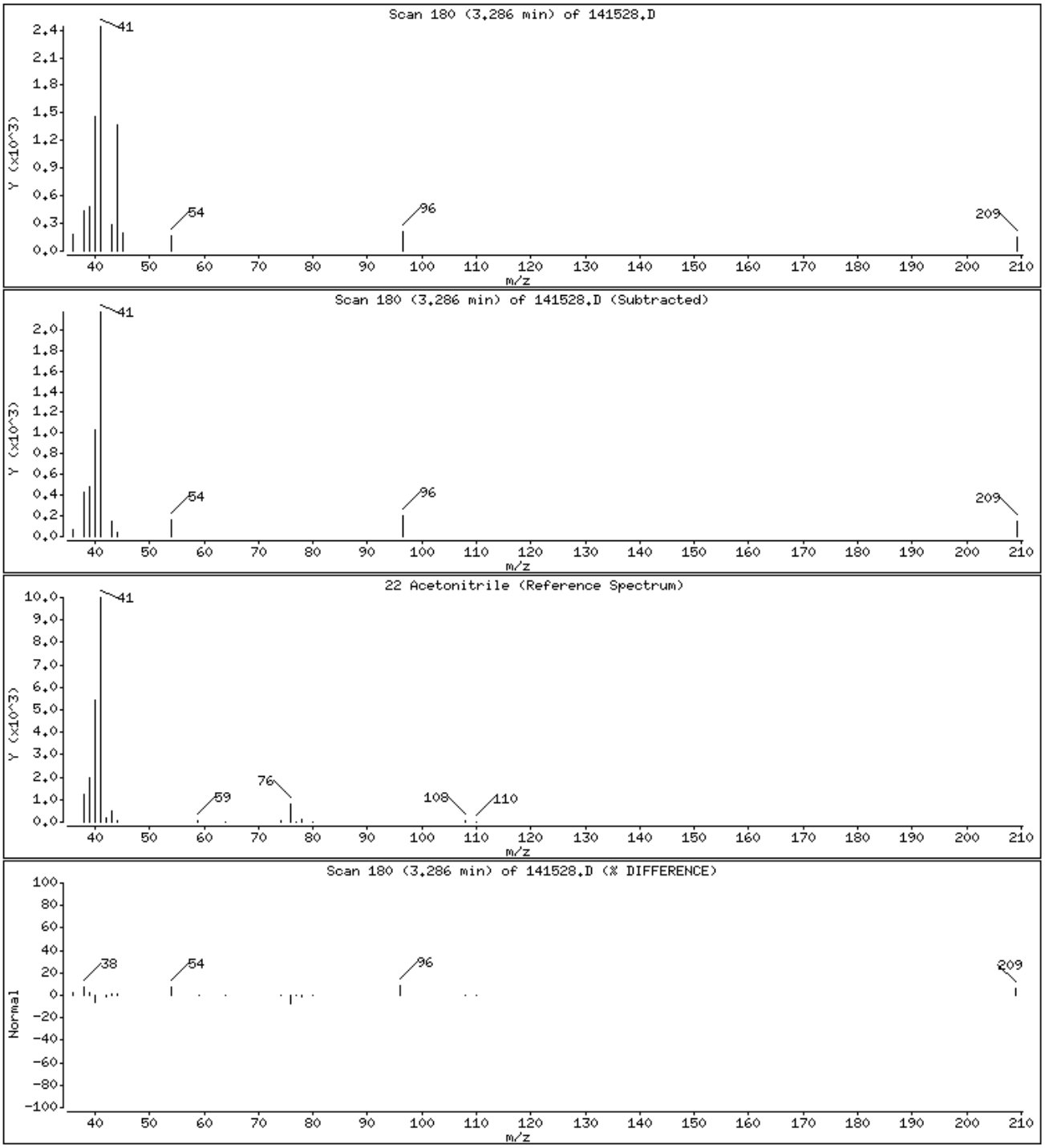
Client ID: SED DUP | Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

22 Acetonitrile | Concentration: 5.118 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

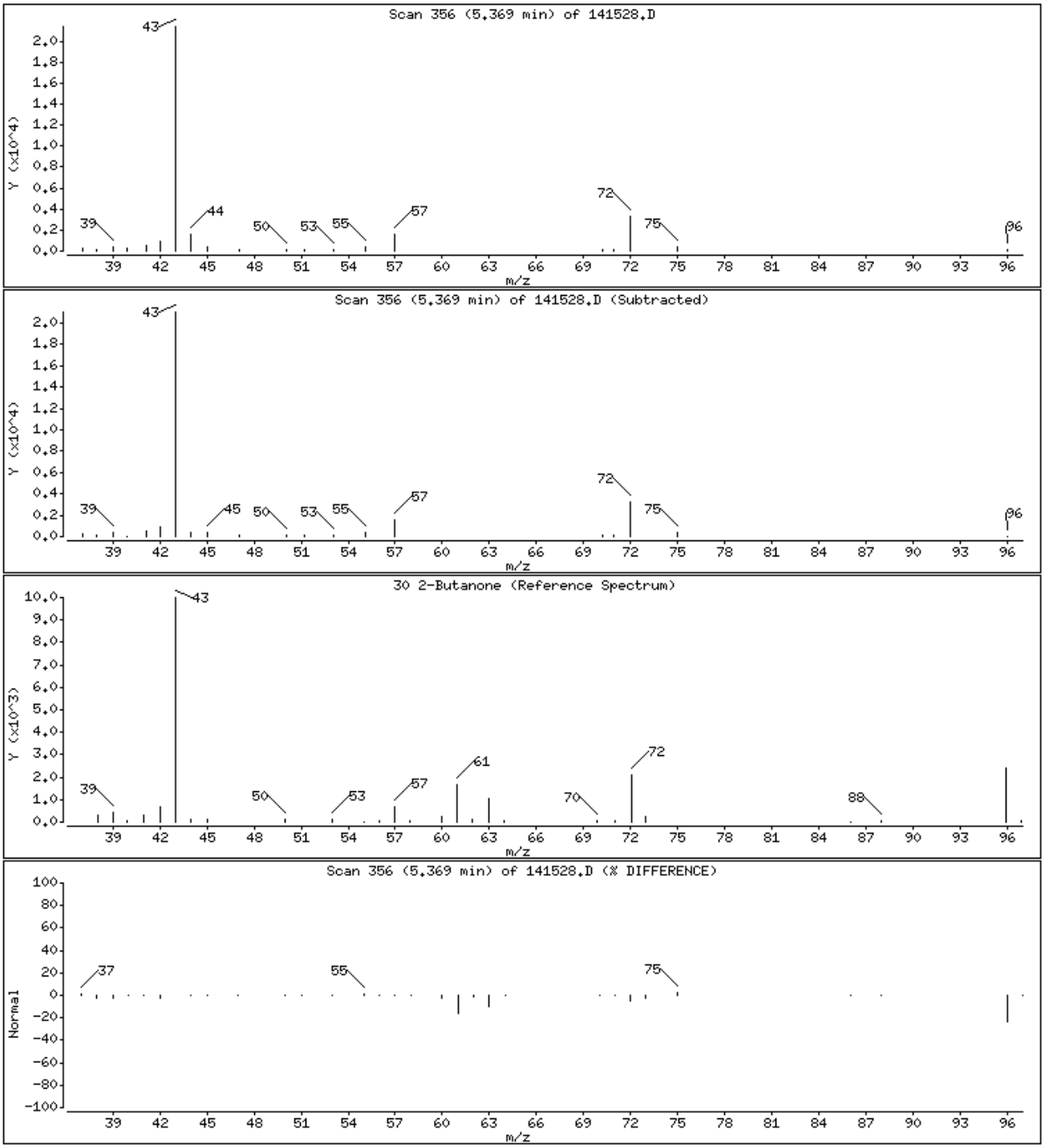
Operator: 2807

Column phase: DB624

Column diameter: 0.18

30 2-Butanone

Concentration: 9.952 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

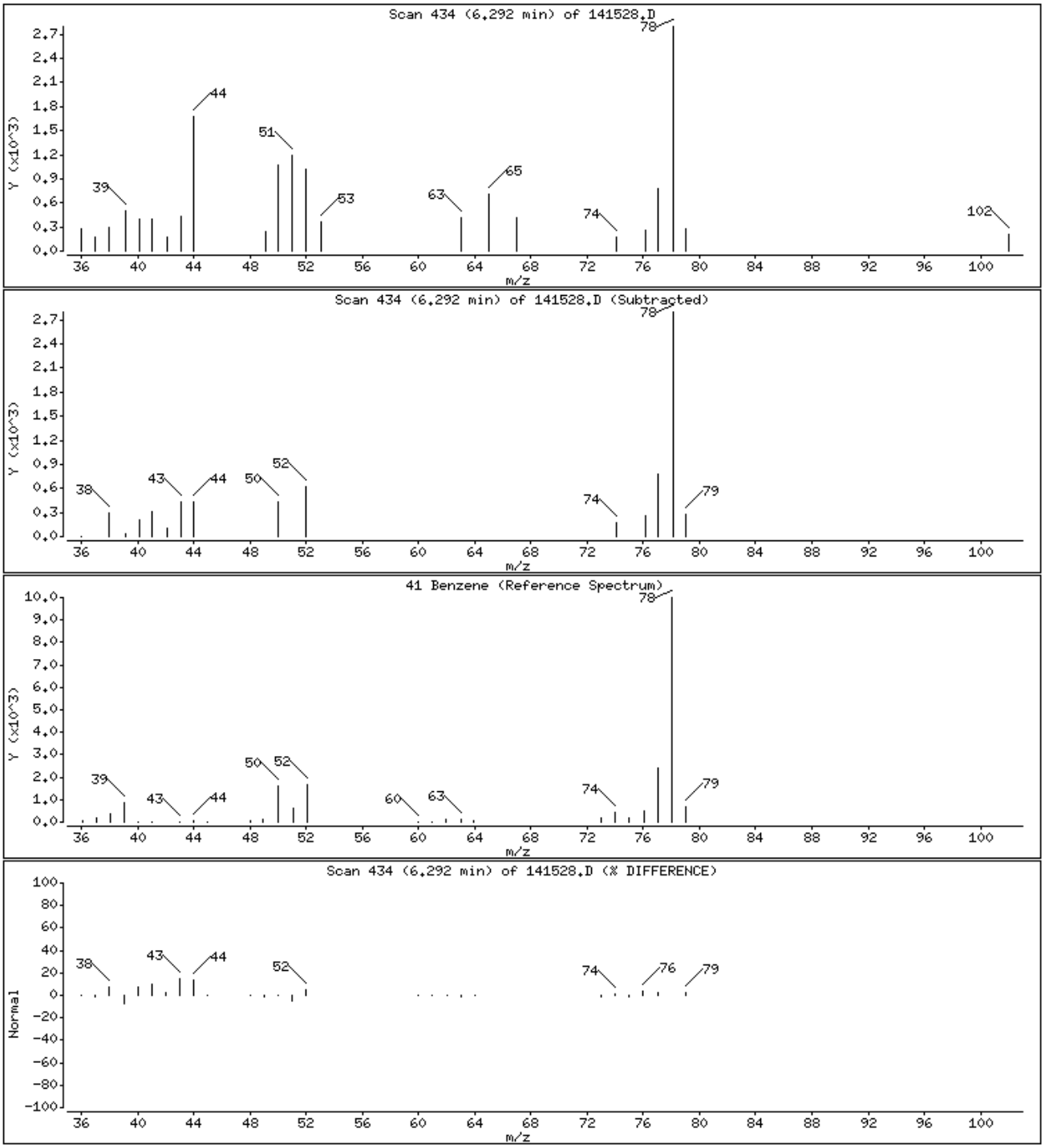
Operator: 2807

Column phase: DB624

Column diameter: 0.18

41 Benzene

Concentration: 0.2133 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

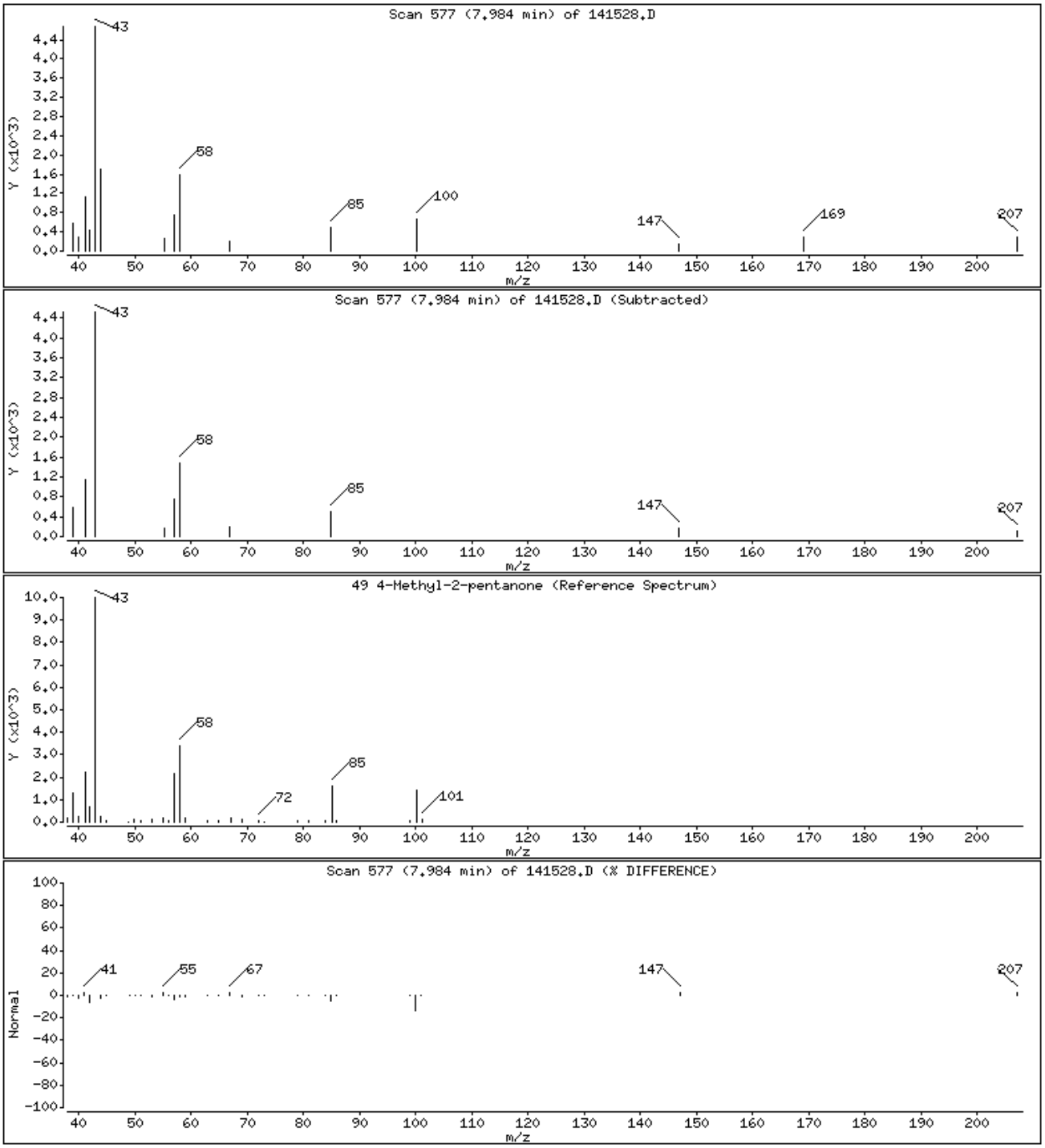
Operator: 2807

Column phase: DB624

Column diameter: 0.18

49 4-Methyl-2-pentanone

Concentration: 0.9197 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

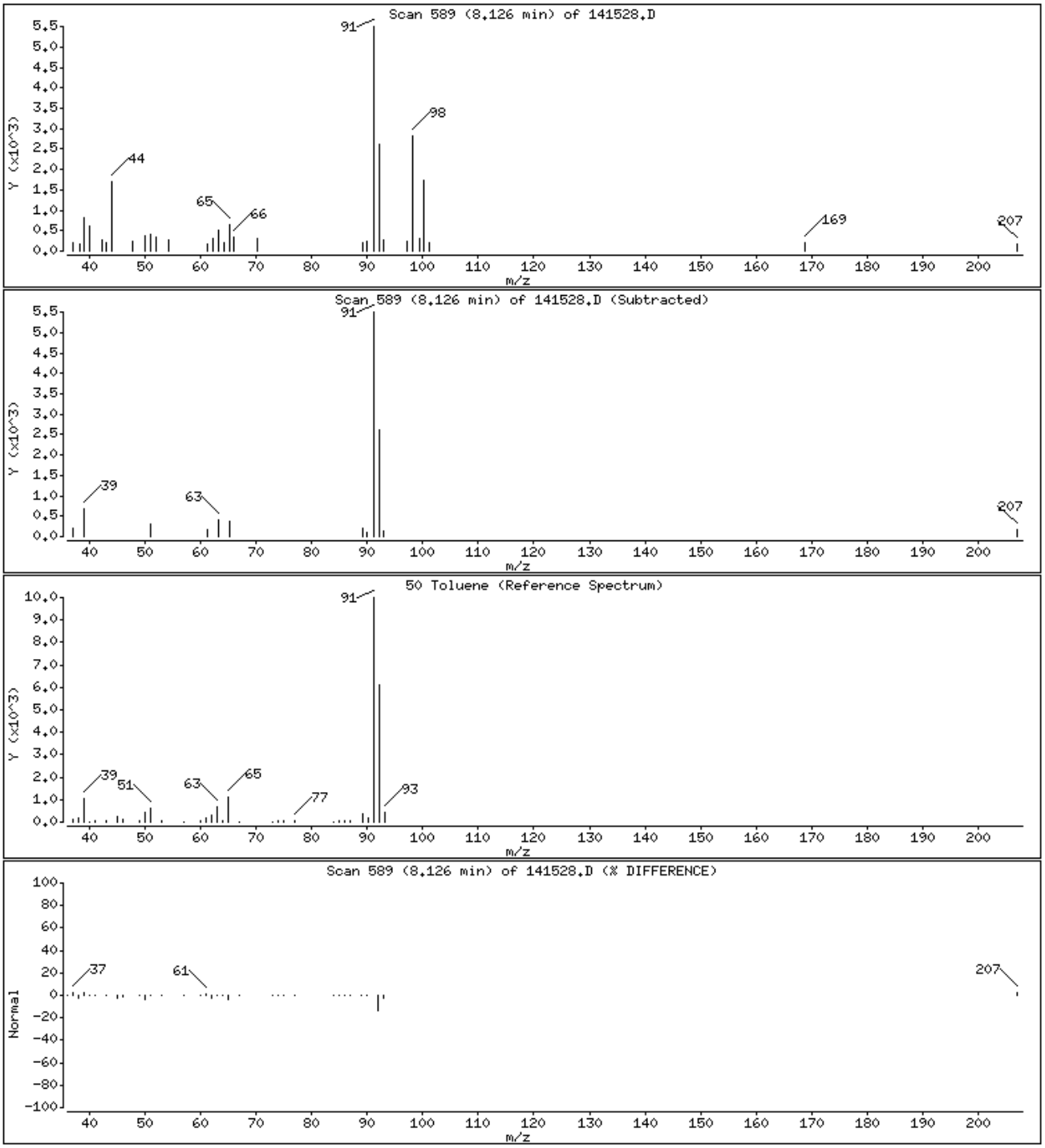
Operator: 2807

Column phase: DB624

Column diameter: 0.18

50 Toluene

Concentration: 0.3014 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

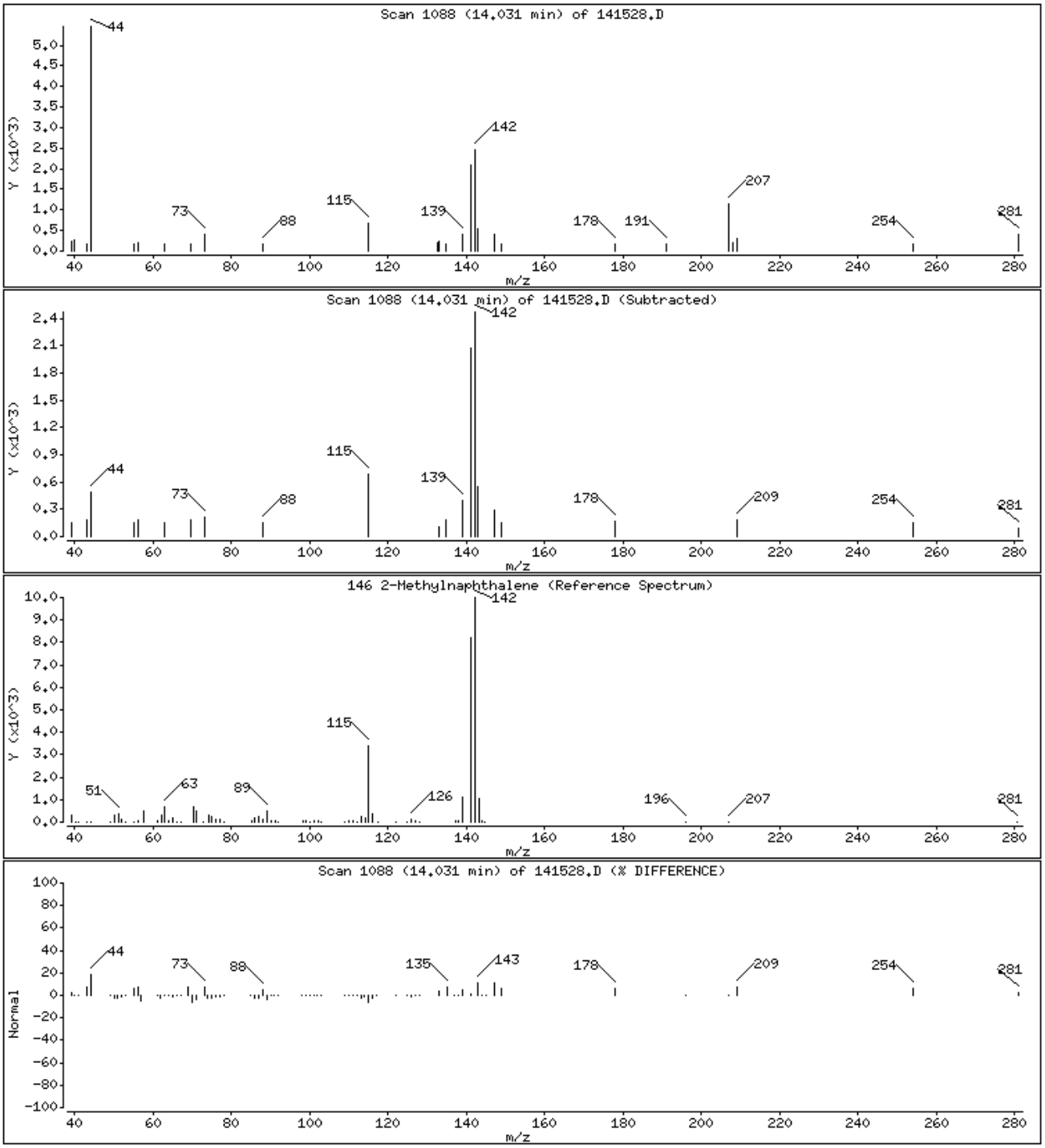
Operator: 2807

Column phase: DB624

Column diameter: 0.18

146 2-Methylnaphthalene

Concentration: 1.943 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

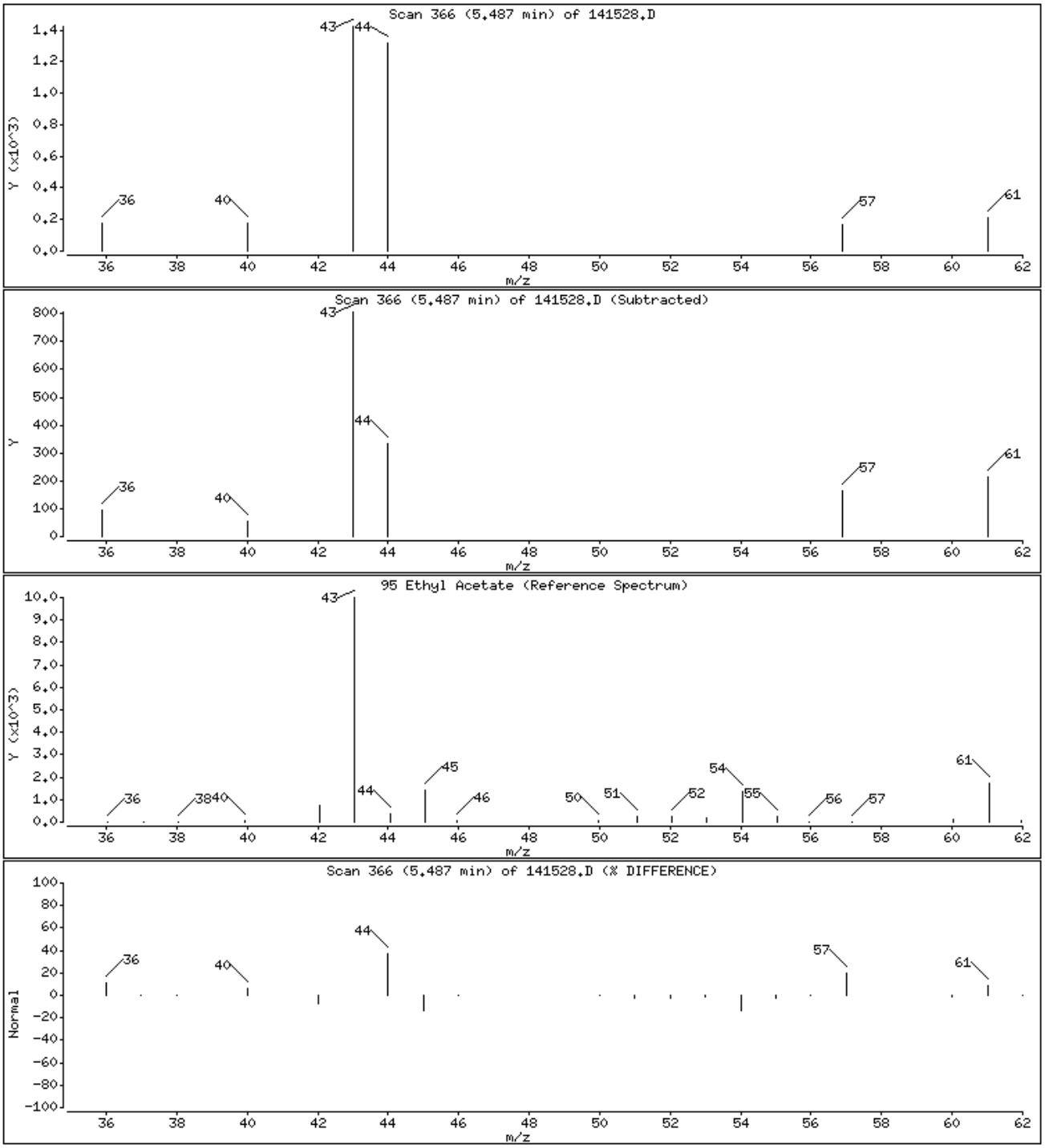
Operator: 2807

Column phase: DB624

Column diameter: 0.18

95 Ethyl Acetate

Concentration: 0.6218 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

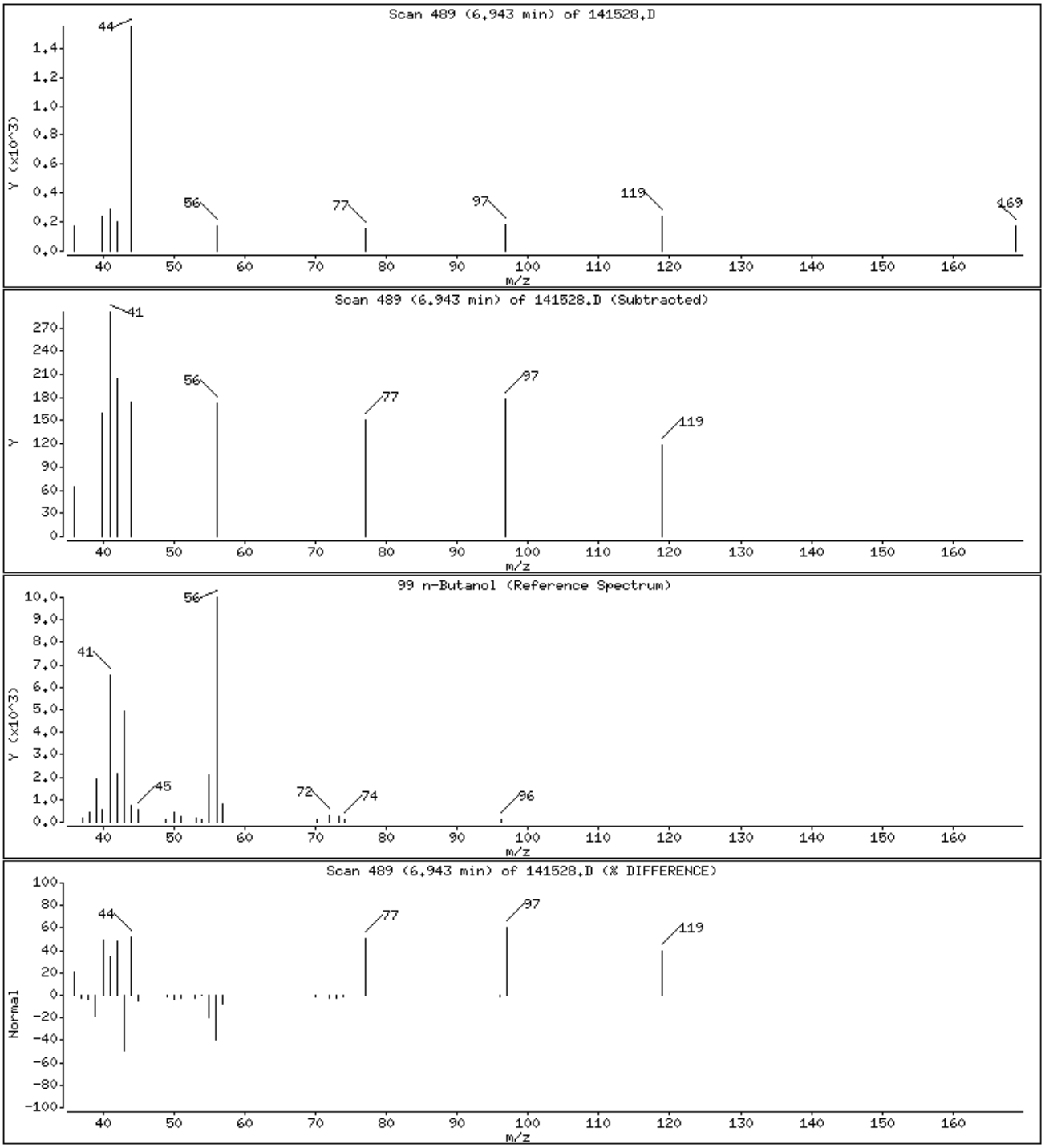
Client ID: SED DUP | Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7 | Operator: 2807

Column phase: DB624 | Column diameter: 0.18

99 n-Butanol | Concentration: 1.253 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141528.D

Date : 29-JUL-2010 20:12

Client ID: SED DUP

Instrument: a3ux14.i

Sample Info: L4K2R1AA,4.71G/5ML

Purge Volume: 4.7

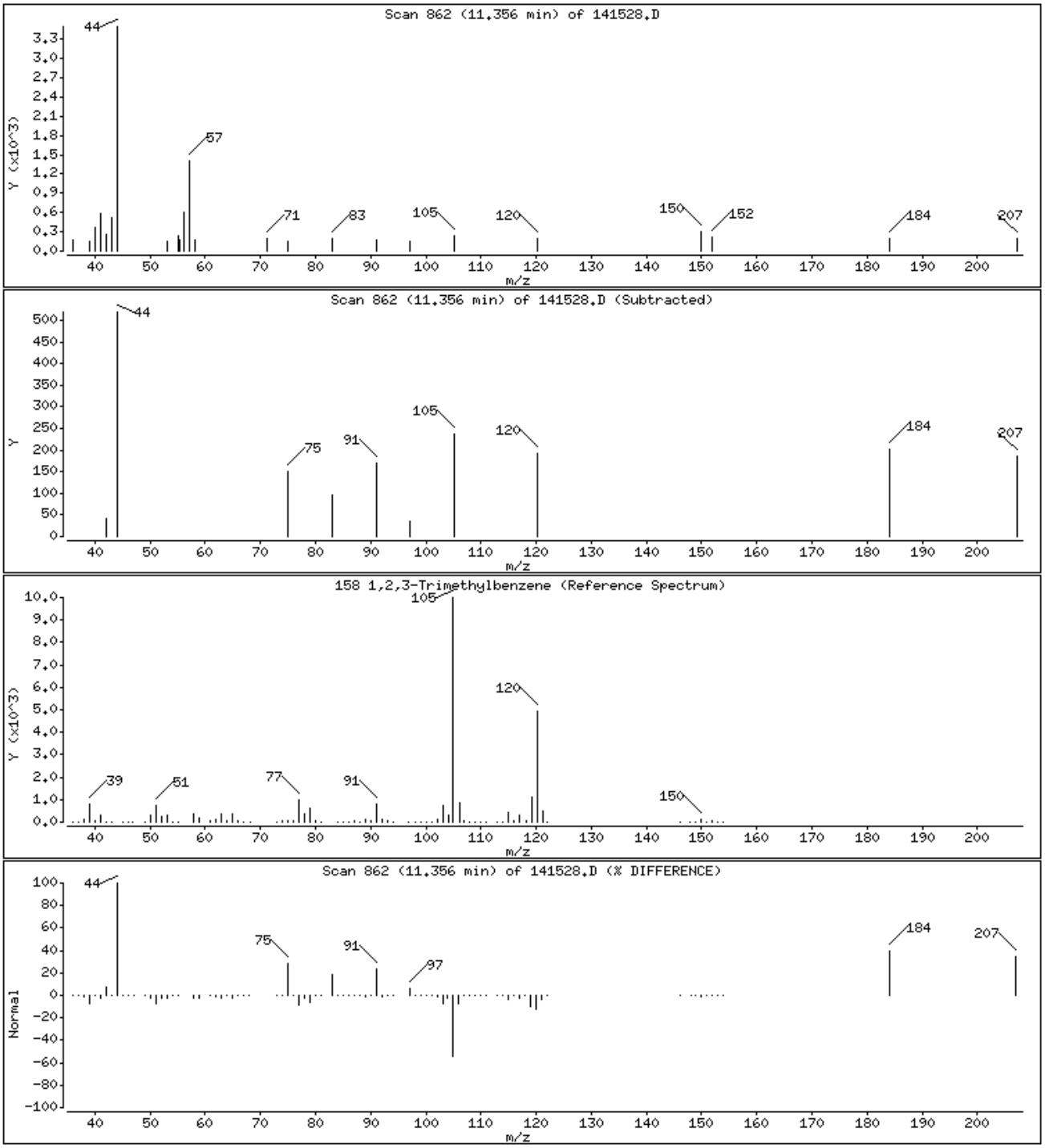
Operator: 2807

Column phase: DB624

Column diameter: 0.18

158 1,2,3-Trimethylbenzene

Concentration: 0.01754 UG/KG



Cardinal Resources

Client Sample ID: OW18

GC/MS Volatiles

Lot-Sample #...: A0G230443-008 **Work Order #...:** L4K2T1AJ **Matrix.....:** WG
Date Sampled...: 07/22/10 13:00 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	**0.41 J**	**2.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Acetone	**1.6 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	**0.30 J**	**1.0**	**ug/L**
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**2.8**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**11**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.63 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW18

GC/MS Volatiles

Lot-Sample #...: A0G230443-008 **Work Order #...:** L4K2T1AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D
Report Date: 02-Aug-2010 12:31

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D
Lab Smp Id: L4K2T1AJ Client Smp ID: OW18
Inj Date : 01-AUG-2010 17:34
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K2T1AJ,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1465638	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1032734	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	469501	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	420098	43.5952	8.719
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	732663	42.5855	8.517
$ 6 Toluene-d8	98	6.726	6.727	(0.837)	1818773	43.6851	8.737
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	676715	44.8176	8.964
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	2.289	2.301	(0.428)	11239	2.03914	0.4078
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.952	2.952	(0.551)	67653	8.12743	1.625
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D
Report Date: 02-Aug-2010 12:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	14996	1.28101	0.2562
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	5.129	5.129	(0.958)	728561	13.8946	2.779
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	5.863	5.851	(1.095)	20899	1.50740	0.3015
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	8.064	8.064	(1.003)	1579582	53.2535	10.651
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	8.277	8.265	(1.029)	47875	2.35272	0.4705
M	63 Xylenes (total)	106				63249	3.14448	0.6289
	64 Xylene-o	106	8.643	8.655	(1.075)	15374	0.79177	0.1584
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D
Report Date: 02-Aug-2010 12:31

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
78 sec-Butylbenzene	105	Compound Not Detected.					
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	99503	4.75686	0.9514
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	Compound Not Detected.					
88 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14 Dichlorofluoromethane	67	2.455	2.455	(0.459)	18560	1.35888	0.2718
89 Ethyl Ether	59	2.715	2.715	(0.507)	2240530	256.144	51.229
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.419	4.431	(0.825)	23591	2.47491	0.4950
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
103 Cyclohexanone	55	Compound Not Detected.					
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	Compound Not Detected.					
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D
Report Date: 02-Aug-2010 12:31

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1171.D
Lab Smp Id: L4K2T1AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

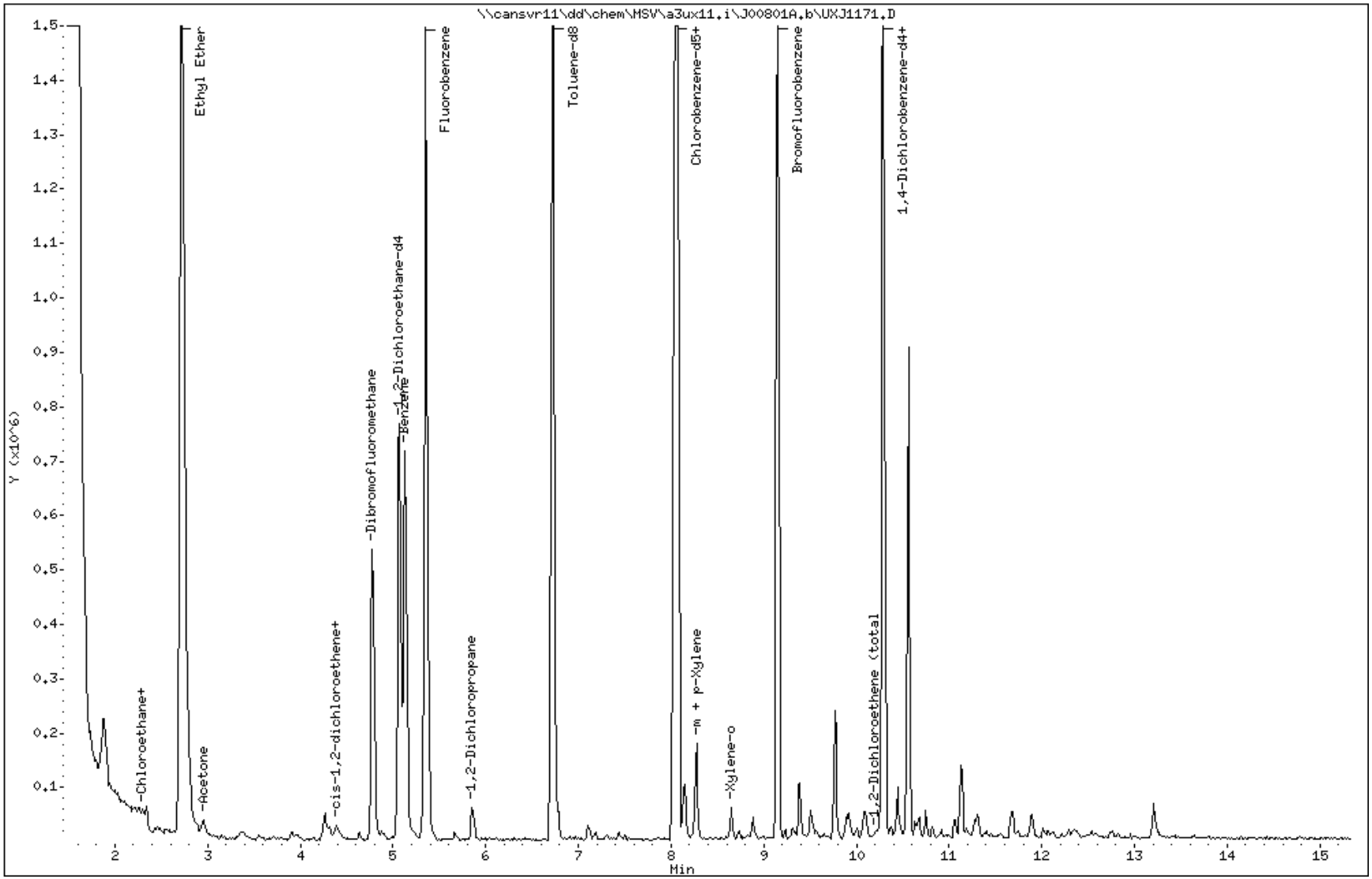
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: OW18
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1465638	-10.11
2 Chlorobenzene-d5	1193156	596578	2386312	1032734	-13.45
3 1,4-Dichlorobenze	593165	296583	1186330	469501	-20.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D
Date : 01-AUG-2010 17:34
Client ID: OW18 Instrument: a3ux11.i
Sample Info: L4K2T1AJ,5ML/5ML
Purge Volume: 5.0 Operator: 43582
Column phase: DB624 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

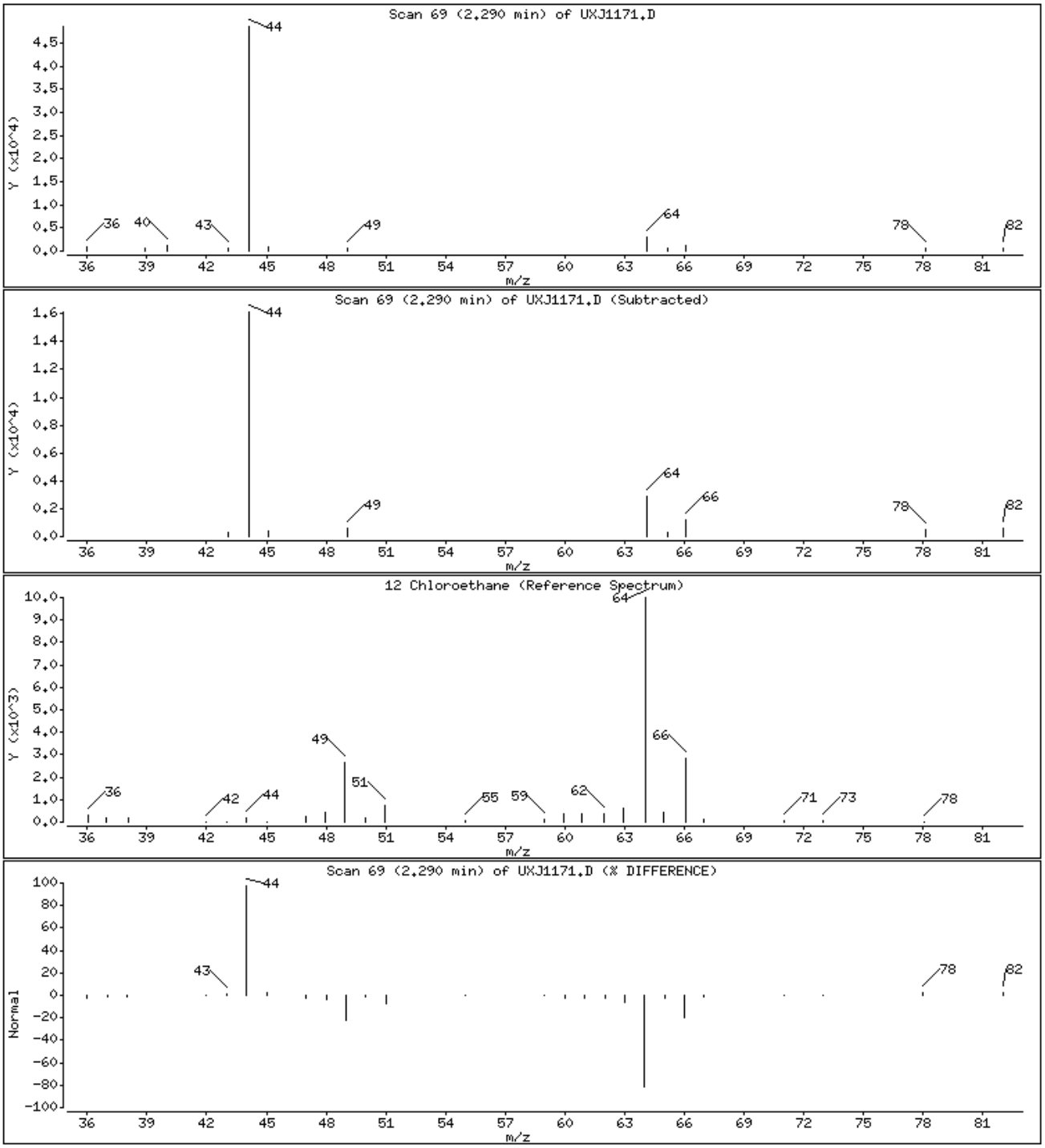
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

12 Chloroethane Concentration: 0.4078 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

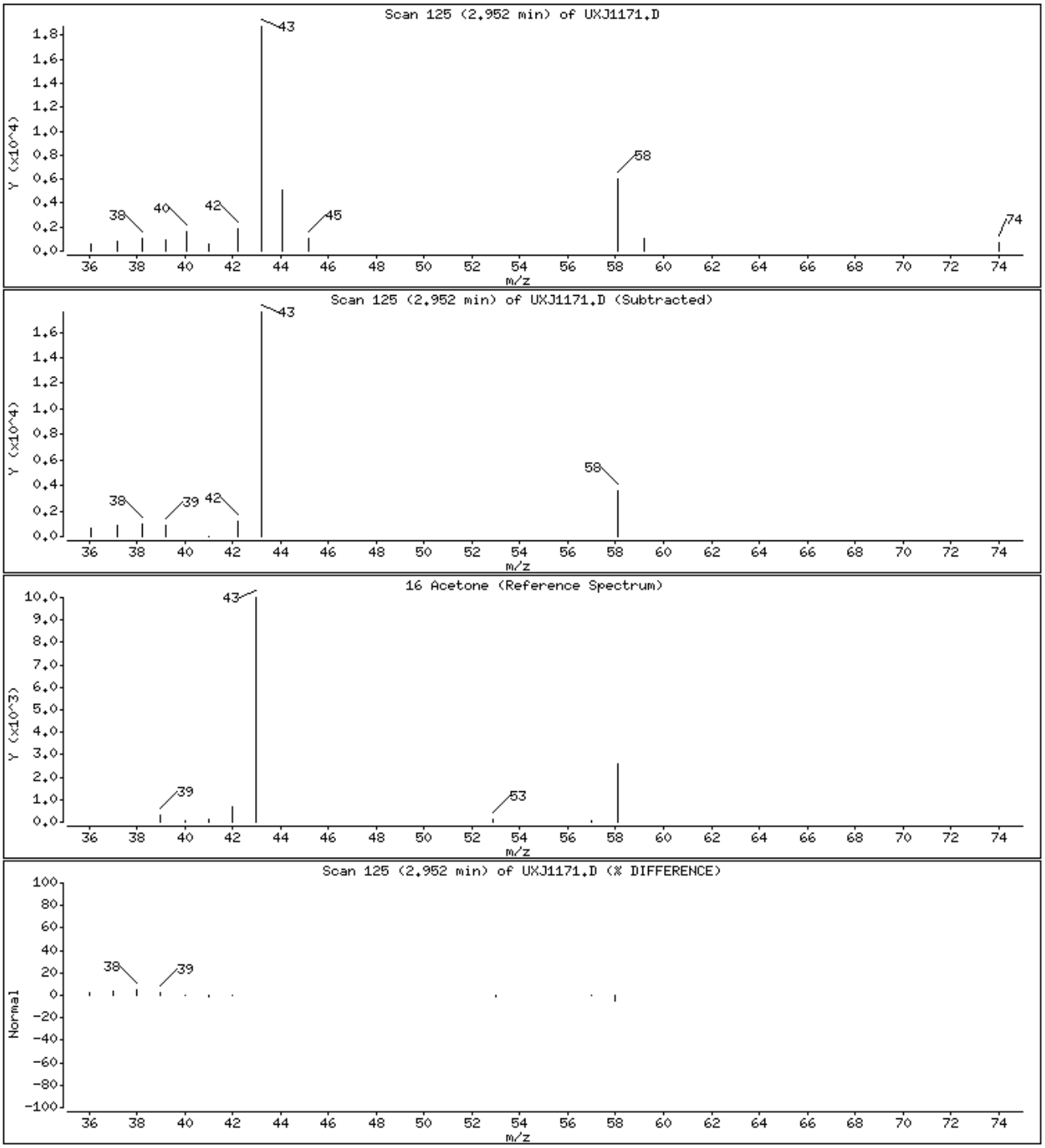
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 1.625 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

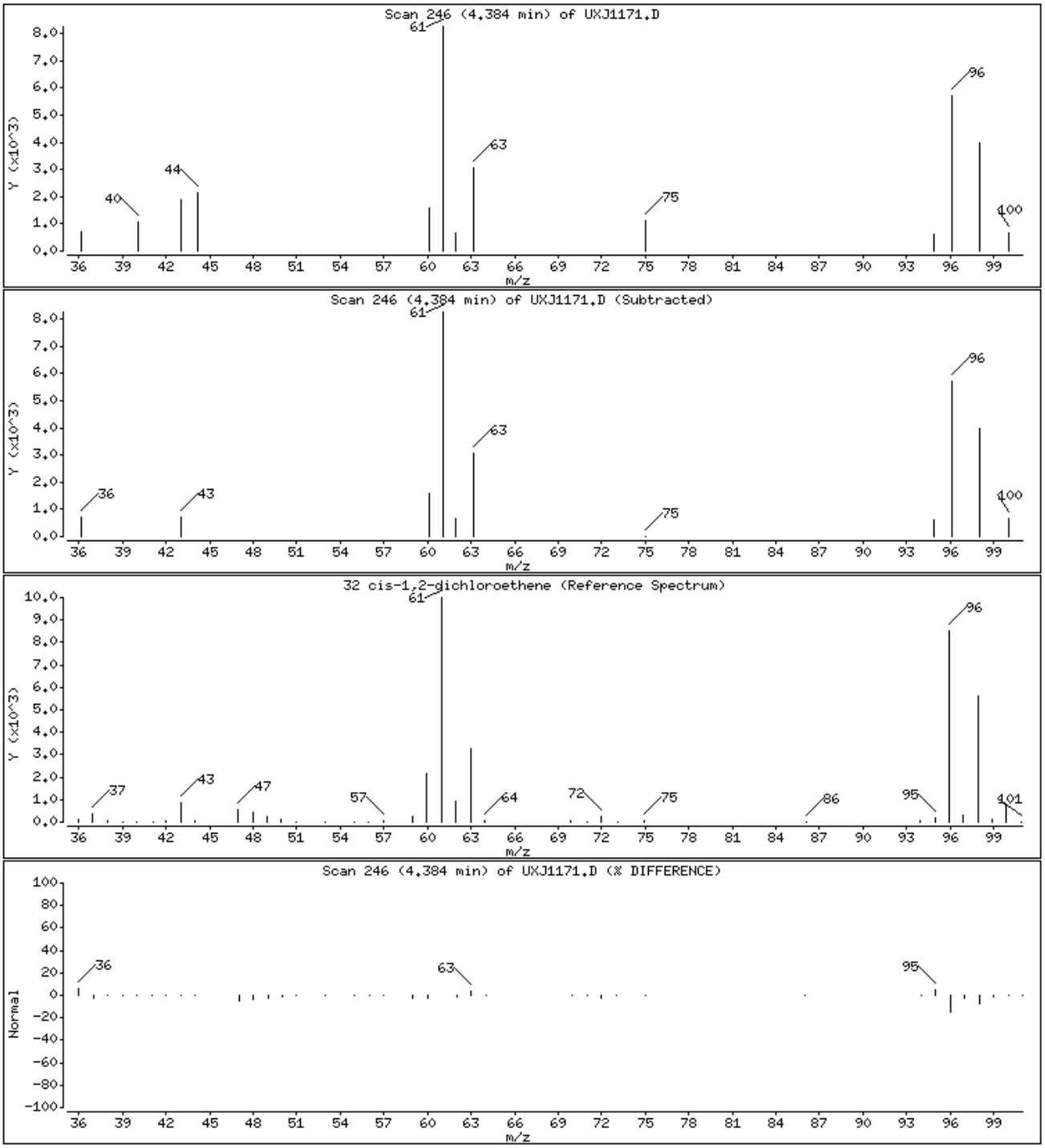
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

32 cis-1,2-dichloroethene Concentration: 0.2562 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

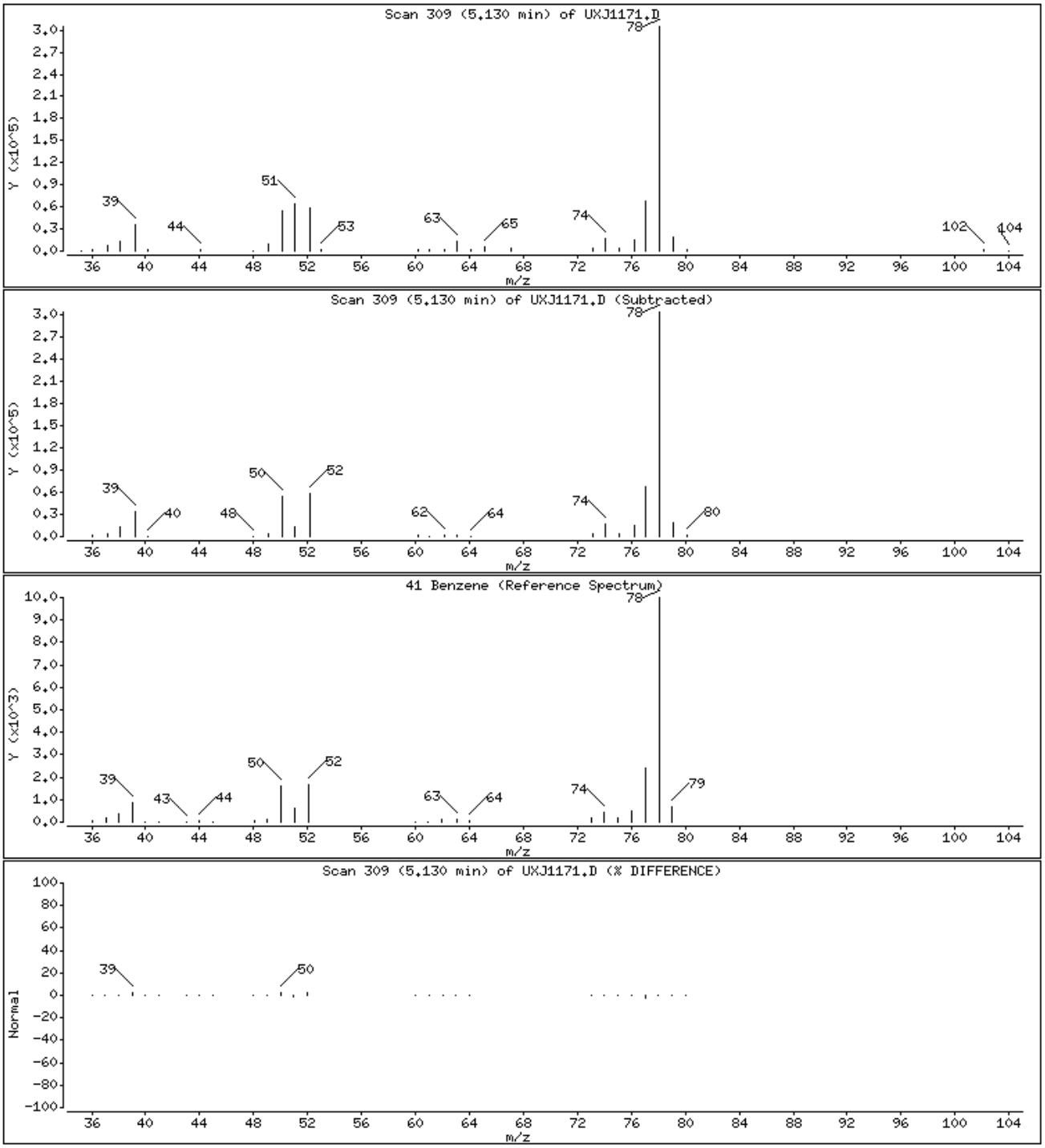
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

41 Benzene Concentration: 2.779 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

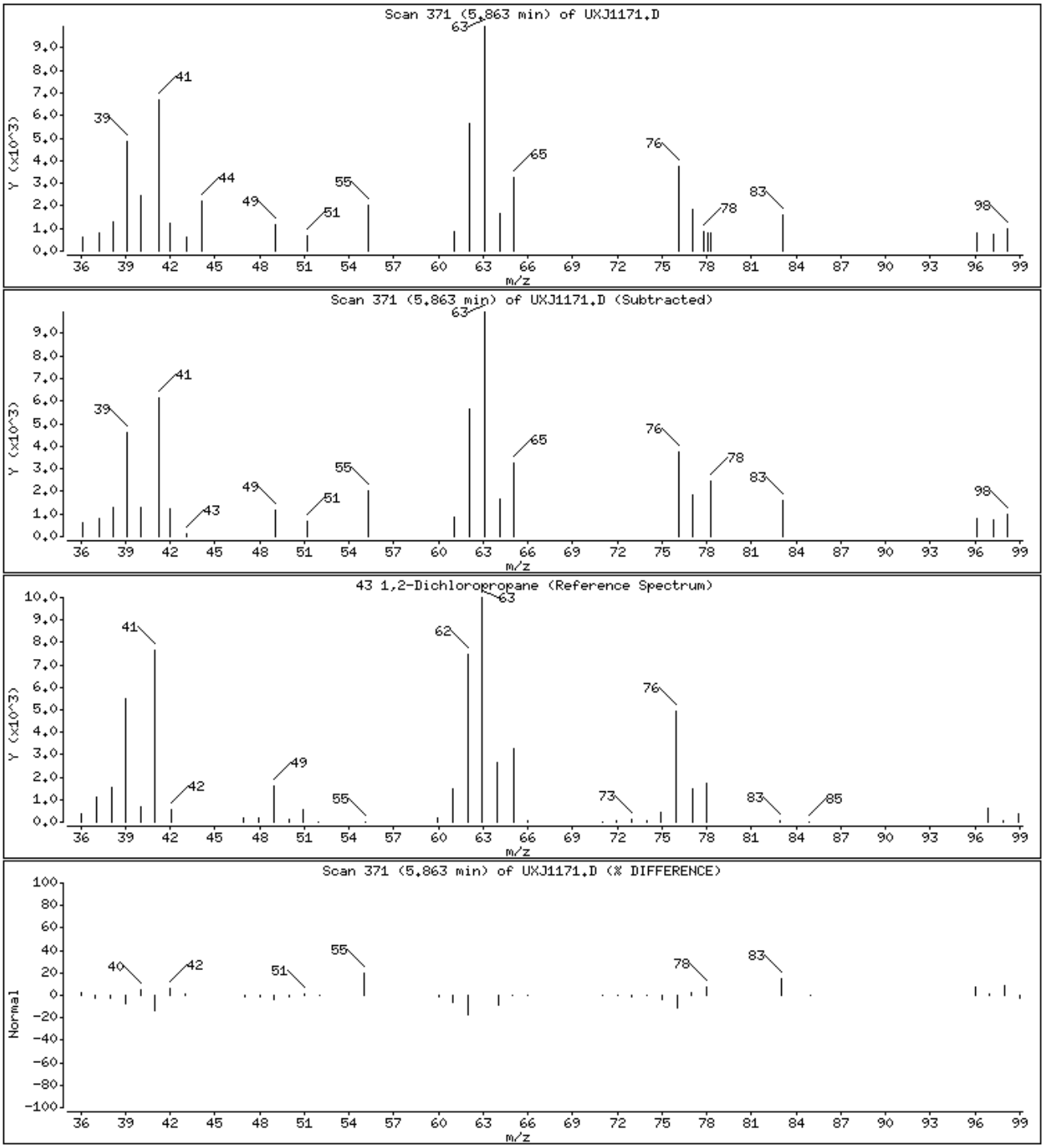
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

43 1,2-Dichloropropane Concentration: 0.3015 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

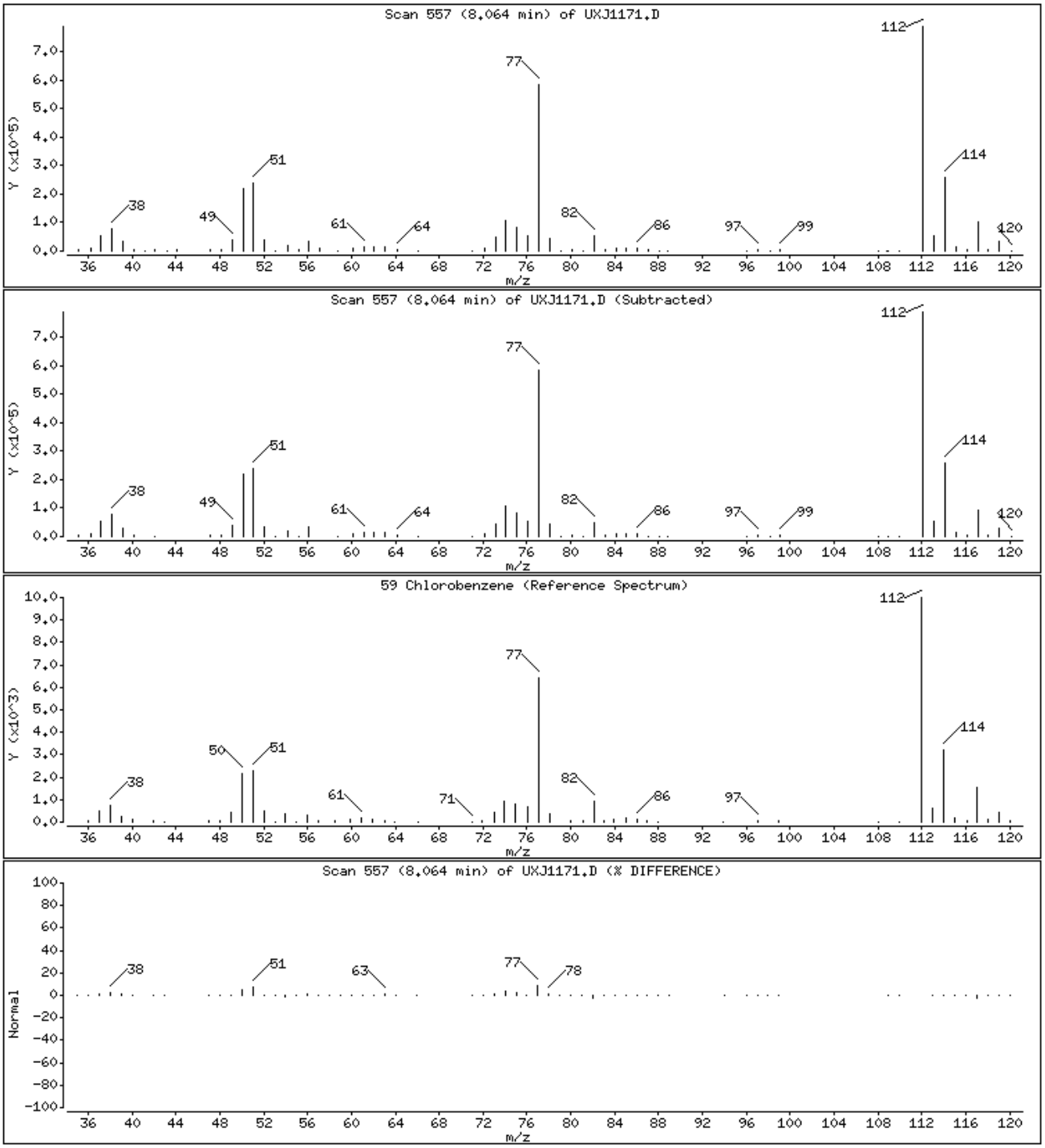
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

59 Chlorobenzene Concentration: 10.651 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

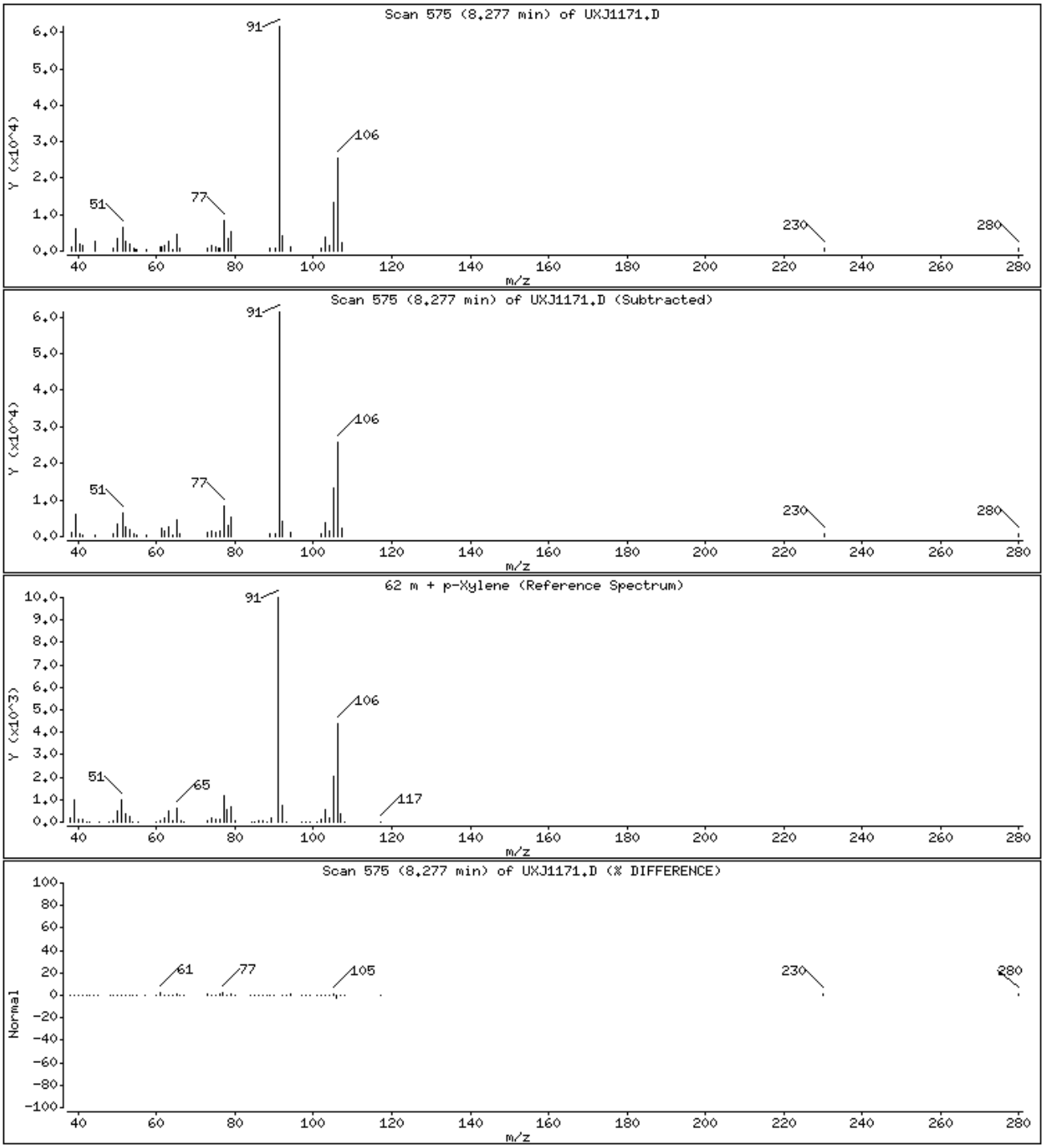
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

62 m + p-Xylene Concentration: 0.4705 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

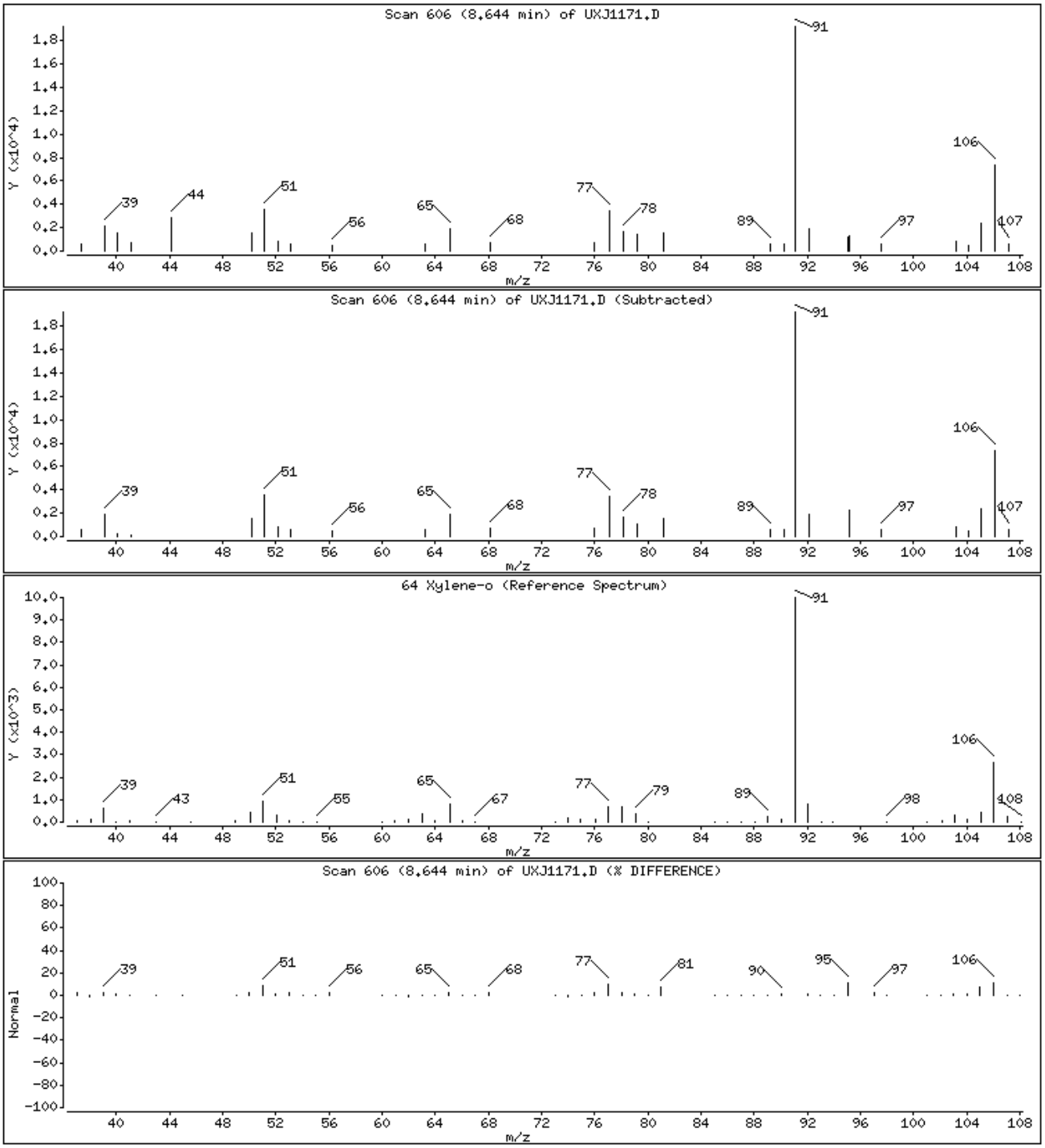
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

64 Xylene-o Concentration: 0.1584 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

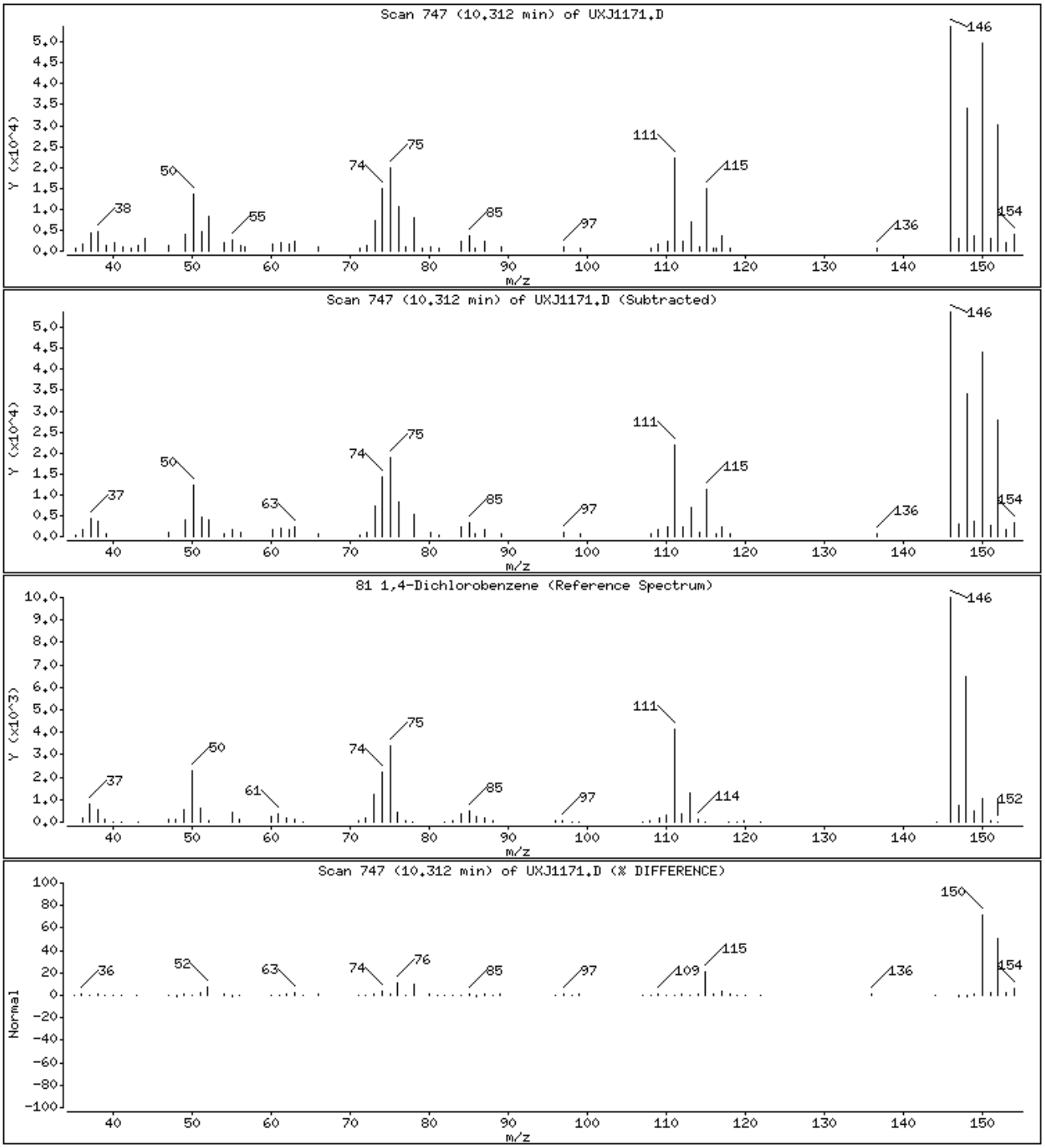
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

81 1,4-Dichlorobenzene Concentration: 0.9514 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

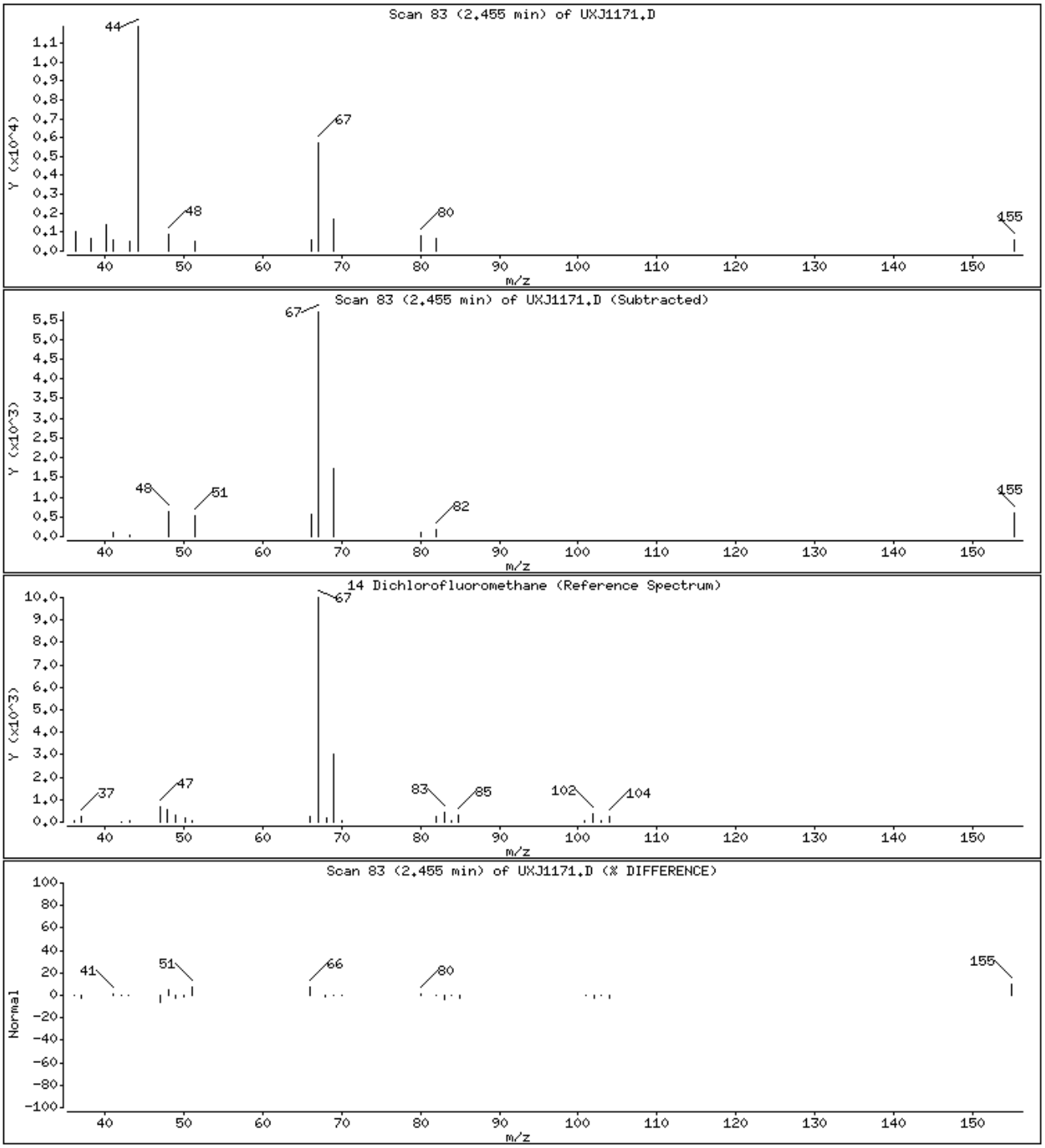
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

14 Dichlorofluoromethane Concentration: 0.2718 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

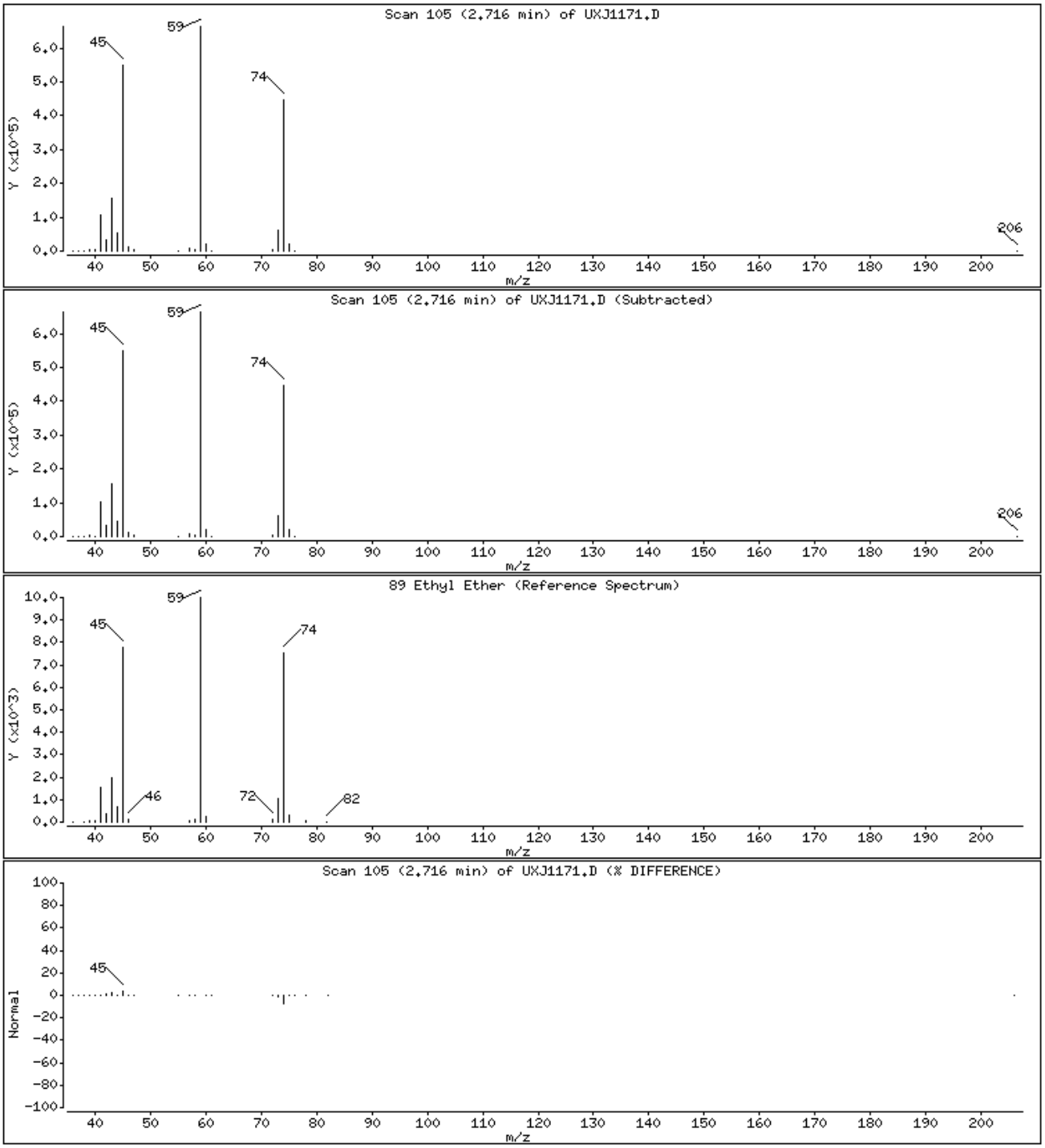
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

89 Ethyl Ether Concentration: 51.229 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1171.D

Date : 01-AUG-2010 17:34

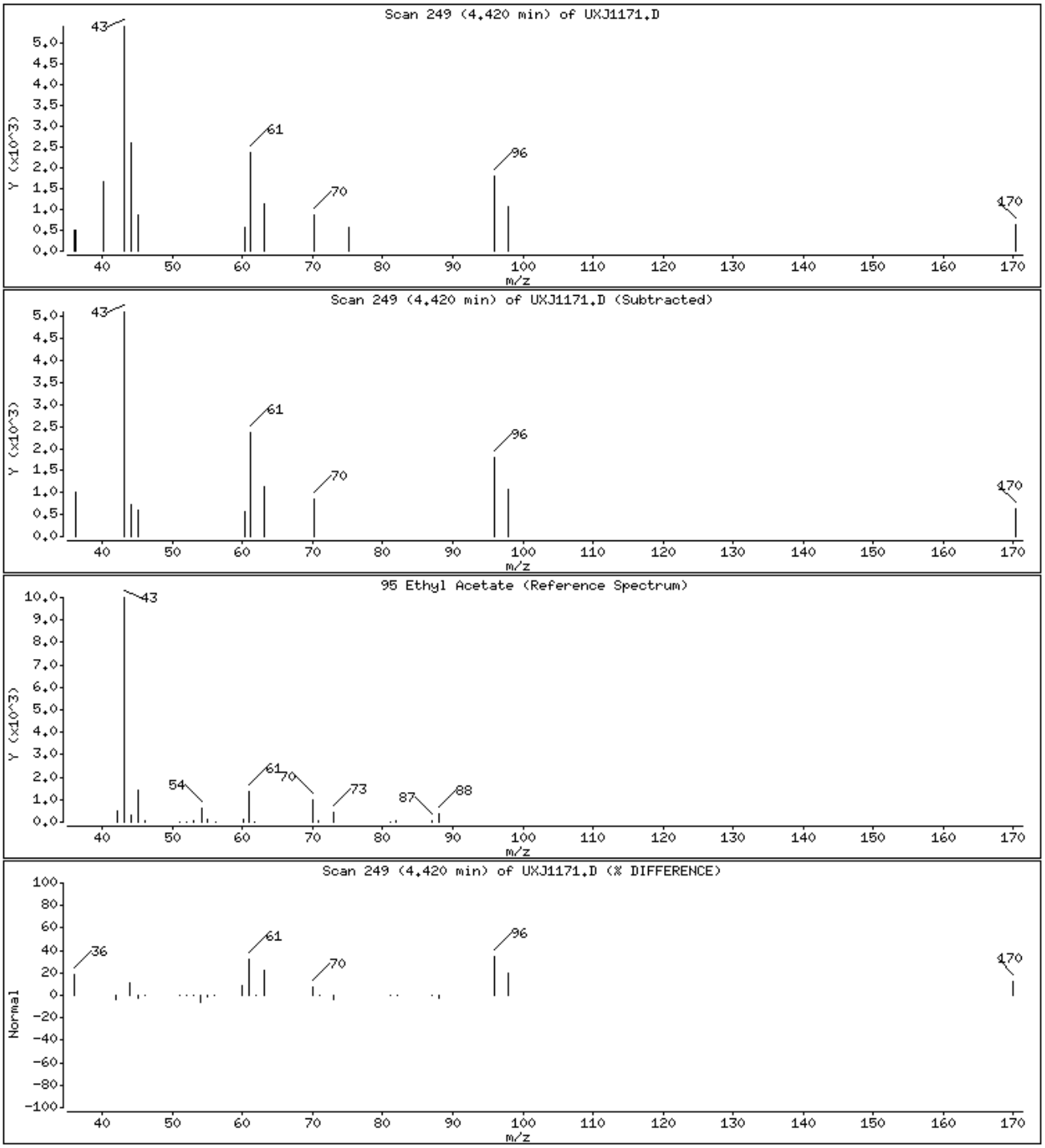
Client ID: OW18 Instrument: a3ux11.i

Sample Info: L4K2T1AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

95 Ethyl Acetate Concentration: 0.4950 ug/L



Cardinal Resources

Client Sample ID: SW2

GC/MS Volatiles

Lot-Sample #...: A0G230443-009 **Work Order #...:** L4K221AA **Matrix.....:** WG
Date Sampled...: 07/22/10 14:00 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1172.D
Report Date: 02-Aug-2010 12:31

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1172.D
Lab Smp Id: L4K221AA Client Smp ID: SW2
Inj Date : 01-AUG-2010 17:57
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K221AA,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1453660	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1020355	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	451900	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	416770	43.6063	8.721
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	725018	42.4884	8.498
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	1770810	43.0491	8.610
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	641668	43.0121	8.602
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.964	2.952	(0.554)	49127	4.14801	0.8296
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1172.D
Report Date: 02-Aug-2010 12:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1172.D
Report Date: 02-Aug-2010 12:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
103	Cyclohexanone	55	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	Compound Not Detected.					
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1172.D
Report Date: 02-Aug-2010 12:31

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

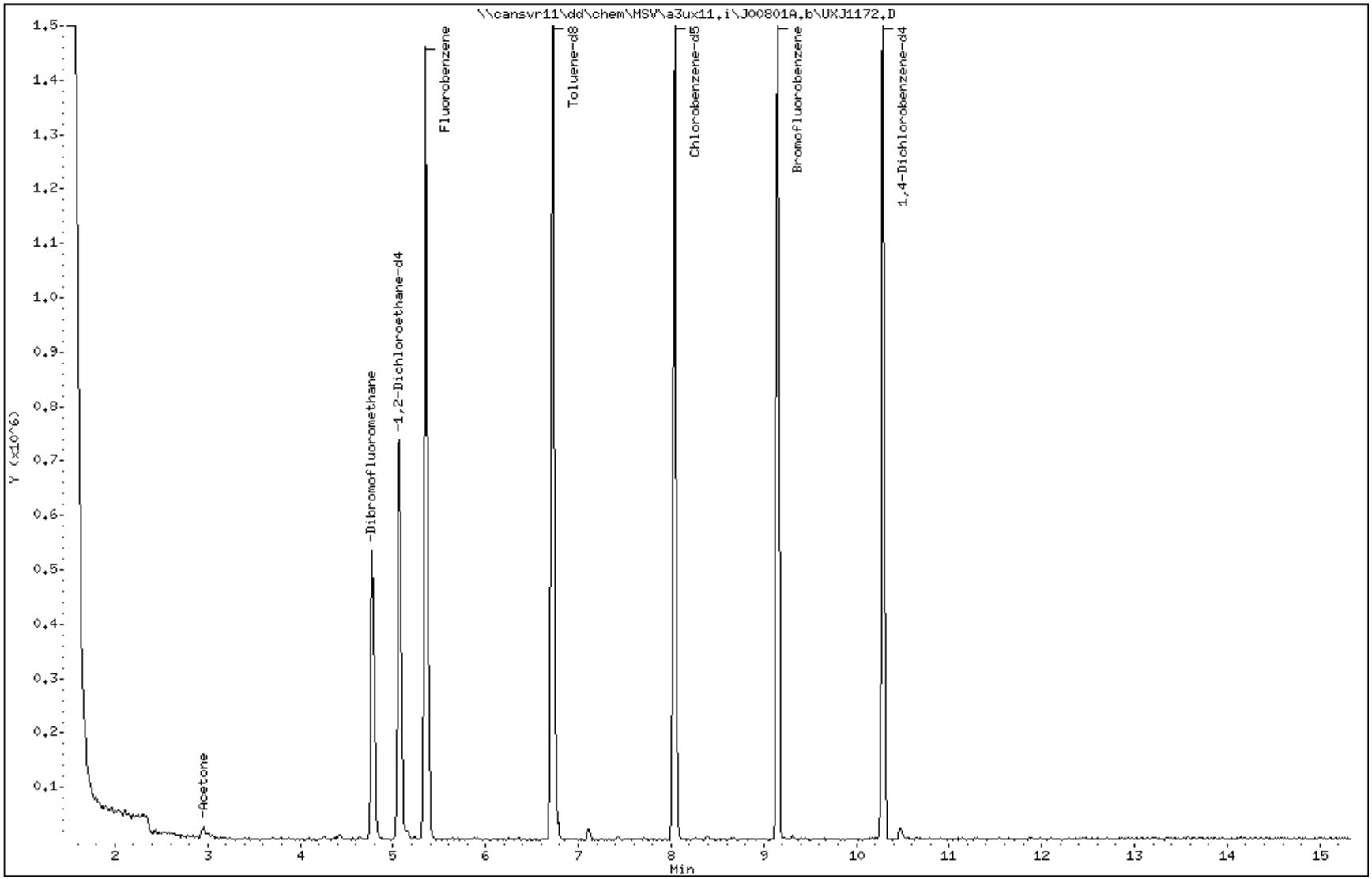
Instrument ID: a3ux11.i
Lab File ID: UXJ1172.D
Lab Smp Id: L4K221AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: SW2
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1453660	-10.85
2 Chlorobenzene-d5	1193156	596578	2386312	1020355	-14.48
3 1,4-Dichlorobenze	593165	296583	1186330	451900	-23.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1172.D
Date : 01-AUG-2010 17:57
Client ID: SW2 Instrument: a3ux11.i
Sample Info: L4K221AA,5ML/5ML
Purge Volume: 5.0 Operator: 43582
Column phase: DB624 Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1172.D

Date : 01-AUG-2010 17:57

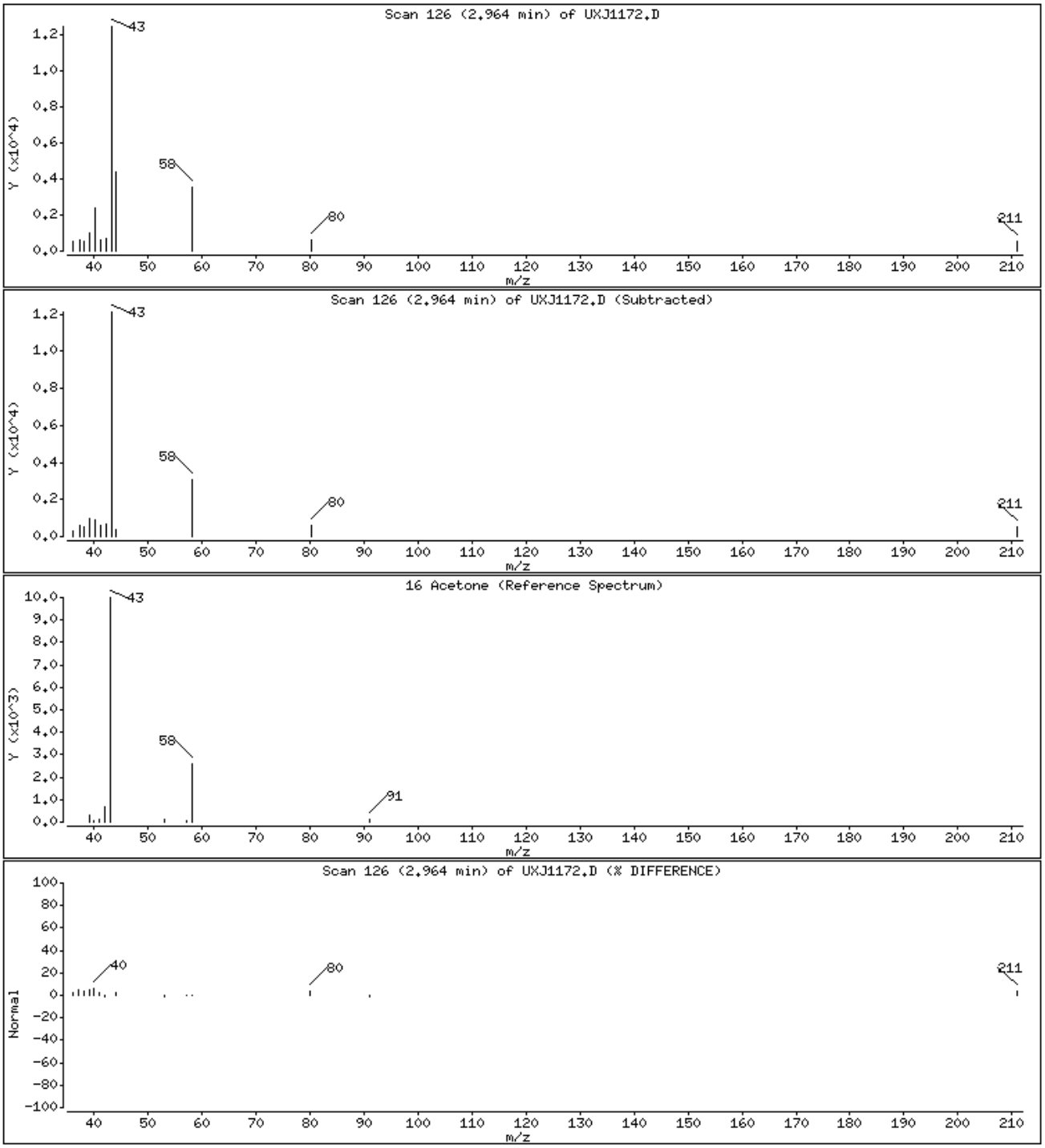
Client ID: SW2 Instrument: a3ux11.i

Sample Info: L4K221AA,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 0.8296 ug/L



Cardinal Resources

Client Sample ID: SED 2

GC/MS Volatiles

Lot-Sample #...: A0G230443-010 **Work Order #...:** L4K241AA **Matrix.....:** SO
Date Sampled...: 07/22/10 14:30 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1.46 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL
% Moisture.....: 55 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**89**	**65**	**ug/kg**
Benzene	ND	16	ug/kg
Bromodichloromethane	ND	16	ug/kg
Bromoform	ND	16	ug/kg
Bromomethane	ND	16	ug/kg
2-Butanone	ND	65	ug/kg
Carbon disulfide	ND	16	ug/kg
Carbon tetrachloride	ND	16	ug/kg
Chlorobenzene	ND	16	ug/kg
Dibromochloromethane	ND	16	ug/kg
1,2-Dibromo-3-chloro-propane	ND	32	ug/kg
Chloroethane	ND	16	ug/kg
Chloroform	ND	16	ug/kg
Chloromethane	ND	16	ug/kg
Cyclohexane	ND	32	ug/kg
1,2-Dibromoethane	ND	16	ug/kg
1,2-Dichlorobenzene	ND	16	ug/kg
1,3-Dichlorobenzene	ND	16	ug/kg
1,4-Dichlorobenzene	ND	16	ug/kg
Dichlorodifluoromethane	ND	16	ug/kg
1,1-Dichloroethane	ND	16	ug/kg
1,2-Dichloroethane	ND	16	ug/kg
1,1-Dichloroethene	ND	16	ug/kg
cis-1,2-Dichloroethene	ND	16	ug/kg
trans-1,2-Dichloroethene	ND	16	ug/kg
1,2-Dichloropropane	ND	16	ug/kg
cis-1,3-Dichloropropene	ND	16	ug/kg
trans-1,3-Dichloropropene	ND	16	ug/kg
Ethylbenzene	ND	16	ug/kg
Trichlorofluoromethane	ND	16	ug/kg
2-Hexanone	ND	65	ug/kg
Isopropylbenzene	ND	16	ug/kg
Methyl acetate	ND	32	ug/kg
Methylcyclohexane	ND	32	ug/kg
Methylene chloride	**18**	**16**	**ug/kg**
4-Methyl-2-pentanone	ND	65	ug/kg
Styrene	ND	16	ug/kg

(Continued on next page)

Cardinal Resources

Client Sample ID: SED 2

GC/MS Volatiles

Lot-Sample #...: A0G230443-010 **Work Order #...:** L4K241AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	16	ug/kg
Tetrachloroethene	ND	16	ug/kg
Toluene	ND	16	ug/kg
1,2,4-Trichloro-benzene	ND	16	ug/kg
1,1,1-Trichloroethane	ND	16	ug/kg
1,1,2-Trichloroethane	ND	16	ug/kg
Trichloroethene	ND	16	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	16	ug/kg
Vinyl chloride	ND	16	ug/kg
Xylenes (total)	ND	32	ug/kg
Methyl tert-butyl ether	ND	65	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	111	(60 - 143)
4-Bromofluorobenzene	122	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Report Date: 30-Jul-2010 08:47

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Lab Smp Id: L4K241AA Client Smp ID: SED 2
Inj Date : 29-JUL-2010 16:17
Operator : 2807 Inst ID: a3ux14.i
Smp Info : L4K241AA,3.43G/5ML
Misc Info : R00729A,8260SUX14,,2807
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	3.430	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1128796	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	645056	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	243325	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	323754	223.092	65.041
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	343623	229.295	66.850
$ 6 Toluene-d8	98	8.066	8.066	(0.865)	976297	277.519	80.909
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	224724	305.910	89.186
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.919	2.919	(0.443)	88341	138.550	40.393
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	3.499	3.487	(0.531)	48713	28.2380	8.233

22 Acetonitrile	41	3.298	3.274 (0.501)	6118	31.2578	9.113
23 Acrylonitrile	53	Compound Not Detected.				

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Report Date: 30-Jul-2010 08:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	4.374	4.375	(0.664)	588	2.26768	0.6611
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	5.368	5.357	(0.815)	26983	37.0121	10.791
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	5298	5.02880	1.466
	50 Toluene	91	8.126	8.126	(0.872)	6764	1.95358	0.5696
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Report Date: 30-Jul-2010 08:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	673	8.75610	2.553
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Report Date: 30-Jul-2010 08:47

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141517.D
Lab Smp Id: L4K241AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807

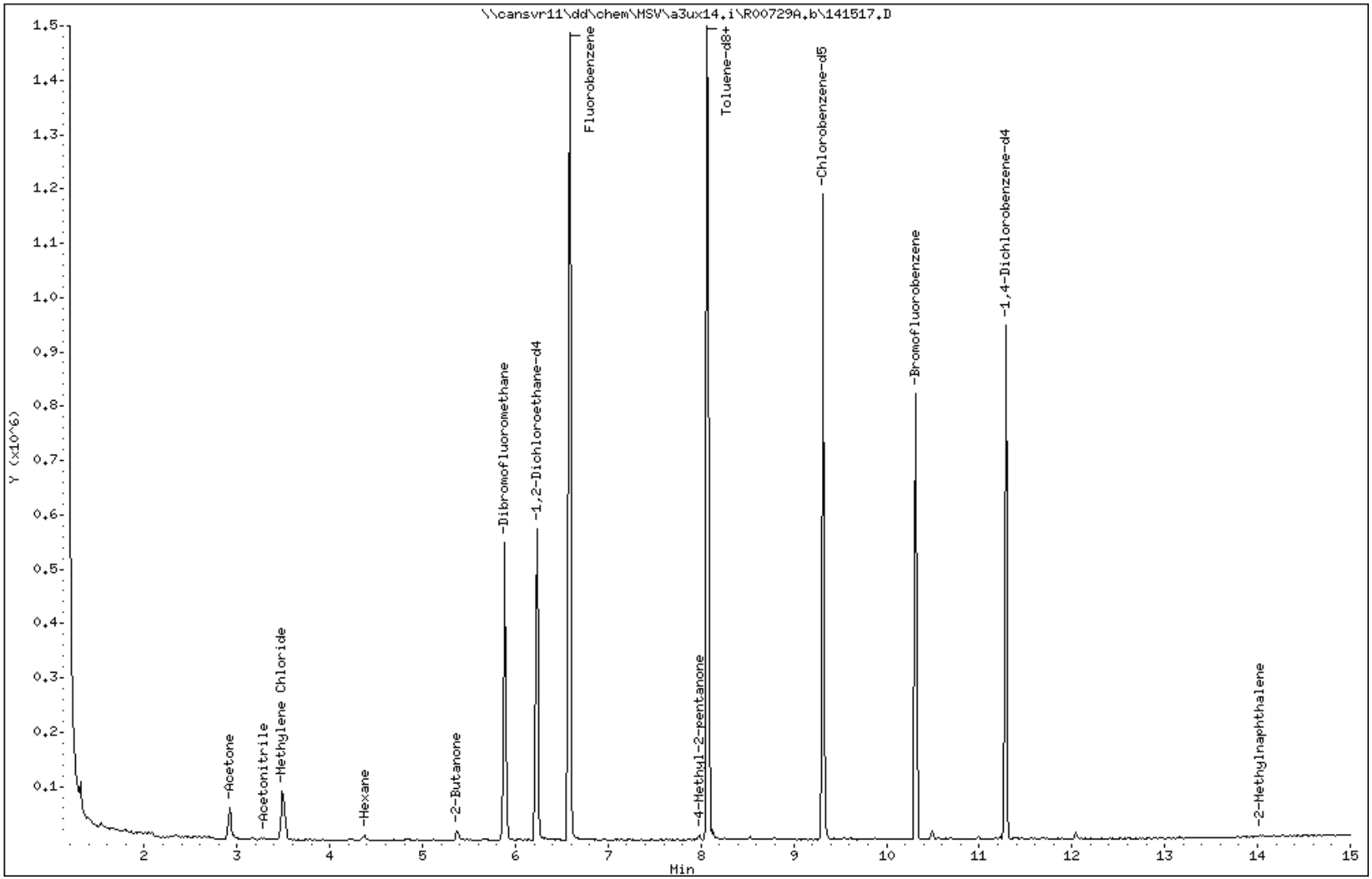
Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Client Smp ID: SED 2
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1128796	-27.83
2 Chlorobenzene-d5	1117515	558758	2235030	645056	-42.28
3 1,4-Dichlorobenze	636663	318332	1273326	243325	-61.78 |<-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Date : 29-JUL-2010 16:17
Client ID: SED 2
Instrument: a3ux14.i
Sample Info: L4K241AA,3.43G/5ML
Purge Volume: 3.4
Operator: 2807
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

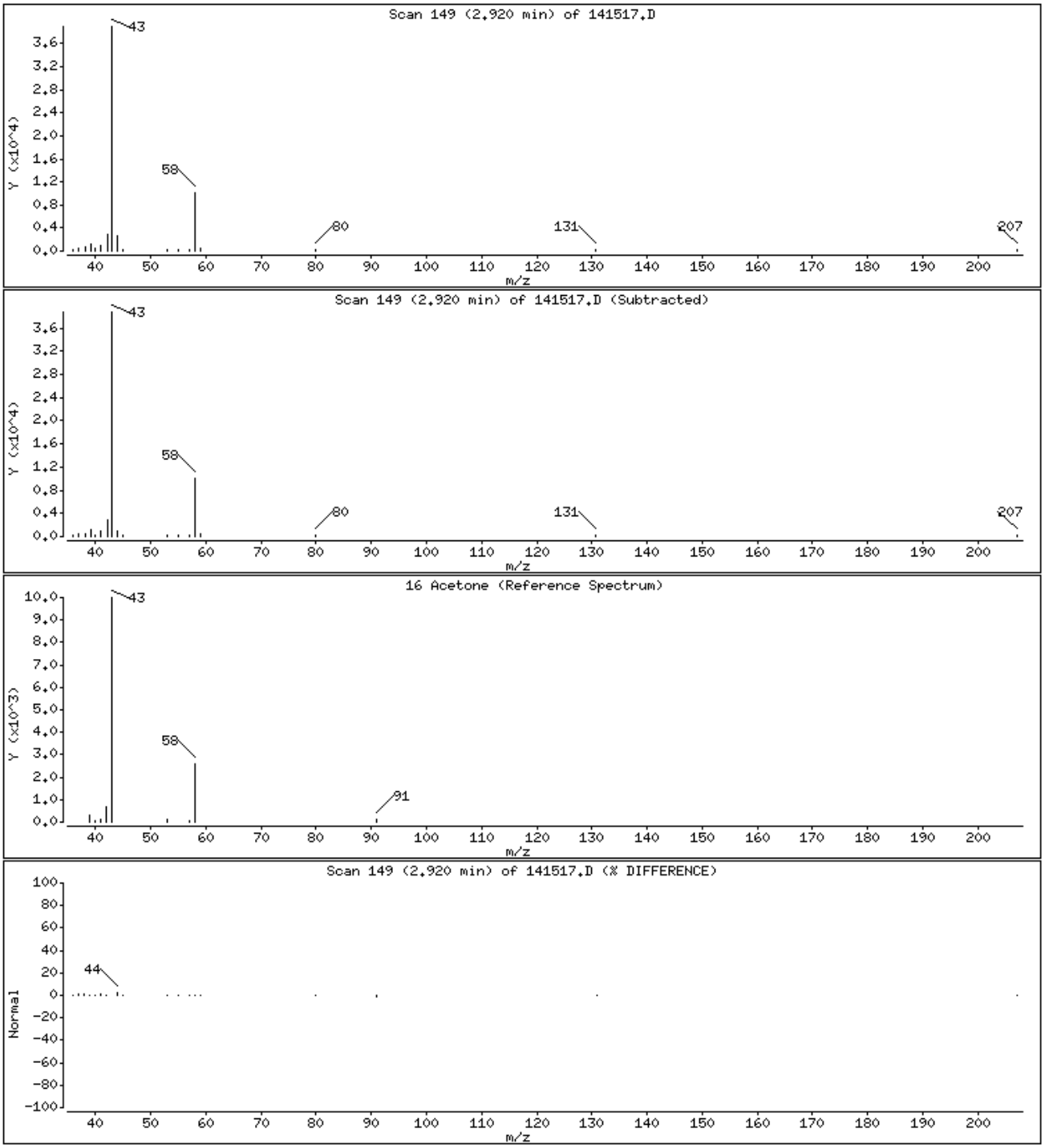
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

16 Acetone Concentration: 40.393 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

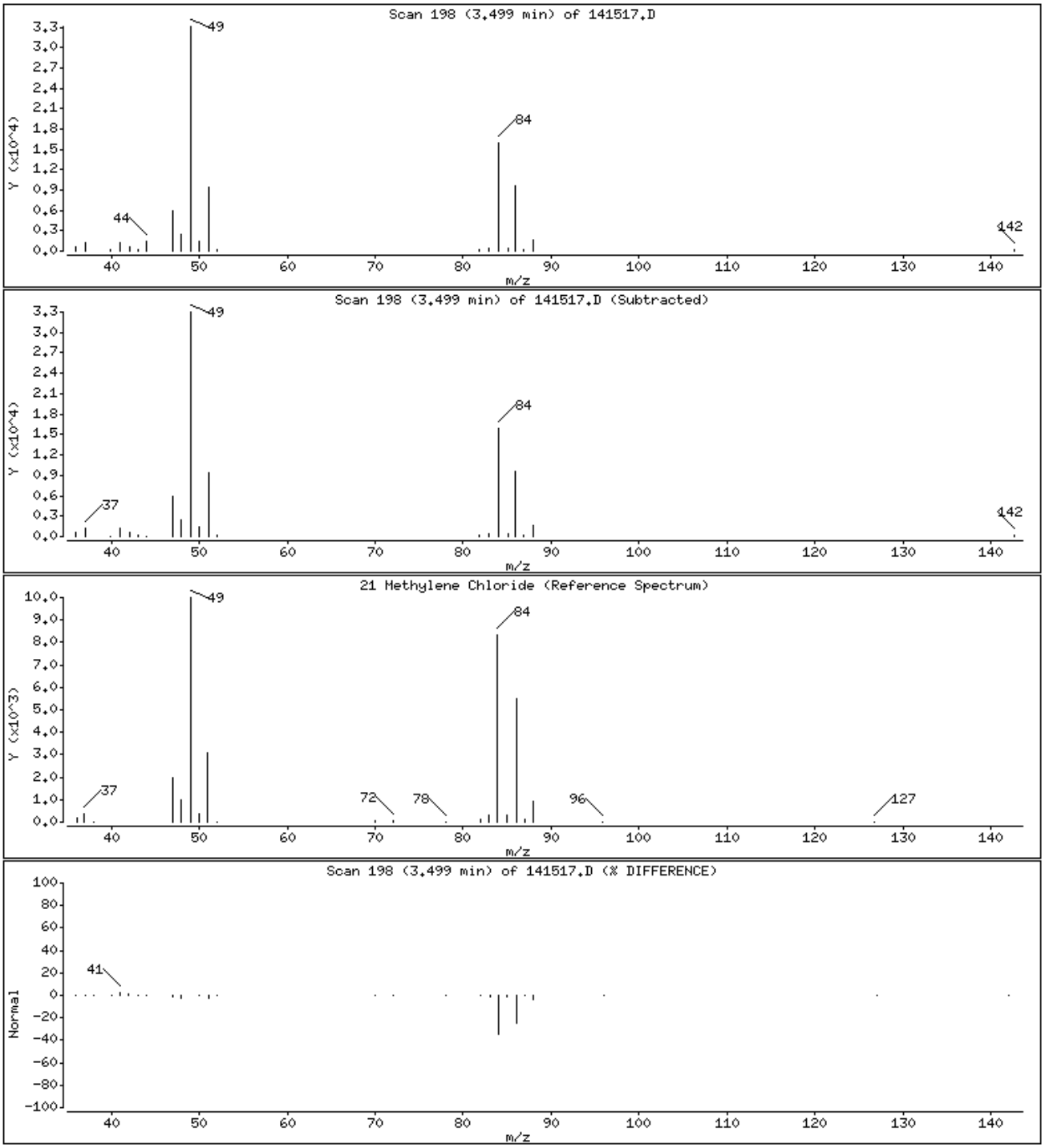
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

21 Methylene Chloride Concentration: 8.233 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

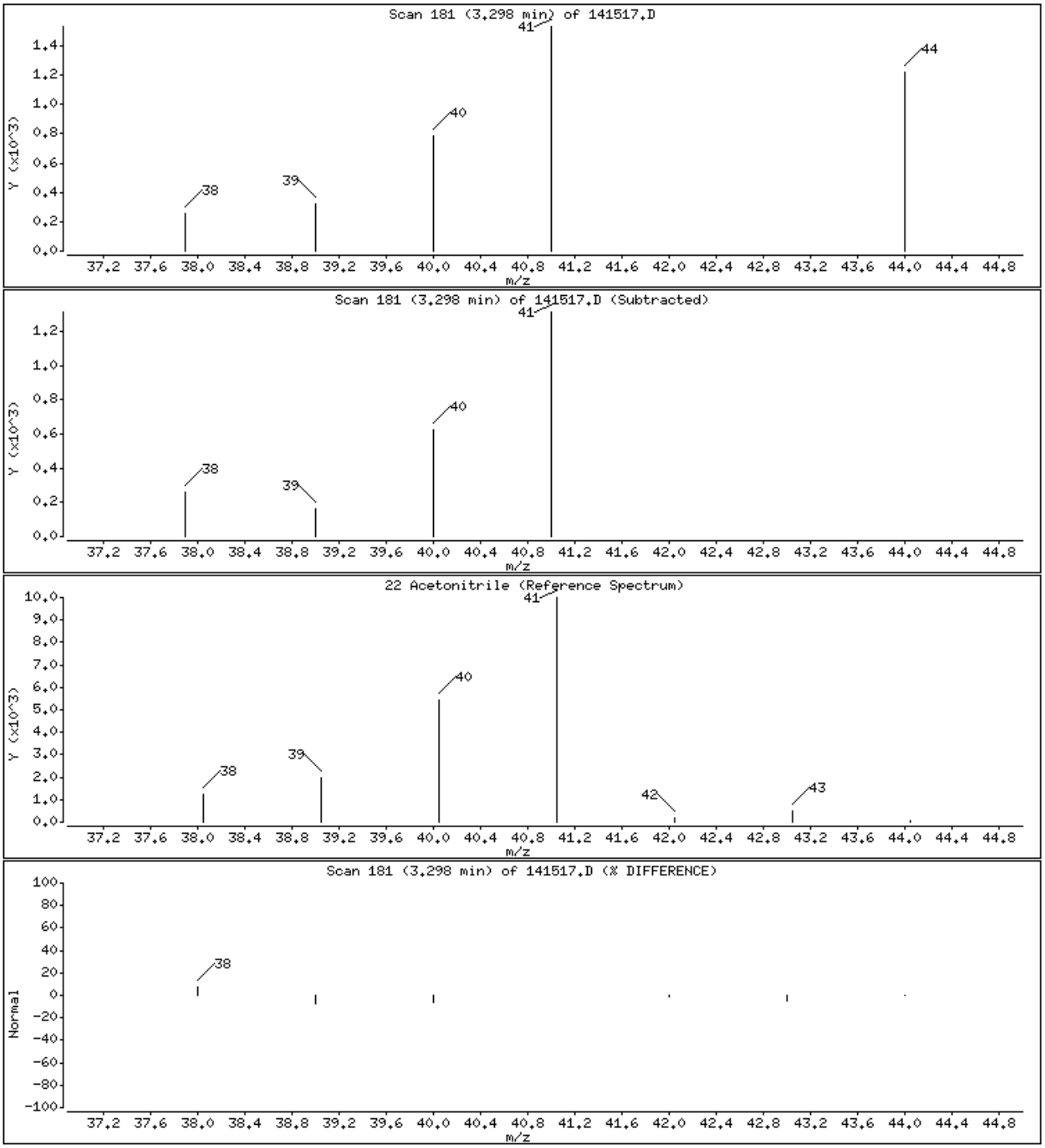
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

22 Acetonitrile Concentration: 9.113 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

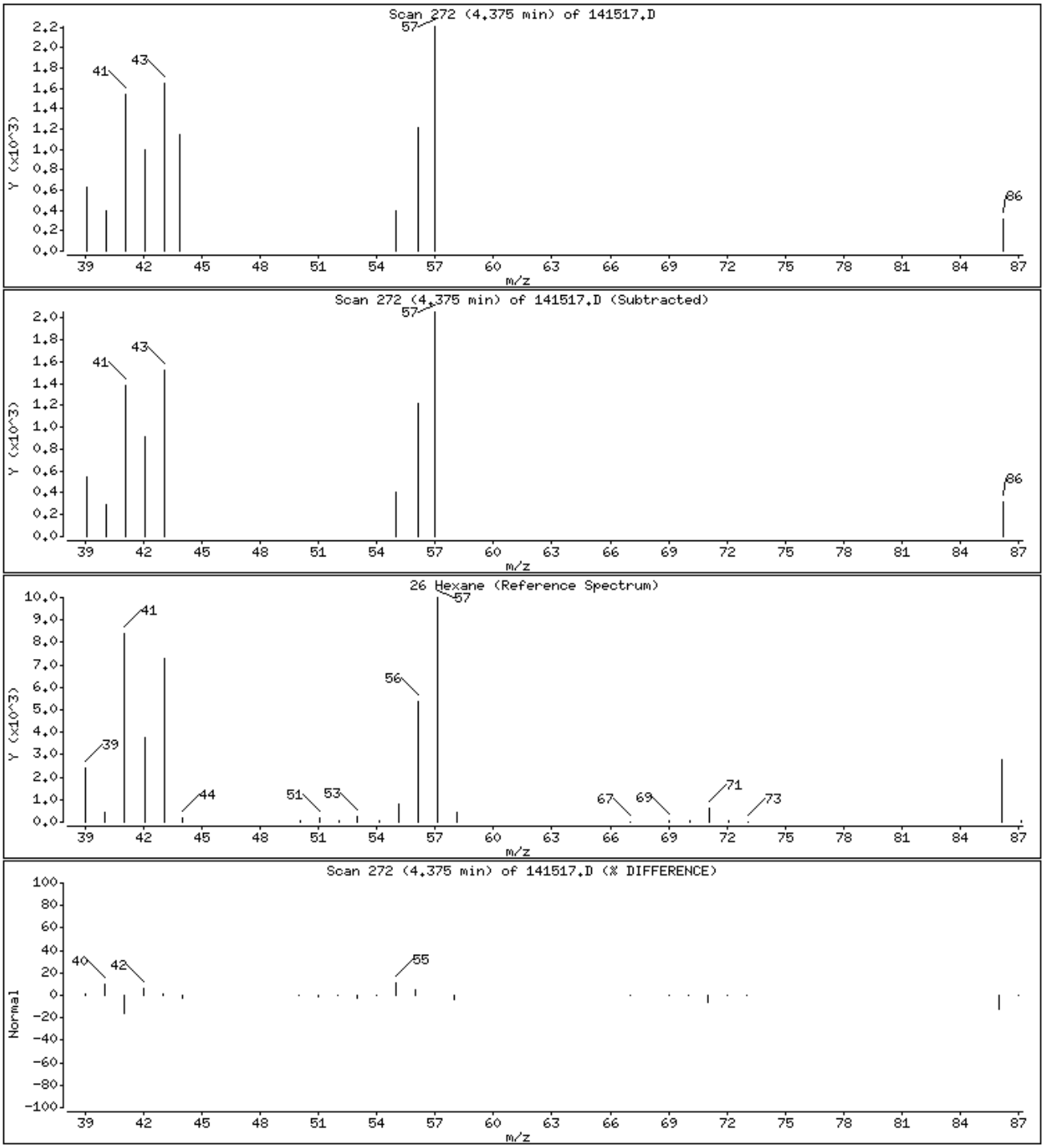
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

26 Hexane Concentration: 0.6611 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

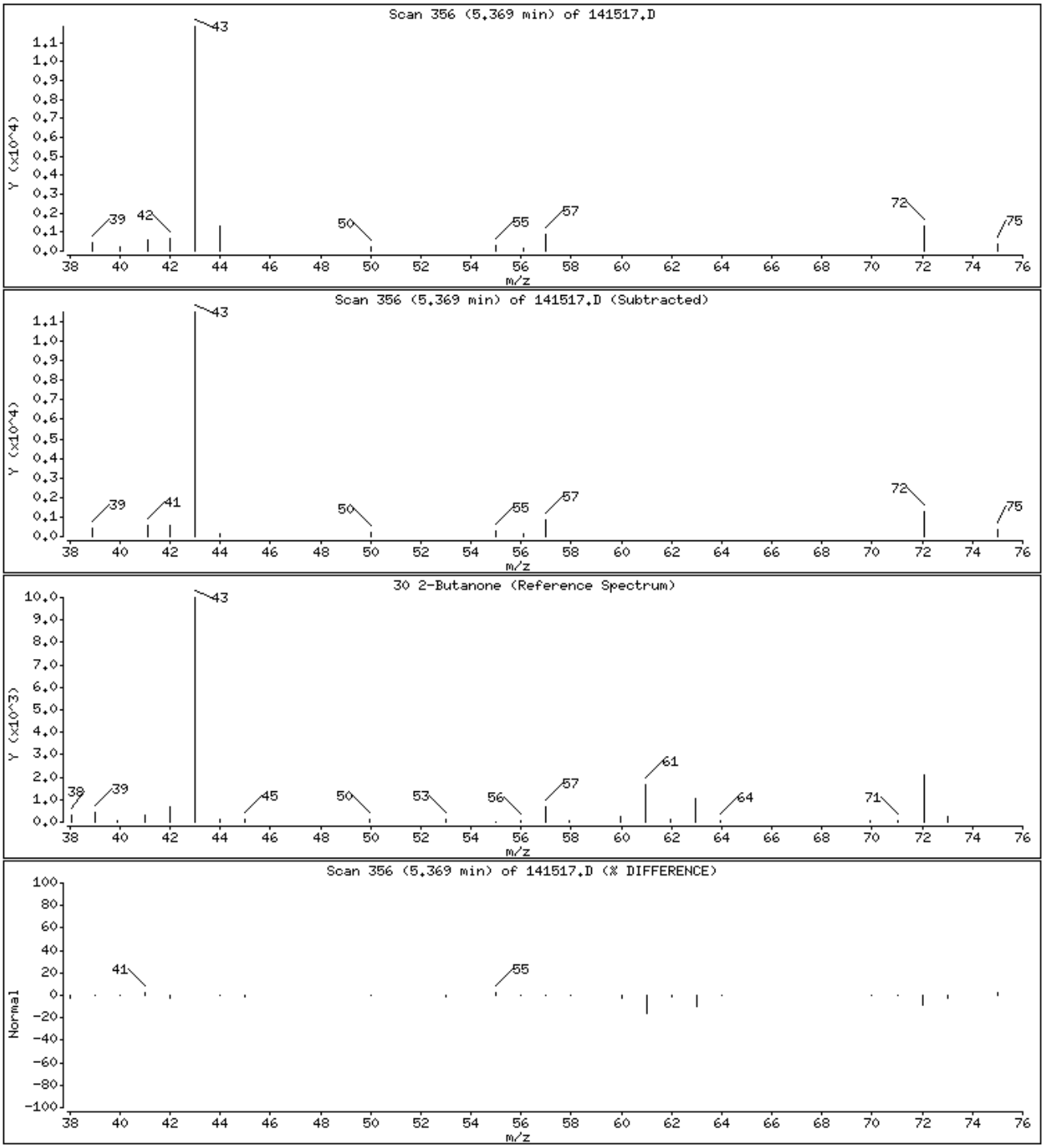
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

30 2-Butanone Concentration: 10.791 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

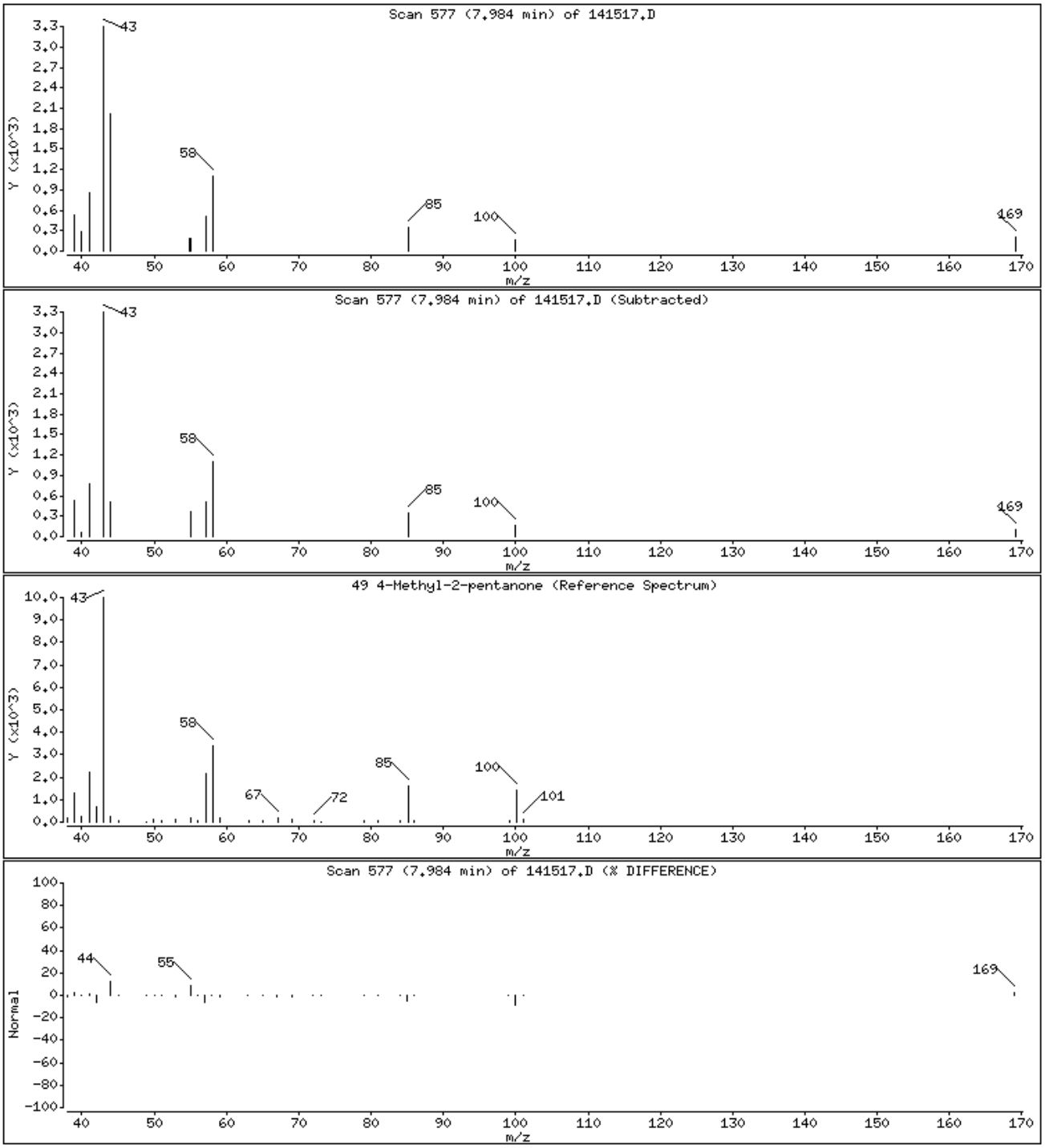
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

49 4-Methyl-2-pentanone Concentration: 1.466 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

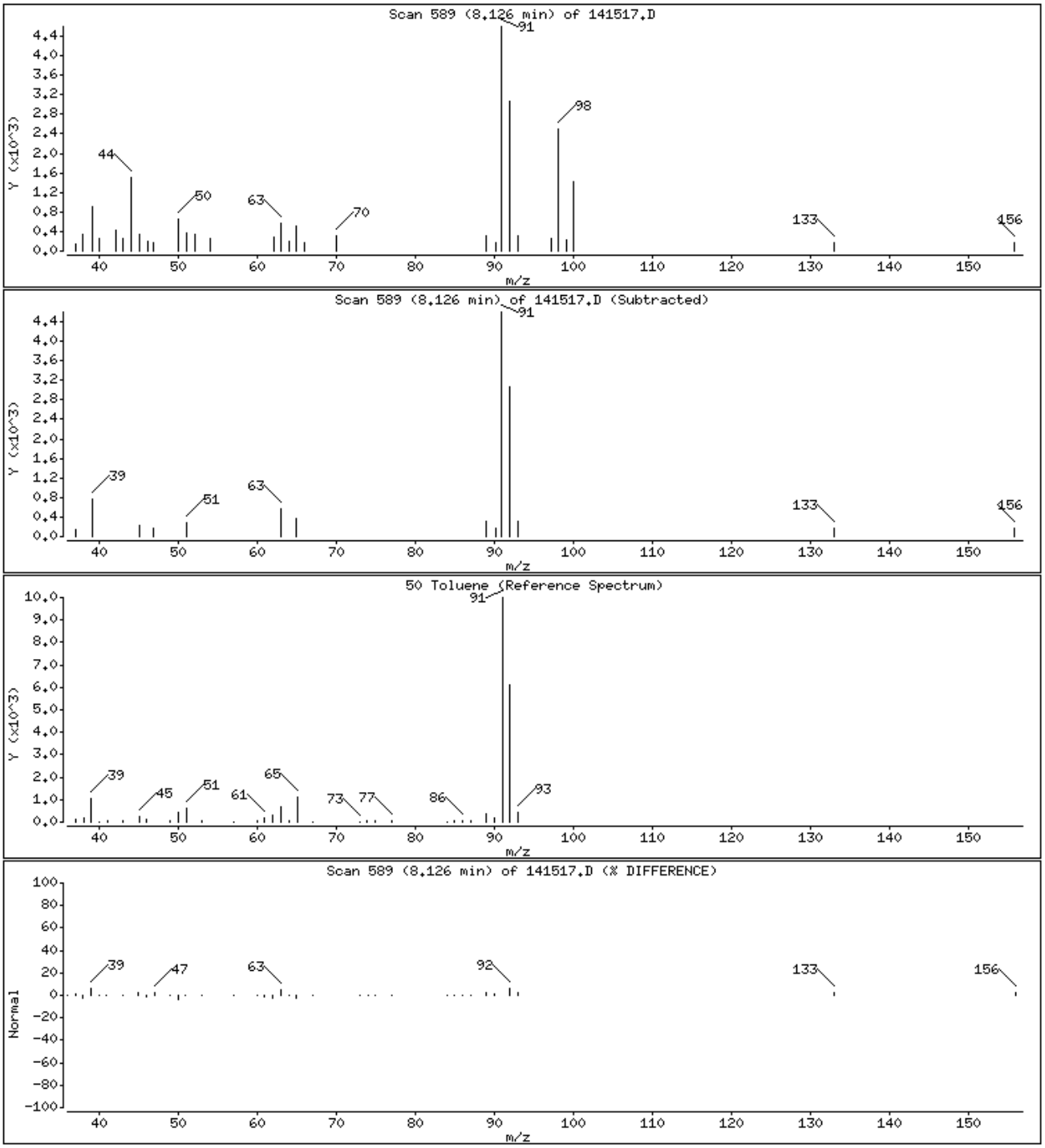
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

50 Toluene Concentration: 0.5696 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D

Date : 29-JUL-2010 16:17

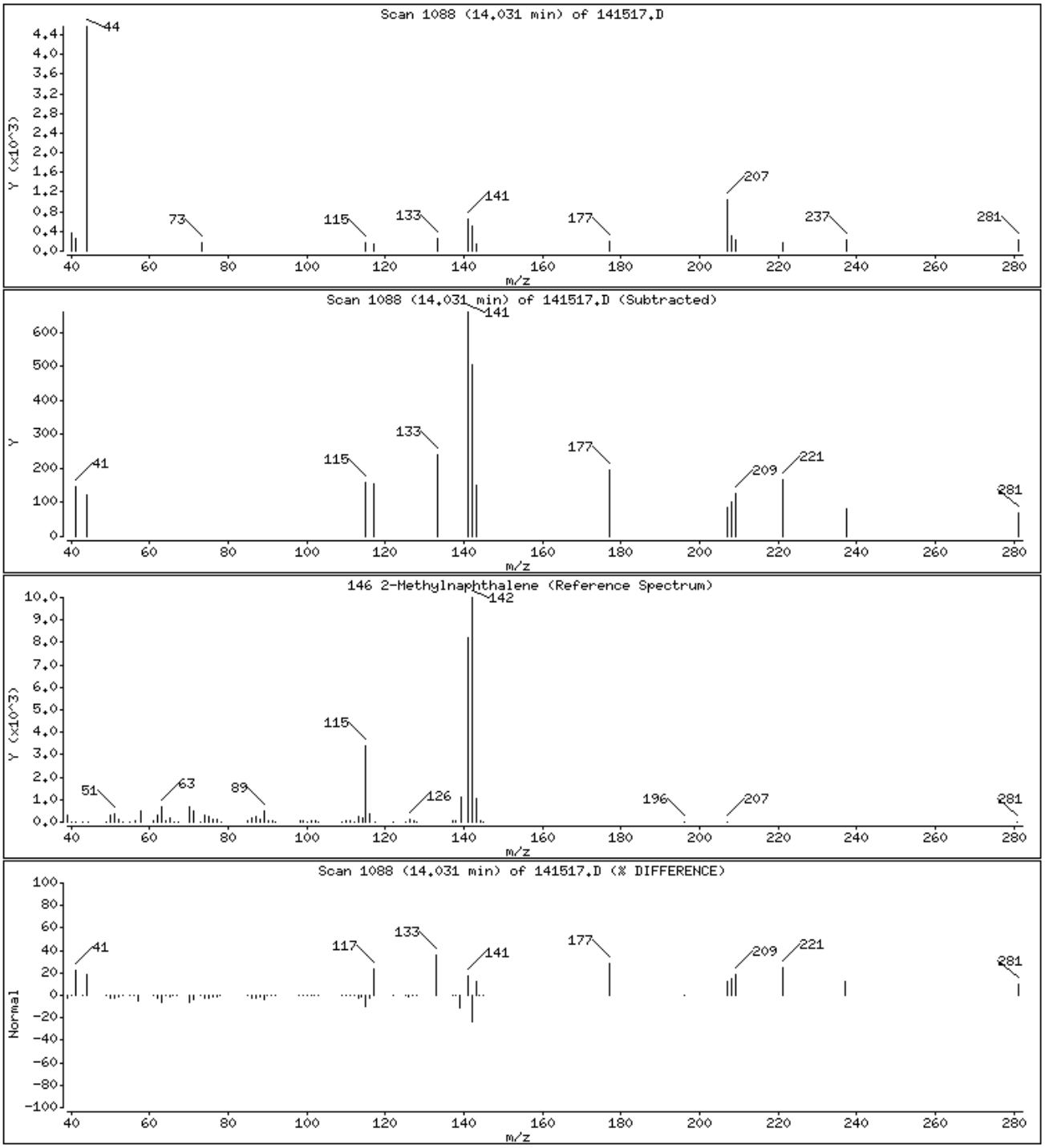
Client ID: SED 2 Instrument: a3ux14.i

Sample Info: L4K241AA,3.43G/5ML

Purge Volume: 3.4 Operator: 2807

Column phase: DB624 Column diameter: 0.18

146 2-Methylnaphthalene Concentration: 2.553 UG/KG



Cardinal Resources

Client Sample ID: OW24

GC/MS Volatiles

Lot-Sample #...: A0G230443-011 **Work Order #...:** L4K291AJ **Matrix.....:** WG
Date Sampled...: 07/22/10 14:20 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	**0.47 J**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW24

GC/MS Volatiles

Lot-Sample #...: A0G230443-011 **Work Order #...:** L4K291AJ **Matrix.....:** WG

NOTE(S):

J Estimated result. Result is less than RL.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D
Report Date: 02-Aug-2010 12:32

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D
Lab Smp Id: L4K291AJ Client Smp ID: OW24
Inj Date : 01-AUG-2010 19:05
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K291AJ,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.354	5.354	(1.000)	1487592	50.0000	
* 2	Chlorobenzene-d5	117	8.040	8.040	(1.000)	1042627	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	463815	50.0000	
$ 4	Dibromofluoromethane	113	4.774	4.774	(0.892)	417570	42.6934	8.539
$ 5	1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	740458	42.4034	8.481
$ 6	Toluene-d8	98	6.727	6.727	(0.837)	1842705	43.8400	8.768
$ 7	Bromofluorobenzene	95	9.152	9.152	(1.138)	664269	43.5759	8.715
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	1.792	1.792	(0.335)	44151	2.35134	0.4703
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D
Report Date: 02-Aug-2010 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D
Report Date: 02-Aug-2010 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	4.431	4.431	(0.828)	18269	1.88830	0.3776
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.999	4.999	(0.622)	19820	71.1561	14.231
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
103	Cyclohexanone	55	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	Compound Not Detected.					
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D
Report Date: 02-Aug-2010 12:32

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1175.D
Lab Smp Id: L4K291AJ
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

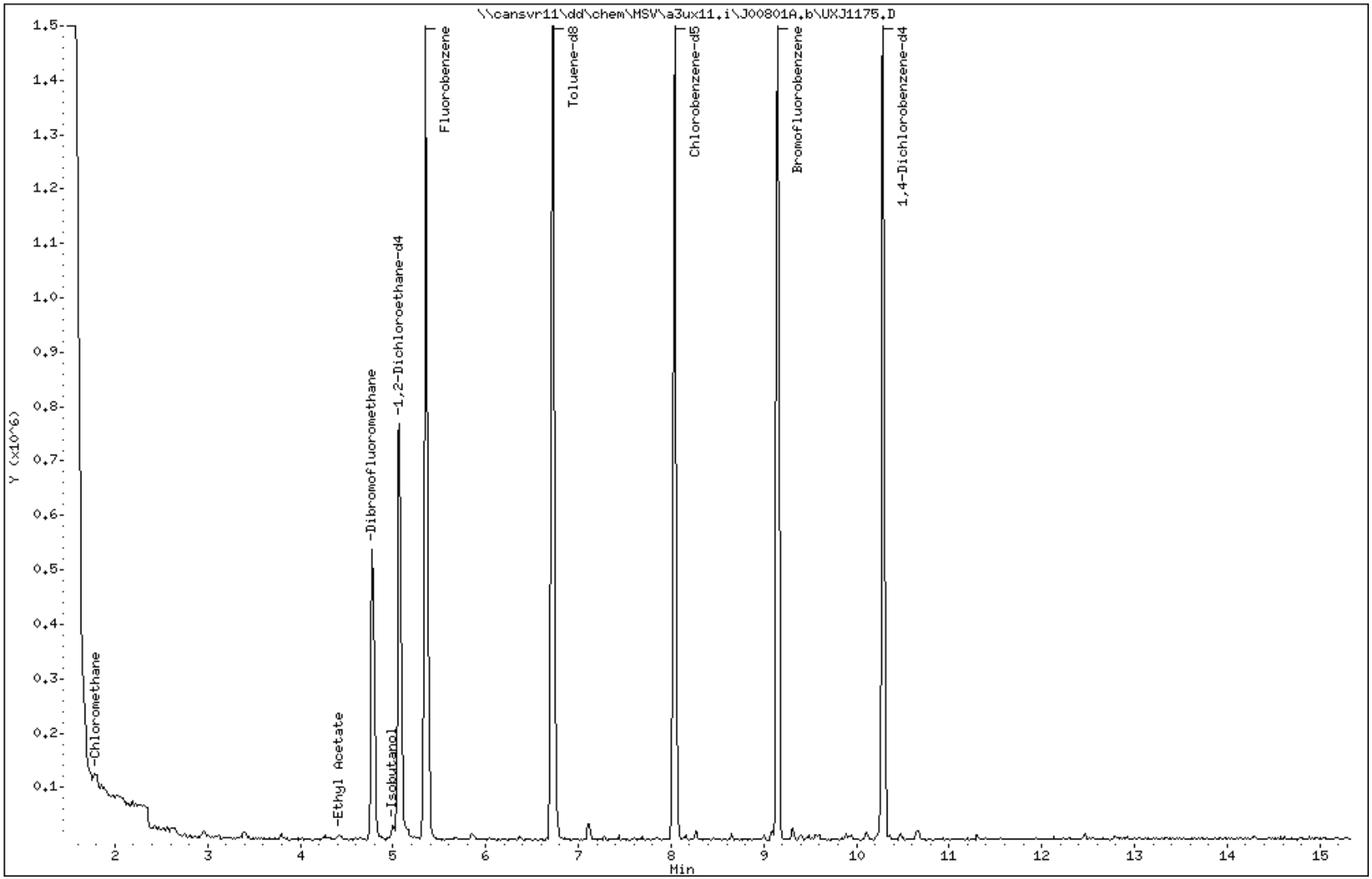
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: OW24
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1487592	-8.76
2 Chlorobenzene-d5	1193156	596578	2386312	1042627	-12.62
3 1,4-Dichlorobenze	593165	296583	1186330	463815	-21.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D
Date : 01-AUG-2010 19:05
Client ID: OW24
Instrument: a3ux11.i
Sample Info: L4K291AJ,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D

Date : 01-AUG-2010 19:05

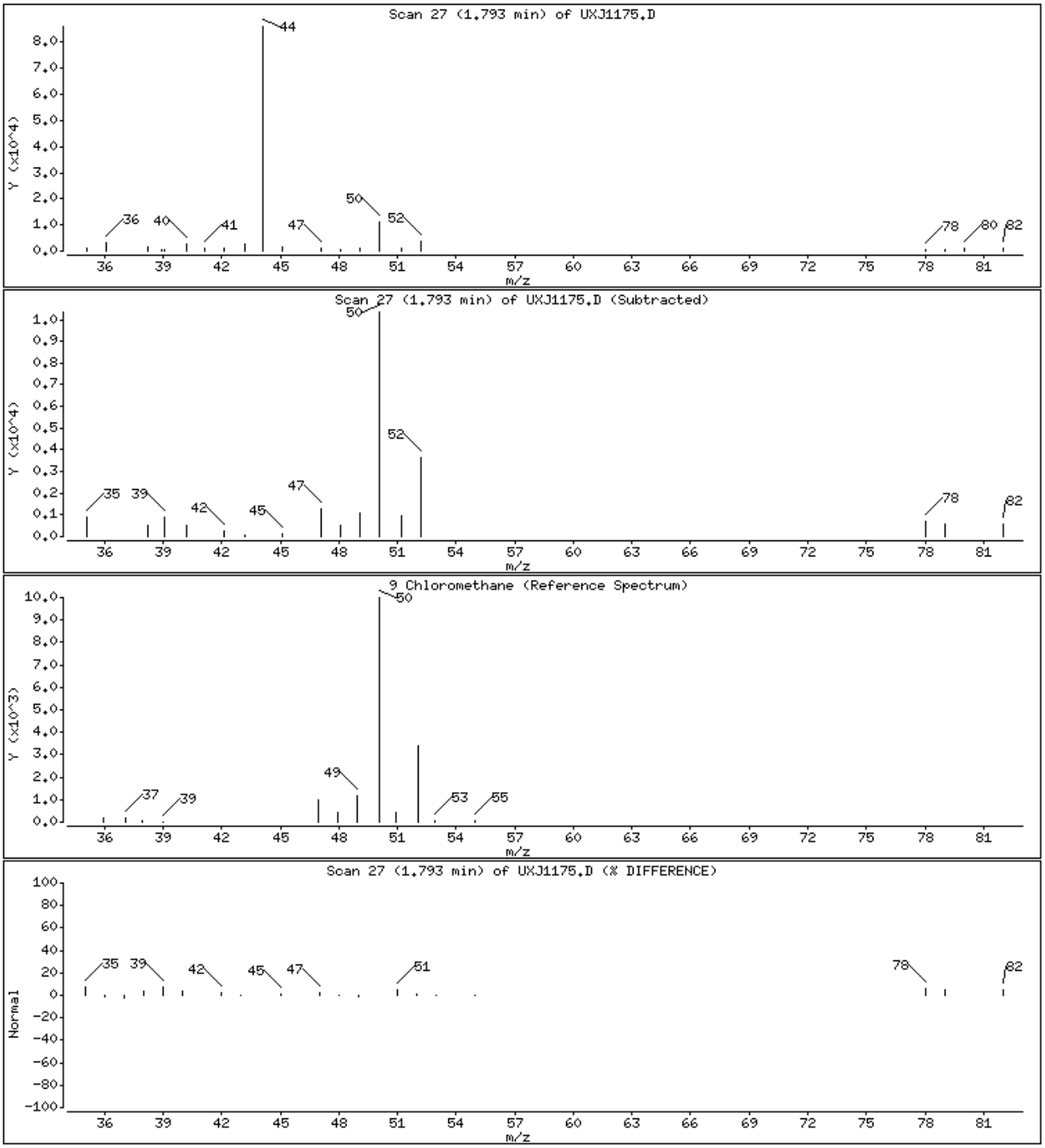
Client ID: OW24 Instrument: a3ux11.i

Sample Info: L4K291AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

9 Chloromethane Concentration: 0.4703 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D

Date : 01-AUG-2010 19:05

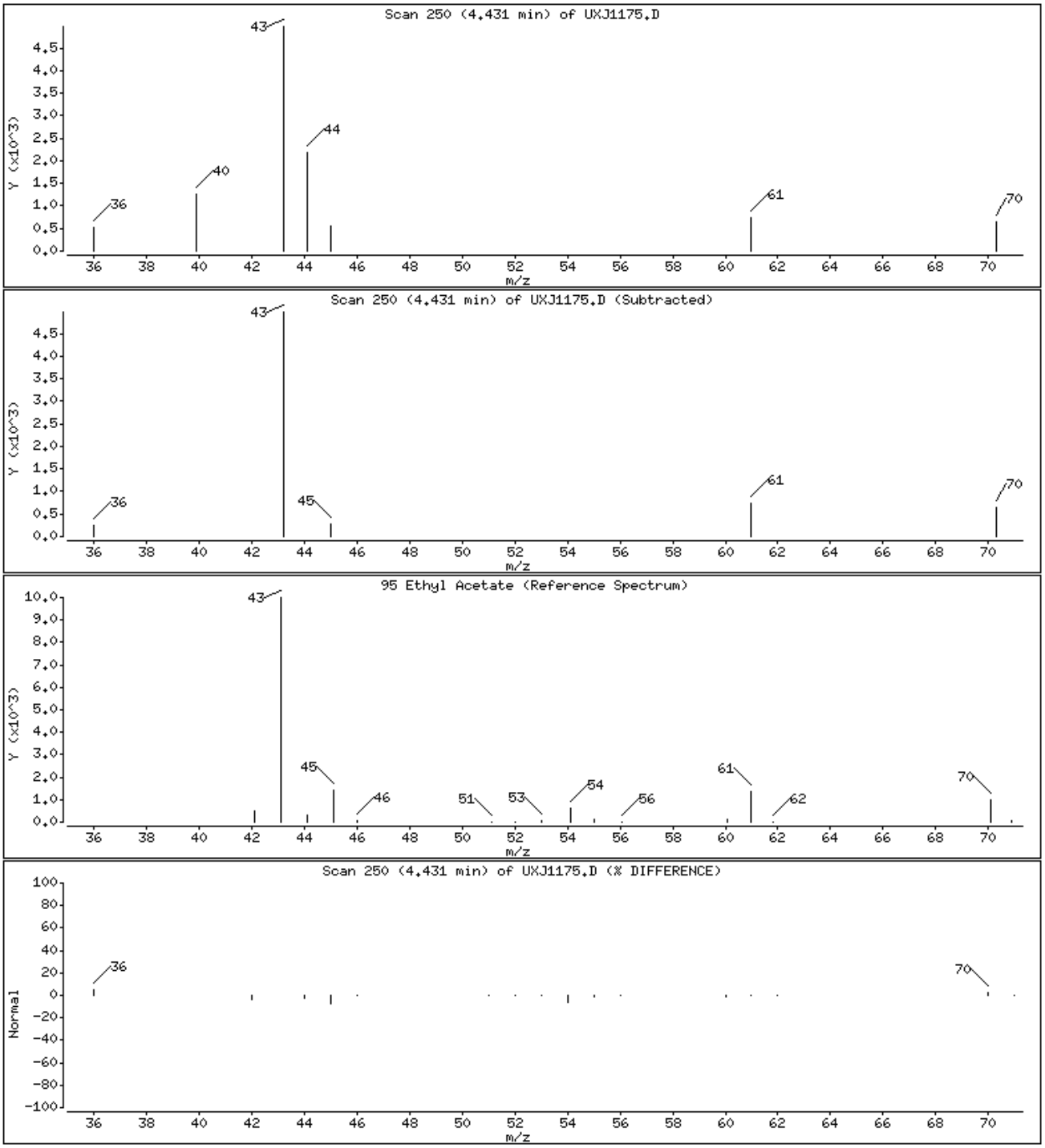
Client ID: OW24 Instrument: a3ux11.i

Sample Info: L4K291AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

95 Ethyl Acetate Concentration: 0.3776 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1175.D

Date : 01-AUG-2010 19:05

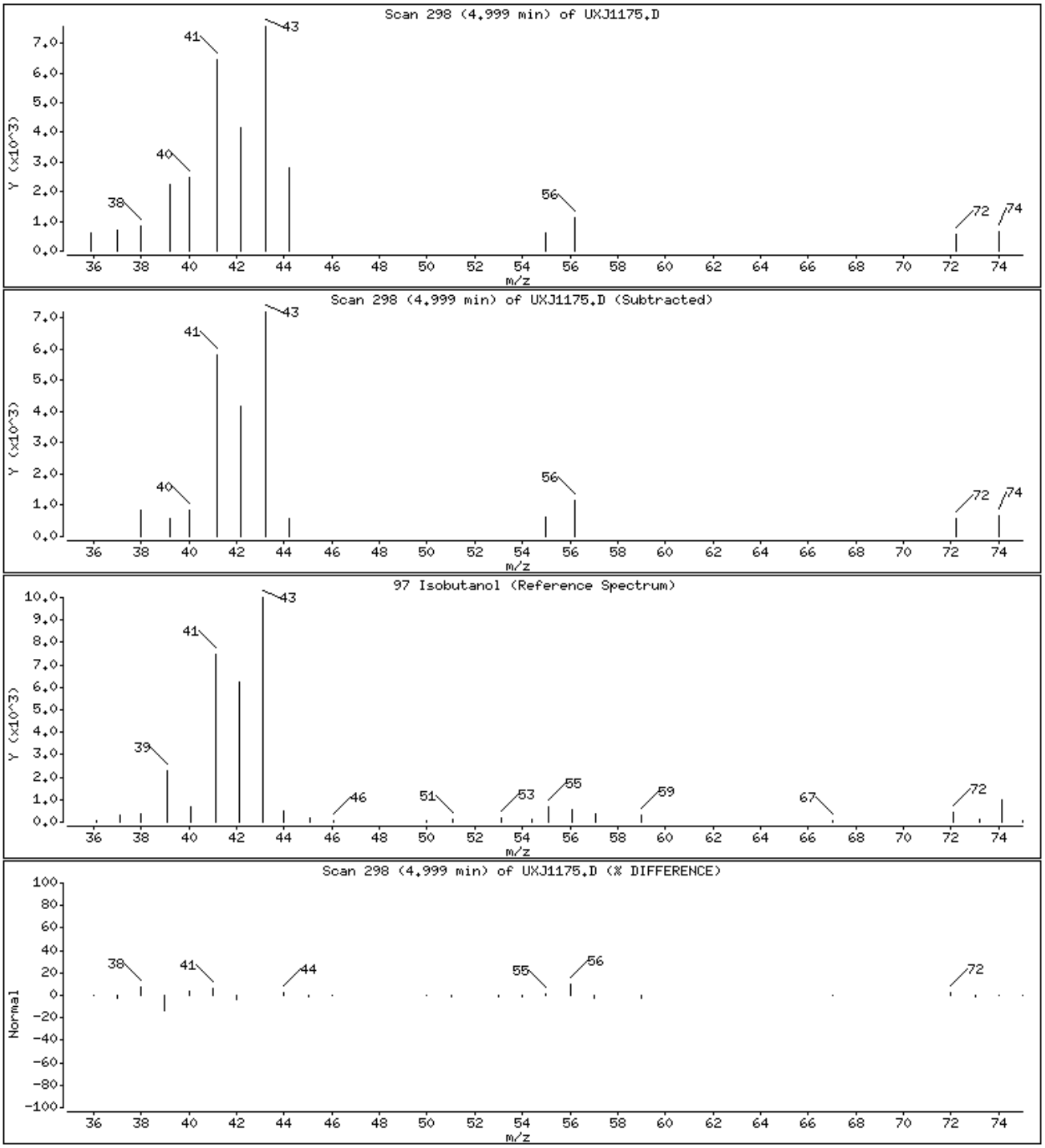
Client ID: OW24 Instrument: a3ux11.i

Sample Info: L4K291AJ,5ML/5ML

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

97 Isobutanol Concentration: 14.231 ug/L



Cardinal Resources

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A0G230443-012 **Work Order #...:** L4K3C1AA **Matrix.....:** WQ
Date Sampled...: 07/22/10 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
1,2-Dichloroethane-d4	84	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1176.D
Report Date: 02-Aug-2010 12:32

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1176.D
Lab Smp Id: L4K3C1AA Client Smp ID: TRIP BLANK
Inj Date : 01-AUG-2010 19:28
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K3C1AA,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1442450	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1020825	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	445554	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	405996	42.8091	8.562
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	712059	42.0532	8.411
$ 6 Toluene-d8	98	6.726	6.727	(0.837)	1778077	43.2059	8.641
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	649858	43.5410	8.708
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.964	2.952	(0.554)	51241	4.70424	0.9408
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1176.D
Report Date: 02-Aug-2010 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1176.D
Report Date: 02-Aug-2010 12:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	Compound Not Detected.					
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	Compound Not Detected.					
88	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
103	Cyclohexanone	55	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
146	2-Methylnaphthalene	142	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	Compound Not Detected.					
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	Compound Not Detected.					
157	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1176.D
Report Date: 02-Aug-2010 12:32

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1176.D
Lab Smp Id: L4K3C1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582

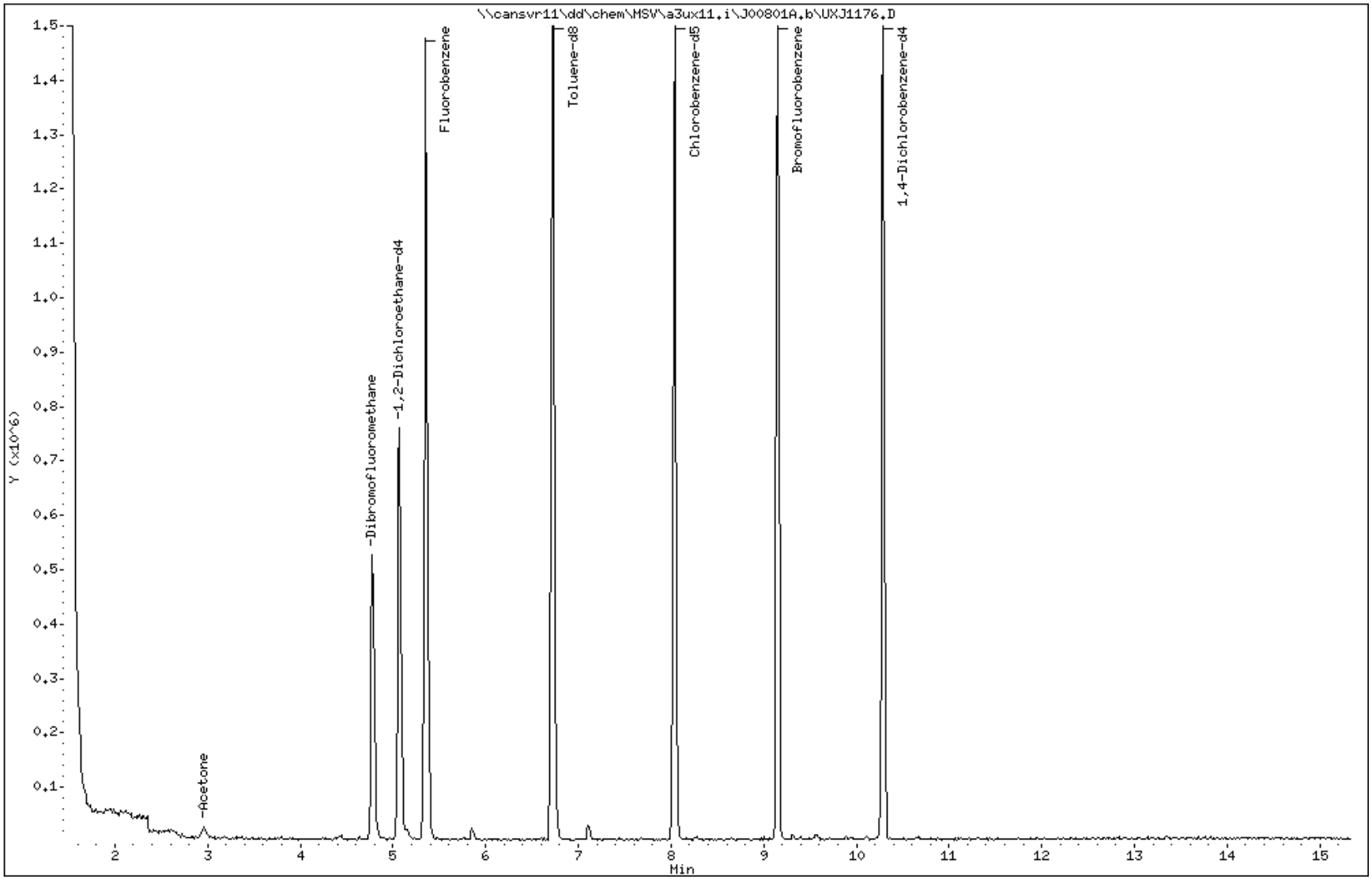
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: TRIP BLANK
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1442450	-11.53
2 Chlorobenzene-d5	1193156	596578	2386312	1020825	-14.44
3 1,4-Dichlorobenze	593165	296583	1186330	445554	-24.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1176.D
Date : 01-AUG-2010 19:28
Client ID: TRIP BLANK
Instrument: a3ux11.i
Sample Info: L4K3C1AA,5ML/5ML
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1176.D

Date : 01-AUG-2010 19:28

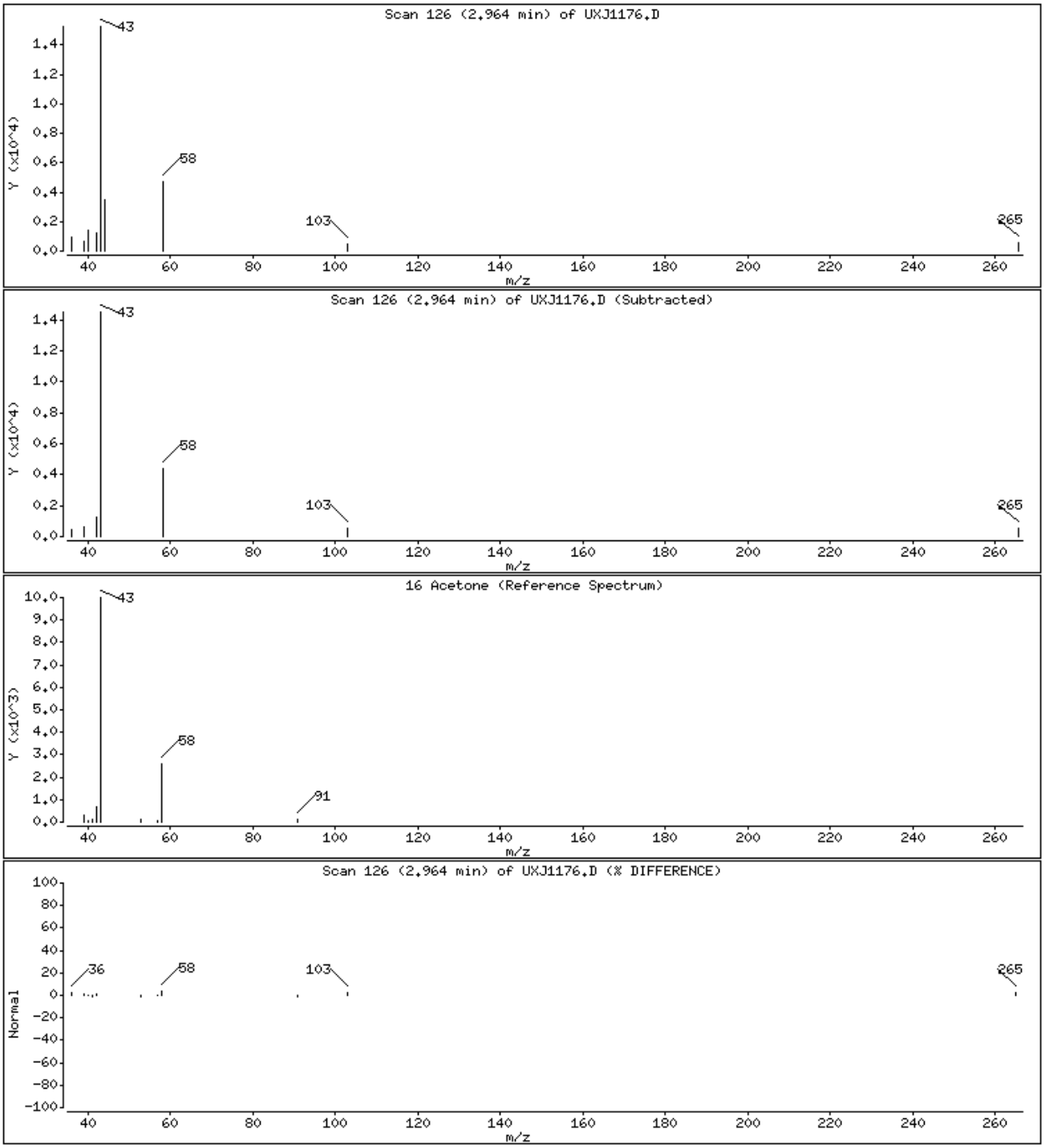
Client ID: TRIP BLANK | Instrument: a3ux11.i

Sample Info: L4K3C1AA,5ML/5ML

Purge Volume: 5.0 | Operator: 43582

Column phase: DB624 | Column diameter: 0.18

16 Acetone | Concentration: 0.9408 ug/L



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 31-Jul-2010 11:11

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Start Cal Date: 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
18-JUN-2010 03:08	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0110.D
30-JUL-2010 17:12	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1131.D
Cal Level: 2 , Cal Amount: 10.00000		
18-JUN-2010 02:46	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0109.D
30-JUL-2010 16:50	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1130.D
Cal Level: 3 , Cal Amount: 25.00000		
18-JUN-2010 02:23	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0108.D
30-JUL-2010 16:27	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1129.D
Cal Level: 4 , Cal Amount: 50.00000		
18-JUN-2010 02:01	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0107.D
30-JUL-2010 16:04	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1128.D
Cal Level: 5 , Cal Amount: 100.00000		
18-JUN-2010 01:38	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0106.D
30-JUL-2010 15:41	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1127.D
Cal Level: 6 , Cal Amount: 200.00000		
18-JUN-2010 01:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0105.D
30-JUL-2010 15:19	2-8260	

\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1126.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

30-JUL-2010 16:04	2-8260	
\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1128.D		

Report Date : 01-Aug-2010 14:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0110.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0109.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0108.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0107.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0106.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0105.D

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	8 Dichlorodifluoromethane	0.43320	0.35101	0.42153	0.41458	0.39432	0.42626	0.40682	7.473
	9 Chloromethane	0.61045	0.61104	0.60942	0.60621	0.72424	0.62534	0.63112	7.305
	10 Vinyl Chloride	0.52618	0.55507	0.54952	0.54609	0.60182	0.53549	0.55236	4.770
	11 Bromomethane	0.06445	0.09323	0.09365	0.09914	0.11637	0.10517	0.09534	18.259
	12 Chloroethane	0.18206	0.19211	0.18346	0.18283	0.20691	0.18080	0.18803	5.365
	13 Trichlorofluoromethane	0.21564	0.29236	0.33800	0.34933	0.33559	0.39937	0.32171	19.344
	14 Dichlorofluoromethane	0.44662	0.47557	0.45721	0.46431	0.49907	0.45292	0.46595	4.085
	15 Acrolein	0.06621	0.06950	0.07064	0.06931	0.07268	0.07351	0.07031	3.734
	16 Acetone	0.26072	0.20689	0.17568	0.16231	0.15688	0.16511	0.18793	21.216
	17 1,1-Dichloroethene	0.30656	0.30838	0.34037	0.32794	0.31930	0.33653	0.32318	4.390
	18 Freon-113	0.12727	0.12420	0.16316	0.15991	0.13710	0.15800	0.14494	12.070
	19 Iodomethane	0.28432	0.33150	0.31679	0.31462	0.29544	0.26881	0.30191	7.706
	20 Carbon Disulfide	0.76812	0.77658	0.83259	0.85059	0.89708	0.91705	0.84034	7.248
	21 Methylene Chloride	0.73814	0.55885	0.41845	0.36598	0.35511	0.32646	0.46050	34.545
	22 Acetonitrile	0.06562	0.06183	0.05855	0.05880	0.05943	0.06119	0.06090	4.366
	23 Acrylonitrile	0.20080	0.18207	0.18871	0.18809	0.19629	0.19608	0.19201	3.586
	24 Methyl tert-butyl ether	1.01058	1.08713	1.06343	1.07074	1.17325	1.17369	1.09647	5.921
	25 trans-1,2-Dichloroethene	0.36218	0.38816	0.37277	0.36898	0.38663	0.37233	0.37518	2.720
	26 Hexane	0.11838	0.07793	0.11022	0.11095	0.09636	0.11007	0.10398	14.060
	27 Vinyl acetate	0.76153	0.79859	0.81844	0.87472	0.95541	0.99501	0.86728	10.621
	28 1,1-Dichloroethane	0.76408	0.83490	0.79353	0.78847	0.83474	0.82605	0.80696	3.625
	29 tert-Butyl Alcohol	0.02235	0.02330	0.02580	0.02527	0.02681	0.02848	0.02533	8.887
	30 2-Butanone	0.28915	0.26109	0.26231	0.25675	0.26392	0.27238	0.26760	4.387
M	31 1,2-Dichloroethene (total)	0.38624	0.39508	0.38454	0.37586	0.40143	0.38045	0.38727	2.441
	32 cis-1,2-dichloroethene	0.41030	0.40201	0.39632	0.38274	0.41623	0.38857	0.39936	3.194
	33 2,2-Dichloropropane	0.28149	0.27171	0.29619	0.30737	0.31666	0.32141	0.29914	6.590
	34 Bromochloromethane	0.16100	0.17028	0.16861	0.15663	0.17644	0.16371	0.16611	4.274
	35 Chloroform	0.69481	0.70025	0.69973	0.68090	0.74159	0.72732	0.70743	3.184

Report Date : 01-Aug-2010 14:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler
Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	36 Tetrahydrofuran	0.28493	0.23123	0.18592	0.16237	0.16751	0.17274	0.20079	23.987	
	37 1,1,1-Trichloroethane	0.40627	0.40441	0.44057	0.43453	0.45559	0.45966	0.43351	5.470	
	38 1,1-Dichloropropene	0.62598	0.57813	0.64384	0.61385	0.63741	0.64512	0.62406	4.073	
	39 Carbon Tetrachloride	0.34615	0.33660	0.37993	0.37959	0.38872	0.41614	0.37452	7.768	
	40 1,2-Dichloroethane	0.66790	0.69589	0.65562	0.64982	0.69729	0.72398	0.68175	4.210	
	41 Benzene	1.92390	1.82378	1.74209	1.68148	1.81875	1.74281	1.78880	4.756	
	42 Trichloroethene	0.33896	0.33964	0.35311	0.34421	0.36233	0.34423	0.34708	2.599	
	43 1,2-Dichloropropane	0.45762	0.48777	0.45919	0.45244	0.50105	0.47978	0.47298	4.123	
	44 1,4-Dioxane	0.00278	0.00277	0.00316	0.00313	0.00330	0.00337	0.00308	8.295	<-
	45 Dibromomethane	0.22537	0.23181	0.22350	0.22818	0.24565	0.23965	0.23236	3.726	
	46 Bromodichloromethane	0.41804	0.45128	0.46354	0.48083	0.54090	0.54988	0.48408	10.706	
	47 2-Chloroethyl vinyl ether	0.27338	0.29395	0.30445	0.31023	0.33759	0.33961	0.30987	8.250	
	48 cis-1,3-Dichloropropene	0.49687	0.58842	0.60069	0.62718	0.72619	0.72175	0.62685	13.895	
	49 4-Methyl-2-pentanone	0.41707	0.42437	0.46275	0.47287	0.50561	0.53436	0.46951	9.692	
	50 Toluene	2.45768	2.53397	2.43801	2.38536	2.56804	2.40575	2.46480	2.926	
	51 trans-1,3-Dichloropropene	0.65196	0.75196	0.77691	0.82140	0.92190	0.91806	0.80703	12.843	
	52 Ethyl Methacrylate	0.64764	0.71113	0.75534	0.79310	0.86500	0.86109	0.77222	11.061	
	53 1,1,2-Trichloroethane	0.50006	0.49494	0.47779	0.46822	0.48498	0.45293	0.47982	3.642	
	54 1,3-Dichloropropane	1.03269	1.02064	0.97862	0.96587	1.03946	0.99626	1.00559	2.984	
	55 Tetrachloroethene	0.39529	0.40974	0.37549	0.36577	0.38270	0.36437	0.38223	4.626	
	56 2-Hexanone	0.39826	0.40192	0.42863	0.45762	0.47845	0.49557	0.44341	9.093	
	57 Dibromochloromethane	0.33745	0.37706	0.38646	0.41028	0.46316	0.46097	0.40590	12.183	
	58 1,2-Dibromoethane	0.41477	0.45823	0.44749	0.45631	0.48657	0.46009	0.45391	5.122	
	59 Chlorobenzene	1.42639	1.47886	1.40781	1.39195	1.50492	1.40649	1.43607	3.158	
	60 1,1,1,2-Tetrachloroethane	0.39288	0.41807	0.42502	0.43786	0.48887	0.46479	0.43792	7.849	
	61 Ethylbenzene	0.78292	0.76176	0.78551	0.78083	0.84993	0.78806	0.79150	3.804	
	62 m + p-Xylene	0.93997	0.99773	0.95280	0.95970	1.05519	1.00577	0.98519	4.360	
M	63 Xylenes (total)	0.93181	0.98145	0.94192	0.94478	1.03731	0.98368	0.97016	4.053	
	64 Xylene-o	0.91550	0.94888	0.92017	0.91494	1.00155	0.93952	0.94009	3.525	
	65 Styrene	1.40411	1.55920	1.55325	1.60182	1.76482	1.67625	1.59324	7.684	
	66 Bromoform	0.17895	0.17896	0.19123	0.20693	0.24857	0.26561	0.21171	17.487	
	67 Isopropylbenzene	2.29991	2.33423	2.39484	2.44971	2.71234	2.63955	2.47176	6.791	
	68 1,1,2,2-Tetrachloroethane	1.36705	1.38818	1.37761	1.36883	1.42672	1.23789	1.36105	4.715	
	69 1,4-Dichloro-2-butene	0.34323	0.30798	0.37327	0.41363	0.43412	0.44946	0.38695	14.239	
	70 1,2,3-Trichloropropane	0.45370	0.42317	0.40111	0.43501	0.43397	0.38613	0.42218	5.842	
	71 Bromobenzene	1.11862	1.16956	1.11326	1.13099	1.18464	0.99224	1.11822	6.079	

Report Date : 01-Aug-2010 14:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD	
72 n-Propylbenzene	1.28169	1.36658	1.33355	1.35376	1.39112	1.21773	1.32407	4.822	
73 2-Chlorotoluene	1.17356	1.13814	1.13710	1.14706	1.18519	1.01752	1.13309	5.287	
74 1,3,5-Trimethylbenzene	3.98717	4.18215	4.25818	4.31642	4.50519	4.04734	4.21607	4.468	
75 4-Chlorotoluene	1.19462	1.29874	1.20947	1.20973	1.26171	1.07233	1.20777	6.382	
76 tert-Butylbenzene	3.38954	3.30586	3.42879	3.54202	3.69382	3.65710	3.50285	4.403	
77 1,2,4-Trimethylbenzene	4.10564	4.36710	4.38588	4.38550	4.65616	4.52839	4.40478	4.187	
78 sec-Butylbenzene	4.78470	4.94005	5.13637	5.28253	5.50751	5.57854	5.20495	6.006	
79 4-Isopropyltoluene	3.64619	3.90766	3.98981	4.07590	4.31148	4.23373	4.02746	5.946	
80 1,3-Dichlorobenzene	2.25833	2.22593	2.11556	2.12255	2.26135	2.14364	2.18789	3.118	
81 1,4-Dichlorobenzene	2.29034	2.21612	2.16022	2.20067	2.30894	2.18969	2.22766	2.647	
82 n-Butylbenzene	3.46394	3.39922	3.71592	3.79146	4.06264	3.86317	3.71606	6.716	
83 1,2-Dichlorobenzene	2.01634	1.92467	1.98794	1.91778	2.07038	1.93381	1.97516	3.078	
84 1,2-Dibromo-3-chloropropane	0.10076	0.08274	0.09089	0.09932	0.10702	0.09534	0.09601	8.809	
85 1,2,4-Trichlorobenzene	0.61256	0.61371	0.60706	0.64636	0.72936	0.68497	0.64900	7.577	
86 Hexachlorobutadiene	0.20653	0.22802	0.22136	0.22450	0.24376	0.23899	0.22720	5.848	
87 Naphthalene	1.52771	1.53748	1.70472	1.86458	2.14772	2.13521	1.81957	15.295	
88 1,2,3-Trichlorobenzene	0.56298	0.57339	0.60590	0.63034	0.69996	0.65244	0.62083	8.267	
89 Ethyl Ether	0.30480	0.30310	0.28494	0.28826	0.32680	0.28253	0.29841	5.618	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91 3-Chloropropene	0.14754	0.13334	0.13658	0.15967	0.17623	0.16307	0.15274	10.841	
92 Isopropyl Ether	0.29535	0.28929	0.30396	0.31635	0.34834	0.30247	0.30929	6.849	
93 2-Chloro-1,3-butadiene	0.48186	0.46398	0.47333	0.50571	0.54558	0.48117	0.49194	6.039	
94 Propionitrile	0.04820	0.04604	0.04767	0.04723	0.05089	0.04666	0.04778	3.552	
95 Ethyl Acetate	0.35203	0.31064	0.31294	0.31195	0.34366	0.31989	0.32518	5.547	
96 Methacrylonitrile	0.22188	0.20153	0.20561	0.21094	0.23142	0.21496	0.21439	5.113	
97 Isobutanol	0.01281	0.01313	0.01319	0.01306	0.01471	0.01324	0.01336	5.089	
98 Cyclohexane	0.69945	0.64711	0.77199	0.76144	0.69217	0.78694	0.72652	7.578	
99 n-Butanol	0.00712	0.00793	0.00862	0.00907	0.01111	0.01078	0.00910	17.268	<-
100 Methyl Methacrylate	0.23124	0.24437	0.26072	0.28061	0.31028	0.29933	0.27109	11.470	
101 2-Nitropropane	0.05680	0.05601	0.05997	0.06388	0.07701	0.07546	0.06486	14.264	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
103 Cyclohexanone	0.02157	0.02495	0.02853	0.02972	0.02926	0.03579	0.02830	16.990	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Report Date : 01-Aug-2010 14:17

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler
Curve Type : Average

	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M	137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	141 1,3,5-Trichlorobenzene	0.70209	0.68109	0.63383	0.66875	0.73182	0.68606	0.68394	4.794	
	143 Methyl Acetate	0.45409	0.43310	0.42873	0.41834	0.44183	0.45959	0.43928	3.565	
	144 Methylcyclohexane	0.68117	0.58171	0.69837	0.69472	0.61645	0.71434	0.66446	7.960	
	145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	146 2-Methylnaphthalene	0.51403	0.52039	0.49150	0.64993	0.72911	+++++	0.58099	17.816	
	147 Tetrahydrothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	148 1,4-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	149 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	150 Vinyl Acetate-86	0.05698	0.05895	0.06526	0.07112	0.08020	0.07600	0.06808	13.678	
	151 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	152 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	155 t-Butyl ethyl ether	0.85963	0.82998	0.86844	0.90774	1.01467	0.90019	0.89678	7.171	
	156 t-Amyl methyl ether	0.70010	0.70293	0.75882	0.81257	0.91513	0.87203	0.79360	11.193	
	157 1,2,3-Trimethylbenzene	2.68476	2.68474	3.01171	3.39604	3.77338	3.82613	3.22946	15.913	
$	4 Dibromofluoromethane	0.30943	0.33250	0.33231	0.31107	0.35350	0.33364	0.32874	4.997	
$	5 1,2-Dichloroethane-d4	0.55589	0.58761	0.58623	0.56254	0.61429	0.61501	0.58693	4.240	
$	6 Toluene-d8	2.02103	2.03077	1.98164	1.97098	2.13752	1.95227	2.01570	3.312	
$	7 Bromofluorobenzene	0.69460	0.72522	0.70877	0.71042	0.79803	0.74916	0.73104	5.154	

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TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0110.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0109.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0108.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0107.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0106.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0105.D

	5.0000	10.0000	25.0000	50.0000	100.0000	200.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
8 Dichlorodifluoromethane	0.43320	0.35101	0.42153	0.41458	0.39432	0.42626	AVRG		0.40682		7.47310
9 Chloromethane	0.61045	0.61104	0.60942	0.60621	0.72424	0.62534	AVRG		0.63112		7.30462
10 Vinyl Chloride	0.52618	0.55507	0.54952	0.54609	0.60182	0.53549	AVRG		0.55236		4.77010
11 Bromomethane	10574	31228	78327	166306	393866	590874	WLINR	0.04143	0.10951		0.99613
12 Chloroethane	0.18206	0.19211	0.18346	0.18283	0.20691	0.18080	AVRG		0.18803		5.36544
13 Trichlorofluoromethane	35380	97927	282697	585990	1135805	2243731	WLINR	0.04259	0.37206		0.99595
14 Dichlorofluoromethane	0.44662	0.47557	0.45721	0.46431	0.49907	0.45292	AVRG		0.46595		4.08549
15 Acrolein	0.06621	0.06950	0.07064	0.06931	0.07268	0.07351	AVRG		0.07031		3.73442
16 Acetone	85554	138598	293876	544557	1061907	1855297	WLINR	-0.13458	0.15535		0.99901
17 1,1-Dichloroethene	0.30656	0.30838	0.34037	0.32794	0.31930	0.33653	AVRG		0.32318		4.39006
18 Freon-113	0.12727	0.12420	0.16316	0.15991	0.13710	0.15800	AVRG		0.14494		12.07025
19 Iodomethane	0.28432	0.33150	0.31679	0.31462	0.29544	0.26881	AVRG		0.30191		7.70557
20 Carbon Disulfide	0.76812	0.77658	0.83259	0.85059	0.89708	0.91705	AVRG		0.84034		7.24839
21 Methylene Chloride	121107	187190	349985	613921	1201875	1834152	WLINR	-0.13737	0.32219		0.99907

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TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler

	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	22 Acetonitrile	0.06562	0.06183	0.05855	0.05880	0.05943	0.06119	AVRG		0.06090		4.36582
	23 Acrylonitrile	0.20080	0.18207	0.18871	0.18809	0.19629	0.19608	AVRG		0.19201		3.58622
	24 Methyl tert-butyl ether	1.01058	1.08713	1.06343	1.07074	1.17325	1.17369	AVRG		1.09647		5.92121
	25 trans-1,2-Dichloroethene	0.36218	0.38816	0.37277	0.36898	0.38663	0.37233	AVRG		0.37518		2.72037
	26 Hexane	0.11838	0.07793	0.11022	0.11095	0.09636	0.11007	AVRG		0.10398		14.05973
	27 Vinyl acetate	0.76153	0.79859	0.81844	0.87472	0.95541	0.99501	AVRG		0.86728		10.62094
	28 1,1-Dichloroethane	0.76408	0.83490	0.79353	0.78847	0.83474	0.82605	AVRG		0.80696		3.62464
	29 tert-Butyl Alcohol	0.02235	0.02330	0.02580	0.02527	0.02681	0.02848	AVRG		0.02533		8.88717
	30 2-Butanone	0.28915	0.26109	0.26231	0.25675	0.26392	0.27238	AVRG		0.26760		4.38665
M	31 1,2-Dichloroethene (total)	0.38624	0.39508	0.38454	0.37586	0.40143	0.38045	AVRG		0.38727		2.44104
	32 cis-1,2-dichloroethene	0.41030	0.40201	0.39632	0.38274	0.41623	0.38857	AVRG		0.39936		3.19385
	33 2,2-Dichloropropane	0.28149	0.27171	0.29619	0.30737	0.31666	0.32141	AVRG		0.29914		6.59042
	34 Bromochloromethane	0.16100	0.17028	0.16861	0.15663	0.17644	0.16371	AVRG		0.16611		4.27375
	35 Chloroform	0.69481	0.70025	0.69973	0.68090	0.74159	0.72732	AVRG		0.70743		3.18368
	36 Tetrahydrofuran	46749	77453	155502	272375	566938	970513	WLINR	-0.06844	0.16541		0.99791
	37 1,1,1-Trichloroethane	0.40627	0.40441	0.44057	0.43453	0.45559	0.45966	AVRG		0.43351		5.46960
	38 1,1-Dichloropropene	0.62598	0.57813	0.64384	0.61385	0.63741	0.64512	AVRG		0.62406		4.07294
	39 Carbon Tetrachloride	0.34615	0.33660	0.37993	0.37959	0.38872	0.41614	AVRG		0.37452		7.76788
	40 1,2-Dichloroethane	0.66790	0.69589	0.65562	0.64982	0.69729	0.72398	AVRG		0.68175		4.21029
	41 Benzene	1.92390	1.82378	1.74209	1.68148	1.81875	1.74281	AVRG		1.78880		4.75583
	42 Trichloroethene	0.33896	0.33964	0.35311	0.34421	0.36233	0.34423	AVRG		0.34708		2.59869
	43 1,2-Dichloropropane	0.45762	0.48777	0.45919	0.45244	0.50105	0.47978	AVRG		0.47298		4.12282

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INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler

	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
	44 1,4-Dioxane	0.00278	0.00277	0.00316	0.00313	0.00330	0.00337	AVRG		0.00308		8.29475	<-
	45 Dibromomethane	0.22537	0.23181	0.22350	0.22818	0.24565	0.23965	AVRG		0.23236		3.72627	
	46 Bromodichloromethane	0.41804	0.45128	0.46354	0.48083	0.54090	0.54988	AVRG		0.48408		10.70555	
	47 2-Chloroethyl vinyl ether	0.27338	0.29395	0.30445	0.31023	0.33759	0.33961	AVRG		0.30987		8.24976	
	48 cis-1,3-Dichloropropene	0.49687	0.58842	0.60069	0.62718	0.72619	0.72175	AVRG		0.62685		13.89459	
	49 4-Methyl-2-pentanone	0.41707	0.42437	0.46275	0.47287	0.50561	0.53436	AVRG		0.46951		9.69189	
	50 Toluene	2.45768	2.53397	2.43801	2.38536	2.56804	2.40575	AVRG		2.46480		2.92607	
	51 trans-1,3-Dichloropropene	0.65196	0.75196	0.77691	0.82140	0.92190	0.91806	AVRG		0.80703		12.84312	
	52 Ethyl Methacrylate	0.64764	0.71113	0.75534	0.79310	0.86500	0.86109	AVRG		0.77222		11.06085	
	53 1,1,2-Trichloroethane	0.50006	0.49494	0.47779	0.46822	0.48498	0.45293	AVRG		0.47982		3.64170	
	54 1,3-Dichloropropane	1.03269	1.02064	0.97862	0.96587	1.03946	0.99626	AVRG		1.00559		2.98353	
	55 Tetrachloroethene	0.39529	0.40974	0.37549	0.36577	0.38270	0.36437	AVRG		0.38223		4.62563	
	56 2-Hexanone	0.39826	0.40192	0.42863	0.45762	0.47845	0.49557	AVRG		0.44341		9.09306	
	57 Dibromochloromethane	0.33745	0.37706	0.38646	0.41028	0.46316	0.46097	AVRG		0.40590		12.18259	
	58 1,2-Dibromoethane	0.41477	0.45823	0.44749	0.45631	0.48657	0.46009	AVRG		0.45391		5.12229	
	59 Chlorobenzene	1.42639	1.47886	1.40781	1.39195	1.50492	1.40649	AVRG		1.43607		3.15824	
	60 1,1,1,2-Tetrachloroethane	0.39288	0.41807	0.42502	0.43786	0.48887	0.46479	AVRG		0.43792		7.84875	
	61 Ethylbenzene	0.78292	0.76176	0.78551	0.78083	0.84993	0.78806	AVRG		0.79150		3.80444	
	62 m + p-Xylene	0.93997	0.99773	0.95280	0.95970	1.05519	1.00577	AVRG		0.98519		4.35968	
M	63 Xylenes (total)	0.93181	0.98145	0.94192	0.94478	1.03731	0.98368	AVRG		0.97016		4.05319	
	64 Xylene-o	0.91550	0.94888	0.92017	0.91494	1.00155	0.93952	AVRG		0.94009		3.52456	
	65 Styrene	1.40411	1.55920	1.55325	1.60182	1.76482	1.67625	AVRG		1.59324		7.68357	

Report Date : 01-Aug-2010 14:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
66 Bromoform	20227	41266	114195	245159	613356	1128058	WLINR	0.05810	0.25868		0.99232
67 Isopropylbenzene	2.29991	2.33423	2.39484	2.44971	2.71234	2.63955	AVRG		2.47176		6.79105
68 1,1,2,2-Tetrachloroethane	1.36705	1.38818	1.37761	1.36883	1.42672	1.23789	AVRG		1.36105		4.71464
69 1,4-Dichloro-2-butene	0.34323	0.30798	0.37327	0.41363	0.43412	0.44946	AVRG		0.38695		14.23943
70 1,2,3-Trichloropropane	0.45370	0.42317	0.40111	0.43501	0.43397	0.38613	AVRG		0.42218		5.84226
71 Bromobenzene	1.11862	1.16956	1.11326	1.13099	1.18464	0.99224	AVRG		1.11822		6.07935
72 n-Propylbenzene	1.28169	1.36658	1.33355	1.35376	1.39112	1.21773	AVRG		1.32407		4.82153
73 2-Chlorotoluene	1.17356	1.13814	1.13710	1.14706	1.18519	1.01752	AVRG		1.13309		5.28715
74 1,3,5-Trimethylbenzene	3.98717	4.18215	4.25818	4.31642	4.50519	4.04734	AVRG		4.21607		4.46826
75 4-Chlorotoluene	1.19462	1.29874	1.20947	1.20973	1.26171	1.07233	AVRG		1.20777		6.38219
76 tert-Butylbenzene	3.38954	3.30586	3.42879	3.54202	3.69382	3.65710	AVRG		3.50285		4.40288
77 1,2,4-Trimethylbenzene	4.10564	4.36710	4.38588	4.38550	4.65616	4.52839	AVRG		4.40478		4.18742
78 sec-Butylbenzene	4.78470	4.94005	5.13637	5.28253	5.50751	5.57854	AVRG		5.20495		6.00601
79 4-Isopropyltoluene	3.64619	3.90766	3.98981	4.07590	4.31148	4.23373	AVRG		4.02746		5.94559
80 1,3-Dichlorobenzene	2.25833	2.22593	2.11556	2.12255	2.26135	2.14364	AVRG		2.18789		3.11776
81 1,4-Dichlorobenzene	2.29034	2.21612	2.16022	2.20067	2.30894	2.18969	AVRG		2.22766		2.64705
82 n-Butylbenzene	3.46394	3.39922	3.71592	3.79146	4.06264	3.86317	AVRG		3.71606		6.71571
83 1,2-Dichlorobenzene	2.01634	1.92467	1.98794	1.91778	2.07038	1.93381	AVRG		1.97516		3.07780
84 1,2-Dibromo-3-chloropropane	0.10076	0.08274	0.09089	0.09932	0.10702	0.09534	AVRG		0.09601		8.80851
85 1,2,4-Trichlorobenzene	0.61256	0.61371	0.60706	0.64636	0.72936	0.68497	AVRG		0.64900		7.57668
86 Hexachlorobutadiene	0.20653	0.22802	0.22136	0.22450	0.24376	0.23899	AVRG		0.22720		5.84763
87 Naphthalene	77268	163280	466237	1013001	2583338	4815231	WLINR	0.04739	2.13587		0.99689

Report Date : 01-Aug-2010 14:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler

	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
88	1,2,3-Trichlorobenzene	0.56298	0.57339	0.60590	0.63034	0.69996	0.65244	AVRG		0.62083		8.26726	
89	Ethyl Ether	0.30480	0.30310	0.28494	0.28826	0.32680	0.28253	AVRG		0.29841		5.61838	
90	Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
91	3-Chloropropene	0.14754	0.13334	0.13658	0.15967	0.17623	0.16307	AVRG		0.15274		10.84079	
92	Isopropyl Ether	0.29535	0.28929	0.30396	0.31635	0.34834	0.30247	AVRG		0.30929		6.84899	
93	2-Chloro-1,3-butadiene	0.48186	0.46398	0.47333	0.50571	0.54558	0.48117	AVRG		0.49194		6.03854	
94	Propionitrile	0.04820	0.04604	0.04767	0.04723	0.05089	0.04666	AVRG		0.04778		3.55245	
95	Ethyl Acetate	0.35203	0.31064	0.31294	0.31195	0.34366	0.31989	AVRG		0.32518		5.54660	
96	Methacrylonitrile	0.22188	0.20153	0.20561	0.21094	0.23142	0.21496	AVRG		0.21439		5.11259	
97	Isobutanol	0.01281	0.01313	0.01319	0.01306	0.01471	0.01324	AVRG		0.01336		5.08904	
98	Cyclohexane	0.69945	0.64711	0.77199	0.76144	0.69217	0.78694	AVRG		0.72652		7.57822	
99	n-Butanol	12787	28936	80831	172873	427406	824380	WLINR	1.03030	0.01085		0.99556	<-
100	Methyl Methacrylate	0.23124	0.24437	0.26072	0.28061	0.31028	0.29933	AVRG		0.27109		11.46960	
101	2-Nitropropane	0.05680	0.05601	0.05997	0.06388	0.07701	0.07546	AVRG		0.06486		14.26401	
102	Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
103	Cyclohexanone	8942	21518	64999	139271	279726	676818	WLINR	0.35911	0.03204		0.99209	
104	Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105	Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
134	Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
135	Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
136	Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
M 137	Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Report Date : 01-Aug-2010 14:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
141 1,3,5-Trichlorobenzene	0.70209	0.68109	0.63383	0.66875	0.73182	0.68606	AVRG		0.68394		4.79449	
143 Methyl Acetate	0.45409	0.43310	0.42873	0.41834	0.44183	0.45959	AVRG		0.43928		3.56491	
144 Methylcyclohexane	0.68117	0.58171	0.69837	0.69472	0.61645	0.71434	AVRG		0.66446		7.95955	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
146 2-Methylnaphthalene	42626	89770	223968	609075	1394182	+++++	LINR	0.18876	0.75400		0.99419	
147 Tetrahydrothiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
148 1,4-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
149 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
150 Vinyl Acetate-86	0.05698	0.05895	0.06526	0.07112	0.08020	0.07600	AVRG		0.06808		13.67760	
151 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
152 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
155 t-Butyl ethyl ether	0.85963	0.82998	0.86844	0.90774	1.01467	0.90019	AVRG		0.89678		7.17070	
156 t-Amyl methyl ether	0.70010	0.70293	0.75882	0.81257	0.91513	0.87203	AVRG		0.79360		11.19337	
157 1,2,3-Trimethylbenzene	111316	231564	686194	1591278	3607673	7236370	WLINR	0.04894	3.81250		0.99735	
$ 4 Dibromofluoromethane	0.30943	0.33250	0.33231	0.31107	0.35350	0.33364	AVRG		0.32874		4.99656	
$ 5 1,2-Dichloroethane-d4	0.55589	0.58761	0.58623	0.56254	0.61429	0.61501	AVRG		0.58693		4.23963	
$ 6 Toluene-d8	2.02103	2.03077	1.98164	1.97098	2.13752	1.95227	AVRG		2.01570		3.31161	
$ 7 Bromofluorobenzene	0.69460	0.72522	0.70877	0.71042	0.79803	0.74916	AVRG		0.73104		5.15444	

Report Date : 01-Aug-2010 14:22

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\8260LLUX11.m
Last Edit : 31-Jul-2010 11:12 quayler

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☐ 8260A ☑ 8260B ☐ 624

Analysis Date: 7/30/10 Run batch ID: —

Curve ID: J007 30B-IC.b (curve ID must include instrument designation and date reference)

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

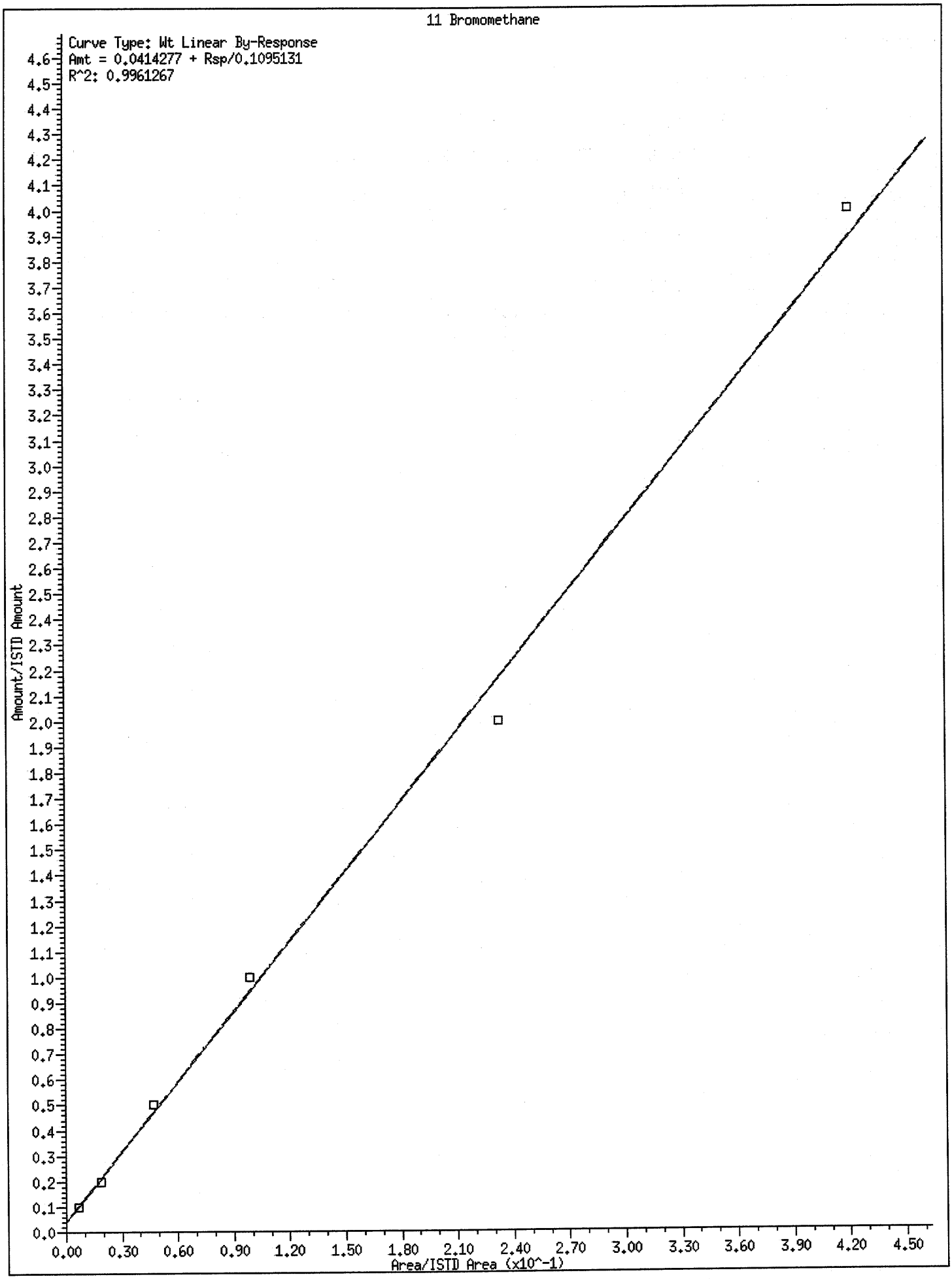
Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented	NA		NA	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

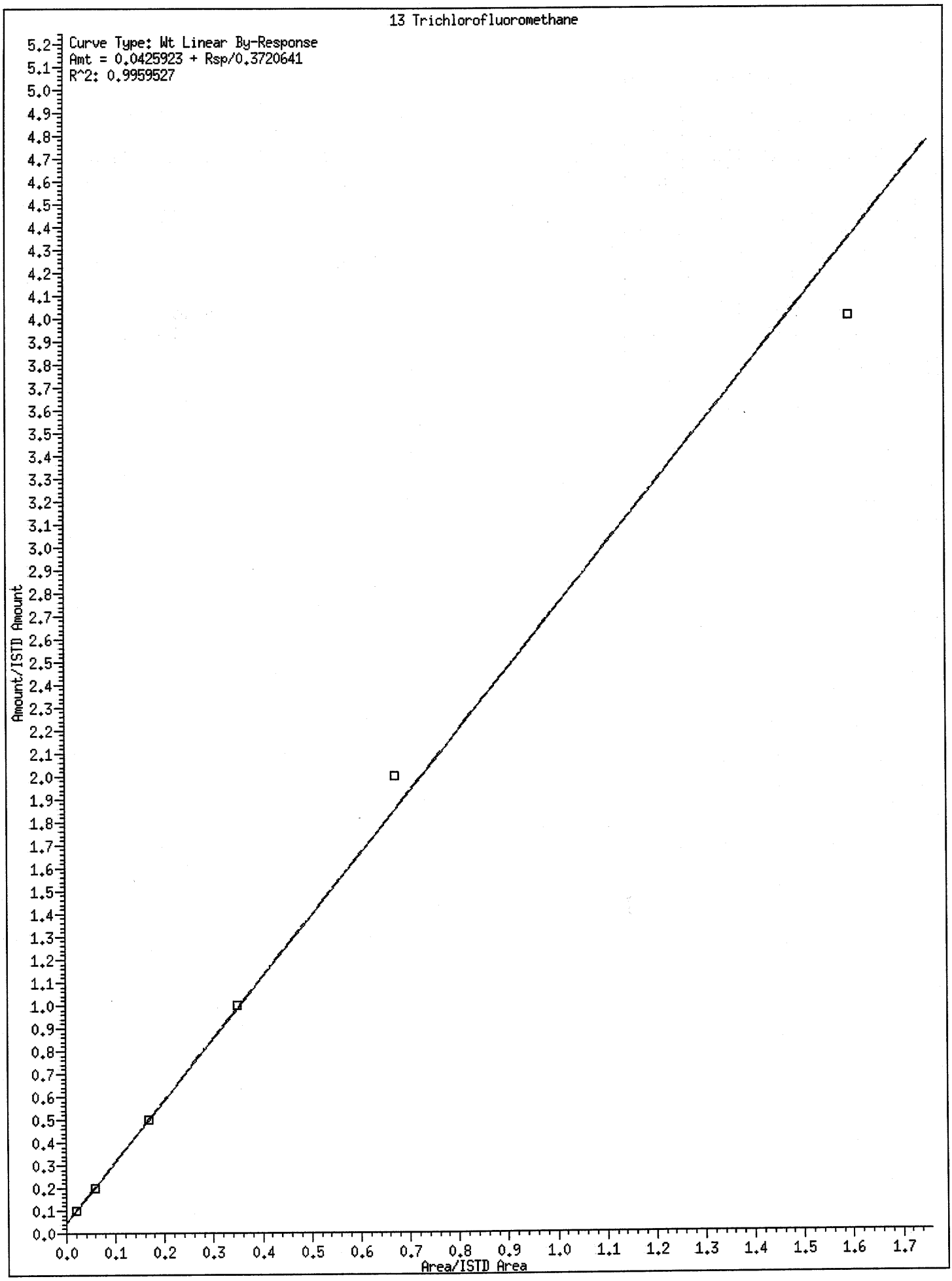
Reviewed by Analyst/ Level I: [signature] Date: 8/2/10

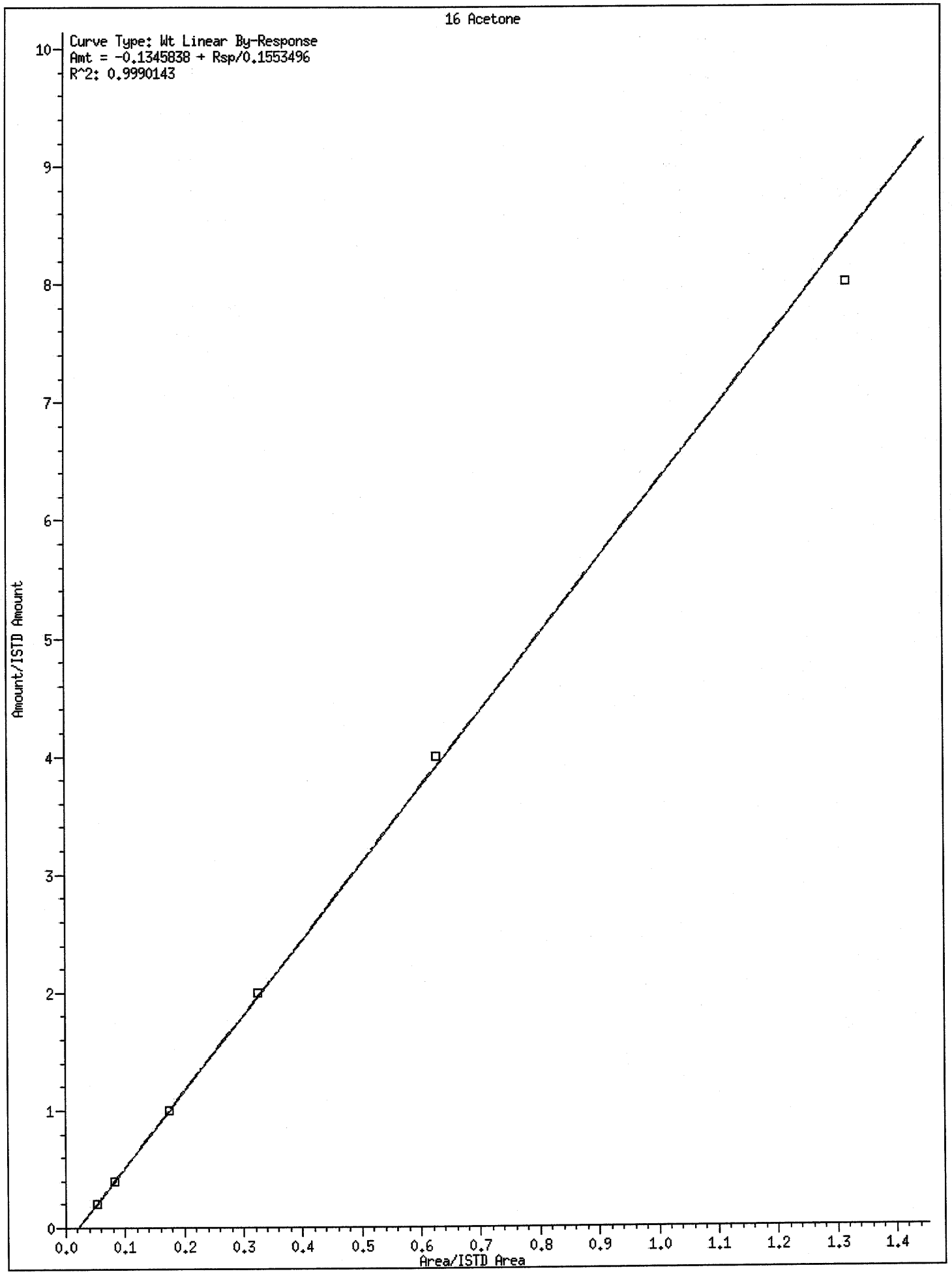
Reviewed by Peer/Sup/ Level II: Thomas E. Sadler Date: 8/6/10
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

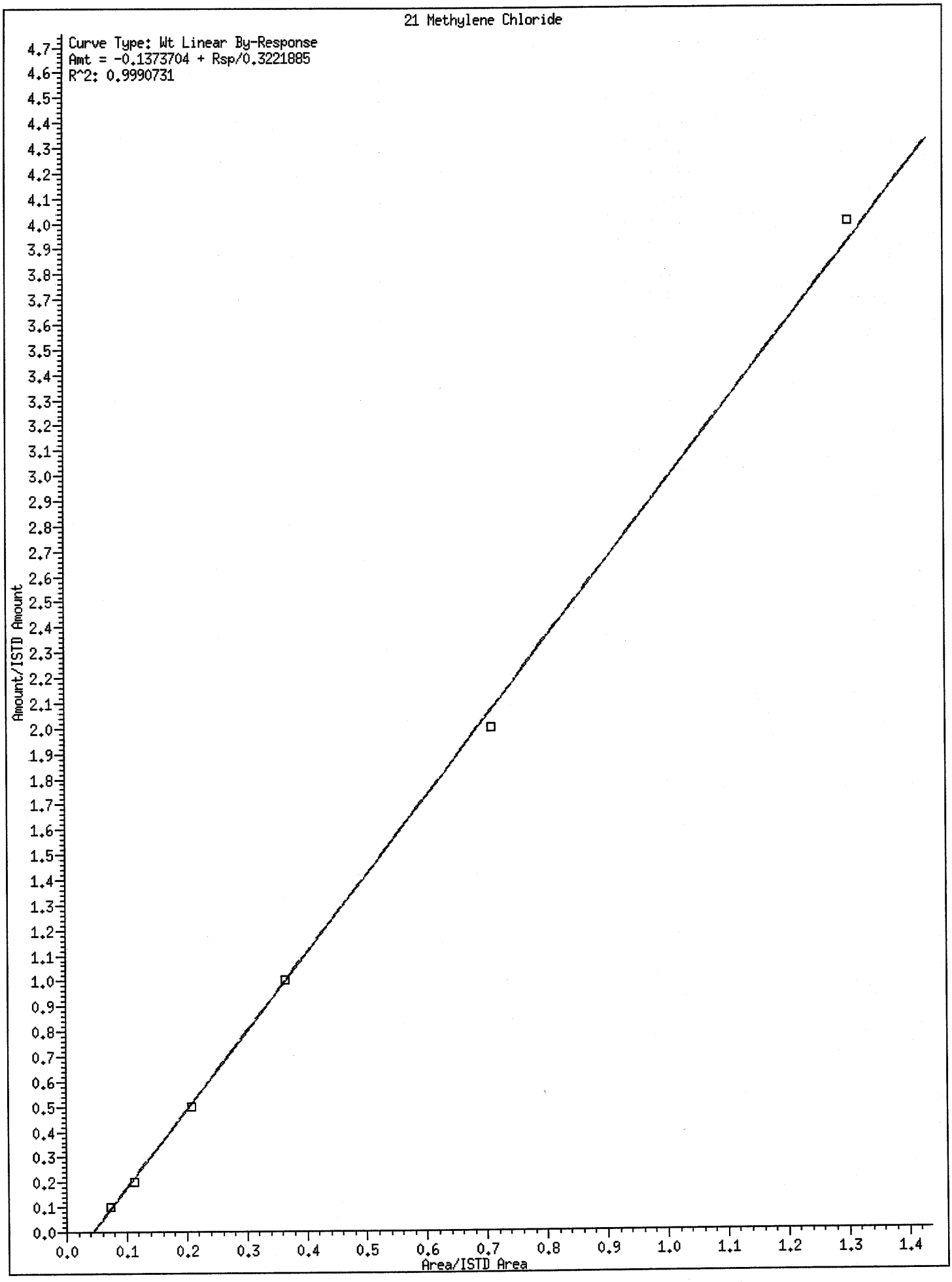
*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

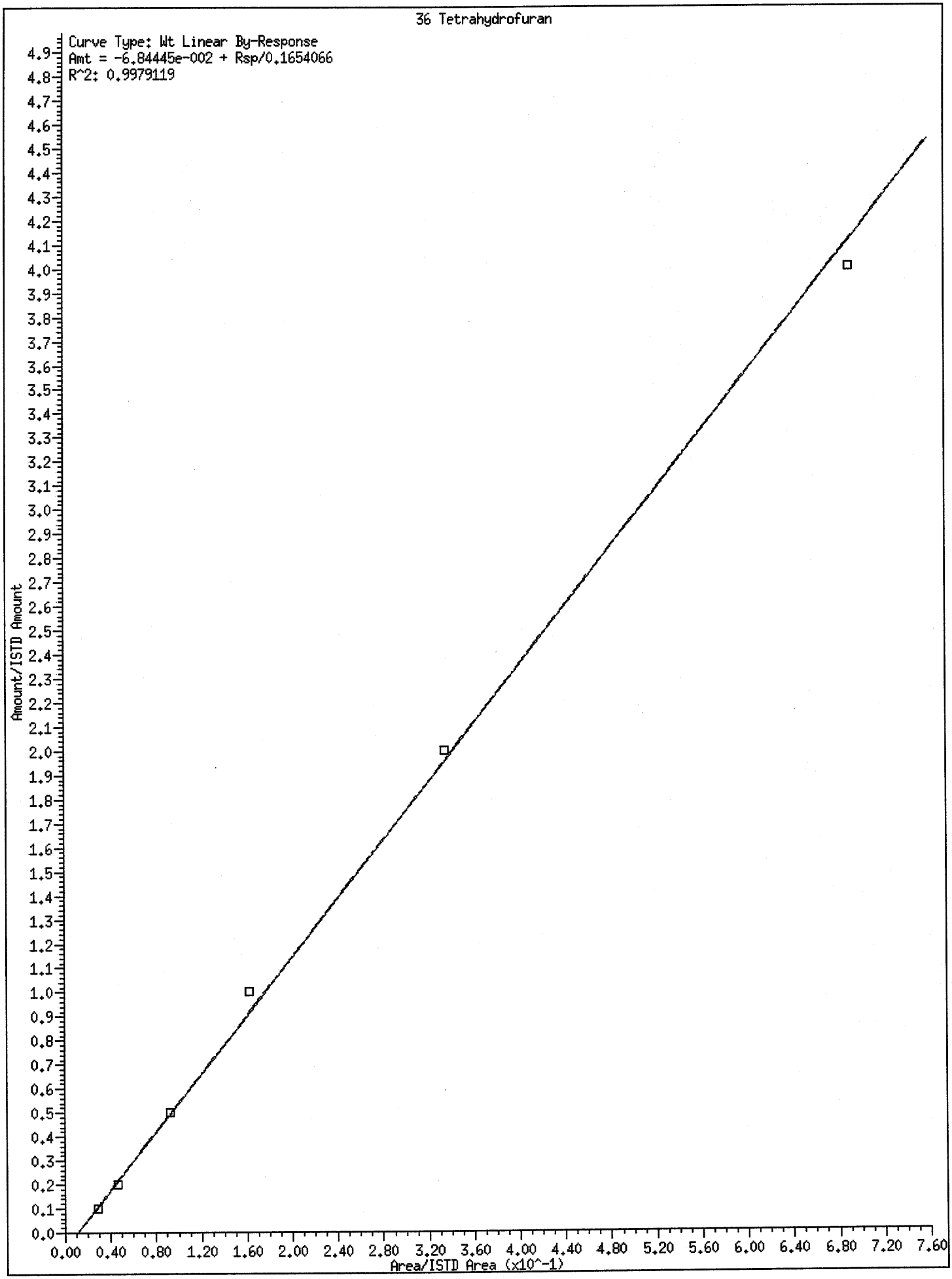
Reviewed by Peer/Sup: _____ Date: _____

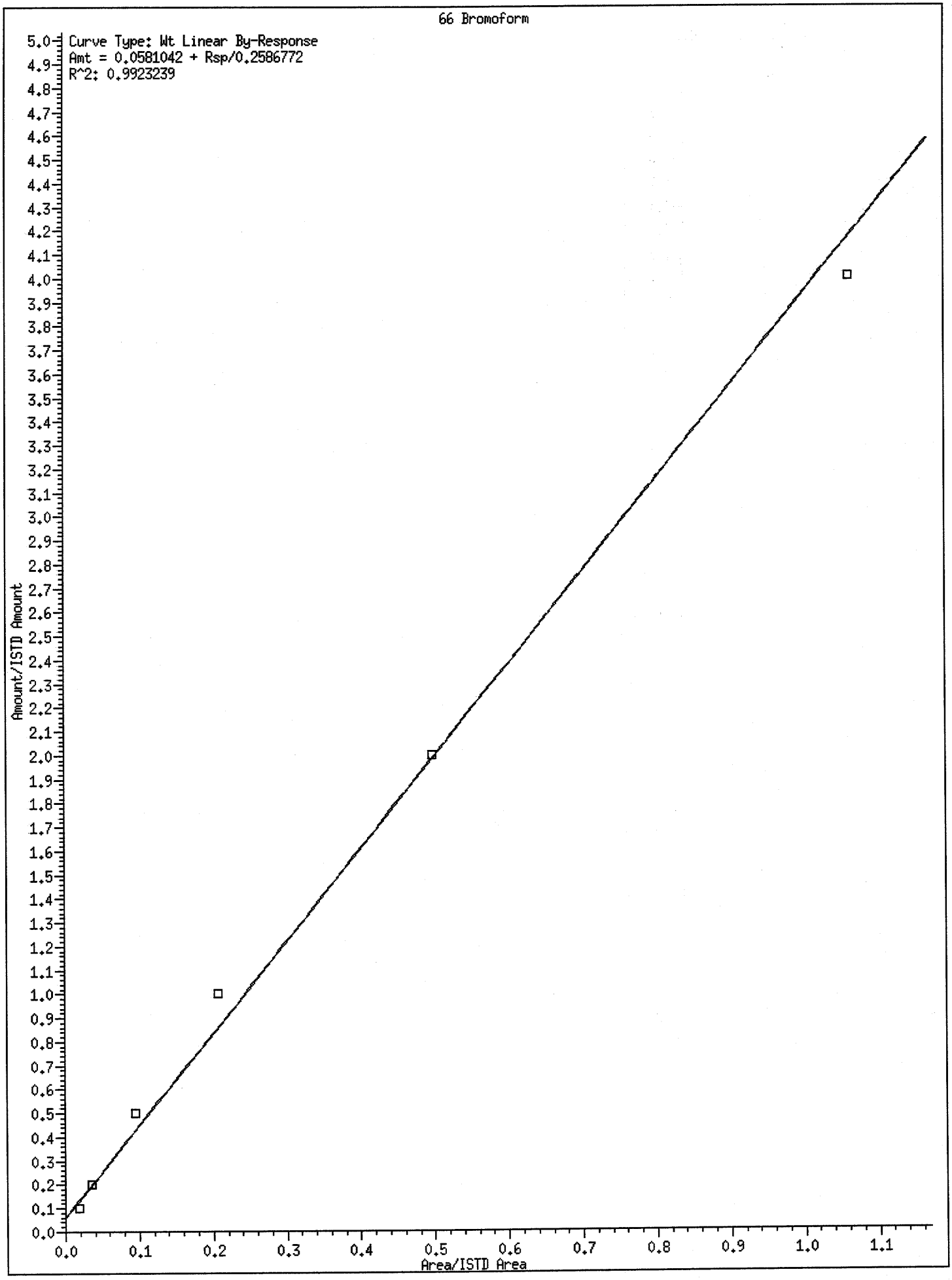

11 Bromomethane
Curve Type: Wt Linear By-Response
Amt = 0.0414277 + Rsp/0.1095131
R^2: 0.9961267
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50

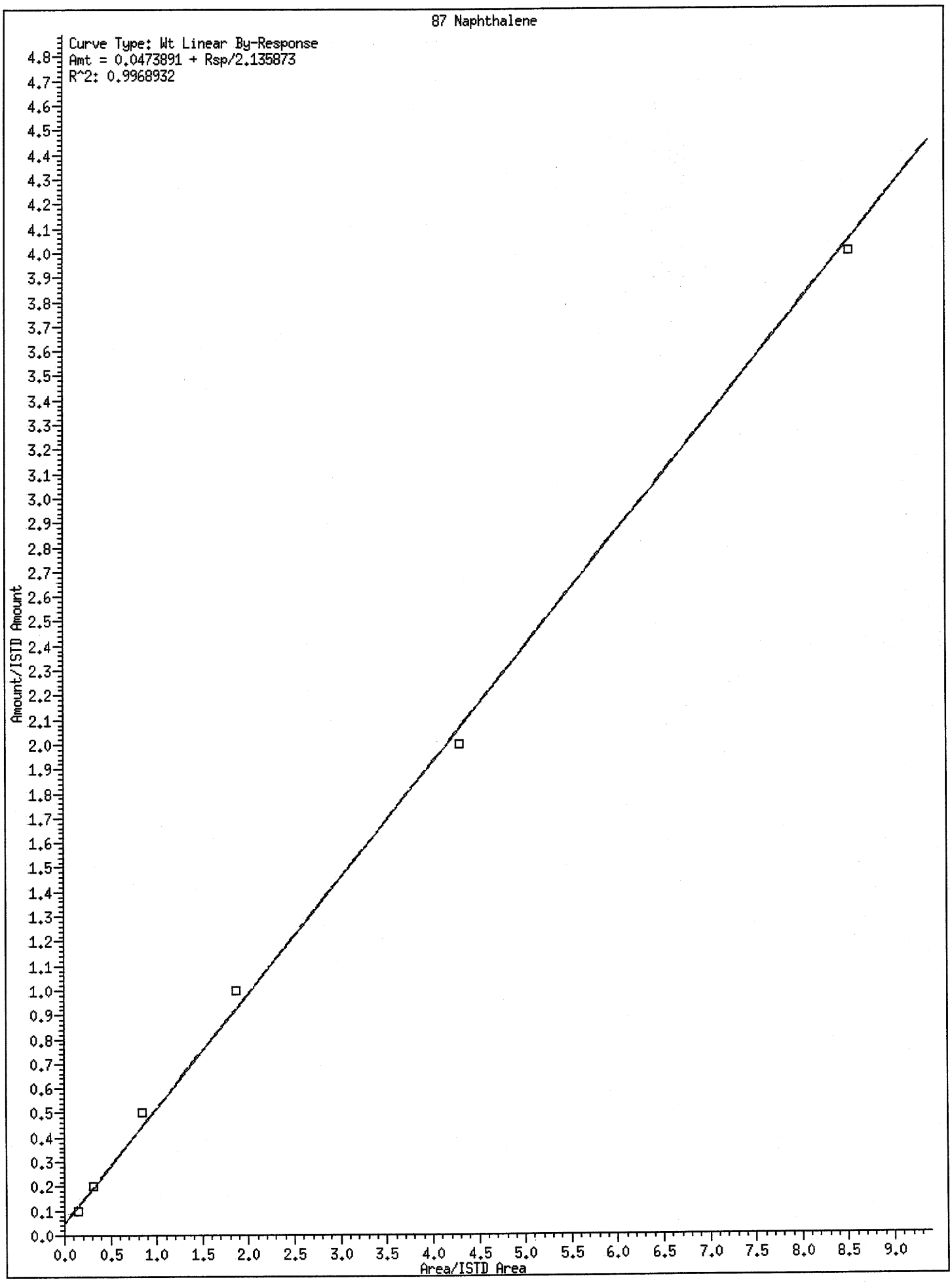

13 Trichlorofluoromethane
Curve Type: Wt Linear By-Response
Amt = 0.0425923 + Rsp/0.3720641
R^2: 0.9959527
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2

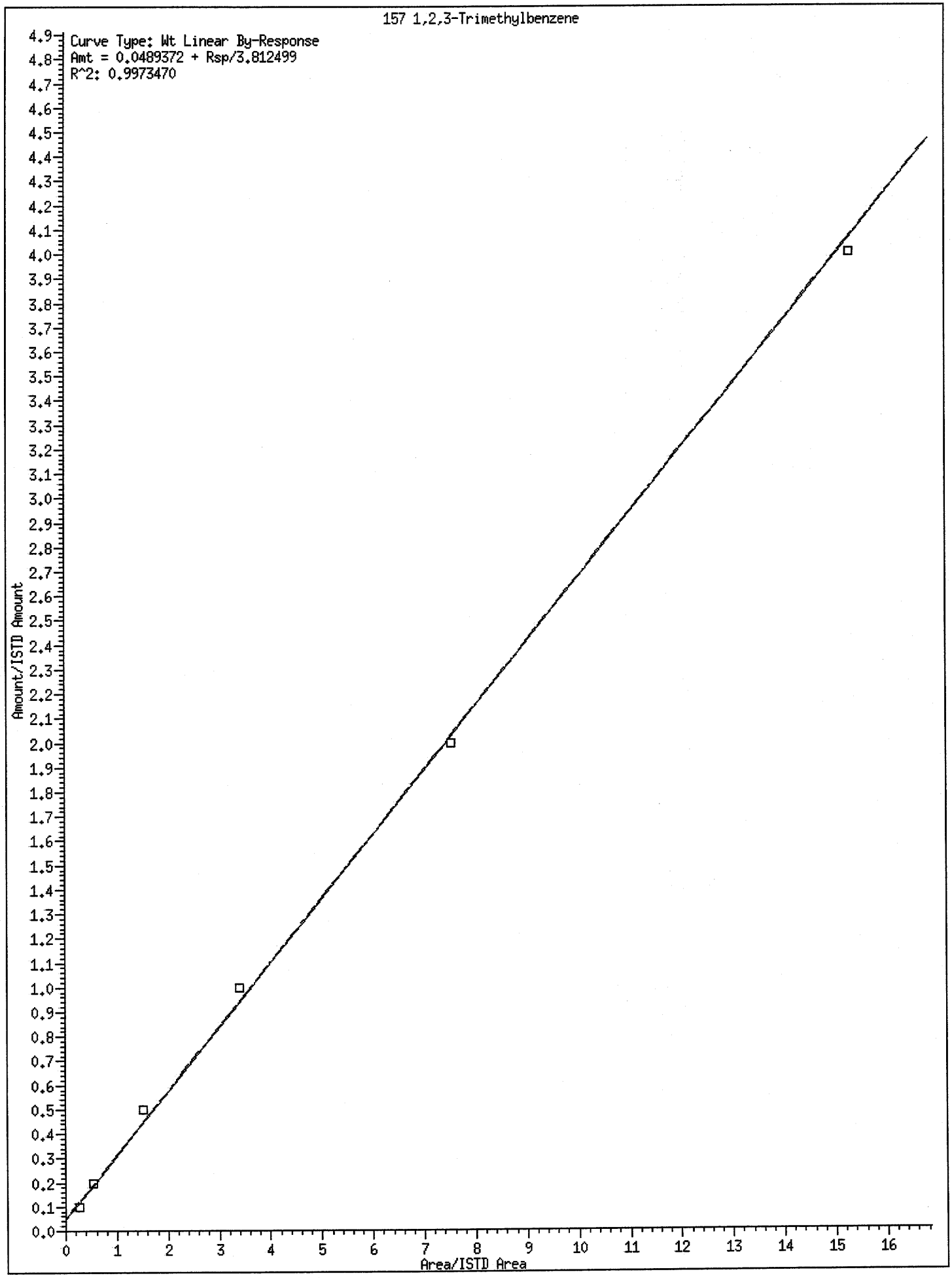

16 Acetone
Curve Type: Wt Linear By-Response
Amt = -0.1345838 + Rsp/0.1553496
R^2: 0.9990143
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4


21 Methylene Chloride
Curve Type: Wt Linear By-Response
Amt = -0.1373704 + Rsp/0.3221885
R^2: 0.9990731
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0


36 Tetrahydrofuran
Curve Type: Wt Linear By-Response
Amt = -6.84445e-002 + Rsp/0.1654066
R^2: 0.9979119
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60


66 Bromoform
Curve Type: Wt Linear By-Response
Amt = 0.0581042 + Rsp/0.2586772
R^2: 0.9923239
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9
5.0


87 Naphthalene
Curve Type: Wt Linear By-Response
Amt = 0.0473891 + Rsp/2.135873
R^2: 0.9968932
Amount/ISTD Amount
Area/ISTD Area


157 1,2,3-Trimethylbenzene
Curve Type: Wt Linear By-Response
Amt = 0.0489372 + Rsp/3.812499
R^2: 0.9973470
Amount/ISTD Amount
Area/ISTD Area

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1126.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1126.D
Lab Smp Id: 200NG-IC
Inj Date : 30-JUL-2010 15:19
Operator : 1644 Inst ID: a3ux11.i
Smp Info : 200NG-IC
Misc Info : J00730B,8260LLUX11,2-8260.SUB,1644,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:08 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.354	5.354	(1.000)	1404555	50.0000	
*	2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1061745	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	563789	50.0000	
$	4 Dibromofluoromethane	113	4.774	4.774	(0.892)	1874475	200.000	202.98
$	5 1,2-Dichloroethane-d4	65	5.058	5.058	(0.945)	3455236	200.000	209.57
$	6 Toluene-d8	98	6.727	6.727	(0.837)	8291245	200.000	193.71
$	7 Bromofluorobenzene	95	9.152	9.152	(1.138)	3181687	200.000	204.96
	8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	2394801	200.000	209.56
	9 Chloromethane	50	1.792	1.792	(0.335)	3513287	200.000	198.17
	10 Vinyl Chloride	62	1.899	1.899	(0.355)	3008492	200.000	193.89
	11 Bromomethane	94	2.195	2.195	(0.410)	590874	200.000	194.14
	12 Chloroethane	64	2.289	2.289	(0.428)	1015766	200.000	192.31
	13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	2243731	200.000	216.80
	15 Acrolein	56	2.822	2.822	(0.527)	4130166	2000.00	2091.2
	16 Acetone	43	2.952	2.952	(0.551)	1855297	400.000	418.41
	17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	1890678	200.000	208.26
	18 Freon-113	151	2.976	2.976	(0.556)	887661	200.000	218.02
	19 Iodomethane	142	3.106	3.106	(0.580)	1510212	200.000	178.07
	20 Carbon Disulfide	76	3.165	3.165	(0.591)	5152211	200.000	218.26
	21 Methylene Chloride	84	3.366	3.366	(0.629)	1834152	200.000	195.79
	22 Acetonitrile	41	3.177	3.177	(0.593)	3437590	2000.00	2009.3
	23 Acrylonitrile	53	3.508	3.508	(0.655)	2203225	400.000	408.48

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1126.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24	Methyl tert-butyl ether	73	3.555	3.555	(0.664)	6594031	200.000	214.08
25	trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	2091833	200.000	198.48
26	Hexane	86	3.792	3.792	(0.708)	618373	200.000	211.70
27	Vinyl acetate	43	3.922	3.922	(0.733)	5590198	200.000	229.46
28	1,1-Dichloroethane	63	3.898	3.898	(0.728)	4640916	200.000	204.73
29	tert-Butyl Alcohol	59	3.402	3.402	(0.635)	3199810	4000.00	4496.6
30	2-Butanone	43	4.384	4.384	(0.819)	3060545	400.000	407.14
32	cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	2183074	200.000	194.60
33	2,2-Dichloropropane	77	4.395	4.395	(0.821)	1805774	200.000	214.89
34	Bromochloromethane	128	4.585	4.585	(0.856)	919765	200.000	197.11
35	Chloroform	83	4.644	4.644	(0.867)	4086251	200.000	205.62
36	Tetrahydrofuran	42	4.632	4.632	(0.865)	970513	200.000	205.45
37	1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	2582447	200.000	212.06
38	1,1-Dichloropropene	75	4.952	4.952	(0.925)	3624442	200.000	206.75
39	Carbon Tetrachloride	117	4.963	4.963	(0.927)	2337966	200.000	222.22
40	1,2-Dichloroethane	62	5.129	5.129	(0.958)	4067504	200.000	212.39
41	Benzene	78	5.129	5.129	(0.958)	9791487	200.000	194.86
42	Trichloroethene	130	5.662	5.662	(1.057)	1933956	200.000	198.36
43	1,2-Dichloropropane	63	5.851	5.851	(1.093)	2695533	200.000	202.88
44	1,4-Dioxane	88	5.957	5.957	(1.113)	946368	10000.0	10921
45	Dibromomethane	93	5.957	5.957	(1.113)	1346382	200.000	206.27
46	Bromodichloromethane	83	6.076	6.076	(1.135)	3089354	200.000	227.19
47	2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	3816040	400.000	438.39
48	cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	4054956	200.000	230.28
49	4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	6004327	400.000	455.26
50	Toluene	91	6.786	6.786	(0.844)	10217185	200.000	195.21
51	trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	3898966	200.000	227.51
52	Ethyl Methacrylate	69	7.022	7.022	(0.873)	3657039	200.000	223.02
53	1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	1923599	200.000	188.79
54	1,3-Dichloropropane	76	7.283	7.283	(0.906)	4231114	200.000	198.14
55	Tetrachloroethene	164	7.283	7.283	(0.906)	1547464	200.000	190.66
56	2-Hexanone	43	7.342	7.342	(0.913)	4209328	400.000	447.05
57	Dibromochloromethane	129	7.496	7.496	(0.932)	1957741	200.000	227.14
58	1,2-Dibromoethane	107	7.614	7.614	(0.947)	1954014	200.000	202.72
59	Chlorobenzene	112	8.064	8.064	(1.003)	5973347	200.000	195.88
60	1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	1973943	200.000	212.27
61	Ethylbenzene	106	8.158	8.158	(1.015)	3346854	200.000	199.13
62	m + p-Xylene	106	8.277	8.277	(1.029)	8542944	400.000	408.35
64	Xylene-o	106	8.655	8.655	(1.077)	3990106	200.000	199.88
65	Styrene	104	8.655	8.655	(1.077)	7119006	200.000	210.42
66	Bromoform	173	8.845	8.845	(1.100)	1128058	200.000	208.27
67	Isopropylbenzene	105	8.998	8.998	(1.119)	11210114	200.000	213.58
68	1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	2791636	200.000	181.90
69	1,4-Dichloro-2-butene	53	9.318	9.318	(0.906)	1013602	200.000	232.31
70	1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	870775	200.000	182.92
71	Bromobenzene	156	9.306	9.306	(0.905)	2237649	200.000	177.47
72	n-Propylbenzene	120	9.401	9.401	(0.914)	2746175	200.000	183.94
73	2-Chlorotoluene	126	9.495	9.495	(0.923)	2294668	200.000	179.60
74	1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	9127391	200.000	192.00
75	4-Chlorotoluene	126	9.602	9.602	(0.933)	2418275	200.000	177.57
76	tert-Butylbenzene	119	9.898	9.898	(0.962)	8247331	200.000	208.81
77	1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	10212226	200.000	205.61
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	12580486	200.000	214.36
79	4-Isopropyltoluene	119	10.253	10.253	(0.997)	9547732	200.000	210.24

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1126.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	4834250	200.000	195.96
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	4938095	200.000	196.59
82	n-Butylbenzene	91	10.655	10.655	(1.036)	8712049	200.000	207.92
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	4361045	200.000	195.81
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	214997	200.000	198.59
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	1544714	200.000	211.08
86	Hexachlorobutadiene	225	12.466	12.466	(1.212)	538959	200.000	210.38
87	Naphthalene	128	12.537	12.537	(1.219)	4815231	200.000	202.31
88	1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	1471352	200.000	210.18
98	Cyclohexane	56	4.881	4.881	(0.912)	4421215	200.000	216.63
143	Methyl Acetate	43	3.224	3.224	(0.602)	5164154	400.000	418.49
144	Methylcyclohexane	83	5.851	5.851	(1.093)	4013343	200.000	215.01
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	1547163	200.000	200.62
150	Vinyl Acetate-86	86	3.922	3.922	(0.733)	427009	200.000	223.27

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1126.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1126.D
Lab Smp Id: 200NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1644
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,2-8260.SUB,1644,1,6

Calibration Date: 30-JUL-2010
Calibration Time: 16:04

Level: LOW
Sample Type: WATER

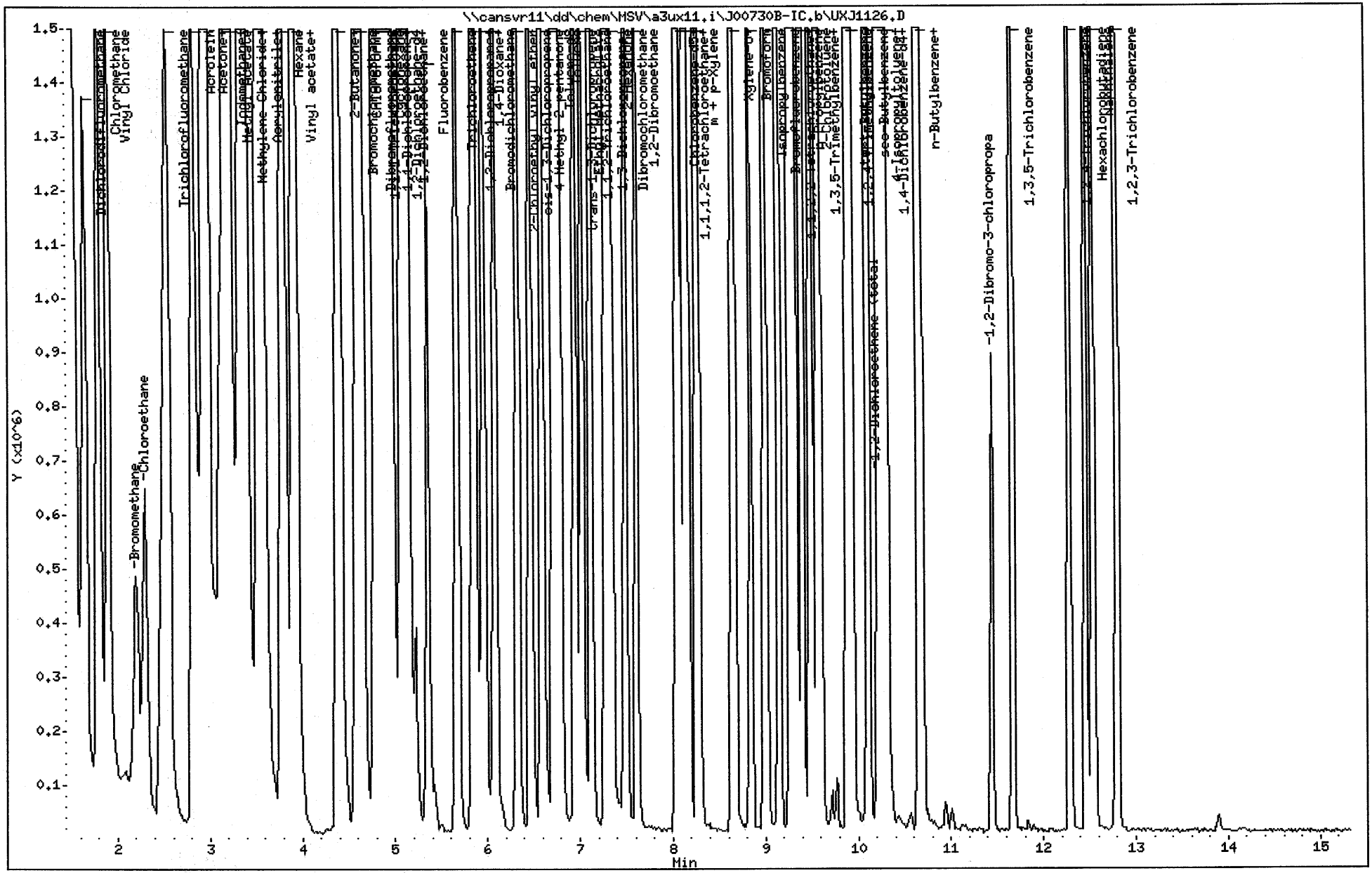
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1677484	838742	3354968	1404555	-16.27
2 Chlorobenzene-d5	1184749	592375	2369498	1061745	-10.38
3 1,4-Dichlorobenze	543286	271643	1086572	563789	3.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1126.D
Date : 30-JUL-2010 15:19
Client ID:
Sample Info: 200NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux11.i
Operator: 1644
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1127.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1127.D
Lab Smp Id: 100NG-IC
Inj Date : 30-JUL-2010 15:41
Operator : 1644 Inst ID: a3ux11.i
Smp Info : 100NG-IC
Misc Info : J00730B,8260LLUX11,2-8260.SUB,1644,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:08 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 01:16 Cal File: UXJ0105.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.354	5.354	(1.000)	1692251	50.0000	
*	2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1233774	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	601414	50.0000	
$	4 Dibromofluoromethane	113	4.774	4.774	(0.892)	1196421	100.000	107.53
$	5 1,2-Dichloroethane-d4	65	5.058	5.058	(0.945)	2079078	100.000	104.66
$	6 Toluene-d8	98	6.726	6.726	(0.837)	5274438	100.000	106.04
$	7 Bromofluorobenzene	95	9.152	9.152	(1.138)	1969185	100.000	109.16
	8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	1334582	100.000	96.928
	9 Chloromethane	50	1.792	1.792	(0.335)	2451196	100.000	114.76
	10 Vinyl Chloride	62	1.899	1.899	(0.355)	2036861	100.000	108.95
	11 Bromomethane	94	2.206	2.206	(0.412)	393866	100.000	108.34
	12 Chloroethane	64	2.301	2.301	(0.430)	700283	100.000	110.04
	13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	1135805	100.000	92.326
	15 Acrolein	56	2.822	2.822	(0.527)	2459740	1000.00	1033.7
	16 Acetone	43	2.952	2.952	(0.551)	1061907	200.000	195.24
	17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	1080665	100.000	98.799
	18 Freon-113	151	2.975	2.975	(0.556)	464026	100.000	94.593
	19 Iodomethane	142	3.106	3.106	(0.580)	999918	100.000	97.856
	20 Carbon Disulfide	76	3.165	3.165	(0.591)	3036174	100.000	106.75
	21 Methylene Chloride	84	3.366	3.366	(0.629)	1201875	100.000	103.35
	22 Acetonitrile	41	3.177	3.177	(0.593)	2011370	1000.00	975.78
	23 Acrylonitrile	53	3.508	3.508	(0.655)	1328698	200.000	204.46

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1127.D
Report Date: 02-Aug-2010 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.555	3.555	(0.664)	3970864	100.000	107.00
25 trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	1308549	100.000	103.05
26 Hexane	86	3.792	3.792	(0.708)	326120	100.000	92.666
27 Vinyl acetate	43	3.934	3.934	(0.735)	3233571	100.000	110.16
28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	2825177	100.000	103.44
29 tert-Butyl Alcohol	59	3.401	3.401	(0.635)	1814679	2000.00	2116.6
30 2-Butanone	43	4.384	4.384	(0.819)	1786464	200.000	197.25
32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	1408740	100.000	104.22
33 2,2-Dichloropropane	77	4.395	4.395	(0.821)	1071732	100.000	105.86
34 Bromochloromethane	128	4.585	4.585	(0.856)	597164	100.000	106.22
35 Chloroform	83	4.644	4.644	(0.867)	2509908	100.000	104.83
36 Tetrahydrofuran	42	4.632	4.632	(0.865)	566938	100.000	97.849
37 1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	1541957	100.000	105.10
38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	2157301	100.000	102.14
39 Carbon Tetrachloride	117	4.963	4.963	(0.927)	1315625	100.000	103.79
40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	2359990	100.000	102.28
41 Benzene	78	5.129	5.129	(0.958)	6155573	100.000	101.67
42 Trichloroethene	130	5.661	5.661	(1.057)	1226321	100.000	104.39
43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	1695808	100.000	105.94
44 1,4-Dioxane	88	5.957	5.957	(1.113)	558674	5000.00	5351.1
45 Dibromomethane	93	5.957	5.957	(1.113)	831399	100.000	105.72
46 Bromodichloromethane	83	6.076	6.076	(1.135)	1830675	100.000	111.74
47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	2285174	200.000	217.89
48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	2457779	100.000	115.85
49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	3422478	200.000	215.38
50 Toluene	91	6.786	6.786	(0.844)	6336756	100.000	104.19
51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	2274832	100.000	114.23
52 Ethyl Methacrylate	69	7.022	7.022	(0.873)	2134426	100.000	112.01
53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	1196723	100.000	101.08
54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	2564925	100.000	103.37
55 Tetrachloroethene	164	7.283	7.283	(0.906)	944332	100.000	100.12
56 2-Hexanone	43	7.342	7.342	(0.913)	2361178	200.000	215.80
57 Dibromochloromethane	129	7.496	7.496	(0.932)	1142878	100.000	114.11
58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	1200646	100.000	107.20
59 Chlorobenzene	112	8.064	8.064	(1.003)	3713463	100.000	104.79
60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	1206316	100.000	111.64
61 Ethylbenzene	106	8.158	8.158	(1.015)	2097236	100.000	107.38
62 m + p-Xylene	106	8.277	8.277	(1.029)	5207446	200.000	214.21
64 Xylene-o	106	8.655	8.655	(1.077)	2471385	100.000	106.54
65 Styrene	104	8.655	8.655	(1.077)	4354766	100.000	110.77
66 Bromoform	173	8.845	8.845	(1.100)	613356	100.000	98.998
67 Isopropylbenzene	105	8.998	8.998	(1.119)	6692824	100.000	109.73
68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	1716100	100.000	104.82
69 1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	522173	100.000	112.19
70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	521988	100.000	102.79
71 Bromobenzene	156	9.306	9.306	(0.905)	1424917	100.000	105.94
72 n-Propylbenzene	120	9.401	9.401	(0.914)	1673276	100.000	105.06
73 2-Chlorotoluene	126	9.495	9.495	(0.923)	1425579	100.000	104.60
74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	5418965	100.000	106.86
75 4-Chlorotoluene	126	9.602	9.602	(0.933)	1517621	100.000	104.47
76 tert-Butylbenzene	119	9.898	9.898	(0.962)	4443031	100.000	105.45
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	5600560	100.000	105.71
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	6624593	100.000	105.81
79 4-Isopropyltoluene	119	10.253	10.253	(0.997)	5185964	100.000	107.05

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1127.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	2720020	100.000	103.36
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	2777253	100.000	103.65
82	n-Butylbenzene	91	10.655	10.655	(1.036)	4886661	100.000	109.33
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	2490315	100.000	104.82
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	128732	100.000	111.47
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	877293	100.000	112.38
86	Hexachlorobutadiene	225	12.465	12.465	(1.212)	293207	100.000	107.29
87	Naphthalene	128	12.536	12.536	(1.219)	2583338	100.000	102.92
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	841931	100.000	112.74
98	Cyclohexane	56	4.881	4.881	(0.912)	2342645	100.000	95.272
143	Methyl Acetate	43	3.224	3.224	(0.602)	2990757	200.000	201.16
144	Methylcyclohexane	83	5.851	5.851	(1.093)	2086376	100.000	92.774
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	880249	100.000	107.00
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	271438	100.000	117.80

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1127.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1127.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1644
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,2-8260.SUB,1644,1,5

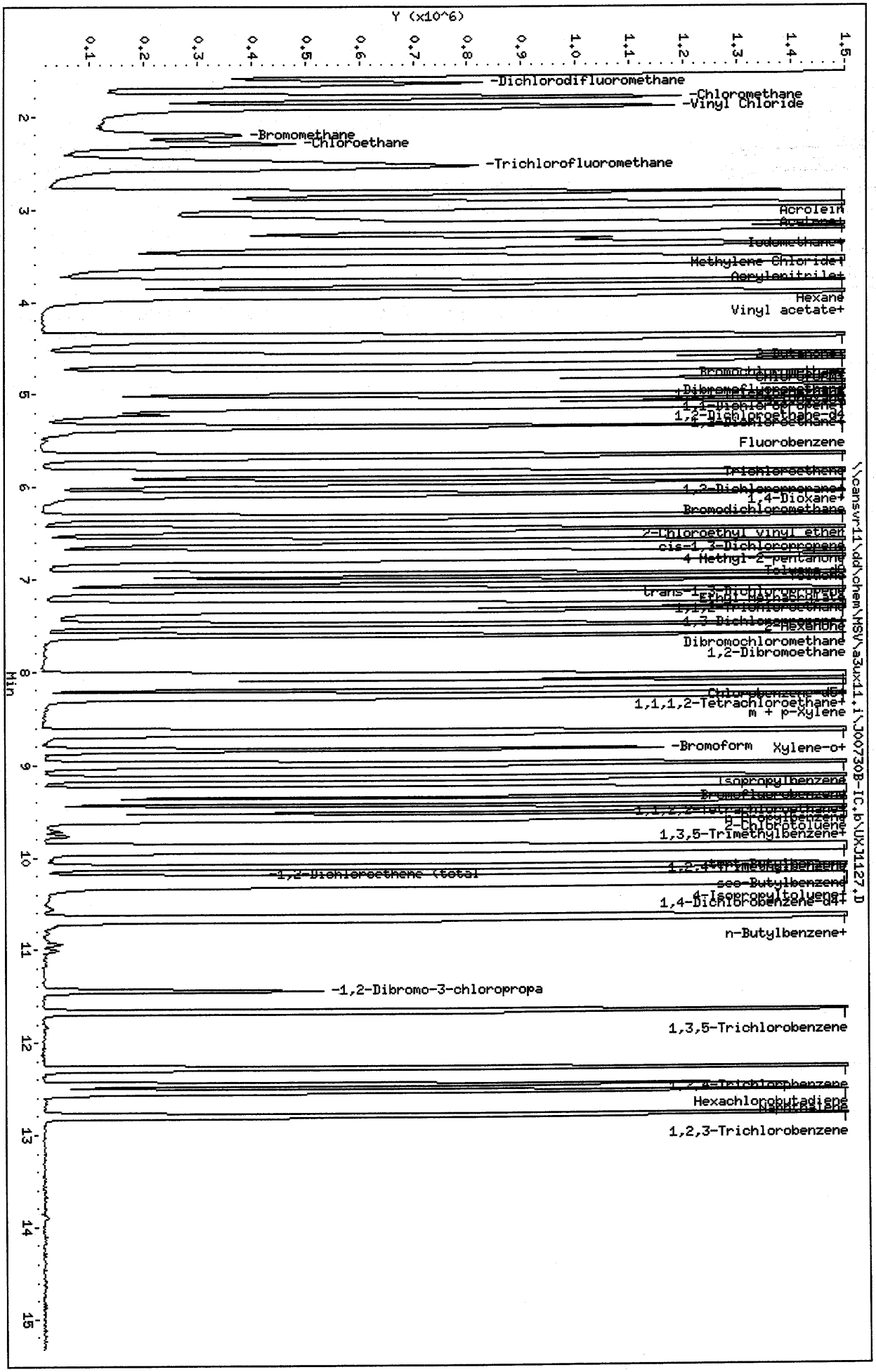
Calibration Date: 30-JUL-2010
Calibration Time: 16:04

Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1677484	838742	3354968	1692251	0.88
2 Chlorobenzene-d5	1184749	592375	2369498	1233774	4.14
3 1,4-Dichlorobenze	543286	271643	1086572	601414	10.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC,b\UXJ1127.D
Date : 30-JUL-2010 15:41
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 1644
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
Acrolein
Acetone+
Iodomethane+
Methylene Chloride+
Acrylonitrile+
Hexane
Vinyl acetate+
Fluorobenzene
Trichloroethene
1,2-Dichloropropane+
1,4-Dioxane+
Bromodichloromethane
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
4 Methyl-2-pentanone
trans-1,3-Dichloropropene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
Isopropylbenzene
p-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total
sec-Butylbenzene
4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,3,5-Trichlorobenzene
Hexachlorobutadiene
1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC,b\UXJ1127.D

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1128.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1128.D
Lab Smp Id: 50NG-IC
Inj Date : 30-JUL-2010 16:04
Operator : 1644 Inst ID: a3ux11.i
Smp Info : 50NG-IC
Misc Info : J00730B,8260LLUX11,2-8260.SUB,1644,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:08 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 01:38 Cal File: UXJ0106.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.354	5.354	(1.000)	1677484	50.0000	
*	2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1184749	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	543286	50.0000	
$	4 Dibromofluoromethane	113	4.774	4.774	(0.892)	521823	50.0000	47.313
$	5 1,2-Dichloroethane-d4	65	5.058	5.058	(0.945)	943659	50.0000	47.923
$	6 Toluene-d8	98	6.727	6.727	(0.837)	2335116	50.0000	48.891
$	7 Bromofluorobenzene	95	9.152	9.152	(1.138)	841671	50.0000	48.590
	8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	695451	50.0000	50.954
	9 Chloromethane	50	1.792	1.792	(0.335)	1016914	50.0000	48.027
	10 Vinyl Chloride	62	1.899	1.899	(0.355)	916051	50.0000	49.432
	11 Bromomethane	94	2.206	2.206	(0.412)	166306	50.0000	47.335
	12 Chloroethane	64	2.289	2.289	(0.428)	306702	50.0000	48.619
	13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	585990	50.0000	49.074
	15 Acrolein	56	2.822	2.822	(0.527)	1162633	500.000	492.89
	16 Acetone	43	2.952	2.952	(0.551)	544557	100.000	97.754
	17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	550108	50.0000	50.736
	18 Freon-113	151	2.975	2.975	(0.556)	268251	50.0000	55.165
	19 Iodomethane	142	3.106	3.106	(0.580)	527766	50.0000	52.104
	20 Carbon Disulfide	76	3.165	3.165	(0.591)	1426851	50.0000	50.610
	21 Methylene Chloride	84	3.366	3.366	(0.629)	613921	50.0000	49.927
	22 Acetonitrile	41	3.177	3.177	(0.593)	986318	500.000	482.70
	23 Acrylonitrile	53	3.520	3.520	(0.657)	631036	100.000	97.960

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1128.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24	Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1796142	50.0000	48.826
25	trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	618953	50.0000	49.174
26	Hexane	86	3.792	3.792	(0.708)	186117	50.0000	53.350
27	Vinyl acetate	43	3.934	3.934	(0.735)	1467328	50.0000	50.429
28	1,1-Dichloroethane	63	3.910	3.910	(0.730)	1322649	50.0000	48.854
29	tert-Butyl Alcohol	59	3.390	3.390	(0.633)	847666	1000.00	997.38
30	2-Butanone	43	4.384	4.384	(0.819)	861399	100.000	95.946
32	cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	642035	50.0000	47.919
33	2,2-Dichloropropane	77	4.395	4.395	(0.821)	515604	50.0000	51.376
34	Bromochloromethane	128	4.585	4.585	(0.856)	262748	50.0000	47.146
35	Chloroform	83	4.644	4.644	(0.867)	1142206	50.0000	48.125
36	Tetrahydrofuran	42	4.632	4.632	(0.865)	272375	50.0000	45.660
37	1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	728919	50.0000	50.118
38	1,1-Dichloropropene	75	4.952	4.952	(0.925)	1029728	50.0000	49.182
39	Carbon Tetrachloride	117	4.963	4.963	(0.927)	636760	50.0000	50.677
40	1,2-Dichloroethane	62	5.129	5.129	(0.958)	1090055	50.0000	47.658
41	Benzene	78	5.129	5.129	(0.958)	2820658	50.0000	47.000
42	Trichloroethene	130	5.673	5.673	(1.060)	577403	50.0000	49.586
43	1,2-Dichloropropane	63	5.851	5.851	(1.093)	758959	50.0000	47.829
44	1,4-Dioxane	88	5.957	5.957	(1.113)	262167	2500.00	2533.2
45	Dibromomethane	93	5.957	5.957	(1.113)	382773	50.0000	49.101
46	Bromodichloromethane	83	6.076	6.076	(1.135)	806581	50.0000	49.664
47	2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	1040802	100.000	100.12
48	cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	1052089	50.0000	50.026
49	4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1586453	100.000	100.72
50	Toluene	91	6.786	6.786	(0.844)	2826056	50.0000	48.388
51	trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	973153	50.0000	50.890
52	Ethyl Methacrylate	69	7.022	7.022	(0.873)	939626	50.0000	51.352
53	1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	554719	50.0000	48.791
54	1,3-Dichloropropane	76	7.283	7.283	(0.906)	1144315	50.0000	48.025
55	Tetrachloroethene	164	7.283	7.283	(0.906)	433351	50.0000	47.848
56	2-Hexanone	43	7.342	7.342	(0.913)	1084338	100.000	103.20
57	Dibromochloromethane	129	7.496	7.496	(0.932)	486079	50.0000	50.540
58	1,2-Dibromoethane	107	7.614	7.614	(0.947)	540616	50.0000	50.264
59	Chlorobenzene	112	8.064	8.064	(1.003)	1649107	50.0000	48.464
60	1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	518759	50.0000	49.994
61	Ethylbenzene	106	8.158	8.158	(1.015)	925083	50.0000	49.326
62	m + p-Xylene	106	8.277	8.277	(1.029)	2274004	100.000	97.412
64	Xylene-o	106	8.655	8.655	(1.077)	1083975	50.0000	48.662
65	Styrene	104	8.655	8.655	(1.077)	1897756	50.0000	50.269
66	Bromoform	173	8.845	8.845	(1.100)	245159	50.0000	42.903
67	Isopropylbenzene	105	8.998	8.998	(1.119)	2902295	50.0000	49.554
68	1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	743667	50.0000	50.286
69	1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	224719	50.0000	53.448
70	1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	236333	50.0000	51.519
71	Bromobenzene	156	9.306	9.306	(0.905)	614451	50.0000	50.571
72	n-Propylbenzene	120	9.401	9.401	(0.914)	735480	50.0000	51.121
73	2-Chlorotoluene	126	9.495	9.495	(0.923)	623179	50.0000	50.616
74	1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	2345048	50.0000	51.190
75	4-Chlorotoluene	126	9.590	9.590	(0.932)	657231	50.0000	50.081
76	tert-Butylbenzene	119	9.898	9.898	(0.962)	1924331	50.0000	50.559
77	1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	2382583	50.0000	49.781
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	2869925	50.0000	50.745
79	4-Isopropyltoluene	119	10.253	10.253	(0.997)	2214379	50.0000	50.601

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1128.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1153149	50.0000	48.506
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1195592	50.0000	49.394
82	n-Butylbenzene	91	10.655	10.655	(1.036)	2059848	50.0000	51.014
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	1041905	50.0000	48.548
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	53960	50.0000	51.724
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	351160	50.0000	49.796
86	Hexachlorobutadiene	225	12.465	12.465	(1.212)	121968	50.0000	49.407
87	Naphthalene	128	12.536	12.536	(1.219)	1013001	50.0000	46.019
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	342455	50.0000	50.766
98	Cyclohexane	56	4.881	4.881	(0.912)	1277301	50.0000	52.403
143	Methyl Acetate	43	3.236	3.236	(0.604)	1403529	100.000	95.233
144	Methylcyclohexane	83	5.851	5.851	(1.093)	1165390	50.0000	52.277
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	363321	50.0000	48.889
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	119297	50.0000	52.227

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1128.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

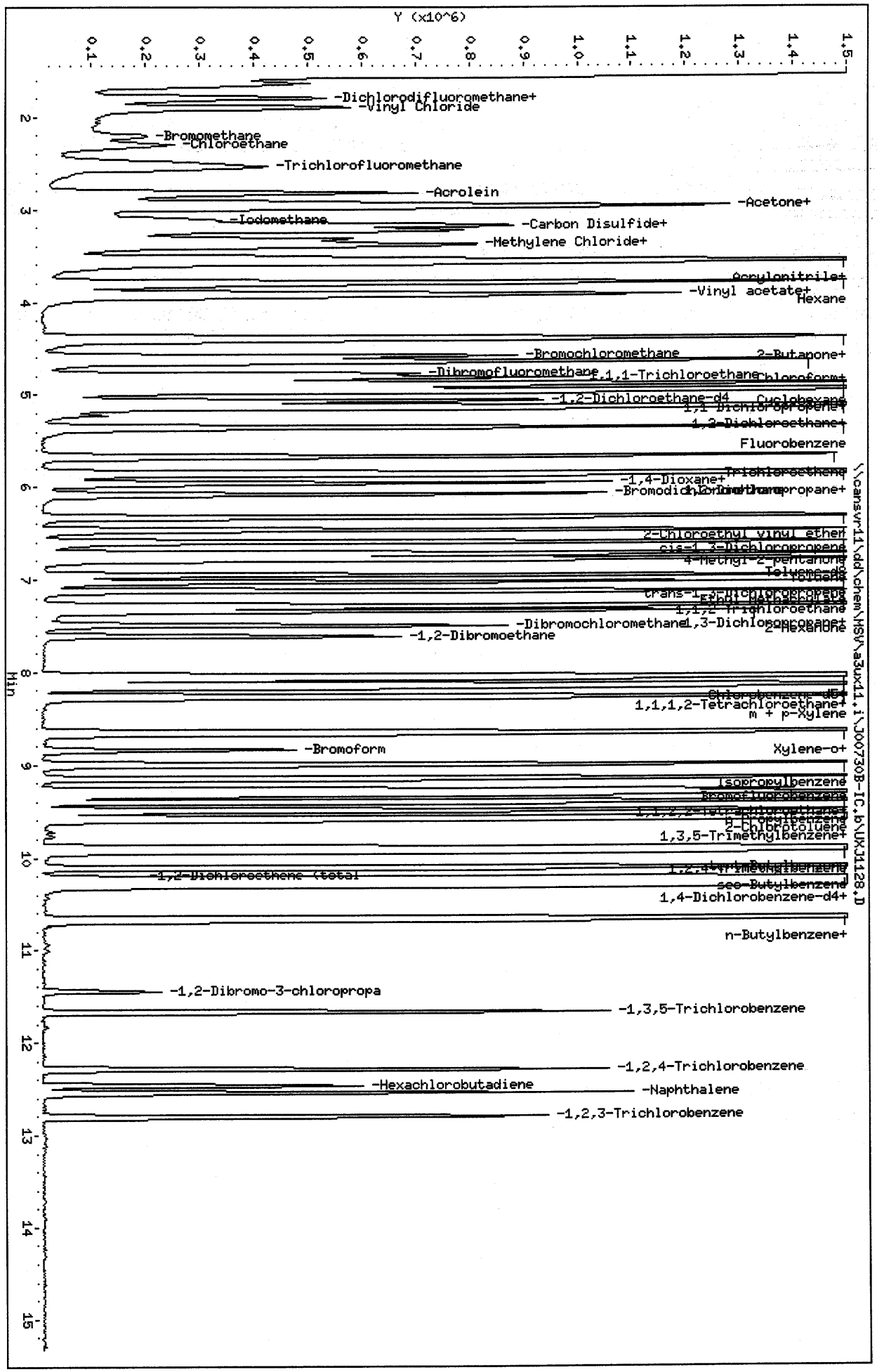
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1128.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1644
Calibration Date: 30-JUL-2010
Calibration Time: 16:04
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,2-8260.SUB,1644,1,4

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1677484	838742	3354968	1677484	0.00
2 Chlorobenzene-d5	1184749	592375	2369498	1184749	0.00
3 1,4-Dichlorobenze	543286	271643	1086572	543286	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ128.D
Date : 30-JUL-2010 16:04
Client ID:
Sample Info: 50NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 1644
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ128.D
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Methylene Chloride+
Acrylonitrile+
-Vinyl acetate+
Hexane
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane
1,1,1-Trichloroethane
Chloroform+
-1,2-Dichloroethane-d4
Cyclohexane
1,1-Dichloropropene+
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene
-1,4-Dioxane+
-Bromodichloromethane
1,2-Dichloropropane+
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene-d8
trans-1,3-Dichloropropene
Ethyl Methacrylate
1,1,2-Trichloroethane
-Dibromochloromethane
1,3-Dichloropropane+
2-Hexanone
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane+
n-Propylbenzene
2-Chlorotoluene
1,3,5-Trimethylbenzene+
1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1129.D
Report Date: 02-Aug-2010 08:08

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VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1129.D
Lab Smp Id: 25NG-IC
Inj Date : 30-JUL-2010 16:27
Operator : 1644 Inst ID: a3ux11.i
Smp Info : 25NG-IC
Misc Info : J00730B,8260LLUX11,2-8260.SUB,1644,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:08 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.354	5.354	(1.000)	1672761	50.0000	
*	2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1194315	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	546996	50.0000	
$	4 Dibromofluoromethane	113	4.774	4.774	(0.892)	277935	25.0000	25.271
$	5 1,2-Dichloroethane-d4	65	5.070	5.070	(0.947)	490313	25.0000	24.970
$	6 Toluene-d8	98	6.726	6.726	(0.837)	1183354	25.0000	24.578
$	7 Bromofluorobenzene	95	9.152	9.152	(1.138)	423248	25.0000	24.239
	8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	352561	25.0000	25.904
	9 Chloromethane	50	1.792	1.792	(0.335)	509711	25.0000	24.141
	10 Vinyl Chloride	62	1.899	1.899	(0.355)	459610	25.0000	24.872
	11 Bromomethane	94	2.206	2.206	(0.412)	78327	25.0000	23.450
	12 Chloroethane	64	2.301	2.301	(0.430)	153440	25.0000	24.392
	13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	282697	25.0000	24.841
	15 Acrolein	56	2.822	2.822	(0.527)	590803	250.000	251.17
	16 Acetone	43	2.952	2.952	(0.551)	293876	50.0000	49.815
	17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	284680	25.0000	26.330
	18 Freon-113	151	2.975	2.975	(0.556)	136463	25.0000	28.142
	19 Iodomethane	142	3.106	3.106	(0.580)	264961	25.0000	26.232
	20 Carbon Disulfide	76	3.165	3.165	(0.591)	696359	25.0000	24.769
	21 Methylene Chloride	84	3.354	3.354	(0.627)	349985	25.0000	25.601
	22 Acetonitrile	41	3.177	3.177	(0.593)	489738	250.000	240.36
	23 Acrylonitrile	53	3.520	3.520	(0.657)	315671	50.0000	49.142

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1129.D
Report Date: 02-Aug-2010 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.555	3.555	(0.664)	889436	25.0000	24.247
25 trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	311780	25.0000	24.840
26 Hexane	86	3.792	3.792	(0.708)	92186	25.0000	26.500
27 Vinyl acetate	43	3.934	3.934	(0.735)	684530	25.0000	23.592
28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	663691	25.0000	24.584
29 tert-Butyl Alcohol	59	3.401	3.401	(0.635)	431522	500.000	509.17
30 2-Butanone	43	4.384	4.384	(0.819)	438789	50.0000	49.012
32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	331471	25.0000	24.809
33 2,2-Dichloropropane	77	4.395	4.395	(0.821)	247726	25.0000	24.753
34 Bromochloromethane	128	4.585	4.585	(0.856)	141022	25.0000	25.376
35 Chloroform	83	4.644	4.644	(0.867)	585242	25.0000	24.728
36 Tetrahydrofuran	42	4.632	4.632	(0.865)	155502	25.0000	24.679
37 1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	368485	25.0000	25.407
38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	538495	25.0000	25.792
39 Carbon Tetrachloride	117	4.963	4.963	(0.927)	317766	25.0000	25.361
40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	548347	25.0000	24.042
41 Benzene	78	5.129	5.129	(0.958)	1457051	25.0000	24.347
42 Trichloroethene	130	5.673	5.673	(1.060)	295338	25.0000	25.434
43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	384058	25.0000	24.271
44 1,4-Dioxane	88	5.957	5.957	(1.113)	132252	1250.00	1281.5
45 Dibromomethane	93	5.957	5.957	(1.113)	186928	25.0000	24.046
46 Bromodichloromethane	83	6.076	6.076	(1.135)	387692	25.0000	23.939
47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	509280	50.0000	49.126
48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	502407	25.0000	23.957
49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	774064	50.0000	49.280
50 Toluene	91	6.786	6.786	(0.844)	1455877	25.0000	24.728
51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	463936	25.0000	24.067
52 Ethyl Methacrylate	69	7.022	7.022	(0.873)	451059	25.0000	24.454
53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	285317	25.0000	24.894
54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	584388	25.0000	24.329
55 Tetrachloroethene	164	7.283	7.283	(0.906)	224225	25.0000	24.559
56 2-Hexanone	43	7.342	7.342	(0.913)	511925	50.0000	48.334
57 Dibromochloromethane	129	7.496	7.496	(0.932)	230776	25.0000	23.803
58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	267224	25.0000	24.646
59 Chlorobenzene	112	8.064	8.064	(1.003)	840686	25.0000	24.508
60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	253805	25.0000	24.264
61 Ethylbenzene	106	8.158	8.158	(1.015)	469072	25.0000	24.811
62 m + p-Xylene	106	8.277	8.277	(1.029)	1137941	50.0000	48.356
64 Xylene-o	106	8.655	8.655	(1.077)	549489	25.0000	24.470
65 Styrene	104	8.655	8.655	(1.077)	927534	25.0000	24.372
66 Bromoform	173	8.845	8.845	(1.100)	114195	25.0000	21.387
67 Isopropylbenzene	105	8.998	8.998	(1.119)	1430094	25.0000	24.222
68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	376774	25.0000	25.304
69 1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	102088	25.0000	24.116
70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	109702	25.0000	23.752
71 Bromobenzene	156	9.306	9.306	(0.905)	304474	25.0000	24.889
72 n-Propylbenzene	120	9.401	9.401	(0.914)	364724	25.0000	25.179
73 2-Chlorotoluene	126	9.495	9.495	(0.923)	310994	25.0000	25.088
74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	1164605	25.0000	25.250
75 4-Chlorotoluene	126	9.590	9.590	(0.932)	330787	25.0000	25.035
76 tert-Butylbenzene	119	9.898	9.898	(0.962)	937766	25.0000	24.471
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	1199530	25.0000	24.893
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	1404787	25.0000	24.671
79 4-Isopropyltoluene	119	10.253	10.253	(0.997)	1091206	25.0000	24.766

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1129.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	578601	25.0000	24.173
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	590816	25.0000	24.243
82	n-Butylbenzene	91	10.655	10.655	(1.036)	1016297	25.0000	24.999
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	543698	25.0000	25.162
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	24857	25.0000	23.665
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	166031	25.0000	23.384
86	Hexachlorobutadiene	225	12.465	12.465	(1.212)	60542	25.0000	24.358
87	Naphthalene	128	12.536	12.536	(1.219)	466237	25.0000	22.323
88	1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	165712	25.0000	24.398
98	Cyclohexane	56	4.881	4.881	(0.912)	645676	25.0000	26.565
143	Methyl Acetate	43	3.224	3.224	(0.602)	717170	50.0000	48.799
144	Methylcyclohexane	83	5.851	5.851	(1.093)	584103	25.0000	26.276
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	173350	25.0000	23.168
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	54581	25.0000	23.962

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1129.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1129.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1644
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,2-8260.SUB,1644,1,3

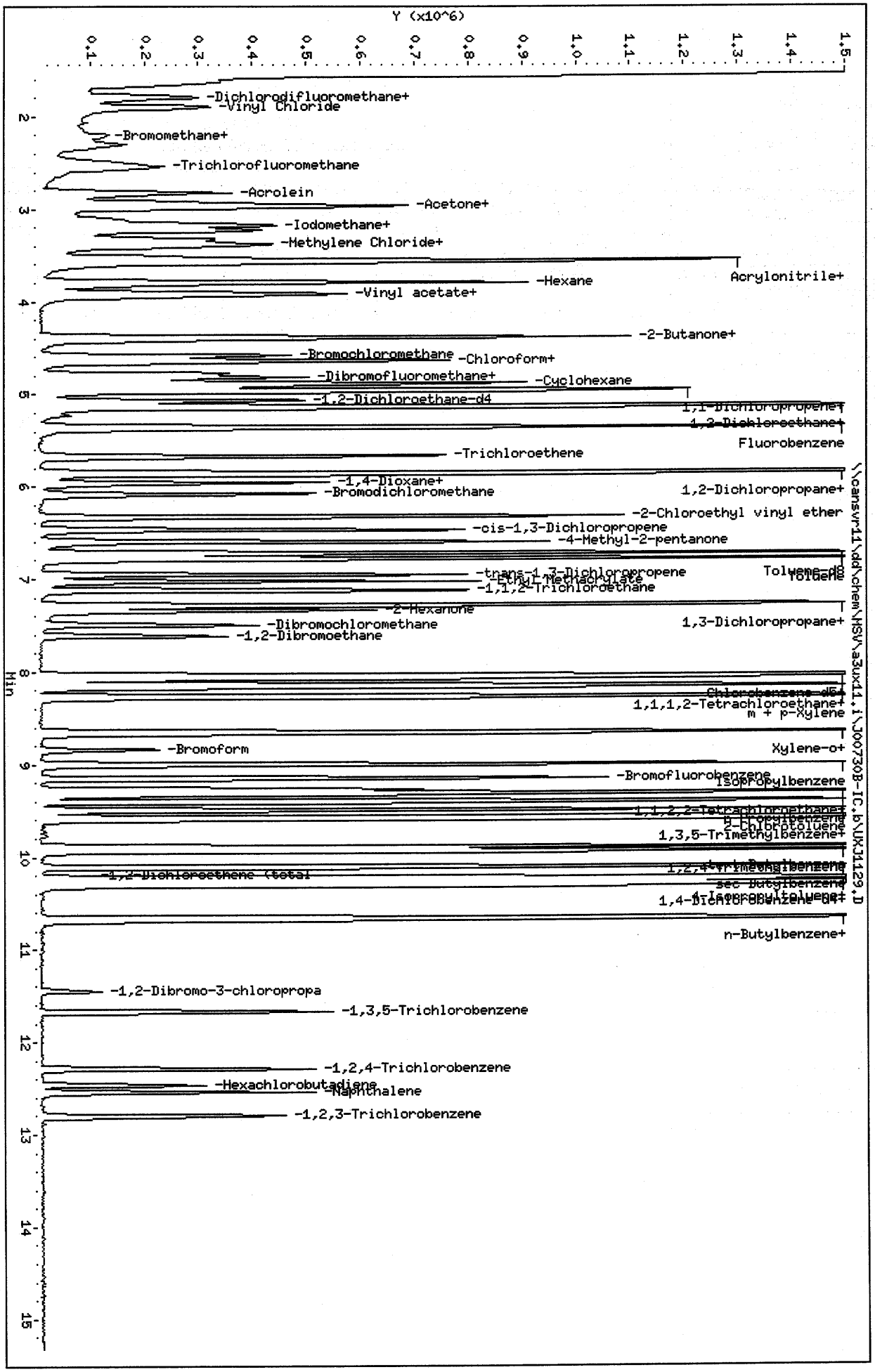
Calibration Date: 30-JUL-2010
Calibration Time: 16:04

Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1677484	838742	3354968	1672761	-0.28
2 Chlorobenzene-d5	1184749	592375	2369498	1194315	0.81
3 1,4-Dichlorobenze	543286	271643	1086572	546996	0.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1129.D
Date : 30-JUL-2010 16:27
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux11.i
Operator: 1644
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1129.D

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1130.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1130.D
Lab Smp Id: 10NG-IC
Inj Date : 30-JUL-2010 16:50
Operator : 1644 Inst ID: a3ux11.i
Smp Info : 10NG-IC
Misc Info : J00730B,8260LLUX11,2-8260.SUB,1644,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:08 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:23 Cal File: UXJ0108.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.354	5.354	(1.000)	1674781	50.0000	
*	2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1152953	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	531000	50.0000	
$	4 Dibromofluoromethane	113	4.774	4.774	(0.892)	111373	10.0000	10.114
$	5 1,2-Dichloroethane-d4	65	5.058	5.058	(0.945)	196823	10.0000	10.012
$	6 Toluene-d8	98	6.726	6.726	(0.837)	468276	10.0000	10.075
$	7 Bromofluorobenzene	95	9.152	9.152	(1.138)	167229	10.0000	9.920
	8 Dichlorodifluoromethane	85	1.662	1.662	(0.310)	117573	10.0000	8.628
	9 Chloromethane	50	1.792	1.792	(0.335)	204673	10.0000	9.682
	10 Vinyl Chloride	62	1.899	1.899	(0.355)	185924	10.0000	10.049
	11 Bromomethane	94	2.218	2.218	(0.414)	31228	10.0000	10.584
	12 Chloroethane	64	2.301	2.301	(0.430)	64349	10.0000	10.217
	13 Trichlorofluoromethane	101	2.502	2.502	(0.467)	97927	10.0000	9.987
	15 Acrolein	56	2.833	2.833	(0.529)	232810	100.000	98.858
	16 Acetone	43	2.952	2.952	(0.551)	138598	20.0000	19.906
	17 1,1-Dichloroethene	96	2.975	2.975	(0.556)	103295	10.0000	9.542
	18 Freon-113	151	2.964	2.964	(0.554)	41601	10.0000	8.569
	19 Iodomethane	142	3.106	3.106	(0.580)	111039	10.0000	10.980
	20 Carbon Disulfide	76	3.153	3.153	(0.589)	260120	10.0000	9.241
	21 Methylene Chloride	84	3.366	3.366	(0.629)	187190	10.0000	10.477
	22 Acetonitrile	41	3.177	3.177	(0.593)	207118	100.000	101.53
	23 Acrylonitrile	53	3.508	3.508	(0.655)	121973	20.0000	18.965

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1130.D
Report Date: 02-Aug-2010 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.555	3.555	(0.664)	364141	10.0000	9.915
25 trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	130016	10.0000	10.346
26 Hexane	86	3.792	3.792	(0.708)	26102	10.0000	7.494
27 Vinyl acetate	43	3.934	3.934	(0.735)	267491	10.0000	9.208
28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	279656	10.0000	10.346
29 tert-Butyl Alcohol	59	3.401	3.401	(0.635)	156076	200.000	183.94
30 2-Butanone	43	4.384	4.384	(0.819)	174905	20.0000	19.513
32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	134655	10.0000	10.066
33 2,2-Dichloropropane	77	4.395	4.395	(0.821)	91012	10.0000	9.083
34 Bromochloromethane	128	4.585	4.585	(0.856)	57035	10.0000	10.251
35 Chloroform	83	4.644	4.644	(0.867)	234552	10.0000	9.898
36 Tetrahydrofuran	42	4.632	4.632	(0.865)	77453	10.0000	10.557
37 1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	135460	10.0000	9.329
38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	193649	10.0000	9.264
39 Carbon Tetrachloride	117	4.963	4.963	(0.927)	112746	10.0000	8.987
40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	233091	10.0000	10.207
41 Benzene	78	5.129	5.129	(0.958)	610886	10.0000	10.196
42 Trichloroethene	130	5.662	5.662	(1.057)	113764	10.0000	9.786
43 1,2-Dichloropropane	63	5.863	5.863	(1.095)	163383	10.0000	10.313
44 1,4-Dioxane	88	5.957	5.957	(1.113)	46387	500.000	448.94
45 Dibromomethane	93	5.957	5.957	(1.113)	77646	10.0000	9.976
46 Bromodichloromethane	83	6.087	6.087	(1.137)	151160	10.0000	9.322
47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	196919	20.0000	18.972
48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	197094	10.0000	9.387
49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	284294	20.0000	18.078
50 Toluene	91	6.786	6.786	(0.844)	584310	10.0000	10.281
51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	173396	10.0000	9.318
52 Ethyl Methacrylate	69	7.022	7.022	(0.873)	163981	10.0000	9.209
53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	114129	10.0000	10.315
54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	235350	10.0000	10.150
55 Tetrachloroethene	164	7.283	7.283	(0.906)	94483	10.0000	10.720
56 2-Hexanone	43	7.342	7.342	(0.913)	185358	20.0000	18.129
57 Dibromochloromethane	129	7.496	7.496	(0.932)	86946	10.0000	9.289
58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	105663	10.0000	10.095
59 Chlorobenzene	112	8.064	8.064	(1.003)	341011	10.0000	10.298
60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	96404	10.0000	9.547
61 Ethylbenzene	106	8.158	8.158	(1.015)	175654	10.0000	9.624
62 m + p-Xylene	106	8.277	8.277	(1.029)	460133	20.0000	20.254
64 Xylene-o	106	8.655	8.655	(1.077)	218803	10.0000	10.093
65 Styrene	104	8.655	8.655	(1.077)	359536	10.0000	9.786
66 Bromoform	173	8.845	8.845	(1.100)	41266	10.0000	9.823
67 Isopropylbenzene	105	8.998	8.998	(1.119)	538251	10.0000	9.444
68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	147425	10.0000	10.199
69 1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	32707	10.0000	7.959
70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	44941	10.0000	10.024
71 Bromobenzene	156	9.306	9.306	(0.905)	124207	10.0000	10.459
72 n-Propylbenzene	120	9.401	9.401	(0.914)	145131	10.0000	10.321
73 2-Chlorotoluene	126	9.495	9.495	(0.923)	120870	10.0000	10.044
74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	444144	10.0000	9.920
75 4-Chlorotoluene	126	9.590	9.590	(0.932)	137926	10.0000	10.753
76 tert-Butylbenzene	119	9.898	9.898	(0.962)	351082	10.0000	9.438
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	463786	10.0000	9.914
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	524633	10.0000	9.491
79 4-Isopropyltoluene	119	10.253	10.253	(0.997)	414993	10.0000	9.702

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1130.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	236394	10.0000	10.174
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	235352	10.0000	9.948
82	n-Butylbenzene	91	10.655	10.655	(1.036)	360997	10.0000	9.147
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	204400	10.0000	9.744
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	8787	10.0000	8.618
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	65176	10.0000	9.456
86	Hexachlorobutadiene	225	12.465	12.465	(1.212)	24216	10.0000	10.036
87	Naphthalene	128	12.536	12.536	(1.219)	163280	10.0000	9.568
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	60894	10.0000	9.236
98	Cyclohexane	56	4.881	4.881	(0.912)	216754	10.0000	8.907
143	Methyl Acetate	43	3.236	3.236	(0.604)	290141	20.0000	19.719
144	Methylcyclohexane	83	5.851	5.851	(1.093)	194848	10.0000	8.755
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	72332	10.0000	9.958
150	Vinyl Acetate-86	86	3.946	3.946	(0.737)	19745	10.0000	8.658

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1130.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1130.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1644
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,2-8260.SUB,1644,1,2

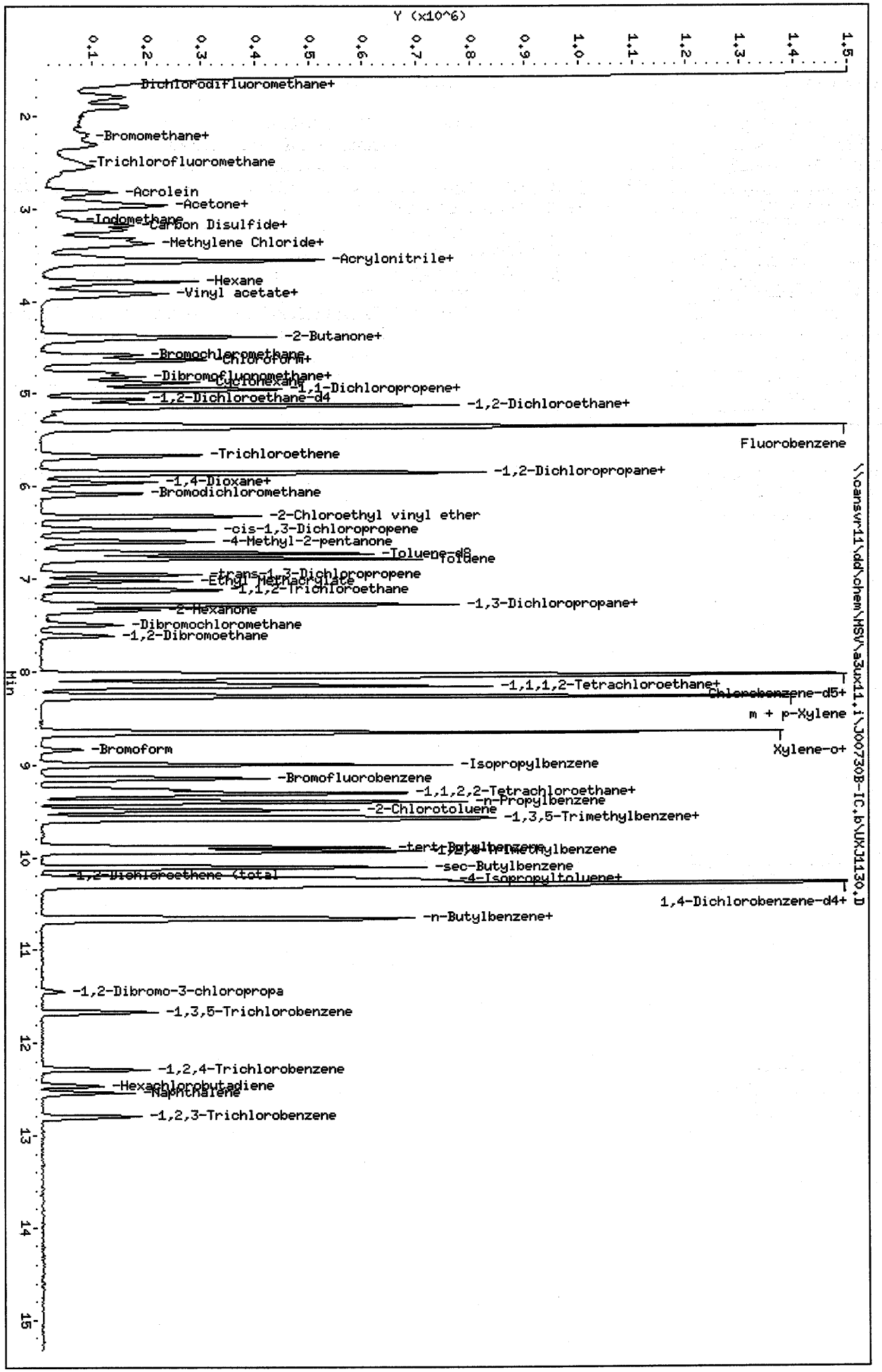
Calibration Date: 30-JUL-2010
Calibration Time: 16:04

Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1677484	838742	3354968	1674781	-0.16
2 Chlorobenzene-d5	1184749	592375	2369498	1152953	-2.68
3 1,4-Dichlorobenze	543286	271643	1086572	531000	-2.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ130.D
Date : 30-JUL-2010 16:50
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 1644
Column diameter: 0.18
Y (x10^6)
Min
\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ130.D
Dichlorodifluoromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Methylene Chloride+
-Acrylonitrile+
-Hexane
-Vinyl acetate+
-2-Butanone+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-1,4-Dioxane+
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
Chlorobenzene-d5+
m + p-Xylene
Xylene-o+
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-sec-Butylbenzene
-1,2-Dichloroethene (total
-4-Isopropyltoluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1131.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1131.D
Lab Smp Id: 5NG-IC
Inj Date : 30-JUL-2010 17:12
Operator : 1644 Inst ID: a3ux11.i
Smp Info : 5NG-IC
Misc Info : J00730B,8260LLUX11,2-8260.SUB,1644,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:08 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:46 Cal File: UXJ0109.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	5.354	5.354	(1.000)	1640715	50.0000	
*	2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1130345	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	505777	50.0000	
$	4 Dibromofluoromethane	113	4.774	4.774	(0.892)	50768	5.00000	4.706
$	5 1,2-Dichloroethane-d4	65	5.058	5.058	(0.945)	91206	5.00000	4.736
$	6 Toluene-d8	98	6.727	6.727	(0.837)	228446	5.00000	5.013
$	7 Bromofluorobenzene	95	9.152	9.152	(1.138)	78514	5.00000	4.751
	8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	71076	5.00000	5.324
	9 Chloromethane	50	1.804	1.804	(0.337)	100157	5.00000	4.836
	10 Vinyl Chloride	62	1.899	1.899	(0.355)	86331	5.00000	4.763
	11 Bromomethane	94	2.218	2.218	(0.414)	10574	5.00000	5.014
	12 Chloroethane	64	2.289	2.289	(0.428)	29871	5.00000	4.841
	13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	35380	5.00000	5.027
	15 Acrolein	56	2.822	2.822	(0.527)	108625	50.0000	47.083
	16 Acetone	43	2.952	2.952	(0.551)	85554	10.0000	10.054
	17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	50298	5.00000	4.743
	18 Freon-113	151	2.976	2.976	(0.556)	20882	5.00000	4.390
	19 Iodomethane	142	3.118	3.118	(0.582)	46648	5.00000	4.708
	20 Carbon Disulfide	76	3.153	3.153	(0.589)	126027	5.00000	4.570
	21 Methylene Chloride	84	3.331	3.331	(0.622)	121107	5.00000	4.586
	22 Acetonitrile	41	3.177	3.177	(0.593)	107669	50.0000	53.874
	23 Acrylonitrile	53	3.520	3.520	(0.657)	65890	10.0000	10.458

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1131.D
Report Date: 02-Aug-2010 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.567	3.567	(0.666)	165807	5.00000	4.608
25 trans-1,2-Dichloroethene	96	3.567	3.567	(0.666)	59424	5.00000	4.827
26 Hexane	86	3.792	3.792	(0.708)	19422	5.00000	5.692
27 Vinyl acetate	43	3.934	3.934	(0.735)	124945	5.00000	4.390
28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	125364	5.00000	4.734
29 tert-Butyl Alcohol	59	3.402	3.402	(0.635)	73329	100.000	88.214
30 2-Butanone	43	4.384	4.384	(0.819)	94884	10.0000	10.805
32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	67319	5.00000	5.137
33 2,2-Dichloropropane	77	4.396	4.396	(0.821)	46184	5.00000	4.705
34 Bromochloromethane	128	4.585	4.585	(0.856)	26416	5.00000	4.846
35 Chloroform	83	4.644	4.644	(0.867)	113998	5.00000	4.911
36 Tetrahydrofuran	42	4.632	4.632	(0.865)	46749	5.00000	5.191
37 1,1,1-Trichloroethane	97	4.822	4.822	(0.901)	66657	5.00000	4.686
38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	102706	5.00000	5.015
39 Carbon Tetrachloride	117	4.964	4.964	(0.927)	56793	5.00000	4.621
40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	109584	5.00000	4.898
41 Benzene	78	5.129	5.129	(0.958)	315657	5.00000	5.378
42 Trichloroethene	130	5.662	5.662	(1.057)	55614	5.00000	4.883
43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	75082	5.00000	4.838
44 1,4-Dioxane	88	5.969	5.969	(1.115)	22808	250.000	225.32
45 Dibromomethane	93	5.957	5.957	(1.113)	36977	5.00000	4.850
46 Bromodichloromethane	83	6.088	6.088	(1.137)	68588	5.00000	4.318
47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	89709	10.0000	8.822
48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	81522	5.00000	3.963
49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	136859	10.0000	8.883
50 Toluene	91	6.786	6.786	(0.844)	277803	5.00000	4.986
51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	73694	5.00000	4.039
52 Ethyl Methacrylate	69	7.022	7.022	(0.873)	73206	5.00000	4.193
53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	56524	5.00000	5.211
54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	116730	5.00000	5.135
55 Tetrachloroethene	164	7.283	7.283	(0.906)	44681	5.00000	5.171
56 2-Hexanone	43	7.342	7.342	(0.913)	90034	10.0000	8.982
57 Dibromochloromethane	129	7.496	7.496	(0.932)	38144	5.00000	4.157
58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	46883	5.00000	4.569
59 Chlorobenzene	112	8.064	8.064	(1.003)	161231	5.00000	4.966
60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	44409	5.00000	4.486
61 Ethylbenzene	106	8.158	8.158	(1.015)	88497	5.00000	4.946
62 m + p-Xylene	106	8.277	8.277	(1.029)	212498	10.0000	9.541
64 Xylene-o	106	8.655	8.655	(1.077)	103483	5.00000	4.869
65 Styrene	104	8.655	8.655	(1.077)	158713	5.00000	4.406
66 Bromoform	173	8.845	8.845	(1.100)	20227	5.00000	6.364
67 Isopropylbenzene	105	8.999	8.999	(1.119)	259969	5.00000	4.652
68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	69142	5.00000	5.022
69 1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	17360	5.00000	4.435
70 1,2,3-Trichloropropane	110	9.330	9.330	(0.907)	22947	5.00000	5.373
71 Bromobenzene	156	9.306	9.306	(0.905)	56577	5.00000	5.002
72 n-Propylbenzene	120	9.401	9.401	(0.914)	64825	5.00000	4.840
73 2-Chlorotoluene	126	9.496	9.496	(0.923)	59356	5.00000	5.178
74 1,3,5-Trimethylbenzene	105	9.567	9.567	(0.930)	201662	5.00000	4.728
75 4-Chlorotoluene	126	9.590	9.590	(0.932)	60421	5.00000	4.946
76 tert-Butylbenzene	119	9.898	9.898	(0.962)	171435	5.00000	4.838
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	207654	5.00000	4.660
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	241999	5.00000	4.596
79 4-Isopropyltoluene	119	10.253	10.253	(0.997)	184416	5.00000	4.527

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1131.D
Report Date: 02-Aug-2010 08:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	114221	5.00000	5.161
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	115840	5.00000	5.141
82	n-Butylbenzene	91	10.655	10.655	(1.036)	175198	5.00000	4.661
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	101982	5.00000	5.104
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	5096	5.00000	5.247
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	30982	5.00000	4.719
86	Hexachlorobutadiene	225	12.466	12.466	(1.212)	10446	5.00000	4.545
87	Naphthalene	128	12.537	12.537	(1.219)	77268	5.00000	5.946
88	1,2,3-Trichlorobenzene	180	12.809	12.809	(1.245)	28474	5.00000	4.534
98	Cyclohexane	56	4.881	4.881	(0.912)	114759	5.00000	4.814(a)
143	Methyl Acetate	43	3.236	3.236	(0.604)	149008	10.0000	10.337
144	Methylcyclohexane	83	5.851	5.851	(1.093)	111761	5.00000	5.126
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	35510	5.00000	5.133
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	9348	5.00000	4.184(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1131.D
Report Date: 02-Aug-2010 08:08

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1131.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 1644
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,2-8260.SUB,1644,1,1

Calibration Date: 30-JUL-2010
Calibration Time: 16:04

Level: LOW
Sample Type: WATER

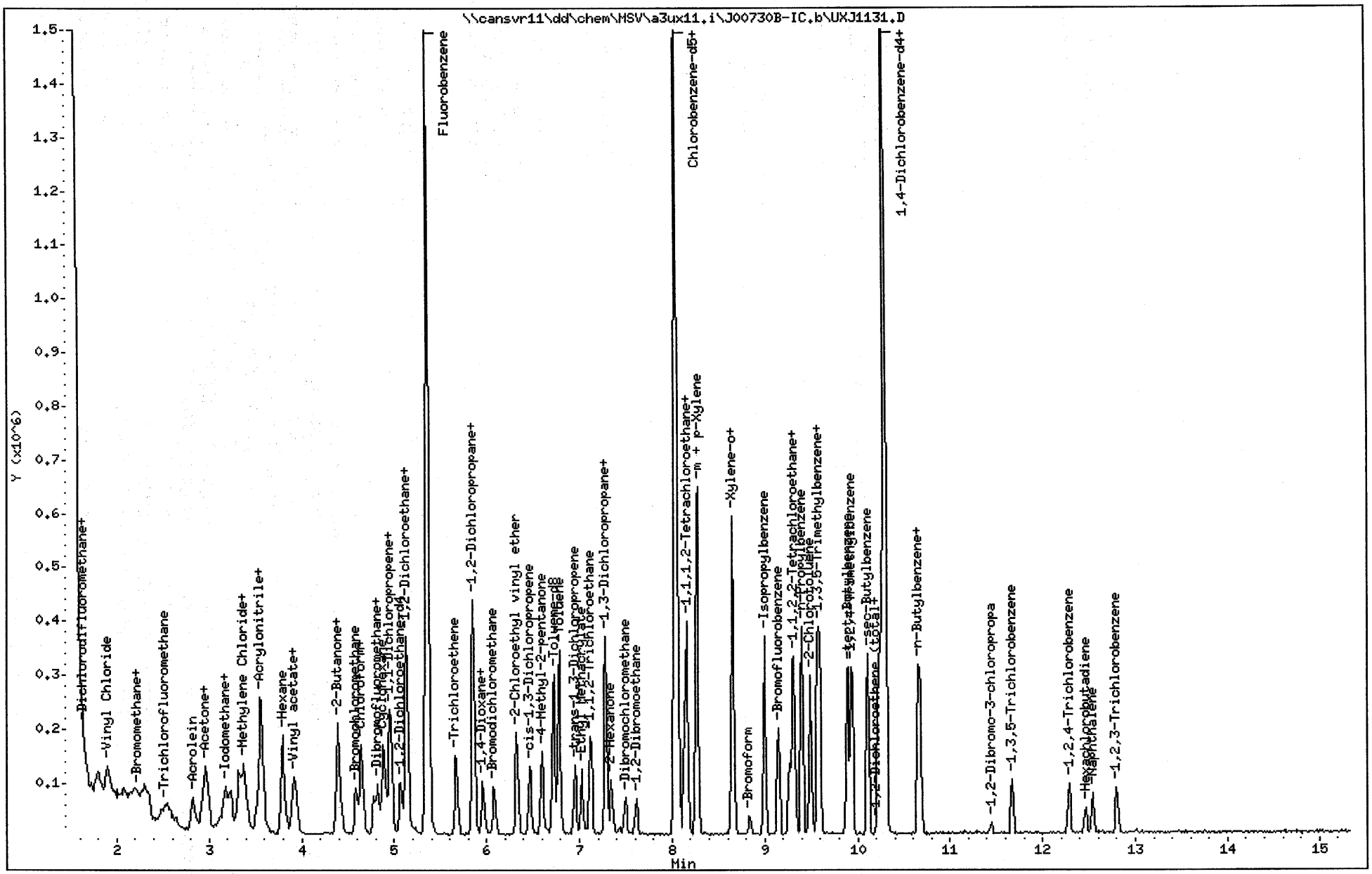
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1677484	838742	3354968	1640715	-2.19
2 Chlorobenzene-d5	1184749	592375	2369498	1130345	-4.59
3 1,4-Dichlorobenze	543286	271643	1086572	505777	-6.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1131.D
Date : 30-JUL-2010 17:12
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux11.i
Operator: 1644
Column diameter: 0.18



North Canton

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Report Date: 02-Aug-2010 08:13

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Lab Smp Id: ICV
Inj Date : 30-JUL-2010 17:35
Operator : 1644 Inst ID: a3ux11.i
Smp Info : ICV
Misc Info : J00730B,8260LLUX11,,1644,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:12 evansl Quant Type: ISTD
Cal Date : 18-JUN-2010 03:08 Cal File: UXJ0110.D
Als bottle: 9 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1622910	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1143099	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	554624	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	463083	43.3990	8.680
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	818468	42.9627	8.592
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	2026745	43.9804	8.796
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	777991	46.5503	9.310
8 Dichlorodifluoromethane	85	1.639	1.638	(0.306)	588996	44.6056	8.921
9 Chloromethane	50	1.792	1.804	(0.335)	924463	45.1289	9.026
10 Vinyl Chloride	62	1.899	1.899	(0.355)	774069	43.1750	8.635
11 Bromomethane	94	2.218	2.218	(0.414)	128545	38.2344	7.647
12 Chloroethane	64	2.301	2.289	(0.430)	278358	45.6095	9.122
13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	540295	46.8689	9.374
15 Acrolein	56	2.822	2.822	(0.527)	382735	167.714	33.543
16 Acetone	43	2.952	2.952	(0.551)	503183	93.0618	18.612
17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	517280	49.3125	9.862
18 Freon-113	151	2.976	2.976	(0.556)	262436	55.7839	11.157
19 Iodomethane	142	3.106	3.118	(0.580)	487792	49.7770	9.955
20 Carbon Disulfide	76	3.165	3.153	(0.591)	1403152	51.4431	10.289
21 Methylene Chloride	84	3.331	3.331	(0.622)	574873	48.1030	9.620
22 Acetonitrile	41	3.189	3.177	(0.596)	279693	141.485	28.297
23 Acrylonitrile	53	3.520	3.520	(0.657)	913442	146.568	29.314

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Report Date: 02-Aug-2010 08:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	3.555	3.567	(0.664)	1749741	49.1647	9.833
	25 trans-1,2-Dichloroethene	96	3.555	3.567	(0.664)	597718	49.0837	9.817
	26 Hexane	86	3.792	3.792	(0.708)	193967	57.4703	11.494
	27 Vinyl acetate	43	3.946	3.934	(0.737)	2882550	102.398	20.480
	28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	1299378	49.6087	9.922
	29 tert-Butyl Alcohol	59	3.390	3.402	(0.633)	835362	1015.96	203.19
	30 2-Butanone	43	4.384	4.384	(0.819)	793826	91.3932	18.279
M	31 1,2-Dichloroethene (total)	96				1225752	97.5337	19.507
	32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	628034	48.4499	9.690
	33 2,2-Dichloropropane	77	4.396	4.396	(0.821)	452605	46.6147	9.323
	34 Bromochloromethane	128	4.585	4.585	(0.856)	277257	51.4229	10.284
	35 Chloroform	83	4.644	4.644	(0.867)	1131761	49.2884	9.858
	36 Tetrahydrofuran	42	4.632	4.632	(0.865)	274662	47.7367	9.547
	37 1,1,1-Trichloroethane	97	4.822	4.822	(0.901)	687082	48.8304	9.766
	38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	997759	49.2581	9.852
	39 Carbon Tetrachloride	117	4.964	4.964	(0.927)	621704	51.1425	10.228
	40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	1056374	47.7384	9.548
	41 Benzene	78	5.129	5.129	(0.958)	2732979	47.0706	9.414
	42 Trichloroethene	130	5.674	5.662	(1.060)	553690	49.1486	9.830
	43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	746595	48.6319	9.726
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.958	5.957	(1.113)	380329	50.4284	10.086
	46 Bromodichloromethane	83	6.076	6.088	(1.135)	793772	50.5192	10.104
	47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	491901	48.9073	9.781
	48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	983283	48.3271	9.665
	49 4-Methyl-2-pentanone	43	6.597	6.596	(1.232)	1517344	99.5679	19.914
	50 Toluene	91	6.786	6.786	(0.844)	2741185	48.6455	9.729
	51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	930748	50.4461	10.089
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	514889	46.9375	9.388
	54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	1122811	48.8395	9.768
	55 Tetrachloroethene	164	7.283	7.283	(0.906)	426672	48.8269	9.765
	56 2-Hexanone	43	7.342	7.342	(0.913)	1051113	103.689	20.738
	57 Dibromochloromethane	129	7.496	7.496	(0.932)	459263	49.4916	9.898
	58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	506457	48.8042	9.761
	59 Chlorobenzene	112	8.064	8.064	(1.003)	1550376	47.2224	9.444
	60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	494851	49.4276	9.886
	61 Ethylbenzene	106	8.158	8.158	(1.015)	875805	48.3998	9.680
	62 m + p-Xylene	106	8.277	8.277	(1.029)	2159014	95.8564	19.171
M	63 Xylenes (total)	106				3213948	144.940	28.988
	64 Xylene-o	106	8.655	8.655	(1.077)	1054934	49.0840	9.817
	65 Styrene	104	8.655	8.655	(1.077)	1801831	49.4674	9.893
	66 Bromoform	173	8.845	8.845	(1.100)	237708	43.1002	8.620
	67 Isopropylbenzene	105	8.999	8.999	(1.119)	2729171	48.2959	9.659
	68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	713411	47.2539	9.451
	69 1,4-Dichloro-2-butene	53	9.330	9.330	(0.907)	460038	107.180	21.436
	70 1,2,3-Trichloropropane	110	9.318	9.330	(0.906)	227690	48.6203	9.724
	71 Bromobenzene	156	9.306	9.306	(0.905)	595289	47.9925	9.598
	72 n-Propylbenzene	120	9.401	9.401	(0.914)	709253	48.2904	9.658
	73 2-Chlorotoluene	126	9.496	9.496	(0.923)	604648	48.1070	9.621
	74 1,3,5-Trimethylbenzene	105	9.567	9.567	(0.930)	2241700	47.9337	9.587
	75 4-Chlorotoluene	126	9.590	9.590	(0.932)	623187	46.5165	9.303
	76 tert-Butylbenzene	119	9.898	9.898	(0.962)	1835794	47.2469	9.449
	77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	2377449	48.6585	9.732

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Report Date: 02-Aug-2010 08:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	2710371	46.9444	9.389
79	4-Isopropyltoluene	119	10.253	10.253	(0.997)	2170758	48.5905	9.718
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1092879	45.0316	9.006
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1145631	46.3625	9.272
82	n-Butylbenzene	91	10.655	10.655	(1.036)	2043183	49.5674	9.913
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	1010689	46.1304	9.226
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	51677	48.5232	9.705
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	319054	44.3188	8.864
86	Hexachlorobutadiene	225	12.466	12.466	(1.212)	107569	42.6834	8.537
87	Naphthalene	128	12.537	12.537	(1.219)	943924	42.2107	8.442
88	1,2,3-Trichlorobenzene	180	12.797	12.809	(1.244)	314593	45.6820	9.136
14	Dichlorofluoromethane	67	2.455	2.455	(0.459)	8680	0.57393	0.1148
89	Ethyl Ether	59	2.715	2.715	(0.507)	645200	66.6131	13.323
91	3-Chloropropene	76	3.165	3.224	(0.591)	1403152	283.030	56.606
92	Isopropyl Ether	87	3.958	3.958	(0.739)	576995	57.4746	11.495
93	2-Chloro-1,3-butadiene	53	3.792	3.981	(0.708)	42041	2.63292	0.5266
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	4.384	4.431	(0.819)	788703	74.7237	14.945
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.999	4.999	(0.622)	1218970	3991.60	798.32
100	Methyl Methacrylate	41	5.851	5.922	(1.093)	1190739	135.325	27.065
101	2-Nitropropane	41	6.324	6.265	(1.181)	27094	12.8706	2.574
98	Cyclohexane	56	4.881	4.881	(0.912)	1178996	49.9969	9.999
99	n-Butanol	56	5.567	5.555	(0.692)	1580	57.8838	11.577
103	Cyclohexanone	55	9.093	9.093	(0.884)	371073	1062.17	212.43
143	Methyl Acetate	43	3.224	3.236	(0.602)	700320	49.1166	9.823
144	Methylcyclohexane	83	5.851	5.851	(1.093)	1149281	53.2883	10.658
146	2-Methylnaphthalene	142	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	131077	59.3141	11.863
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	5.129	5.212	(0.958)	50191	1.94850	0.3897(a)
157	1,2,3-Trimethylbenzene	105	10.359	10.359	(1.007)	2333542	57.6263	11.525

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Report Date: 02-Aug-2010 08:13

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Lab Smp Id: ICV
Inj Date : 30-JUL-2010 17:35
Operator : 1644 Inst ID: a3ux11.i
Smp Info : ICV
Misc Info : J00730B,8260LLUX11,,1644,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Meth Date : 02-Aug-2010 08:12 evansl Quant Type: ISTD
Cal Date : 18-JUN-2010 03:08 Cal File: UXJ0110.D
Als bottle: 9 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Report Date: 02-Aug-2010 08:13

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1132.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 1644
Calibration Date: 30-JUL-2010
Calibration Time: 14:49
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,,1644,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1322969	661485	2645938	1622910	22.67
2 Chlorobenzene-d5	909709	454855	1819418	1143099	25.66
3 1,4-Dichlorobenze	393885	196943	787770	554624	40.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Report Date: 02-Aug-2010 08:13

TestAmerica North Canton

RECOVERY REPORT

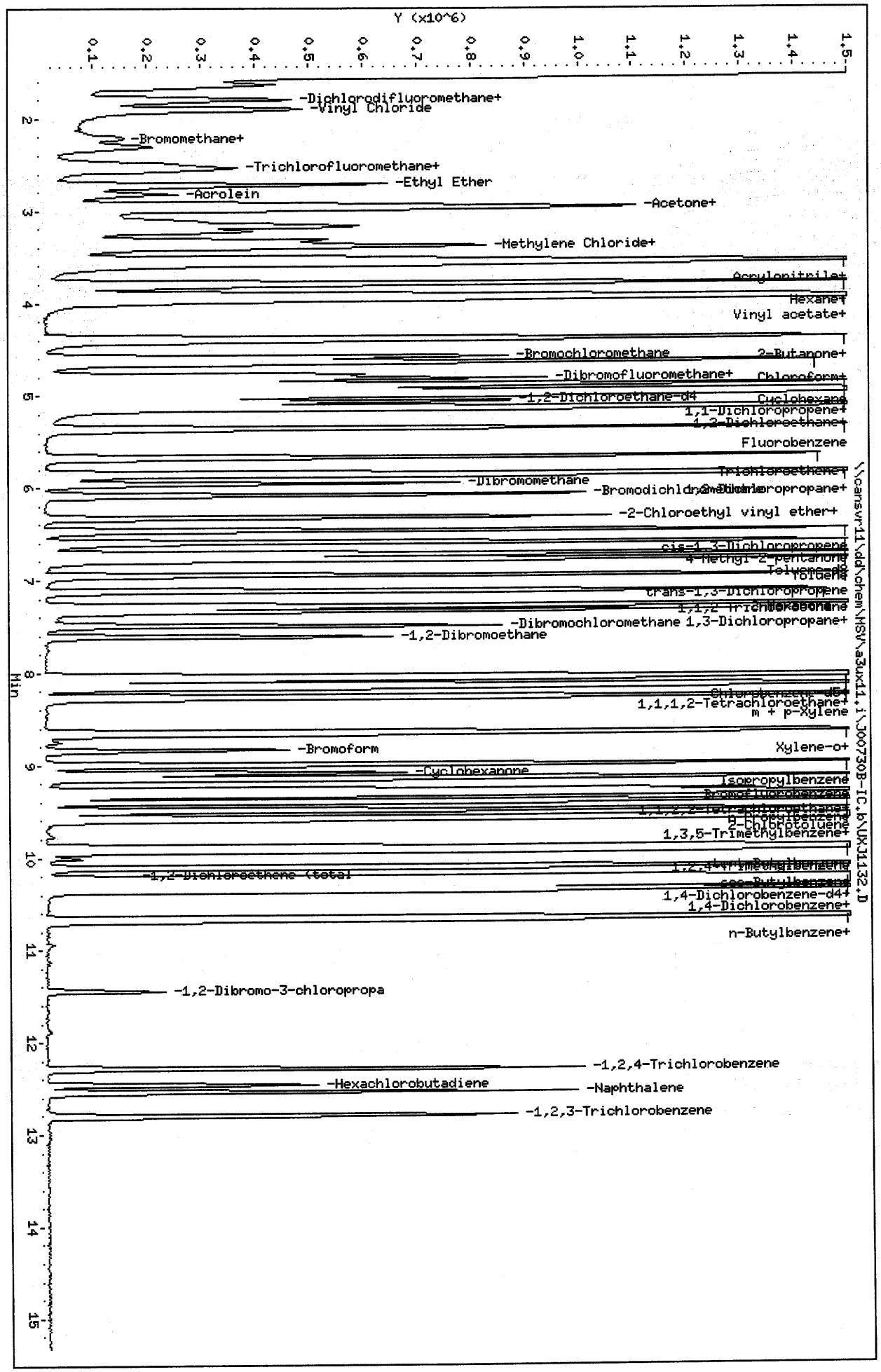
Client Name:
Client SDG: SDGa01304
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: ICV
Level: LOW
Operator: 1644
Data Type: MS DATA
SampleType: METHSPIKE
SpikeList File: DOD-ck.spk
Quant Type: ISTD
Sublist File: 4-8260+IX.sub
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\8260LLUX11.m
Misc Info: J00730B,8260LLUX11,,1644,3

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	17	1,1-Dichloroethene	10.000	9.862	98.63	45-155
	42	Trichloroethene	10.000	9.830	98.30	45-155
	59	Chlorobenzene	10.000	9.444	94.44	45-155
	50	Toluene	10.000	9.729	97.29	45-155
	41	Benzene	10.000	9.414	94.14	45-155
	16	Acetone	20.000	18.612	93.06	45-155
	20	Carbon Disulfide	10.000	10.289	102.89	45-155
	9	Chloromethane	10.000	9.026	90.26	45-155
	11	Bromomethane	10.000	7.647	76.47	45-155
	10	Vinyl Chloride	10.000	8.635	86.35	45-155
	12	Chloroethane	10.000	9.122	91.22	45-155
	21	Methylene Chloride	10.000	9.620	96.21	45-155
	28	1,1-Dichloroethane	10.000	9.922	99.22	45-155
M	31	1,2-Dichloroethene	20.000	19.507	97.53	45-155
	35	Chloroform	10.000	9.858	98.58	45-155
	40	1,2-Dichloroethane	10.000	9.548	95.48	45-155
	30	2-Butanone	20.000	18.279	91.39	45-155
	37	1,1,1-Trichloroeth	10.000	9.766	97.66	45-155
	39	Carbon Tetrachlori	10.000	10.228	102.29	45-155
	46	Bromodichlorometha	10.000	10.104	101.04	45-155
	43	1,2-Dichloropropan	10.000	9.726	97.26	45-155
	48	cis-1,3-Dichloropr	10.000	9.665	96.65	45-155
	54	1,3-Dichloropropan	10.000	9.768	97.68	45-155
	57	Dibromochlorometha	10.000	9.898	98.98	45-155
	53	1,1,2-Trichloroeth	10.000	9.388	93.88	45-155
	51	trans-1,3-Dichloro	10.000	10.089	100.89	45-155
	66	Bromoform	10.000	8.620	86.20	45-155
	49	4-Methyl-2-pentano	20.000	19.914	99.57	45-155
	56	2-Hexanone	20.000	20.738	103.69	45-155
	55	Tetrachloroethene	10.000	9.765	97.65	45-155
	68	1,1,2,2-Tetrachlor	10.000	9.451	94.51	45-155
	61	Ethylbenzene	10.000	9.680	96.80	45-155
	65	Styrene	10.000	9.893	98.93	45-155
M	63	Xylenes (total)	30.000	28.988	96.63	45-155
	32	cis-1,2-dichloroet	10.000	9.690	96.90	45-155
	25	trans-1,2-Dichloro	10.000	9.817	98.17	45-155
	8	Dichlorodifluorome	10.000	8.921	89.21	45-155
	13	Trichlorofluoromet	10.000	9.374	93.74	45-155
	70	1,2,3-Trichloropro	10.000	9.724	97.24	45-155
	18	Freon-113	10.000	11.157	111.57	45-155

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\UXJ1132.D
Report Date: 02-Aug-2010 08:13

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
24 Methyl tert-butyl	10.000	9.833	98.33	45-155
58 1,2-Dibromoethane	10.000	9.761	97.61	45-155
67 Isopropylbenzene	10.000	9.659	96.59	45-155
80 1,3-Dichlorobenzen	10.000	9.006	90.06	45-155
81 1,4-Dichlorobenzen	10.000	9.272	92.72	45-155
83 1,2-Dichlorobenzen	10.000	9.226	92.26	45-155
84 1,2-Dibromo-3-chlo	10.000	9.705	97.05	45-155
85 1,2,4-Trichloroben	10.000	8.864	88.64	45-155
98 Cyclohexane	10.000	9.999	99.99	45-155
143 Methyl Acetate	10.000	9.823	98.23	45-155
144 Methylcyclohexane	10.000	10.658	106.58	45-155
71 Bromobenzene	10.000	9.598	95.99	45-155
34 Bromochloromethane	10.000	10.284	102.85	45-155
82 n-Butylbenzene	10.000	9.913	99.13	45-155
78 sec-Butylbenzene	10.000	9.389	93.89	45-155
76 tert-Butylbenzene	10.000	9.449	94.49	45-155
73 2-Chlorotoluene	10.000	9.621	96.21	45-155
75 4-Chlorotoluene	10.000	9.303	93.03	45-155
45 Dibromomethane	10.000	10.086	100.86	45-155
33 2,2-Dichloropropan	10.000	9.323	93.23	45-155
38 1,1-Dichloropropen	10.000	9.852	98.52	45-155
86 Hexachlorobutadien	10.000	8.537	85.37	45-155
19 Iodomethane	10.000	9.955	99.55	45-155
92 Isopropyl Ether	10.000	11.495	114.95	45-155
79 4-Isopropyltoluene	10.000	9.718	97.18	45-155
87 Naphthalene	10.000	8.442	84.42	45-155
72 n-Propylbenzene	10.000	9.658	96.58	45-155
60 1,1,1,2-Tetrachlor	10.000	9.886	98.86	45-155
88 1,2,3-Trichloroben	10.000	9.136	91.36	45-155
77 1,2,4-Trimethylben	10.000	9.732	97.32	45-155
74 1,3,5-Trimethylben	10.000	9.587	95.87	45-155
150 Vinyl Acetate-86	10.000	11.863	118.63	45-155
62 m + p-Xylene	20.000	19.171	95.86	45-155
64 Xylene-o	10.000	9.817	98.17	45-155

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	10.000	8.680	86.80	73-122
$ 5 1,2-Dichloroethane	10.000	8.592	85.93	61-128
$ 6 Toluene-d8	10.000	8.796	87.96	76-110
$ 7 Bromofluorobenzene	10.000	9.310	93.10	74-116



Data File: \\cansvr11\dd\chem\HSV\a3ux11.i\J00730B-IC.b\UXJ132.D
Date : 30-JUL-2010 17:35
Client ID:
Sample Info: ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux11.i
Operator: 1644
Column diameter: 0.18

Report Date: 02-Aug-2010 08:56

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Start Cal Date: 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
18-JUN-2010 03:08	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0110.D
30-JUL-2010 17:12	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1131.D
Cal Level: 2 , Cal Amount: 10.00000		
18-JUN-2010 02:46	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0109.D
30-JUL-2010 16:50	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1130.D
Cal Level: 3 , Cal Amount: 25.00000		
18-JUN-2010 02:23	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0108.D
30-JUL-2010 16:27	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1129.D
Cal Level: 4 , Cal Amount: 50.00000		
18-JUN-2010 02:01	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0107.D
30-JUL-2010 16:04	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1128.D
Cal Level: 5 , Cal Amount: 100.00000		
18-JUN-2010 01:38	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0106.D
30-JUL-2010 15:41	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1127.D
Cal Level: 6 , Cal Amount: 200.00000		
18-JUN-2010 01:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0105.D
30-JUL-2010 15:19	2-8260	

\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1126.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

01-AUG-2010 14:10	2-8260	
\\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D		
01-AUG-2010 14:33	3-IX	
\\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1163.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Report Date: 03-Aug-2010 21:30

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 01-AUG-2010 14:10
Lab File ID: UXJ1162.D Init. Cal. Date(s): 17-JUN-2010 30-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:26 17:12
Lab Sample ID: 50NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.32874	0.28642	0.28642	0.010	12.87281	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.58693	0.52238	0.52238	0.010	10.99783	50.00000	Averaged	
$ 6 Toluene-d8	2.01570	1.68957	1.68957	0.010	16.17947	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.73104	0.65913	0.65913	0.010	9.83587	50.00000	Averaged	
8 Dichlorodifluoromethane	0.40682	0.43194	0.43194	0.010	-6.17665	50.00000	Averaged	
9 Chloromethane	0.63112	0.61863	0.61863	0.100	1.97838	50.00000	Averaged	
10 Vinyl Chloride	0.55236	0.53844	0.53844	0.010	2.52118	20.00000	Averaged	
11 Bromomethane	50.00000	48.15219	0.10093	0.010	3.69562	0.000e+000	Wt Linear	
12 Chloroethane	0.18803	0.19284	0.19284	0.010	-2.55754	50.00000	Averaged	
13 Trichlorofluoromethane	50.00000	50.54290	0.36026	0.010	-1.08580	0.000e+000	Wt Linear	
15 Acrolein	0.07031	0.06332	0.06332	0.010	9.94028	50.00000	Averaged	
16 Acetone	100	95.46514	0.15876	0.010	4.53486	0.000e+000	Wt Linear	
17 1,1-Dichloroethene	0.32318	0.33782	0.33782	0.010	-4.53018	20.00000	Averaged	
18 Freon-113	0.14494	0.15980	0.15980	0.010	-10.24965	50.00000	Averaged	
19 Iodomethane	0.30191	0.28554	0.28554	0.010	5.42398	50.00000	Averaged	
20 Carbon Disulfide	0.84034	0.92369	0.92369	0.010	-9.91866	50.00000	Averaged	
21 Methylene Chloride	50.00000	48.12060	0.35434	0.010	3.75880	0.000e+000	Wt Linear	
22 Acetonitrile	0.06090	0.05712	0.05712	0.010	6.21114	50.00000	Averaged	
23 Acrylonitrile	0.19201	0.18279	0.18279	0.010	4.80249	50.00000	Averaged	
24 Methyl tert-butyl ether	1.09647	1.12473	1.12473	0.010	-2.57716	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.37518	0.38254	0.38254	0.010	-1.96327	50.00000	Averaged	
26 Hexane	0.10398	0.11219	0.11219	0.010	-7.88975	20.00000	Averaged	
27 Vinyl acetate	0.86728	0.81582	0.81582	0.010	5.93380	50.00000	Averaged	
28 1,1-Dichloroethane	0.80696	0.81449	0.81449	0.100	-0.93264	50.00000	Averaged	
29 tert-Butyl Alcohol	0.02533	0.02529	0.02529	0.010	0.16594	50.00000	Averaged	
30 2-Butanone	0.26760	0.24154	0.24154	0.010	9.73873	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.38727	0.39503	0.39503	0.010	-2.00484	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.39936	0.40752	0.40752	0.010	-2.04390	50.00000	Averaged	
33 2,2-Dichloropropane	0.29914	0.26234	0.26234	0.010	12.29999	50.00000	Averaged	
34 Bromochloromethane	0.16611	0.16976	0.16976	0.010	-2.19406	50.00000	Averaged	
35 Chloroform	0.70743	0.71235	0.71235	0.010	-0.69441	20.00000	Averaged	
36 Tetrahydrofuran	50.00000	41.05872	0.14715	0.010	17.88256	0.000e+000	Wt Linear	
37 1,1,1-Trichloroethane	0.43351	0.40444	0.40444	0.010	6.70441	50.00000	Averaged	
38 1,1-Dichloropropene	0.62406	0.62658	0.62658	0.010	-0.40447	50.00000	Averaged	
39 Carbon Tetrachloride	0.37452	0.37038	0.37038	0.010	1.10660	50.00000	Averaged	
40 1,2-Dichloroethane	0.68175	0.67918	0.67918	0.010	0.37732	50.00000	Averaged	
41 Benzene	1.78880	1.74051	1.74051	0.010	2.69995	50.00000	Averaged	
42 Trichloroethene	0.34708	0.34838	0.34838	0.010	-0.37288	50.00000	Averaged	
43 1,2-Dichloropropane	0.47298	0.46644	0.46644	0.010	1.38160	20.00000	Averaged	
44 1,4-Dioxane	0.00308	0.00294	0.00294	0.010	4.60656	50.00000	Averaged	<-
45 Dibromomethane	0.23236	0.23060	0.23060	0.010	0.75663	50.00000	Averaged	
46 Bromodichloromethane	0.48408	0.52980	0.52980	0.010	-9.44612	50.00000	Averaged	
47 2-Chloroethyl vinyl ether	0.30987	0.30085	0.30085	0.010	2.91248	50.00000	Averaged	

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Report Date: 03-Aug-2010 21:30

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 01-AUG-2010 14:10
Lab File ID: UXJ1162.D Init. Cal. Date(s): 17-JUN-2010 30-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:26 17:12
Lab Sample ID: 50NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 cis-1,3-Dichloropropene	0.62685	0.64798	0.64798	0.010	-3.37125	50.00000	Averaged
49 4-Methyl-2-pentanone	0.46951	0.45400	0.45400	0.010	3.30173	50.00000	Averaged
50 Toluene	2.46480	2.42381	2.42381	0.010	1.66296	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.80703	0.82130	0.82130	0.010	-1.76845	50.00000	Averaged
52 Ethyl Methacrylate	0.77222	0.75918	0.75918	0.010	1.68883	50.00000	Averaged
53 1,1,2-Trichloroethane	0.47982	0.45392	0.45392	0.010	5.39732	50.00000	Averaged
54 1,3-Dichloropropane	1.00559	0.94585	0.94585	0.010	5.94072	50.00000	Averaged
55 Tetrachloroethene	0.38223	0.38006	0.38006	0.010	0.56728	50.00000	Averaged
56 2-Hexanone	0.44341	0.42011	0.42011	0.010	5.25549	50.00000	Averaged
57 Dibromochloromethane	0.40590	0.43773	0.43773	0.010	-7.84201	50.00000	Averaged
58 1,2-Dibromoethane	0.45391	0.44456	0.44456	0.010	2.05996	50.00000	Averaged
59 Chlorobenzene	1.43607	1.39406	1.39406	0.300	2.92563	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.43792	0.44381	0.44381	0.010	-1.34489	50.00000	Averaged
61 Ethylbenzene	0.79150	0.77728	0.77728	0.010	1.79596	20.00000	Averaged
62 m + p-Xylene	0.98519	0.96167	0.96167	0.010	2.38762	50.00000	Averaged
M 63 Xylenes (total)	0.97016	0.94965	0.94965	0.010	2.11440	50.00000	Averaged
64 Xylene-o	0.94009	0.92560	0.92560	0.010	1.54173	50.00000	Averaged
65 Styrene	1.59324	1.60230	1.60230	0.010	-0.56841	50.00000	Averaged
66 Bromoform	50.00000	44.25049	0.21390	0.100	11.49902	0.000e+000	Wt Linear
67 Isopropylbenzene	2.47176	2.47995	2.47995	0.010	-0.33125	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	1.36105	1.20053	1.20053	0.300	11.79344	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.38695	0.30899	0.30899	0.010	20.14560	50.00000	Averaged
70 1,2,3-Trichloropropane	0.42218	0.38521	0.38521	0.010	8.75731	50.00000	Averaged
71 Bromobenzene	1.11822	1.04978	1.04978	0.010	6.12024	50.00000	Averaged
72 n-Propylbenzene	1.32407	1.25641	1.25641	0.010	5.11015	50.00000	Averaged
73 2-Chlorotoluene	1.13309	1.04864	1.04864	0.010	7.45371	50.00000	Averaged
74 1,3,5-Trimethylbenzene	4.21607	4.13536	4.13536	0.010	1.91437	50.00000	Averaged
75 4-Chlorotoluene	1.20777	1.13495	1.13495	0.010	6.02896	50.00000	Averaged
76 tert-Butylbenzene	3.50285	3.27835	3.27835	0.010	6.40909	50.00000	Averaged
77 1,2,4-Trimethylbenzene	4.40478	4.15104	4.15104	0.010	5.76058	50.00000	Averaged
78 sec-Butylbenzene	5.20495	5.04506	5.04506	0.010	3.07186	50.00000	Averaged
79 4-Isopropyltoluene	4.02746	3.93771	3.93771	0.010	2.22857	50.00000	Averaged
80 1,3-Dichlorobenzene	2.18789	1.97994	1.97994	0.010	9.50451	50.00000	Averaged
81 1,4-Dichlorobenzene	2.22766	2.07675	2.07675	0.010	6.77457	50.00000	Averaged
82 n-Butylbenzene	3.71606	3.77312	3.77312	0.010	-1.53541	50.00000	Averaged
83 1,2-Dichlorobenzene	1.97516	1.87806	1.87806	0.010	4.91596	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.09601	0.09305	0.09305	0.010	3.08531	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.64900	0.58912	0.58912	0.010	9.22701	50.00000	Averaged
86 Hexachlorobutadiene	0.22720	0.23415	0.23415	0.010	-3.06207	50.00000	Averaged
87 Naphthalene	50.00000	40.43592	1.62610	0.010	19.12817	0.000e+000	Wt Linear
88 1,2,3-Trichlorobenzene	0.62083	0.57556	0.57556	0.010	7.29242	50.00000	Averaged
98 Cyclohexane	0.72652	0.72616	0.72616	0.010	0.04896	50.00000	Averaged
143 Methyl Acetate	0.43928	0.42201	0.42201	0.010	3.93286	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Report Date: 03-Aug-2010 21:30

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 01-AUG-2010 14:10
Lab File ID: UXJ1162.D Init. Cal. Date(s): 17-JUN-2010 30-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:26 17:12
Lab Sample ID: 50NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methylcyclohexane	0.66446	0.66285	0.66285	0.010	0.24260	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.68394	0.59591	0.59591	0.010	12.87019	50.00000	Averaged
150 Vinyl Acetate-86	0.06808	0.06425	0.06425	0.010	5.63114	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Report Date: 03-Aug-2010 21:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Lab Smp Id: 50NG-CC
Inj Date : 01-AUG-2010 14:10
Operator : 43582 Inst ID: a3ux11.i
Smp Info : 50NG-CC
Misc Info : J00801A,8260LLUX11,2-8260.SUB,43582,2
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1630492	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1193156	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	593165	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	467011	50.0000	43.564
$ 5 1,2-Dichloroethane-d4	65	5.058	5.058	(0.945)	851736	50.0000	44.501
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	2015923	50.0000	41.910
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	786447	50.0000	45.082
8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	704282	50.0000	53.088
9 Chloromethane	50	1.792	1.792	(0.335)	1008675	50.0000	49.011
10 Vinyl Chloride	62	1.899	1.899	(0.355)	877914	50.0000	48.739
11 Bromomethane	94	2.206	2.206	(0.412)	164564	50.0000	48.152
12 Chloroethane	64	2.301	2.301	(0.430)	314420	50.0000	51.279
13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	587396	50.0000	50.543
15 Acrolein	56	2.822	2.822	(0.527)	1032412	500.000	450.30
16 Acetone	43	2.952	2.952	(0.551)	517709	100.000	95.465
17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	550813	50.0000	52.265
18 Freon-113	151	2.976	2.976	(0.556)	260547	50.0000	55.125
19 Iodomethane	142	3.106	3.106	(0.580)	465566	50.0000	47.288
20 Carbon Disulfide	76	3.165	3.165	(0.591)	1506062	50.0000	54.959
21 Methylene Chloride	84	3.366	3.366	(0.629)	577744	50.0000	48.121

22	Acetonitrile	41	3.177	3.177 (0.593)	931358	500.000	468.94
23	Acrylonitrile	53	3.508	3.508 (0.655)	596062	100.000	95.198
24	Methyl tert-butyl ether	73	3.555	3.555 (0.664)	1833858	50.0000	51.288

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Report Date: 03-Aug-2010 21:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25 trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	623730	50.0000	50.982
26 Hexane	86	3.792	3.792	(0.708)	182919	50.0000	53.945
27 Vinyl acetate	43	3.934	3.934	(0.735)	1330187	50.0000	47.033
28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	1328016	50.0000	50.466
29 tert-Butyl Alcohol	59	3.390	3.390	(0.633)	824709	1000.00	998.34
30 2-Butanone	43	4.384	4.384	(0.819)	787657	100.000	90.261
32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	664464	50.0000	51.022
33 2,2-Dichloropropane	77	4.396	4.396	(0.821)	427750	50.0000	43.850
34 Bromochloromethane	128	4.585	4.585	(0.856)	276787	50.0000	51.097
35 Chloroform	83	4.644	4.644	(0.867)	1161474	50.0000	50.347
36 Tetrahydrofuran	42	4.632	4.632	(0.865)	239925	50.0000	41.059
37 1,1,1-Trichloroethane	97	4.822	4.822	(0.901)	659438	50.0000	46.648
38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	1021634	50.0000	50.202
39 Carbon Tetrachloride	117	4.964	4.964	(0.927)	603897	50.0000	49.447
40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	1107394	50.0000	49.811
41 Benzene	78	5.129	5.129	(0.958)	2837880	50.0000	48.650
42 Trichloroethene	130	5.673	5.673	(1.060)	568023	50.0000	50.186
43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	760529	50.0000	49.309
44 1,4-Dioxane	88	5.957	5.957	(1.113)	239898	2500.00	2384.8
45 Dibromomethane	93	5.957	5.957	(1.113)	375993	50.0000	49.622
46 Bromodichloromethane	83	6.076	6.076	(1.135)	863841	50.0000	54.723
47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	981051	100.000	97.088
48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	1056530	50.0000	51.686
49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1480498	100.000	96.698
50 Toluene	91	6.786	6.786	(0.844)	2891989	50.0000	49.168
51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	979943	50.0000	50.884
52 Ethyl Methacrylate	69	7.022	7.022	(0.873)	905817	50.0000	49.156
53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	541602	50.0000	47.301
54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	1128549	50.0000	47.030
55 Tetrachloroethene	164	7.283	7.283	(0.906)	453469	50.0000	49.716
56 2-Hexanone	43	7.342	7.342	(0.913)	1002502	100.000	94.744
57 Dibromochloromethane	129	7.496	7.496	(0.932)	522278	50.0000	53.921
58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	530431	50.0000	48.970
59 Chlorobenzene	112	8.064	8.064	(1.003)	1663326	50.0000	48.537
60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	529530	50.0000	50.672
61 Ethylbenzene	106	8.158	8.158	(1.015)	927421	50.0000	49.102
62 m + p-Xylene	106	8.265	8.265	(1.028)	2294841	100.000	97.612
64 Xylene-o	106	8.655	8.655	(1.077)	1104386	50.0000	49.229
65 Styrene	104	8.655	8.655	(1.077)	1911790	50.0000	50.284
66 Bromoform	173	8.845	8.845	(1.100)	255218	50.0000	44.250
67 Isopropylbenzene	105	8.999	8.999	(1.119)	2958967	50.0000	50.166
68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	712114	50.0000	44.103
69 1,4-Dichloro-2-butene	53	9.318	9.318	(0.906)	183285	50.0000	39.927
70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	228492	50.0000	45.621
71 Bromobenzene	156	9.306	9.306	(0.905)	622692	50.0000	46.940
72 n-Propylbenzene	120	9.401	9.401	(0.914)	745259	50.0000	47.445
73 2-Chlorotoluene	126	9.496	9.496	(0.923)	622014	50.0000	46.273
74 1,3,5-Trimethylbenzene	105	9.567	9.567	(0.930)	2452953	50.0000	49.043
75 4-Chlorotoluene	126	9.590	9.590	(0.932)	673213	50.0000	46.986
76 tert-Butylbenzene	119	9.898	9.898	(0.962)	1944604	50.0000	46.795
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	2462251	50.0000	47.120
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	2992554	50.0000	48.464

79	4-Isopropyltoluene	119	10.253	10.253 (0.997)	2335710	50.0000	48.886
80	1,3-Dichlorobenzene	146	10.229	10.229 (0.994)	1174434	50.0000	45.248

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Report Date: 03-Aug-2010 21:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1231854	50.0000	46.613
82	n-Butylbenzene	91	10.655	10.655	(1.036)	2238080	50.0000	50.768
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	1113998	50.0000	47.542
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	55193	50.0000	48.457
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	349446	50.0000	45.386
86	Hexachlorobutadiene	225	12.466	12.466	(1.212)	138891	50.0000	51.531
87	Naphthalene	128	12.537	12.537	(1.219)	964547	50.0000	40.436
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	341402	50.0000	46.354
98	Cyclohexane	56	4.881	4.881	(0.912)	1183998	50.0000	49.976
143	Methyl Acetate	43	3.236	3.236	(0.604)	1376156	100.000	96.067
144	Methylcyclohexane	83	5.851	5.851	(1.093)	1080772	50.0000	49.879
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	353475	50.0000	43.565
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	104759	50.0000	47.184

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Report Date: 03-Aug-2010 21:30

TestAmerica North Canton

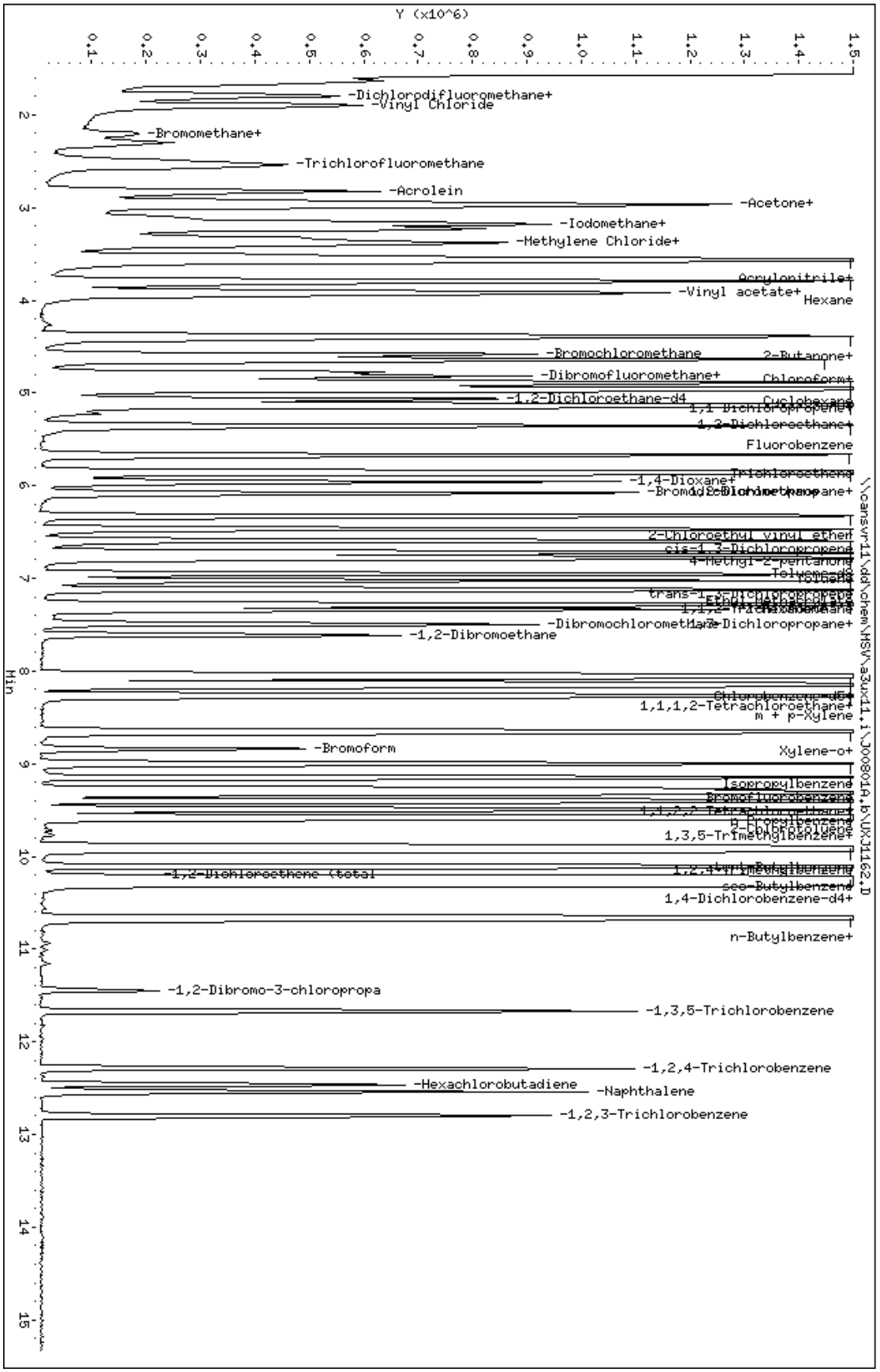
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Calibration Date: 01-AUG-2010
Lab File ID: UXJ1162.D
Calibration Time: 14:33
Lab Smp Id: 50NG-CC
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: WATER
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,2-8260.SUB,43582,2

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1645809	822905	3291618	1630492	-0.93
2 Chlorobenzene-d5	1134857	567429	2269714	1193156	5.14
3 1,4-Dichlorobenze	521065	260533	1042130	593165	13.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Methylene Chloride+
Acrylonitrile+
-Vinyl acetate+
Hexane
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane+
Chloroform+
-1,2-Dichloroethane-d4
1,1 Dichloropropene+
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene
-1,4-Dioxane+
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
trans-1,3-Dichloropropene
-Dibromochloromethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane+
n-Propylbenzene
2-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1162.D
Date : 01-AUG-2010 14:10
Client ID:
Sample Info: 50NG-CC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18

Report Date: 03-Aug-2010 09:16

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Start Cal Date: 17-JUN-2010 12:26
End Cal Date : 30-JUL-2010 17:12
Last Cal Level: 4
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
18-JUN-2010 03:08	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0110.D
30-JUL-2010 17:12	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1131.D
Cal Level: 2 , Cal Amount: 10.00000		
18-JUN-2010 02:46	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0109.D
30-JUL-2010 16:50	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1130.D
Cal Level: 3 , Cal Amount: 25.00000		
18-JUN-2010 02:23	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0108.D
30-JUL-2010 16:27	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1129.D
Cal Level: 4 , Cal Amount: 50.00000		
18-JUN-2010 02:01	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0107.D
30-JUL-2010 16:04	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1128.D
Cal Level: 5 , Cal Amount: 100.00000		
18-JUN-2010 01:38	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0106.D
30-JUL-2010 15:41	2-8260	\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1127.D
Cal Level: 6 , Cal Amount: 200.00000		
18-JUN-2010 01:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux11.i\J00618A-IC.b\UXJ0105.D
30-JUL-2010 15:19	2-8260	

\\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\UXJ1126.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

02-AUG-2010 22:18	2-8260	
\\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D		
02-AUG-2010 22:41	3-IX	
\\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1219.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Report Date: 03-Aug-2010 08:40

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 02-AUG-2010 22:18
Lab File ID: UXJ1218.D Init. Cal. Date(s): 17-JUN-2010 30-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:26 17:12
Lab Sample ID: 50NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.32874	0.29658	0.29658	0.010	9.78317	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.58693	0.54781	0.54781	0.010	6.66537	50.00000	Averaged	
$ 6 Toluene-d8	2.01570	1.73456	1.73456	0.010	13.94736	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.73104	0.66881	0.66881	0.010	8.51195	50.00000	Averaged	
8 Dichlorodifluoromethane	0.40682	0.33072	0.33072	0.010	18.70439	50.00000	Averaged	
9 Chloromethane	0.63112	0.59168	0.59168	0.100	6.24890	50.00000	Averaged	
10 Vinyl Chloride	0.55236	0.45414	0.45414	0.010	17.78290	20.00000	Averaged	
11 Bromomethane	50.00000	47.07323	0.09857	0.010	5.85355	0.000e+000	Wt Linear	
12 Chloroethane	0.18803	0.19180	0.19180	0.010	-2.00835	50.00000	Averaged	
13 Trichlorofluoromethane	50.00000	46.52315	0.33034	0.010	6.95371	0.000e+000	Wt Linear	
15 Acrolein	0.07031	0.05727	0.05727	0.010	18.54473	50.00000	Averaged	
16 Acetone	100	104	0.17243	0.010	-4.26336	0.000e+000	Wt Linear	
17 1,1-Dichloroethene	0.32318	0.28212	0.28212	0.010	12.70376	20.00000	Averaged	
18 Freon-113	0.14494	0.12406	0.12406	0.010	14.40785	50.00000	Averaged	
19 Iodomethane	0.30191	0.29575	0.29575	0.010	2.03960	50.00000	Averaged	
20 Carbon Disulfide	0.84034	0.78221	0.78221	0.010	6.91648	50.00000	Averaged	
21 Methylene Chloride	50.00000	48.28389	0.35539	0.010	3.43223	0.000e+000	Wt Linear	
22 Acetonitrile	0.06090	0.05785	0.05785	0.010	5.01085	50.00000	Averaged	
23 Acrylonitrile	0.19201	0.19591	0.19591	0.010	-2.03200	50.00000	Averaged	
24 Methyl tert-butyl ether	1.09647	1.18255	1.18255	0.010	-7.85083	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.37518	0.36758	0.36758	0.010	2.02544	50.00000	Averaged	
26 Hexane	0.10398	0.08548	0.08548	0.010	17.79703	20.00000	Averaged	
27 Vinyl acetate	0.86728	0.57507	0.57507	0.010	33.69343	50.00000	Averaged	
28 1,1-Dichloroethane	0.80696	0.83802	0.83802	0.100	-3.84848	50.00000	Averaged	
29 tert-Butyl Alcohol	0.02533	0.02536	0.02536	0.010	-0.12718	50.00000	Averaged	
30 2-Butanone	0.26760	0.25917	0.25917	0.010	3.15102	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.38727	0.38776	0.38776	0.010	-0.12618	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.39936	0.40794	0.40794	0.010	-2.14749	50.00000	Averaged	
33 2,2-Dichloropropane	0.29914	0.27159	0.27159	0.010	9.21032	50.00000	Averaged	
34 Bromochloromethane	0.16611	0.17434	0.17434	0.010	-4.95345	50.00000	Averaged	
35 Chloroform	0.70743	0.76279	0.76279	0.010	-7.82550	20.00000	Averaged	
36 Tetrahydrofuran	50.00000	52.40033	0.18467	0.010	-4.80065	0.000e+000	Wt Linear	
37 1,1,1-Trichloroethane	0.43351	0.45243	0.45243	0.010	-4.36575	50.00000	Averaged	
38 1,1-Dichloropropene	0.62406	0.58946	0.58946	0.010	5.54378	50.00000	Averaged	
39 Carbon Tetrachloride	0.37452	0.37450	0.37450	0.010	0.00698	50.00000	Averaged	
40 1,2-Dichloroethane	0.68175	0.75115	0.75115	0.010	-10.17925	50.00000	Averaged	
41 Benzene	1.78880	1.75810	1.75810	0.010	1.71618	50.00000	Averaged	
42 Trichloroethene	0.34708	0.35158	0.35158	0.010	-1.29523	50.00000	Averaged	
43 1,2-Dichloropropane	0.47298	0.48639	0.48639	0.010	-2.83518	20.00000	Averaged	
44 1,4-Dioxane	0.00308	0.00281	0.00281	0.010	9.05204	50.00000	Averaged	<-
45 Dibromomethane	0.23236	0.25817	0.25817	0.010	-11.10990	50.00000	Averaged	
46 Bromodichloromethane	0.48408	0.52962	0.52962	0.010	-9.40721	50.00000	Averaged	
47 2-Chloroethyl vinyl ether	0.30987	0.32707	0.32707	0.010	-5.55051	50.00000	Averaged	

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Report Date: 03-Aug-2010 08:40

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 02-AUG-2010 22:18
Lab File ID: UXJ1218.D Init. Cal. Date(s): 17-JUN-2010 30-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:26 17:12
Lab Sample ID: 50NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 cis-1,3-Dichloropropene	0.62685	0.64528	0.64528	0.010	-2.94025	50.00000	Averaged
49 4-Methyl-2-pentanone	0.46951	0.51221	0.51221	0.010	-9.09666	50.00000	Averaged
50 Toluene	2.46480	2.38791	2.38791	0.010	3.11957	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.80703	0.79888	0.79888	0.010	1.01028	50.00000	Averaged
52 Ethyl Methacrylate	0.77222	0.81876	0.81876	0.010	-6.02720	50.00000	Averaged
53 1,1,2-Trichloroethane	0.47982	0.48918	0.48918	0.010	-1.94968	50.00000	Averaged
54 1,3-Dichloropropane	1.00559	1.00350	1.00350	0.010	0.20801	50.00000	Averaged
55 Tetrachloroethene	0.38223	0.34821	0.34821	0.010	8.89839	50.00000	Averaged
56 2-Hexanone	0.44341	0.47369	0.47369	0.010	-6.83038	50.00000	Averaged
57 Dibromochloromethane	0.40590	0.40941	0.40941	0.010	-0.86538	50.00000	Averaged
58 1,2-Dibromoethane	0.45391	0.47276	0.47276	0.010	-4.15282	50.00000	Averaged
59 Chlorobenzene	1.43607	1.36330	1.36330	0.300	5.06716	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.43792	0.45282	0.45282	0.010	-3.40337	50.00000	Averaged
61 Ethylbenzene	0.79150	0.75605	0.75605	0.010	4.47911	20.00000	Averaged
62 m + p-Xylene	0.98519	0.93647	0.93647	0.010	4.94488	50.00000	Averaged
M 63 Xylenes (total)	0.97016	0.92330	0.92330	0.010	4.83015	50.00000	Averaged
64 Xylene-o	0.94009	0.89695	0.89695	0.010	4.58968	50.00000	Averaged
65 Styrene	1.59324	1.58855	1.58855	0.010	0.29419	50.00000	Averaged
66 Bromoform	50.00000	39.01630	0.18682	0.100	21.96741	0.000e+000	Wt Linear
67 Isopropylbenzene	2.47176	2.33856	2.33856	0.010	5.38876	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	1.36105	1.30255	1.30255	0.300	4.29789	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.38695	0.20613	0.20613	0.010	46.72885	50.00000	Averaged
70 1,2,3-Trichloropropane	0.42218	0.41191	0.41191	0.010	2.43162	50.00000	Averaged
71 Bromobenzene	1.11822	1.04109	1.04109	0.010	6.89770	50.00000	Averaged
72 n-Propylbenzene	1.32407	1.19219	1.19219	0.010	9.96027	50.00000	Averaged
73 2-Chlorotoluene	1.13309	1.03441	1.03441	0.010	8.70900	50.00000	Averaged
74 1,3,5-Trimethylbenzene	4.21607	3.93031	3.93031	0.010	6.77807	50.00000	Averaged
75 4-Chlorotoluene	1.20777	1.08514	1.08514	0.010	10.15357	50.00000	Averaged
76 tert-Butylbenzene	3.50285	3.09439	3.09439	0.010	11.66078	50.00000	Averaged
77 1,2,4-Trimethylbenzene	4.40478	4.02284	4.02284	0.010	8.67106	50.00000	Averaged
78 sec-Butylbenzene	5.20495	4.48971	4.48971	0.010	13.74147	50.00000	Averaged
79 4-Isopropyltoluene	4.02746	3.66469	3.66469	0.010	9.00757	50.00000	Averaged
80 1,3-Dichlorobenzene	2.18789	2.00136	2.00136	0.010	8.52584	50.00000	Averaged
81 1,4-Dichlorobenzene	2.22766	2.01377	2.01377	0.010	9.60186	50.00000	Averaged
82 n-Butylbenzene	3.71606	3.49415	3.49415	0.010	5.97155	50.00000	Averaged
83 1,2-Dichlorobenzene	1.97516	1.94243	1.94243	0.010	1.65677	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.09601	0.11437	0.11437	0.010	-19.12016	50.00000	Averaged
85 1,2,4-Trichlorobenzene	0.64900	0.53994	0.53994	0.010	16.80482	50.00000	Averaged
86 Hexachlorobutadiene	0.22720	0.19079	0.19079	0.010	16.02364	50.00000	Averaged
87 Naphthalene	50.00000	39.77032	1.59767	0.010	20.45936	0.000e+000	Wt Linear
88 1,2,3-Trichlorobenzene	0.62083	0.55163	0.55163	0.010	11.14622	50.00000	Averaged
98 Cyclohexane	0.72652	0.61807	0.61807	0.010	14.92702	50.00000	Averaged
143 Methyl Acetate	0.43928	0.46770	0.46770	0.010	-6.46990	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Report Date: 03-Aug-2010 08:40

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux11.i Injection Date: 02-AUG-2010 22:18
Lab File ID: UXJ1218.D Init. Cal. Date(s): 17-JUN-2010 30-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:26 17:12
Lab Sample ID: 50NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methylcyclohexane	0.66446	0.54648	0.54648	0.010	17.75613	50.00000	Averaged
141 1,3,5-Trichlorobenzene	0.68394	0.67992	0.67992	0.010	0.58741	50.00000	Averaged
150 Vinyl Acetate-86	0.06808	0.04570	0.04570	0.010	32.87726	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Report Date: 03-Aug-2010 08:40

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Lab Smp Id: 50NG-CC
Inj Date : 02-AUG-2010 22:18
Operator : 43582 Inst ID: a3ux11.i
Smp Info : 50NG-CC
Misc Info : J00802B,8260LLUX11,2-8260.SUB,43582,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Meth Date : 03-Aug-2010 08:40 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1338892	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	992965	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	498138	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	397089	50.0000	45.108
$ 5 1,2-Dichloroethane-d4	65	5.070	5.070	(0.947)	733456	50.0000	46.667
$ 6 Toluene-d8	98	6.726	6.726	(0.837)	1722362	50.0000	43.026
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	664105	50.0000	45.744
8 Dichlorodifluoromethane	85	1.650	1.650	(0.308)	442804	50.0000	40.648
9 Chloromethane	50	1.804	1.804	(0.337)	792196	50.0000	46.876
10 Vinyl Chloride	62	1.899	1.899	(0.355)	608038	50.0000	41.108
11 Bromomethane	94	2.194	2.194	(0.410)	131969	50.0000	47.073
12 Chloroethane	64	2.301	2.301	(0.430)	256806	50.0000	51.004
13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	442296	50.0000	46.523
15 Acrolein	56	2.822	2.822	(0.527)	766776	500.000	407.28
16 Acetone	43	2.952	2.952	(0.551)	461721	100.000	104.26
17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	377733	50.0000	43.648
18 Freon-113	151	2.975	2.975	(0.556)	166100	50.0000	42.796
19 Iodomethane	142	3.106	3.106	(0.580)	395984	50.0000	48.980
20 Carbon Disulfide	76	3.165	3.165	(0.591)	1047300	50.0000	46.542

21 Methylene Chloride	84	3.354	3.354 (0.627)	475828	50.0000	48.284
22 Acetonitrile	41	3.177	3.177 (0.593)	774580	500.000	474.94
23 Acrylonitrile	53	3.508	3.508 (0.655)	524601	100.000	102.03

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Report Date: 03-Aug-2010 08:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
24 Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1583308	50.0000	53.925
25 trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	492145	50.0000	48.987
26 Hexane	86	3.792	3.792	(0.708)	114444	50.0000	41.101
27 Vinyl acetate	43	3.934	3.934	(0.735)	769950	50.0000	33.153
28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	1122015	50.0000	51.924
29 tert-Butyl Alcohol	59	3.401	3.401	(0.635)	679205	1000.00	1001.3
30 2-Butanone	43	4.384	4.384	(0.819)	693997	100.000	96.849
32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	546184	50.0000	51.074
33 2,2-Dichloropropane	77	4.395	4.395	(0.821)	363625	50.0000	45.395
34 Bromochloromethane	128	4.585	4.585	(0.856)	233423	50.0000	52.477
35 Chloroform	83	4.644	4.644	(0.867)	1021298	50.0000	53.913
36 Tetrahydrofuran	42	4.632	4.632	(0.865)	247251	50.0000	52.400
37 1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	605756	50.0000	52.183
38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	789223	50.0000	47.228
39 Carbon Tetrachloride	117	4.963	4.963	(0.927)	501409	50.0000	49.996
40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	1005705	50.0000	55.090
41 Benzene	78	5.129	5.129	(0.958)	2353910	50.0000	49.142
42 Trichloroethene	130	5.662	5.662	(1.057)	470723	50.0000	50.648
43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	651218	50.0000	51.418
44 1,4-Dioxane	88	5.957	5.957	(1.113)	187814	2500.00	2273.7
45 Dibromomethane	93	5.957	5.957	(1.113)	345667	50.0000	55.555
46 Bromodichloromethane	83	6.076	6.076	(1.135)	709098	50.0000	54.704
47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	875821	100.000	105.55
48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	863961	50.0000	51.470
49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1371600	100.000	109.10
50 Toluene	91	6.786	6.786	(0.844)	2371113	50.0000	48.440
51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	793258	50.0000	49.495
52 Ethyl Methacrylate	69	7.022	7.022	(0.873)	813002	50.0000	53.014
53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	485735	50.0000	50.975
54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	996440	50.0000	49.896
55 Tetrachloroethene	164	7.283	7.283	(0.906)	345765	50.0000	45.551
56 2-Hexanone	43	7.342	7.342	(0.913)	940725	100.000	106.83
57 Dibromochloromethane	129	7.496	7.496	(0.932)	406530	50.0000	50.433
58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	469436	50.0000	52.076
59 Chlorobenzene	112	8.064	8.064	(1.003)	1353711	50.0000	47.466
60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	449635	50.0000	51.702
61 Ethylbenzene	106	8.158	8.158	(1.015)	750728	50.0000	47.760
62 m + p-Xylene	106	8.277	8.277	(1.029)	1859773	100.000	95.055
64 Xylene-o	106	8.655	8.655	(1.077)	890637	50.0000	47.705
65 Styrene	104	8.655	8.655	(1.077)	1577378	50.0000	49.853
66 Bromoform	173	8.845	8.845	(1.100)	185508	50.0000	39.016
67 Isopropylbenzene	105	8.998	8.998	(1.119)	2322113	50.0000	47.306
68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	648850	50.0000	47.851
69 1,4-Dichloro-2-butene	53	9.318	9.318	(0.906)	102682	50.0000	26.636
70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	205190	50.0000	48.784
71 Bromobenzene	156	9.306	9.306	(0.905)	518604	50.0000	46.551
72 n-Propylbenzene	120	9.401	9.401	(0.914)	593876	50.0000	45.020
73 2-Chlorotoluene	126	9.495	9.495	(0.923)	515280	50.0000	45.646
74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	1957835	50.0000	46.611
75 4-Chlorotoluene	126	9.590	9.590	(0.932)	540547	50.0000	44.923
76 tert-Butylbenzene	119	9.898	9.898	(0.962)	1541435	50.0000	44.170
77 1,2,4-Trimethylbenzene	105	9.933	9.933	(0.965)	2003929	50.0000	45.664

78	sec-Butylbenzene	105	10.111	10.111 (0.983)	2236497	50.0000	43.129
79	4-Isopropyltoluene	119	10.253	10.253 (0.997)	1825519	50.0000	45.496

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Report Date: 03-Aug-2010 08:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	996952	50.0000	45.737
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1003133	50.0000	45.199
82	n-Butylbenzene	91	10.655	10.655	(1.036)	1740570	50.0000	47.014
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	967599	50.0000	49.172
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	56971	50.0000	59.560
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	268965	50.0000	41.598
86	Hexachlorobutadiene	225	12.465	12.465	(1.212)	95040	50.0000	41.988
87	Naphthalene	128	12.536	12.536	(1.219)	795860	50.0000	39.770
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	274790	50.0000	44.427
98	Cyclohexane	56	4.881	4.881	(0.912)	827527	50.0000	42.536
143	Methyl Acetate	43	3.224	3.224	(0.602)	1252410	100.000	106.47
144	Methylcyclohexane	83	5.851	5.851	(1.093)	731677	50.0000	41.122
141	1,3,5-Trichlorobenzene	180	11.673	11.673	(1.135)	338694	50.0000	49.706
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	61187	50.0000	33.561

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Report Date: 03-Aug-2010 08:40

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

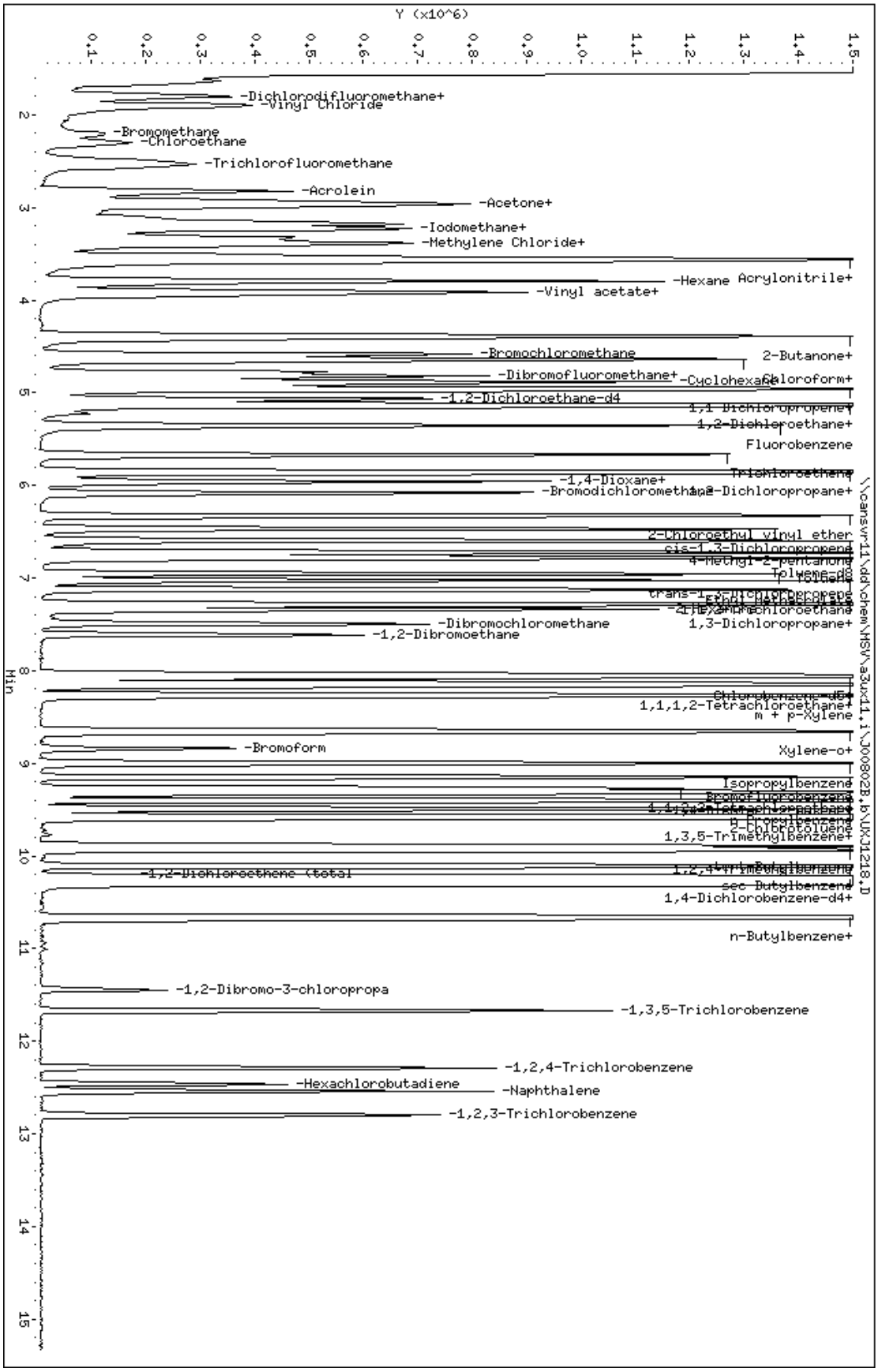
Instrument ID: a3ux11.i
Lab File ID: UXJ1218.D
Lab Smp Id: 50NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Misc Info: J00802B,8260LLUX11,2-8260.SUB,43582,2

Calibration Date: 02-AUG-2010
Calibration Time: 22:41
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1373180	686590	2746360	1338892	-2.50
2 Chlorobenzene-d5	960091	480046	1920182	992965	3.42
3 1,4-Dichlorobenze	434360	217180	868720	498138	14.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-Acetone+
-Iodomethane+
-Methylene Chloride+
-Hexane Acrylonitrile+
-Vinyl acetate+
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane+
-Cyclohexane
Chloroform+
-1,2-Dichloroethane-d4
1,1-Dichloropropene+
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene
-1,4-Dioxane+
-Bromodichloromethane
1,2-Dichloropropane+
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene-d8
trans-1,3-Dichloropropene
Ethyl Methacrylate
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
Isopropylbenzene
Bromofluorobenzene
4-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1218.D
Date : 02-AUG-2010 22:18
Client ID:
Sample Info: 50NG-CC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18

Report Date: 20-Jul-2010 09:01

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Start Cal Date: 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
20-JUL-2010 01:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141264.D
19-JUL-2010 22:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141255.D
19-JUL-2010 19:12	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141247.D
Cal Level: 2 , Cal Amount: 10.00000		
20-JUL-2010 00:54	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141263.D
19-JUL-2010 21:42	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141254.D
19-JUL-2010 18:50	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141246.D
Cal Level: 3 , Cal Amount: 25.00000		
20-JUL-2010 00:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141262.D
19-JUL-2010 21:20	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141253.D
19-JUL-2010 18:29	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141245.D
Cal Level: 4 , Cal Amount: 50.00000		
20-JUL-2010 00:12	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141261.D
19-JUL-2010 20:59	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141252.D
19-JUL-2010 18:07	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Cal Level: 5 , Cal Amount: 100.00000		
19-JUL-2010 23:50	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141260.D
19-JUL-2010 20:37	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141251.D

19-JUL-2010 17:46	1-8260	
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Cal Level: 6 , Cal Amount: 250.00000		
19-JUL-2010 23:29	3-IX	
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19-JUL-2010 20:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141250.D		
19-JUL-2010 17:25	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141242.D		

Cal Level: 7 , Cal Amount: 500.00000		
19-JUL-2010 23:07	3-IX	
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19-JUL-2010 19:54	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141249.D		
19-JUL-2010 17:03	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D		

Cal Level: 8 , Cal Amount: 1000.00000		
19-JUL-2010 22:46	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141257.D		
19-JUL-2010 19:33	BROMO	
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19-JUL-2010 16:42	1-8260	
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Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

19-JUL-2010 17:25	1-8260	
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19-JUL-2010 23:29	3-IX	
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19-JUL-2010 20:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141250.D		

Report Date : 20-Jul-2010 09:00

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141264.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141263.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141262.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141261.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141260.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141259.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141258.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141257.D

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
8 Dichlorodifluoromethane	0.23315	0.19821	0.27816	0.24747	0.24518	0.24586					
	0.23915	0.23968					AVRG		0.24086		9.09807
9 Chloromethane	0.59194	0.59183	0.60409	0.58006	0.55178	0.54855					
	0.54473	0.53011					AVRG		0.56789		4.80249
10 Vinyl Chloride	0.32111	0.33806	0.38970	0.34844	0.34433	0.33857					
	0.33161	0.33066					AVRG		0.34281		6.05653

Report Date : 20-Jul-2010 09:00

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
11 Bromomethane	0.15517	0.15710	0.16449	0.14419	0.14884	0.14574					
	0.14026	0.12304					AVRG		0.14735		8.52990
12 Chloroethane	0.16068	0.17088	0.19096	0.18718	0.17194	0.17122					
	0.16017	0.13461					AVRG		0.16845		10.42152
13 Trichlorofluoromethane	0.26458	0.25284	0.35379	0.34816	0.33523	0.34425					
	0.33975	0.34155					AVRG		0.32252		12.36899
14 Dichlorofluoromethane	0.35764	0.34950	0.38364	0.36795	0.37335	0.34816					
	0.34472	0.32859					AVRG		0.35669		4.95724
15 Acrolein	0.05098	0.05374	0.05419	0.05194	0.05392	0.05171					
	0.05578	0.04954					AVRG		0.05272		3.84462
16 Acetone	58992	80079	146877	208495	294197	361573					
	695589	1299799					QUAD	-0.08278	8.03830	1.28764	0.99981
17 1,1-Dichloroethene	0.22505	0.22760	0.27230	0.24912	0.25389	0.25374					
	0.24473	0.23778					AVRG		0.24553		6.28820

Report Date : 20-Jul-2010 09:00

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
18 Freon-113	0.21793	0.21006	0.30243	0.26472	0.26957	0.26863					
	0.26281	0.25692					AVRG		0.25663		11.57677
19 Iodomethane	0.51151	0.50674	0.57429	0.51853	0.52403	0.52302					
	0.50995	0.49856					AVRG		0.52083		4.46041
20 Carbon Disulfide	0.46025	0.47980	0.59249	0.56329	0.58872	0.60715					
	0.59770	0.60550					AVRG		0.56186		10.41264
21 Methylene Chloride	68027	169167	327357	466747	605252	753272					
	1461051	2844381					QUAD	-0.05504	3.88107	0.27317	0.99981
22 Acetonitrile	+++++	0.04988	0.04814	0.04380	0.04383	0.04092					
	0.03873	0.03814					AVRG		0.04335		10.33591
23 Acrylonitrile	0.15106	0.14481	0.15226	0.13020	0.14707	0.14021					
	0.14248	0.13870					AVRG		0.14335		5.00294
24 Methyl tert-butyl ether	0.60530	0.55044	0.60154	0.56061	0.58802	0.58820					
	0.58695	0.58426					AVRG		0.58317		3.22237

Report Date : 20-Jul-2010 09:00

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
25 trans-1,2-Dichloroethene	0.26050	0.26084	0.29960	0.27719	0.27859	0.28272					
	0.27524	0.27028					AVRG		0.27562		4.57404
26 Hexane	0.05928	0.05094	0.06478	0.05419	0.05814	0.05807					
	0.05722	0.05681					AVRG		0.05743		6.94796
27 Vinyl acetate	+++++	+++++	0.49290	0.50135	0.53356	0.58073					
	0.63192	0.66188					AVRG		0.56706		12.29985
154 Vinyl Acetate**2nd**	+++++	0.02762	0.02951	0.02948	0.02995	0.03370					
	0.03560	0.03705					AVRG		0.03184		11.26413
28 1,1-Dichloroethane	0.56577	0.53184	0.59029	0.54684	0.56659	0.57591					
	0.57020	0.56741					AVRG		0.56436		3.15594
29 tert-Butyl Alcohol	0.02885	0.02322	0.02390	0.02195	0.02443	0.02508					
	0.02402	0.02337					AVRG		0.02435		8.36920
30 2-Butanone	0.17815	0.14967	0.15874	0.15609	0.16688	0.16000					
	0.16168	0.16050					AVRG		0.16146		5.16164

Report Date : 20-Jul-2010 09:00

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

	5.0000	10.0000	25.0000	50.0000	100.0000	250.0000		Coefficients			%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Curve	b	m1	m2	or R^2
	500.0000	1000.0000									
	Level 7	Level 8									
M 31 1,2-Dichloroethene (total)	0.27418	0.26817	0.30020	0.28151	0.28484	0.28692					
	0.28050	0.27528					AVRG		0.28145		3.45336
32 cis-1,2-dichloroethene	0.28786	0.27550	0.30080	0.28583	0.29109	0.29112					
	0.28576	0.28028					AVRG		0.28728		2.64655
33 2,2-Dichloropropane	0.13084	0.14083	0.18298	0.15486	0.16628	0.17398					
	0.16511	0.16482					AVRG		0.15996		10.71523
34 Bromochloromethane	0.19613	0.16973	0.18023	0.16871	0.17813	0.17360					
	0.17243	0.16891					AVRG		0.17598		5.21044
35 Chloroform	0.45684	0.43380	0.45875	0.42558	0.43712	0.44394					
	0.44485	0.44108					AVRG		0.44274		2.51769
36 Tetrahydrofuran	+++++	+++++	0.13782	0.11353	0.11636	0.10947					
	0.11121	0.10536					AVRG		0.11562		9.93831
37 1,1,1-Trichloroethane	0.27826	0.28168	0.36957	0.33966	0.36882	0.37621					
	0.37469	0.37909					AVRG		0.34600		12.29786

Report Date : 20-Jul-2010 09:00

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
38 1,1-Dichloropropene	0.28377	0.27485	0.34491	0.32198	0.33017	0.33771						
	0.33298	0.33077					AVRG		0.31964		8.08513	
39 Carbon Tetrachloride	+++++	0.29430	0.41791	0.37004	0.39559	0.41868						
	0.41117	0.42086					AVRG		0.38979		11.75199	
40 1,2-Dichloroethane	0.44843	0.39929	0.44780	0.40198	0.41982	0.41764						
	0.41630	0.41147					AVRG		0.42034		4.42869	
41 Benzene	0.90683	0.86532	0.98997	0.88782	0.91514	0.92436						
	0.90810	0.90185					AVRG		0.91242		3.96233	
42 Trichloroethene	0.37048	0.35825	0.37605	0.34869	0.35160	0.36299						
	0.36063	0.35951					AVRG		0.36103		2.49990	
43 1,2-Dichloropropane	0.25890	0.27446	0.28967	0.26805	0.28354	0.28959						
	0.28928	0.28733					AVRG		0.28010		4.17331	
44 1,4-Dioxane	0.00206	0.00175	0.00205	0.00183	0.00193	0.00193						
	0.00187	0.00189					AVRG		0.00191		5.37738	<-

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
45 Dibromomethane	0.14724	0.13260	0.13809	0.13327	0.13768	0.13804					
	0.13831	0.13535					AVRG		0.13757		3.28221
46 Bromodichloromethane	0.23112	0.22245	0.26083	0.25384	0.27331	0.29214					
	0.30100	0.30329					AVRG		0.26725		11.51338
47 2-Chloroethyl vinyl ether	0.09801	0.08803	0.10446	0.10110	0.11440	0.12182					
	0.12760	0.13049					AVRG		0.11074		13.74086
48 cis-1,3-Dichloropropene	+++++	+++++	0.24574	0.23543	0.26668	0.30091					
	0.31758	0.32554					AVRG		0.28198		13.49220
49 4-Methyl-2-pentanone	0.40108	0.35922	0.39870	0.42052	0.44662	0.42138					
	0.41380	0.40516					AVRG		0.40831		6.12783
50 Toluene	1.56542	1.42438	1.39207	1.27191	1.31321	1.30331					
	1.23242	1.23237					AVRG		1.34189		8.47212
51 trans-1,3-Dichloropropene	5233	7901	24717	50568	118775	349405					
	768987	1604795					WLINR	0.01539	0.32994		0.99662

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Last Edit : 20-Jul-2010 08:50 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
52 Ethyl Methacrylate	0.22549	0.20091	0.22429	0.22104	0.25136	0.26217					
	0.26308	0.25728					AVRG		0.23820		9.74417
53 1,1,2-Trichloroethane	0.23571	0.21072	0.22499	0.21774	0.22830	0.22672					
	0.21401	0.21155					AVRG		0.22122		4.08840
54 1,3-Dichloropropane	0.38464	0.33508	0.36376	0.33495	0.35750	0.35705					
	0.33739	0.33128					AVRG		0.35021		5.34535
55 Tetrachloroethene	0.36201	0.34858	0.37666	0.34737	0.35425	0.36302					
	0.34468	0.33854					AVRG		0.35439		3.46781
56 2-Hexanone	0.23480	0.21445	0.23326	0.24252	0.25765	0.24154					
	0.24090	0.23465					AVRG		0.23747		5.09319
57 Dibromochloromethane	0.25126	0.26308	0.29712	0.29280	0.32981	0.35582					
	0.35352	0.36069					AVRG		0.31301		13.76603
58 1,2-Dibromoethane	0.24312	0.21481	0.23563	0.21969	0.24222	0.24609					
	0.23982	0.23566					AVRG		0.23463		4.84846

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	Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
		500.0000 Level 7	1000.0000 Level 8									
	59 Chlorobenzene	0.98070	0.95290	1.00607	0.91145	0.94254	0.95467					
		0.92668	0.92152					AVRG		0.94957		3.33302
	60 1,1,1,2-Tetrachloroethane	0.35109	0.32822	0.38812	0.37550	0.40686	0.42234					
		0.41278	0.41117					AVRG		0.38701		8.60832
	61 Ethylbenzene	0.46319	0.45561	0.51272	0.47693	0.49763	0.51140					
		0.48217	0.48100					AVRG		0.48508		4.30536
	62 m + p-Xylene	0.58146	0.55696	0.61456	0.58006	0.59721	0.61668					
		0.58388	0.58190					AVRG		0.58909		3.35016
M	63 Xylenes (total)	0.57624	0.55853	0.62531	0.58917	0.60648	0.61950					
		0.58511	0.57971					AVRG		0.59251		3.85329
	64 Xylene-o	0.56580	0.56166	0.64680	0.60739	0.62502	0.62516					
		0.58755	0.57533					AVRG		0.59934		5.23970
	65 Styrene	0.80110	0.78379	0.86467	0.85451	0.91558	0.94154					
		0.92081	0.91841					AVRG		0.87505		6.74211

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
66 Bromoform	+++++	+++++	0.16260	0.15716	0.18233	0.20113					
	0.21133	0.21855					AVRG		0.18885		13.54980
67 Isopropylbenzene	1.38439	1.41802	1.69445	1.61937	1.69976	1.72605					
	1.63823	1.63301					AVRG		1.60166		8.08126
68 1,1,2,2-Tetrachloroethane	0.38911	0.44659	0.41869	0.41589	0.44971	0.45535					
	0.44426	0.42313					AVRG		0.43034		5.23696
69 1,4-Dichloro-2-butene	0.20271	0.15378	0.19029	0.17349	0.18937	0.19659					
	0.20105	0.20170					AVRG		0.18862		9.03758
70 1,2,3-Trichloropropane	+++++	0.16372	0.18962	0.15802	0.18019	0.17845					
	0.17435	0.16359					AVRG		0.17256		6.50995
71 Bromobenzene	0.71282	0.75265	0.78339	0.71604	0.72535	0.76238					
	0.76012	0.74497					AVRG		0.74471		3.33687
72 n-Propylbenzene	0.66863	0.70088	0.84561	0.75969	0.83070	0.88399					
	0.84841	0.82779					AVRG		0.79571		9.70621

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
73 2-Chlorotoluene	0.72897	0.73500	0.78837	0.71965	0.75243	0.80976					
	0.77344	0.75069					AVRG		0.75729		4.10464
74 1,3,5-Trimethylbenzene	1.81365	1.95990	2.36277	2.18879	2.38314	2.56009					
	2.43274	2.39430					AVRG		2.26192		11.30822
75 4-Chlorotoluene	0.72579	0.68421	0.75612	0.69792	0.72618	0.76002					
	0.73516	0.72978					AVRG		0.72690		3.56142
76 tert-Butylbenzene	1.91027	1.97350	2.47601	2.26934	2.51839	2.55399					
	2.54532	2.48059					AVRG		2.34093		11.20964
77 1,2,4-Trimethylbenzene	1.94211	2.02123	2.33818	2.22024	2.37374	2.51499					
	2.43264	2.39540					AVRG		2.27982		8.90804
78 sec-Butylbenzene	2.37215	2.41652	3.07811	2.80240	3.08376	3.30835					
	3.14899	3.09837					AVRG		2.91358		11.98832
79 4-Isopropyltoluene	2.07811	2.13707	2.78137	2.50538	2.79512	2.97007					
	2.84386	2.82156					AVRG		2.61657		12.99983

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
80 1,3-Dichlorobenzene	1.58796	1.47251	1.58733	1.43374	1.45629	1.50198					
	1.46479	1.46470					AVRG		1.49616		3.97761
81 1,4-Dichlorobenzene	1.69677	1.53922	1.63085	1.44605	1.47184	1.49429					
	1.45937	1.46835					AVRG		1.52584		5.98740
82 n-Butylbenzene	1.59611	1.52460	1.98988	1.80309	1.96416	2.07323					
	1.96041	1.93573					AVRG		1.85590		10.66497
83 1,2-Dichlorobenzene	1.49911	1.46268	1.54305	1.42464	1.48372	1.50382					
	1.43520	1.41232					AVRG		1.47057		3.05876
84 1,2-Dibromo-3-chloropropane	+++++	+++++	0.10257	0.11014	0.12937	0.13354					
	0.13930	0.14156					AVRG		0.12608		12.72711
85 1,2,4-Trichlorobenzene	1.06969	1.01067	1.05732	1.02241	1.05738	1.11571					
	1.06330	1.03629					AVRG		1.05410		3.07447
86 Hexachlorobutadiene	0.57760	0.52973	0.68381	0.56917	0.62803	0.65959					
	0.59291	0.56792					AVRG		0.60109		8.62644

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
87 Naphthalene	2.28330	1.89339	2.25876	2.13091	2.40273	2.48779					
	2.45777	2.34645					AVRG		2.28264		8.54566
88 1,2,3-Trichlorobenzene	1.15078	0.95304	1.09447	0.97895	1.04366	1.05573					
	1.00291	0.97159					AVRG		1.03139		6.58098
89 Ethyl Ether	0.31675	0.29494	0.29736	0.29631	0.28650	0.27488					
	0.27788	0.24867					AVRG		0.28666		7.02730
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
91 3-Chloropropene	2024	3854	10554	24575	52474	150760					
	315856	668845					WLINR	0.01571	0.10620		0.99694
92 Isopropyl Ether	0.20983	0.20500	0.23067	0.23075	0.23399	0.22609					
	0.22874	0.21127					AVRG		0.22204		5.13464
93 2-Chloro-1,3-butadiene	+++++	+++++	0.54241	0.55629	0.59623	0.62673					
	0.65551	0.65077					AVRG		0.60466		7.92617

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
94 Propionitrile	0.05084	0.04281	0.04822	0.04876	0.05085	0.04798								
	0.05019	0.04411							AVRG		0.04797		6.28920	
95 Ethyl Acetate	0.31628	0.30157	0.29140	0.31262	0.30533	0.29715								
	0.31220	0.29843							AVRG		0.30437		2.87405	
96 Methacrylonitrile	0.06059	0.06362	0.06727	0.07198	0.07704	0.07504								
	0.07761	0.07202							AVRG		0.07065		8.85851	
97 Isobutanol	0.00723	0.00614	0.00589	0.00742	0.00791	0.00784								
	0.00894	0.00804							AVRG		0.00743		13.61331	<-
98 Cyclohexane	0.58339	0.57221	0.82374	0.74896	0.78097	0.77994								
	0.76121	0.75613							AVRG		0.72582		12.98213	
99 n-Butanol	0.00581	0.00540	0.00556	0.00635	0.00667	0.00671								
	0.00783	0.00752							AVRG		0.00648		13.65066	<-
100 Methyl Methacrylate	0.23508	0.18616	0.19359	0.22172	0.22995	0.23089								
	0.24837	0.26203							AVRG		0.22597		11.31526	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	500.0000 Level 7	1000.0000 Level 8										
101 2-Nitropropane	1843	4243	9031	15699	33673	83762						
	212285	558286					QUAD	0.04797	24.10319	-14.09204	0.99846	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
25 Cyclohexanone	0.02817	0.02426	0.02500	0.02676	0.03006	0.03012						
	0.03502	0.03040					AVRG		0.02873		12.07192	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

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	500.0000 Level 7	1000.0000 Level 8										
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
141 1,3,5-Trichlorobenzene	1.10969	1.10604	1.22497	1.12231	1.17723	1.24542						
	1.17622	1.15961					AVRG		1.16519		4.43908	
143 Methyl Acetate	0.40462	0.31345	0.32395	0.29955	0.32062	0.29957						
	0.29909	0.29392					AVRG		0.31935		11.33310	

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Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	500.0000 Level 7	1000.0000 Level 8	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
144 Methylcyclohexane	+++++	0.30496	0.48975	0.43808	0.44942	0.46461	0.45656	0.44266	AVRG		0.43515		13.76506	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
146 2-Methylnaphthalene	19003	43617	116777	285429	630151	1911151	3764640	7775687	WLINR	0.03302	1.37947		0.99652	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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	500.0000 Level 7	1000.0000 Level 8										
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
156 tert-Butyl Ethyl ether	0.81248	0.85102	0.95421	0.95263	0.99197	1.00542						
	1.04854	0.99441					AVRG		0.95134		8.44980	
157 tert-Amyl Methyl ether	0.41996	0.41204	0.46074	0.47813	0.48609	0.49645						
	0.52279	0.48740					AVRG		0.47045		8.05859	
158 1,2,3-Trimethylbenzene	1.91988	1.78920	2.15557	2.18782	2.28328	2.31251						
	2.41870	2.30871					AVRG		2.17196		9.87928	

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TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i

Compound	5.0000 Level 1	10.0000 Level 2	25.0000 Level 3	50.0000 Level 4	100.0000 Level 5	250.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	500.0000 Level 7	1000.0000 Level 8									
$ 4 Dibromofluoromethane	0.37243	0.34214	0.33964	0.30555	0.30050	0.30549					
	0.30479	0.30071					AVRG		0.32141		8.32565
$ 5 1,2-Dichloroethane-d4	+++++	0.40003	0.36362	0.32739	0.31352	0.30365					
	0.30856	0.30655					AVRG		0.33190		10.99530
$ 6 Toluene-d8	1.64166	1.60067	1.40193	1.28684	1.25246	1.30566					
	1.21685	1.20134					AVRG		1.36343		12.53491
$ 7 Bromofluorobenzene	+++++	0.90811	0.78739	0.70992	0.69739	0.75273					
	0.71950	0.70829					AVRG		0.75476		9.86921

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Last Edit : 20-Jul-2010 08:50 a3ux14.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 20-Jul-2010 08:50

TestAmerica North Canton

INITIAL CALIBRATION DATA

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Last Edit : 20-Jul-2010 08:50 a3ux14.i
Curve Type : Average

Calibration File Names:
Level 1: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141264.D
Level 2: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141263.D
Level 3: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141262.D
Level 4: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141261.D
Level 5: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141260.D
Level 6: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141259.D
Level 7: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141258.D
Level 8: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141257.D

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
8 Dichlorodifluoromethane	0.23315	0.19821	0.27816	0.24747	0.24518	0.24586		
	0.23915	0.23968					0.24086	9.098
9 Chloromethane	0.59194	0.59183	0.60409	0.58006	0.55178	0.54855		
	0.54473	0.53011					0.56789	4.802
10 Vinyl Chloride	0.32111	0.33806	0.38970	0.34844	0.34433	0.33857		
	0.33161	0.33066					0.34281	6.057
11 Bromomethane	0.15517	0.15710	0.16449	0.14419	0.14884	0.14574		
	0.14026	0.12304					0.14735	8.530
12 Chloroethane	0.16068	0.17088	0.19096	0.18718	0.17194	0.17122		
	0.16017	0.13461					0.16845	10.422
13 Trichlorofluoromethane	0.26458	0.25284	0.35379	0.34816	0.33523	0.34425		
	0.33975	0.34155					0.32252	12.369
14 Dichlorofluoromethane	0.35764	0.34950	0.38364	0.36795	0.37335	0.34816		
	0.34472	0.32859					0.35669	4.957
15 Acrolein	0.05098	0.05374	0.05419	0.05194	0.05392	0.05171		
	0.05578	0.04954					0.05272	3.845

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INITIAL CALIBRATION DATA

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Last Edit : 20-Jul-2010 08:50 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
16 Acetone	0.20583	0.14297	0.13197	0.12365	0.12980	0.12499		
	0.11811	0.11013					0.13593	21.970
17 1,1-Dichloroethene	0.22505	0.22760	0.27230	0.24912	0.25389	0.25374		
	0.24473	0.23778					0.24553	6.288
18 Freon-113	0.21793	0.21006	0.30243	0.26472	0.26957	0.26863		
	0.26281	0.25692					0.25663	11.577
19 Iodomethane	0.51151	0.50674	0.57429	0.51853	0.52403	0.52302		
	0.50995	0.49856					0.52083	4.460
20 Carbon Disulfide	0.46025	0.47980	0.59249	0.56329	0.58872	0.60715		
	0.59770	0.60550					0.56186	10.413
21 Methylene Chloride	0.46205	0.28971	0.28004	0.26157	0.25377	0.24906		
	0.24768	0.22943					0.28416	26.161
22 Acetonitrile	+++++	0.04988	0.04814	0.04380	0.04383	0.04092		
	0.03873	0.03814					0.04335	10.336
23 Acrylonitrile	0.15106	0.14481	0.15226	0.13020	0.14707	0.14021		
	0.14248	0.13870					0.14335	5.003
24 Methyl tert-butyl ether	0.60530	0.55044	0.60154	0.56061	0.58802	0.58820		
	0.58695	0.58426					0.58317	3.222
25 trans-1,2-Dichloroethene	0.26050	0.26084	0.29960	0.27719	0.27859	0.28272		
	0.27524	0.27028					0.27562	4.574
26 Hexane	0.05928	0.05094	0.06478	0.05419	0.05814	0.05807		
	0.05722	0.05681					0.05743	6.948

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Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD
27 Vinyl acetate	+++++	+++++	0.49290	0.50135	0.53356	0.58073	0.63192	0.66188	0.56706	12.300
154 Vinyl Acetate**2nd**	+++++	0.02762	0.02951	0.02948	0.02995	0.03370	0.03560	0.03705	0.03184	11.264
28 1,1-Dichloroethane	0.56577	0.53184	0.59029	0.54684	0.56659	0.57591	0.57020	0.56741	0.56436	3.156
29 tert-Butyl Alcohol	0.02885	0.02322	0.02390	0.02195	0.02443	0.02508	0.02402	0.02337	0.02435	8.369
30 2-Butanone	0.17815	0.14967	0.15874	0.15609	0.16688	0.16000	0.16168	0.16050	0.16146	5.162
M 31 1,2-Dichloroethene (total)	0.27418	0.26817	0.30020	0.28151	0.28484	0.28692	0.28050	0.27528	0.28145	3.453
32 cis-1,2-dichloroethene	0.28786	0.27550	0.30080	0.28583	0.29109	0.29112	0.28576	0.28028	0.28728	2.647
33 2,2-Dichloropropane	0.13084	0.14083	0.18298	0.15486	0.16628	0.17398	0.16511	0.16482	0.15996	10.715
34 Bromochloromethane	0.19613	0.16973	0.18023	0.16871	0.17813	0.17360	0.17243	0.16891	0.17598	5.210
35 Chloroform	0.45684	0.43380	0.45875	0.42558	0.43712	0.44394	0.44485	0.44108	0.44274	2.518
36 Tetrahydrofuran	+++++	+++++	0.13782	0.11353	0.11636	0.10947	0.11121	0.10536	0.11562	9.938

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
37 1,1,1-Trichloroethane	0.27826	0.28168	0.36957	0.33966	0.36882	0.37621			
	0.37469	0.37909					0.34600	12.298	
38 1,1-Dichloropropene	0.28377	0.27485	0.34491	0.32198	0.33017	0.33771			
	0.33298	0.33077					0.31964	8.085	
39 Carbon Tetrachloride	+++++	0.29430	0.41791	0.37004	0.39559	0.41868			
	0.41117	0.42086					0.38979	11.752	
40 1,2-Dichloroethane	0.44843	0.39929	0.44780	0.40198	0.41982	0.41764			
	0.41630	0.41147					0.42034	4.429	
41 Benzene	0.90683	0.86532	0.98997	0.88782	0.91514	0.92436			
	0.90810	0.90185					0.91242	3.962	
42 Trichloroethene	0.37048	0.35825	0.37605	0.34869	0.35160	0.36299			
	0.36063	0.35951					0.36103	2.500	
43 1,2-Dichloropropane	0.25890	0.27446	0.28967	0.26805	0.28354	0.28959			
	0.28928	0.28733					0.28010	4.173	
44 1,4-Dioxane	0.00206	0.00175	0.00205	0.00183	0.00193	0.00193			
	0.00187	0.00189					0.00191	5.377	<-
45 Dibromomethane	0.14724	0.13260	0.13809	0.13327	0.13768	0.13804			
	0.13831	0.13535					0.13757	3.282	
46 Bromodichloromethane	0.23112	0.22245	0.26083	0.25384	0.27331	0.29214			
	0.30100	0.30329					0.26725	11.513	
47 2-Chloroethyl vinyl ether	0.09801	0.08803	0.10446	0.10110	0.11440	0.12182			
	0.12760	0.13049					0.11074	13.741	

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Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
48 cis-1,3-Dichloropropene	+++++	+++++	0.24574	0.23543	0.26668	0.30091		
	0.31758	0.32554					0.28198	13.492
49 4-Methyl-2-pentanone	0.40108	0.35922	0.39870	0.42052	0.44662	0.42138		
	0.41380	0.40516					0.40831	6.128
50 Toluene	1.56542	1.42438	1.39207	1.27191	1.31321	1.30331		
	1.23242	1.23237					1.34189	8.472
51 trans-1,3-Dichloropropene	0.24210	0.18677	0.23414	0.24100	0.27906	0.31488		
	0.32504	0.33783					0.27010	19.571
52 Ethyl Methacrylate	0.22549	0.20091	0.22429	0.22104	0.25136	0.26217		
	0.26308	0.25728					0.23820	9.744
53 1,1,2-Trichloroethane	0.23571	0.21072	0.22499	0.21774	0.22830	0.22672		
	0.21401	0.21155					0.22122	4.088
54 1,3-Dichloropropane	0.38464	0.33508	0.36376	0.33495	0.35750	0.35705		
	0.33739	0.33128					0.35021	5.345
55 Tetrachloroethene	0.36201	0.34858	0.37666	0.34737	0.35425	0.36302		
	0.34468	0.33854					0.35439	3.468
56 2-Hexanone	0.23480	0.21445	0.23326	0.24252	0.25765	0.24154		
	0.24090	0.23465					0.23747	5.093
57 Dibromochloromethane	0.25126	0.26308	0.29712	0.29280	0.32981	0.35582		
	0.35352	0.36069					0.31301	13.766
58 1,2-Dibromoethane	0.24312	0.21481	0.23563	0.21969	0.24222	0.24609		
	0.23982	0.23566					0.23463	4.848

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	Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
		500.000 Level 7	1000.000 Level 8						
	59 Chlorobenzene	0.98070	0.95290	1.00607	0.91145	0.94254	0.95467		
		0.92668	0.92152					0.94957	3.333
	60 1,1,1,2-Tetrachloroethane	0.35109	0.32822	0.38812	0.37550	0.40686	0.42234		
		0.41278	0.41117					0.38701	8.608
	61 Ethylbenzene	0.46319	0.45561	0.51272	0.47693	0.49763	0.51140		
		0.48217	0.48100					0.48508	4.305
	62 m + p-Xylene	0.58146	0.55696	0.61456	0.58006	0.59721	0.61668		
		0.58388	0.58190					0.58909	3.350
M	63 Xylenes (total)	0.57624	0.55853	0.62531	0.58917	0.60648	0.61950		
		0.58511	0.57971					0.59251	3.853
	64 Xylene-o	0.56580	0.56166	0.64680	0.60739	0.62502	0.62516		
		0.58755	0.57533					0.59934	5.240
	65 Styrene	0.80110	0.78379	0.86467	0.85451	0.91558	0.94154		
		0.92081	0.91841					0.87505	6.742
	66 Bromoform	+++++	+++++	0.16260	0.15716	0.18233	0.20113		
		0.21133	0.21855					0.18885	13.550
	67 Isopropylbenzene	1.38439	1.41802	1.69445	1.61937	1.69976	1.72605		
		1.63823	1.63301					1.60166	8.081
	68 1,1,2,2-Tetrachloroethane	0.38911	0.44659	0.41869	0.41589	0.44971	0.45535		
		0.44426	0.42313					0.43034	5.237
	69 1,4-Dichloro-2-butene	0.20271	0.15378	0.19029	0.17349	0.18937	0.19659		
		0.20105	0.20170					0.18862	9.038

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	500.000 Level 7	1000.000 Level 8						
70 1,2,3-Trichloropropane	+++++	0.16372	0.18962	0.15802	0.18019	0.17845		
	0.17435	0.16359					0.17256	6.510
71 Bromobenzene	0.71282	0.75265	0.78339	0.71604	0.72535	0.76238		
	0.76012	0.74497					0.74471	3.337
72 n-Propylbenzene	0.66863	0.70088	0.84561	0.75969	0.83070	0.88399		
	0.84841	0.82779					0.79571	9.706
73 2-Chlorotoluene	0.72897	0.73500	0.78837	0.71965	0.75243	0.80976		
	0.77344	0.75069					0.75729	4.105
74 1,3,5-Trimethylbenzene	1.81365	1.95990	2.36277	2.18879	2.38314	2.56009		
	2.43274	2.39430					2.26192	11.308
75 4-Chlorotoluene	0.72579	0.68421	0.75612	0.69792	0.72618	0.76002		
	0.73516	0.72978					0.72690	3.561
76 tert-Butylbenzene	1.91027	1.97350	2.47601	2.26934	2.51839	2.55399		
	2.54532	2.48059					2.34093	11.210
77 1,2,4-Trimethylbenzene	1.94211	2.02123	2.33818	2.22024	2.37374	2.51499		
	2.43264	2.39540					2.27982	8.908
78 sec-Butylbenzene	2.37215	2.41652	3.07811	2.80240	3.08376	3.30835		
	3.14899	3.09837					2.91358	11.988
79 4-Isopropyltoluene	2.07811	2.13707	2.78137	2.50538	2.79512	2.97007		
	2.84386	2.82156					2.61657	13.000
80 1,3-Dichlorobenzene	1.58796	1.47251	1.58733	1.43374	1.45629	1.50198		
	1.46479	1.46470					1.49616	3.978

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	500.000 Level 7	1000.000 Level 8							
81 1,4-Dichlorobenzene	1.69677	1.53922	1.63085	1.44605	1.47184	1.49429			
	1.45937	1.46835					1.52584	5.987	
82 n-Butylbenzene	1.59611	1.52460	1.98988	1.80309	1.96416	2.07323			
	1.96041	1.93573					1.85590	10.665	
83 1,2-Dichlorobenzene	1.49911	1.46268	1.54305	1.42464	1.48372	1.50382			
	1.43520	1.41232					1.47057	3.059	
84 1,2-Dibromo-3-chloropropane	+++++	+++++	0.10257	0.11014	0.12937	0.13354			
	0.13930	0.14156					0.12608	12.727	
85 1,2,4-Trichlorobenzene	1.06969	1.01067	1.05732	1.02241	1.05738	1.11571			
	1.06330	1.03629					1.05410	3.074	
86 Hexachlorobutadiene	0.57760	0.52973	0.68381	0.56917	0.62803	0.65959			
	0.59291	0.56792					0.60109	8.626	
87 Naphthalene	2.28330	1.89339	2.25876	2.13091	2.40273	2.48779			
	2.45777	2.34645					2.28264	8.546	
88 1,2,3-Trichlorobenzene	1.15078	0.95304	1.09447	0.97895	1.04366	1.05573			
	1.00291	0.97159					1.03139	6.581	
89 Ethyl Ether	0.31675	0.29494	0.29736	0.29631	0.28650	0.27488			
	0.27788	0.24867					0.28666	7.027	
90 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
91 3-Chloropropene	0.06874	0.06600	0.07223	0.08263	0.08800	0.09970			
	0.10709	0.10790					0.08654	19.594	

Report Date : 20-Jul-2010 08:50

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
92 Isopropyl Ether	0.20983	0.20500	0.23067	0.23075	0.23399	0.22609			
	0.22874	0.21127					0.22204	5.135	
93 2-Chloro-1,3-butadiene	+++++	+++++	0.54241	0.55629	0.59623	0.62673			
	0.65551	0.65077					0.60466	7.926	
94 Propionitrile	0.05084	0.04281	0.04822	0.04876	0.05085	0.04798			
	0.05019	0.04411					0.04797	6.289	
95 Ethyl Acetate	0.31628	0.30157	0.29140	0.31262	0.30533	0.29715			
	0.31220	0.29843					0.30437	2.874	
96 Methacrylonitrile	0.06059	0.06362	0.06727	0.07198	0.07704	0.07504			
	0.07761	0.07202					0.07065	8.859	
97 Isobutanol	0.00723	0.00614	0.00589	0.00742	0.00791	0.00784			
	0.00894	0.00804					0.00743	13.613	<-
98 Cyclohexane	0.58339	0.57221	0.82374	0.74896	0.78097	0.77994			
	0.76121	0.75613					0.72582	12.982	
99 n-Butanol	0.00581	0.00540	0.00556	0.00635	0.00667	0.00671			
	0.00783	0.00752					0.00648	13.651	<-
100 Methyl Methacrylate	0.23508	0.18616	0.19359	0.22172	0.22995	0.23089			
	0.24837	0.26203					0.22597	11.315	
101 2-Nitropropane	0.04059	0.04825	0.04171	0.03562	0.03840	0.03718			
	0.04774	0.05561					0.04314	15.817	
102 Chloropicrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

Report Date : 20-Jul-2010 08:50

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD	
	500.000 Level 7	1000.000 Level 8							
25 Cyclohexanone	0.02817	0.02426	0.02500	0.02676	0.03006	0.03012			
	0.03502	0.03040					0.02873	12.072	
104 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
105 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
134 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
135 Crotononitrile(1st Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
136 Crotononitrile(2nd Isomer)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
M 137 Total Crotononitrile	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
138 Paraldehyde	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
139 3,3,5-Trimethylcyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
140 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
141 1,3,5-Trichlorobenzene	1.10969	1.10604	1.22497	1.12231	1.17723	1.24542			
	1.17622	1.15961					1.16519	4.439	

Report Date : 20-Jul-2010 08:50

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	500.000 Level 7	1000.000 Level 8	RRF	% RSD	
143 Methyl Acetate	0.40462	0.31345	0.32395	0.29955	0.32062	0.29957	0.29909	0.29392	0.31935	11.333	
144 Methylcyclohexane	+++++	0.30496	0.48975	0.43808	0.44942	0.46461	0.45656	0.44266	0.43515	13.765	
145 Dimethoxymethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
146 2-Methylnaphthalene	0.71005	0.82645	0.88591	1.08152	1.18626	1.41242	1.44865	1.33804	1.11116	25.349	
147 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
148 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
149 1,2:3,4-Diepoxybutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
150 Bromoacetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
151 Allyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
152 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
153 Isopropyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Report Date : 20-Jul-2010 08:50

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Last Edit : 20-Jul-2010 08:50 a3ux14.i
Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	25.000 Level 3	50.000 Level 4	100.000 Level 5	250.000 Level 6	RRF	% RSD
	500.000 Level 7	1000.000 Level 8						
155 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++ <-
156 tert-Butyl Ethyl ether	0.81248	0.85102	0.95421	0.95263	0.99197	1.00542		
	1.04854	0.99441					0.95134	8.450
157 tert-Amyl Methyl ether	0.41996	0.41204	0.46074	0.47813	0.48609	0.49645		
	0.52279	0.48740					0.47045	8.059
158 1,2,3-Trimethylbenzene	1.91988	1.78920	2.15557	2.18782	2.28328	2.31251		
	2.41870	2.30871					2.17196	9.879
$ 4 Dibromofluoromethane	0.37243	0.34214	0.33964	0.30555	0.30050	0.30549		
	0.30479	0.30071					0.32141	8.326
$ 5 1,2-Dichloroethane-d4	+++++	0.40003	0.36362	0.32739	0.31352	0.30365		
	0.30856	0.30655					0.33190	10.995
$ 6 Toluene-d8	1.64166	1.60067	1.40193	1.28684	1.25246	1.30566		
	1.21685	1.20134					1.36343	12.535
$ 7 Bromofluorobenzene	+++++	0.90811	0.78739	0.70992	0.69739	0.75273		
	0.71950	0.70829					0.75476	9.869

Data review checklist: 8260 A/8260B/624 Initial Calibration

Method (check the applicable box): ☑ 8260A ☑ 8260B ☐ 624

Analysis Date: 7/19/10 **Run batch ID:** _____

Curve ID: R00719/R00719-B4/R00719-A4 **(curve ID must include instrument designation and date reference)**

Acceptance criteria is found in the applicable laboratory SOP. If item is N/A, mark as such in Notes column

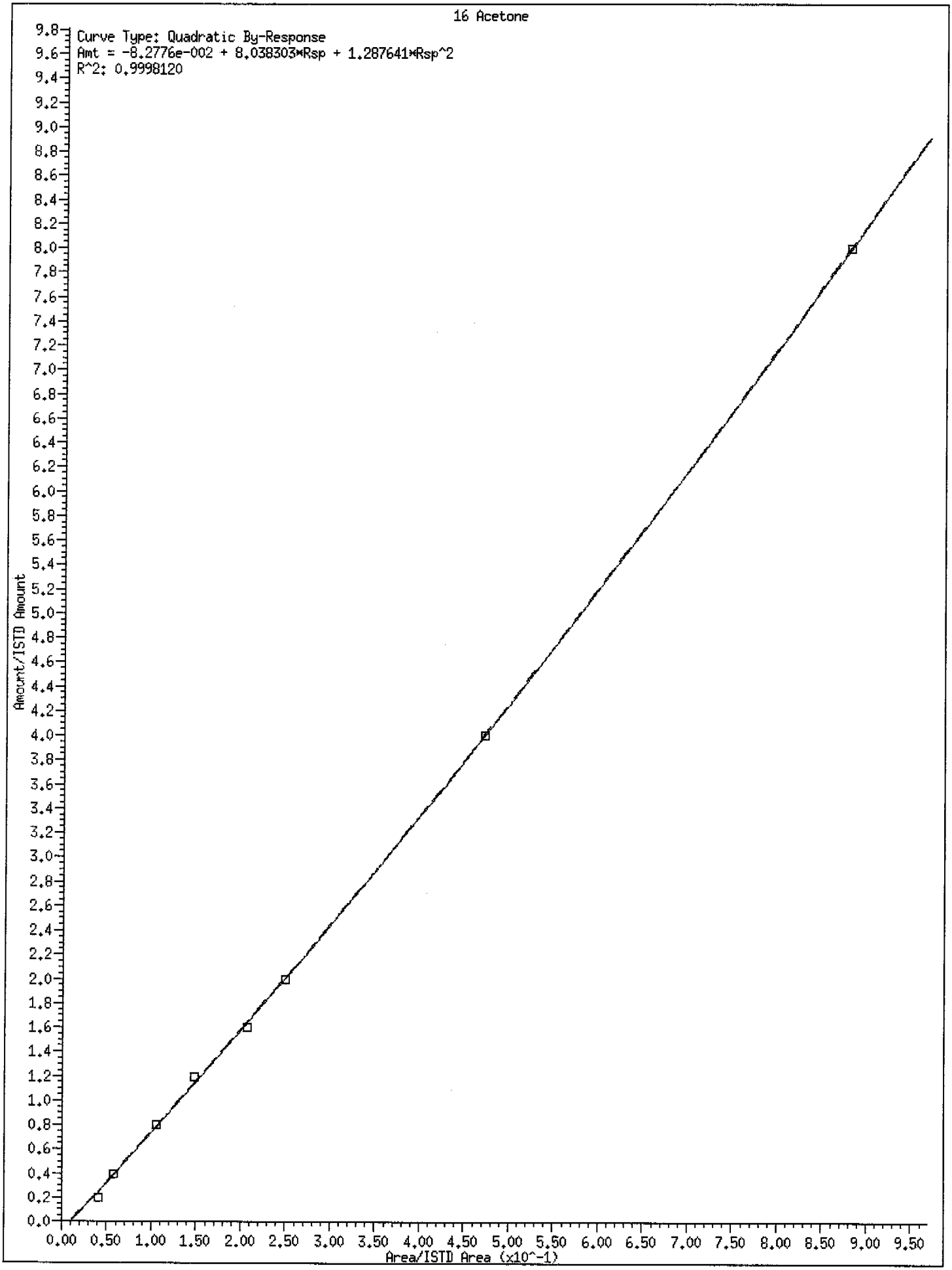
Item for review	Level I Yes	Level I No	Level II Yes	Level II No
Tune:				
BFB passes, all points within 12 hr clock (24 hr for 624)	Yes		Yes	
All calibration points ID'd on Calibration Summary Form	Yes		Yes	
Documentation: Raw data and run logs present for all points	Yes		Yes	
Run log and Raw data clearly indicate method by version	Yes		Yes	
RLs: Minimum of 5 points, lowest standards at or below RL	Yes		Yes	
Linearity: 8260 CCCs ≤ 30% RSD	Yes		Yes	
Linear Regression curve fit for all >15% RSD (35% 624) r2>0.980 (r>0.990)	Yes		Yes	
Plots for all Linear Regressions printed	Yes		Yes	
Response: SPCCs all pass minimum response factors	Yes		Yes	
ICV- Second source standard Analytes 60-140% recovery, problem compounds may be allowed outside these limits, but must be evaluated (acrolein, acrylonitrile, 2-ceve, propionitrile, trans 1,4-dichloro-2-butene) Internal Standards 50-200% of recent curve	Yes		Yes	
Manual integrations: necessary, correct & documented	NA		~~NA~~ Yes TS 7/21/10	
Other: Verify Avg RF on Cal Summary matches Avg RF on Con Cal form	NA		NA	

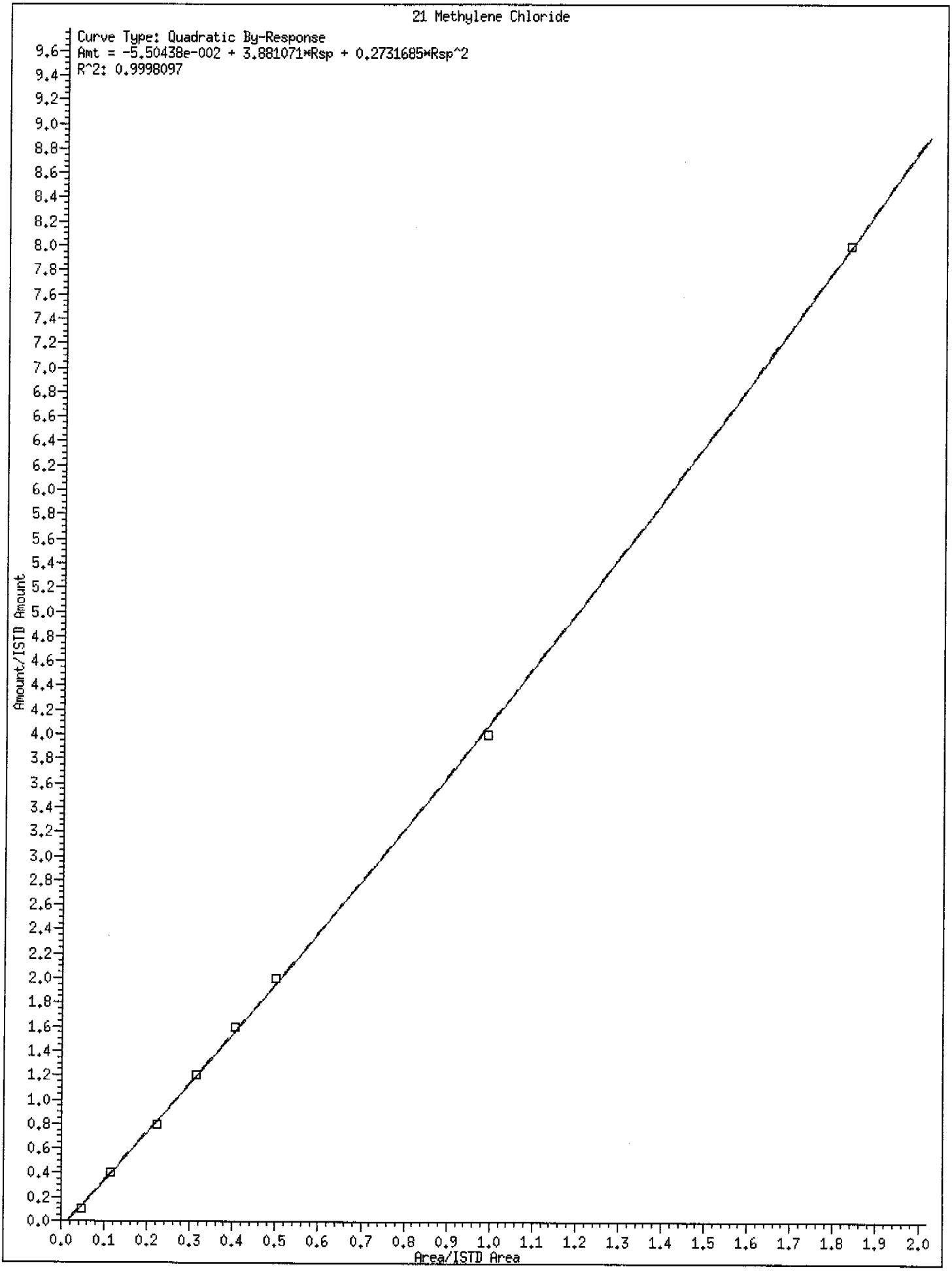
Reviewed by Analyst/ Level I: Shaela M. Mauney Date: 7-20-10

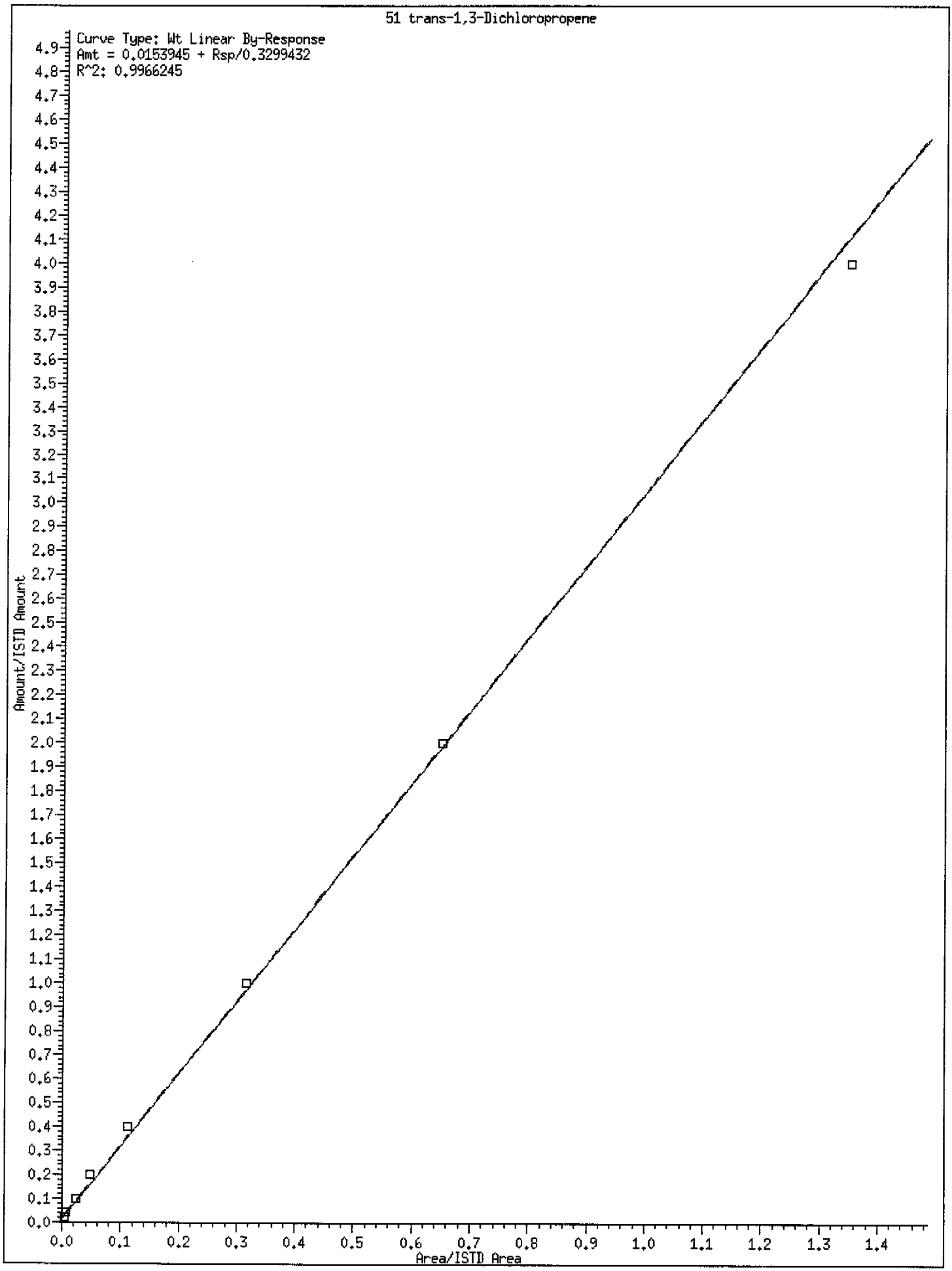
Reviewed by Peer/Sup/ Level II: Thomas E. Stalker Date: 7/21/10
By signing in "Reviewed by" above I agree that I have reviewed the data as indicated on this checklist.

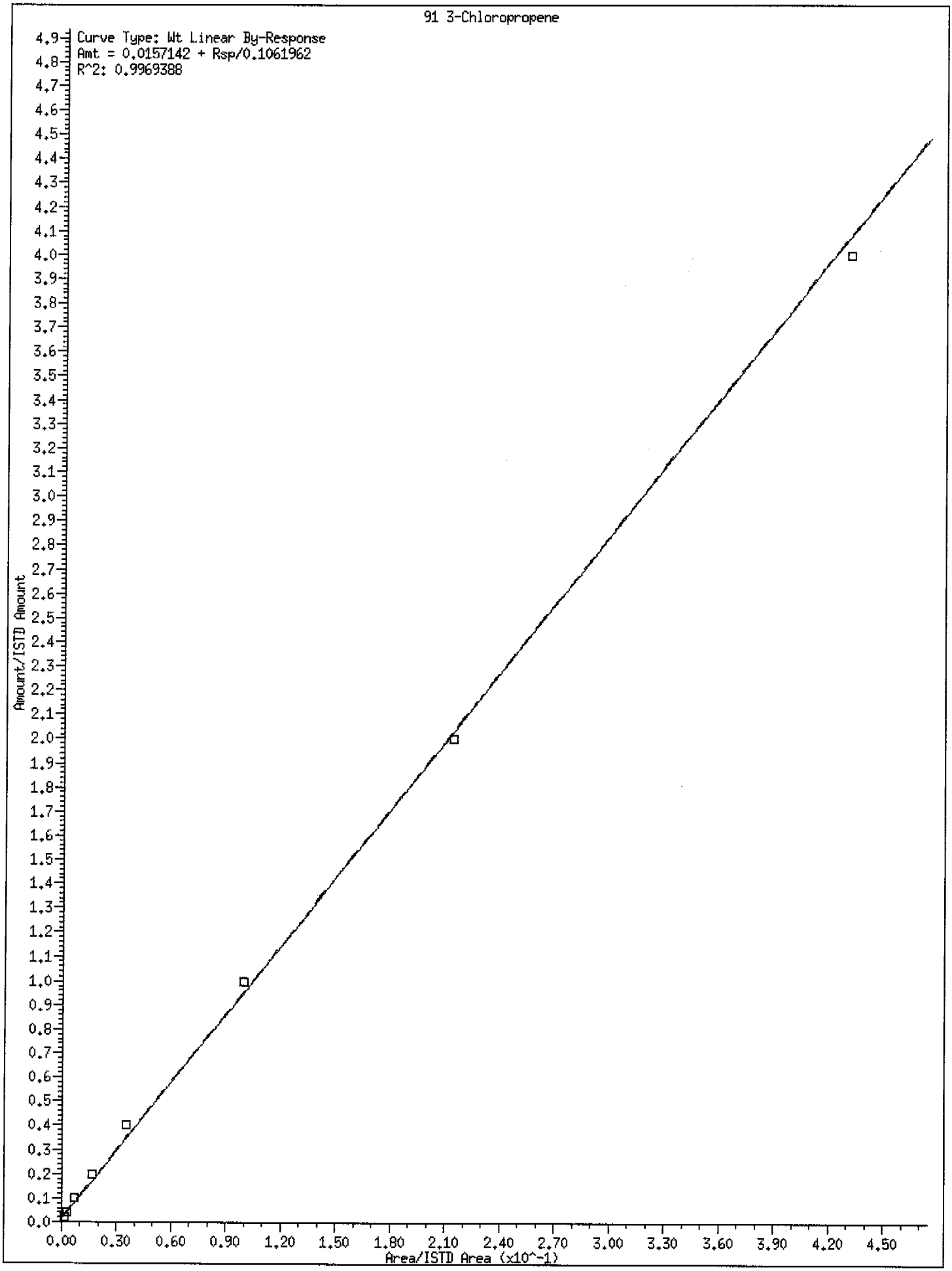
*Peer/Sup only: In addition to the items above, all manual integrations in this package have been reviewed and found acceptable.

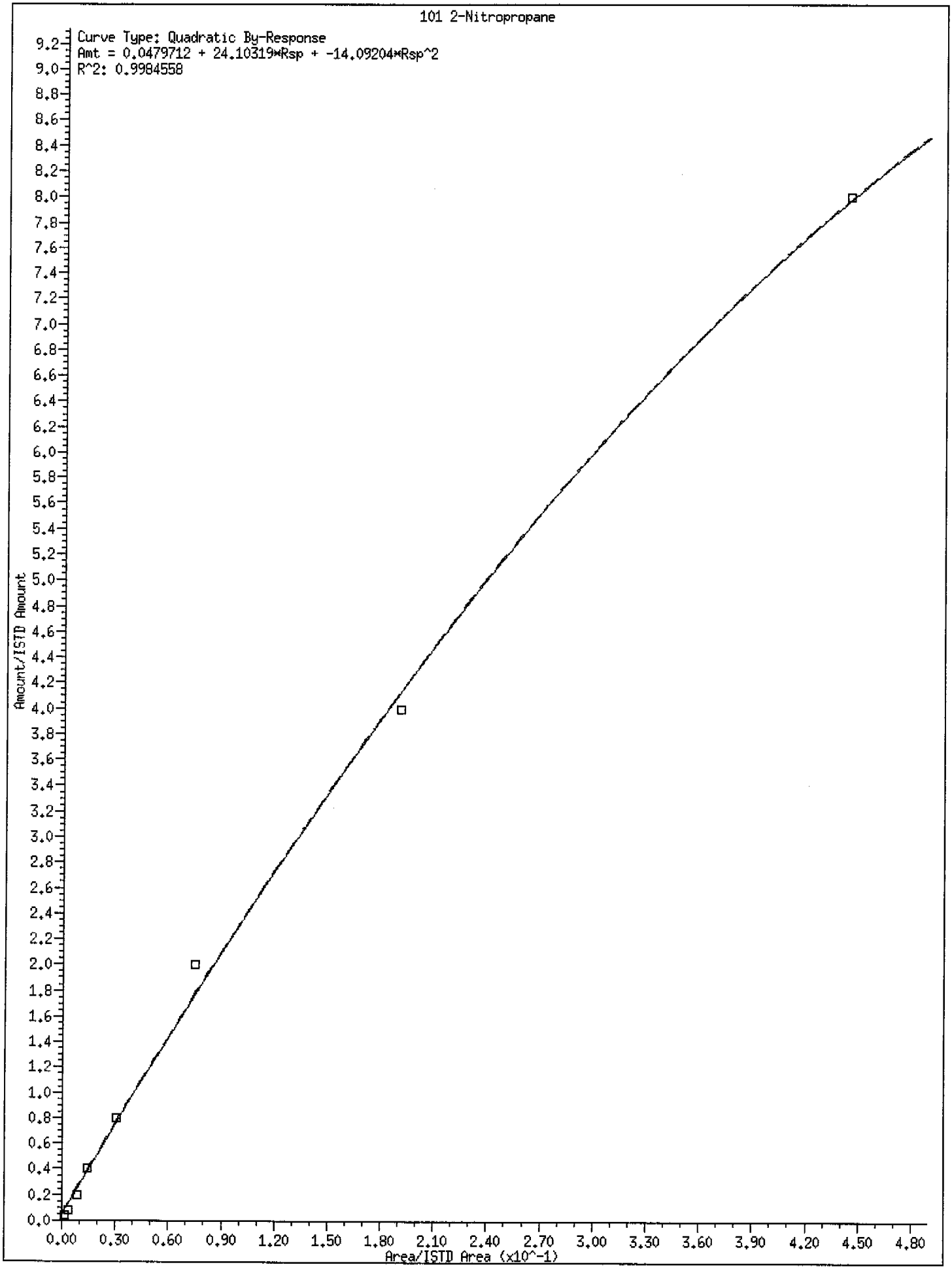
Reviewed by Peer/Sup: Thomas E. Stalker Date: 7/21/10

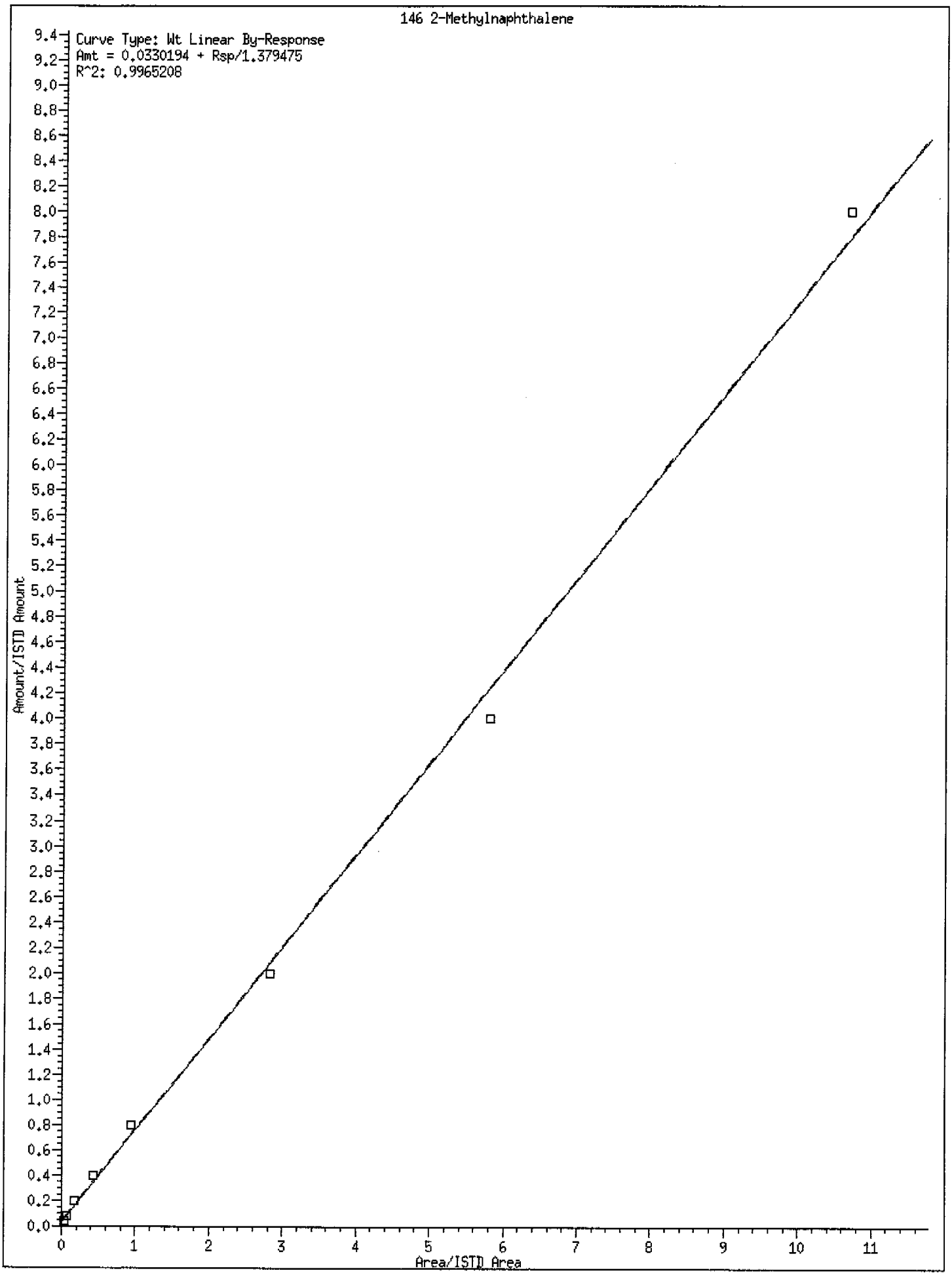

16 Acetone
Curve Type: Quadratic By-Response
Amt = -8.2776e-002 + 8.038303*Rsp + 1.287641*Rsp^2
R^2: 0.9998120
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


21 Methylene Chloride
Curve Type: Quadratic By-Response
Amt = -5.50438e-002 + 3.881071*Rsp + 0.2731685*Rsp^2
R^2: 0.9998097
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6


51 trans-1,3-Dichloropropene
Curve Type: Wt Linear By-Response
Amt = 0.0153945 + Rsp/0.3299432
R^2: 0.9966245
Amount/ISTD Amount
Area/ISTD Area


91 3-Chloropropene
Curve Type: Wt Linear By-Response
Amt = 0.0157142 + Rsp/0.1061962
R^2: 0.9969388
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50


101 2-Nitropropane
Curve Type: Quadratic By-Response
Amt = 0.0479712 + 24.10319*Rsp + -14.09204*Rsp^2
R^2: 0.9984558
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80


146 2-Methylnaphthalene
Curve Type: Wt Linear By-Response
Amt = 0.0330194 + Rsp/1.379475
R^2: 0.9965208
Amount/ISTD Amount
Area/ISTD Area
9.4
9.2
9.0
8.8
8.6
8.4
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
7
8
9
10
11

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141240.D
Report Date: 20-Jul-2010 08:50

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141240.D
Lab Smp Id: 1000NG-IC
Inj Date : 19-JUL-2010 16:42
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:50 a3ux14.i Quant Type: ISTD
Cal Date : 20-JUL-2010 01:16 Cal File: 141264.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1475366	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1187574	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	673070	250.000	
$	4 Dibromofluoromethane	113	5.889	5.889	(0.894)	1774647	1000.00	935.61
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	1809119	1000.00	923.62
$	6 Toluene-d8	98	8.066	8.066	(0.865)	5706739	1000.00	881.12
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	1906905	1000.00	938.42
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	1414449	1000.00	995.10
	9 Chloromethane	50	1.452	1.452	(0.220)	3128444	1000.00	933.48
	10 Vinyl Chloride	62	1.558	1.558	(0.237)	1951378	1000.00	964.56
	12 Chloroethane	64	1.961	1.961	(0.298)	794401	1000.00	799.09
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	2015616	1000.00	1059.0(A)
	15 Acrolein	56	2.718	2.718	(0.413)	2923493	10000.0	9395.9
	16 Acetone	43	2.919	2.919	(0.443)	1299799	2000.00	1620.3
	17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	1403222	1000.00	968.43
	18 Freon-113	151	2.872	2.872	(0.436)	1516196	1000.00	1001.1(A)
	19 Iodomethane	142	3.014	3.014	(0.458)	2942216	1000.00	957.24
	20 Carbon Disulfide	76	3.085	3.085	(0.468)	3573341	1000.00	1077.7(A)
	22 Acetonitrile	41	3.274	3.274	(0.497)	2250852	10000.0	8798.6
	23 Acrylonitrile	53	3.866	3.866	(0.587)	1637036	2000.00	1935.1
	24 Methyl tert-butyl ether	73	3.948	3.948	(0.599)	3447977	1000.00	1001.9(A)
	25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	1595030	1000.00	980.61

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141240.D
Report Date: 20-Jul-2010 08:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	26 Hexane	86	4.374	4.374	(0.664)	335249	1000.00	989.21
	27 Vinyl acetate	43	4.670	4.670	(0.709)	3906051	1000.00	1167.2(A)
	154 Vinyl Acetate**2nd**	86	4.670	4.670	(0.709)	218672	1000.00	1163.6(A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	3348574	1000.00	1005.4(A)
	29 tert-Butyl Alcohol	59	3.771	3.771	(0.573)	2757869	20000.0	19191
	30 2-Butanone	43	5.357	5.357	(0.813)	1894422	2000.00	1988.1
M	31 1,2-Dichloroethene (total)	96				3249084	2000.00	
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	1654054	1000.00	975.63
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	972705	1000.00	1030.4(A)
	34 Bromochloromethane	128	5.593	5.593	(0.849)	996836	1000.00	959.82
	35 Chloroform	83	5.712	5.712	(0.867)	2602994	1000.00	996.23
	36 Tetrahydrofuran	42	5.652	5.652	(0.858)	621759	1000.00	911.20
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	2237186	1000.00	1095.6(A)
	38 1,1-Dichloropropene	75	6.078	6.078	(0.923)	1952004	1000.00	1034.8(A)
	39 Carbon Tetrachloride	117	6.067	6.067	(0.921)	2483705	1000.00	1079.7(A)
	40 1,2-Dichloroethane	62	6.315	6.315	(0.959)	2428288	1000.00	978.90
	41 Benzene	78	6.291	6.291	(0.955)	5322224	1000.00	988.41
	42 Trichloroethene	130	6.954	6.954	(1.056)	2121641	1000.00	995.80
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	1695653	1000.00	1025.8(A)
	44 1,4-Dioxane	88	7.297	7.297	(1.108)	556823	50000.0	49288
	45 Dibromomethane	93	7.262	7.262	(1.102)	798739	1000.00	983.82
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	1789880	1000.00	1134.9(A)
	47 2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	1540159	2000.00	2356.7(A)
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	1921147	1000.00	1154.5(A)
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	3849213	2000.00	1984.5
	50 Toluene	91	8.126	8.126	(0.872)	5854144	1000.00	918.39
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	1604795	1000.00	1250.7(A)
	52 Ethyl Methacrylate	69	8.421	8.421	(0.904)	1222136	1000.00	1080.1(A)
	53 1,1,2-Trichloroethane	97	8.480	8.480	(0.910)	1004935	1000.00	956.31
	54 1,3-Dichloropropane	76	8.622	8.622	(0.925)	1573682	1000.00	945.96
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	1608173	1000.00	955.28
	56 2-Hexanone	43	8.705	8.705	(0.934)	2229342	2000.00	1976.3
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	1713402	1000.00	1152.3(A)
	58 1,2-Dibromoethane	107	8.918	8.918	(0.957)	1119471	1000.00	1004.4(A)
	59 Chlorobenzene	112	9.344	9.344	(1.003)	4377507	1000.00	970.47
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	1953168	1000.00	1062.4(A)
	61 Ethylbenzene	106	9.439	9.439	(1.013)	2284870	1000.00	991.58
	62 m + p-Xylene	106	9.545	9.545	(1.024)	5528375	2000.00	1975.6
	64 Xylene-o	106	9.877	9.877	(1.060)	2732968	1000.00	959.93
	65 Styrene	104	9.889	9.889	(1.061)	4362731	1000.00	1049.6(A)
	66 Bromoform	173	10.042	10.042	(1.077)	1038171	1000.00	1157.3(A)
	67 Isopropylbenzene	105	10.184	10.184	(1.093)	7757287	1000.00	1019.6(A)
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	1139181	1000.00	983.24
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	543031	1000.00	1069.3(A)
	70 1,2,3-Trichloropropane	110	10.468	10.468	(0.928)	440443	1000.00	948.02
	71 Bromobenzene	156	10.445	10.445	(0.926)	2005678	1000.00	1000.3(A)
	72 n-Propylbenzene	120	10.539	10.539	(0.934)	2228650	1000.00	1040.3(A)
	73 2-Chlorotoluene	126	10.610	10.610	(0.940)	2021056	1000.00	991.28
	74 1,3,5-Trimethylbenzene	105	10.681	10.681	(0.947)	6446127	1000.00	1058.5(A)
	75 4-Chlorotoluene	126	10.693	10.693	(0.948)	1964765	1000.00	1004.0(A)
	76 tert-Butylbenzene	119	10.954	10.954	(0.971)	6678452	1000.00	1059.7(A)
	77 1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	6449087	1000.00	1050.7(A)
	78 sec-Butylbenzene	105	11.143	11.143	(0.987)	8341682	1000.00	1063.4(A)
	79 4-Isopropyltoluene	119	11.261	11.261	(0.998)	7596423	1000.00	1078.3(A)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141240.D
Report Date: 20-Jul-2010 08:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	3943391	1000.00	978.97
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	3953201	1000.00	962.32
82	n-Butylbenzene	91	11.604	11.604	(1.028)	5211540	1000.00	1043.0(A)
83	1,2-Dichlorobenzene	146	11.628	11.628	(1.030)	3802349	1000.00	960.39
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	381113	1000.00	1122.8(A)
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	2789991	1000.00	983.11
87	Naphthalene	128	13.166	13.166	(1.167)	6317289	1000.00	1028.0(A)
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	1528991	1000.00	944.80
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	2615783	1000.00	942.02
98	Cyclohexane	56	5.948	5.948	(0.903)	4462267	1000.00	1041.8(A)
143	Methyl Acetate	43	3.381	3.381	(0.513)	3469086	2000.00	1840.7
144	Methylcyclohexane	83	7.132	7.132	(1.083)	2612349	1000.00	1017.3(A)
141	1,3,5-Trichlorobenzene	180	12.456	12.456	(1.104)	3121986	1000.00	995.21

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141240.D
Report Date: 20-Jul-2010 08:50

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141240.D
Lab Smp Id: 1000NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 23:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,8

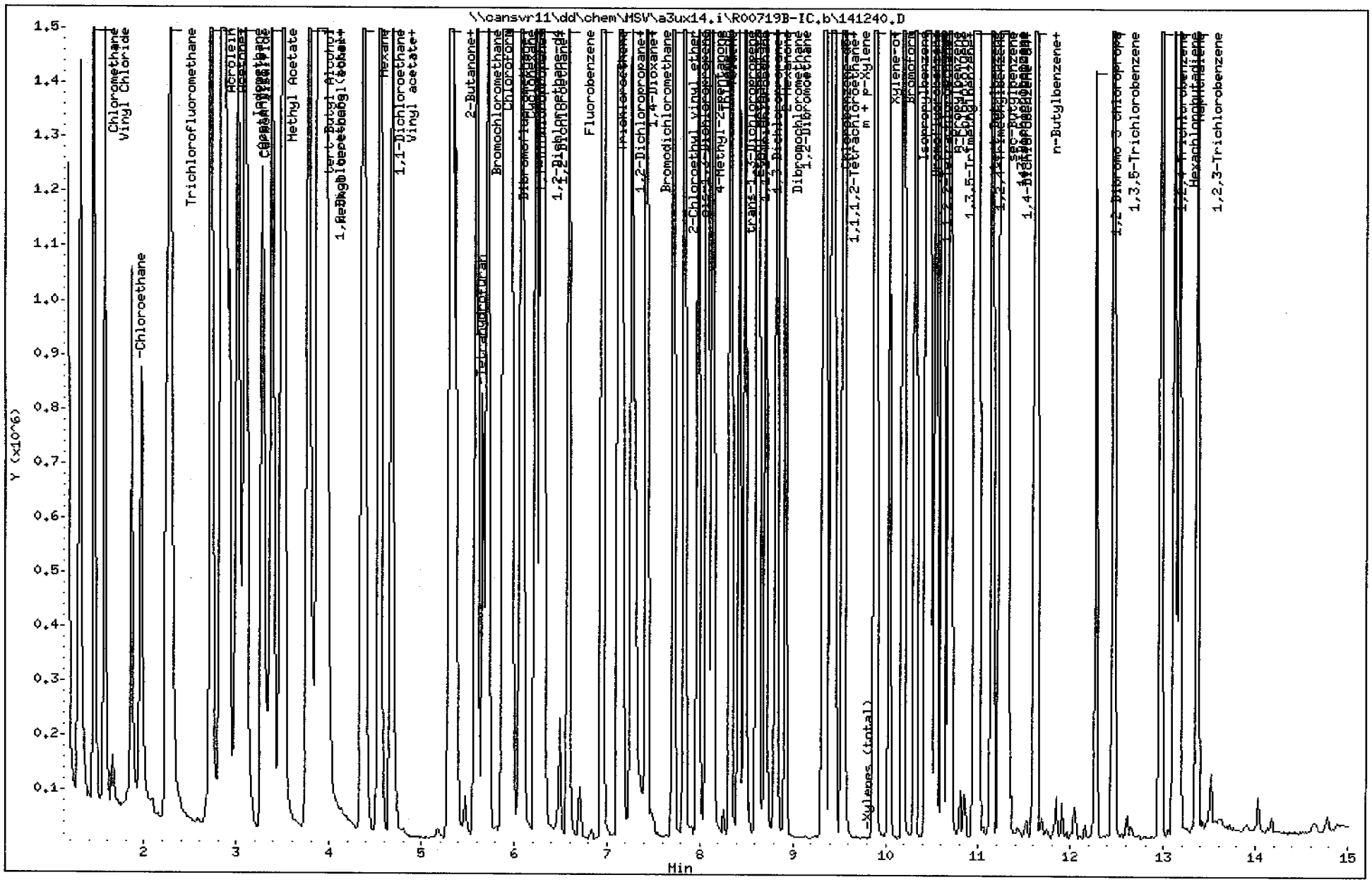
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1512209	756105	3024418	1475366	-2.44
2 Chlorobenzene-d5	1126544	563272	2253088	1187574	5.42
3 1,4-Dichlorobenze	676554	338277	1353108	673070	-0.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141240.D
Date : 19-JUL-2010 16:42
Client ID:
Sample Info: 1000NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D
Lab Smp Id: 500NG-IC
Inj Date : 19-JUL-2010 17:03
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 16:42 Cal File: 141240.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1472272	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1182902	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	658140	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	897469	500.000	506.78
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	908583	500.000	503.28
$ 6 Toluene-d8	98	8.066	8.066	(0.865)	2878820	500.000	506.45
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	947064	500.000	507.92
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	704200	500.000	498.91
9 Chloromethane	50	1.440	1.440	(0.219)	1603978	500.000	513.78
10 Vinyl Chloride	62	1.558	1.558	(0.237)	976453	500.000	501.44
12 Chloroethane	64	1.972	1.972	(0.299)	471640	500.000	594.95
13 Trichlorofluoromethane	101	2.256	2.256	(0.343)	1000423	500.000	497.38
15 Acrolein	56	2.718	2.718	(0.413)	1642431	5000.00	5629.8
16 Acetone	43	2.919	2.919	(0.443)	695589	1000.00	1072.6
17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	720628	500.000	514.63
18 Freon-113	151	2.872	2.872	(0.436)	773863	500.000	511.47
19 Iodomethane	142	3.002	3.002	(0.456)	1501582	500.000	511.43
20 Carbon Disulfide	76	3.085	3.085	(0.468)	1759948	500.000	493.56
22 Acetonitrile	41	3.262	3.262	(0.495)	1140382	5000.00	5077.1
23 Acrylonitrile	53	3.866	3.866	(0.587)	839060	1000.00	1027.2
24 Methyl tert-butyl ether	73	3.948	3.948	(0.599)	1728308	500.000	502.31
25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	810455	500.000	509.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	26 Hexane	86	4.374	4.374	(0.664)	168485	500.000	503.62
	27 Vinyl acetate	43	4.670	4.670	(0.709)	1860718	500.000	477.37
	154 Vinyl Acetate**2nd**	86	4.670	4.670	(0.709)	104835	500.000	480.42(A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	1678968	500.000	502.45
	29 tert-Butyl Alcohol	59	3.759	3.759	(0.571)	1414489	10000.0	10279
	30 2-Butanone	43	5.357	5.357	(0.813)	952172	1000.00	1007.4
M	31 1,2-Dichloroethene (total)	96				1651881	1000.00	
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	841426	500.000	509.77
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	486184	500.000	500.88
	34 Bromochloromethane	128	5.593	5.593	(0.849)	507722	500.000	510.40
	35 Chloroform	83	5.712	5.712	(0.867)	1309877	500.000	504.28
	36 Tetrahydrofuran	42	5.652	5.652	(0.858)	327465	500.000	527.78
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	1103283	500.000	494.19
	38 1,1-Dichloropropene	75	6.078	6.078	(0.923)	980481	500.000	503.35
	39 Carbon Tetrachloride	117	6.067	6.067	(0.921)	1210720	500.000	488.49
	40 1,2-Dichloroethane	62	6.303	6.303	(0.957)	1225807	500.000	505.86
	41 Benzene	78	6.291	6.291	(0.955)	2673928	500.000	503.46
	42 Trichloroethene	130	6.954	6.954	(1.056)	1061902	500.000	501.56
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	851785	500.000	503.39
	44 1,4-Dioxane	88	7.297	7.297	(1.108)	275964	25000.0	24832
	45 Dibromomethane	93	7.262	7.262	(1.102)	407270	500.000	510.96
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	886304	500.000	496.22
	47 2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	751431	1000.00	977.83
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	935141	500.000	487.78
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	1957954	1000.00	1021.3
	50 Toluene	91	8.126	8.126	(0.872)	2915675	500.000	500.02
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	768987	500.000	481.07
	52 Ethyl Methacrylate	69	8.421	8.421	(0.904)	622405	500.000	511.29
	53 1,1,2-Trichloroethane	97	8.480	8.480	(0.910)	506301	500.000	505.80
	54 1,3-Dichloropropane	76	8.622	8.622	(0.925)	798203	500.000	509.22
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	815435	500.000	509.06
	56 2-Hexanone	43	8.705	8.705	(0.934)	1139828	1000.00	1026.6
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	836350	500.000	490.05
	58 1,2-Dibromoethane	107	8.918	8.918	(0.957)	567365	500.000	508.82
	59 Chlorobenzene	112	9.344	9.344	(1.003)	2192342	500.000	502.80
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	976545	500.000	501.95
	61 Ethylbenzene	106	9.439	9.439	(1.013)	1140714	500.000	501.22
	62 m + p-Xylene	106	9.545	9.545	(1.024)	2762693	1000.00	1003.4
	64 Xylene-o	106	9.877	9.877	(1.060)	1390039	500.000	510.63
	65 Styrene	104	9.889	9.889	(1.061)	2178462	500.000	501.31
	66 Bromoform	173	10.042	10.042	(1.077)	499959	500.000	483.48
	67 Isopropylbenzene	105	10.184	10.184	(1.093)	3875734	500.000	501.60
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	584770	500.000	524.97
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	264644	500.000	498.40
	70 1,2,3-Trichloropropane	110	10.468	10.468	(0.928)	229493	500.000	532.87
	71 Bromobenzene	156	10.445	10.445	(0.926)	1000530	500.000	510.16
	72 n-Propylbenzene	120	10.539	10.539	(0.934)	1116744	500.000	512.45
	73 2-Chlorotoluene	126	10.610	10.610	(0.940)	1018066	500.000	515.16
	74 1,3,5-Trimethylbenzene	105	10.681	10.681	(0.947)	3202166	500.000	508.03
	75 4-Chlorotoluene	126	10.693	10.693	(0.948)	967671	500.000	503.68
	76 tert-Butylbenzene	119	10.954	10.954	(0.971)	3350350	500.000	513.05
	77 1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	3202037	500.000	507.77
	78 sec-Butylbenzene	105	11.143	11.143	(0.987)	4144958	500.000	508.17
	79 4-Isopropyltoluene	119	11.261	11.261	(0.998)	3743322	500.000	503.95

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	1928071	500.000	500.03
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	1920934	500.000	496.94
82	n-Butylbenzene	91	11.604	11.604	(1.028)	2580448	500.000	506.37
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	1889119	500.000	508.10
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	183353	500.000	492.01
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	1399599	500.000	513.03
87	Naphthalene	128	13.166	13.166	(1.167)	3235107	500.000	523.72
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	780429	500.000	522.00
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	1320112	500.000	516.12
98	Cyclohexane	56	5.948	5.948	(0.903)	2241421	500.000	503.36
143	Methyl Acetate	43	3.369	3.369	(0.511)	1761384	1000.00	1017.6
144	Methylcyclohexane	83	7.132	7.132	(1.083)	1344362	500.000	515.70
141	1,3,5-Trichlorobenzene	180	12.456	12.456	(1.104)	1548230	500.000	507.16

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

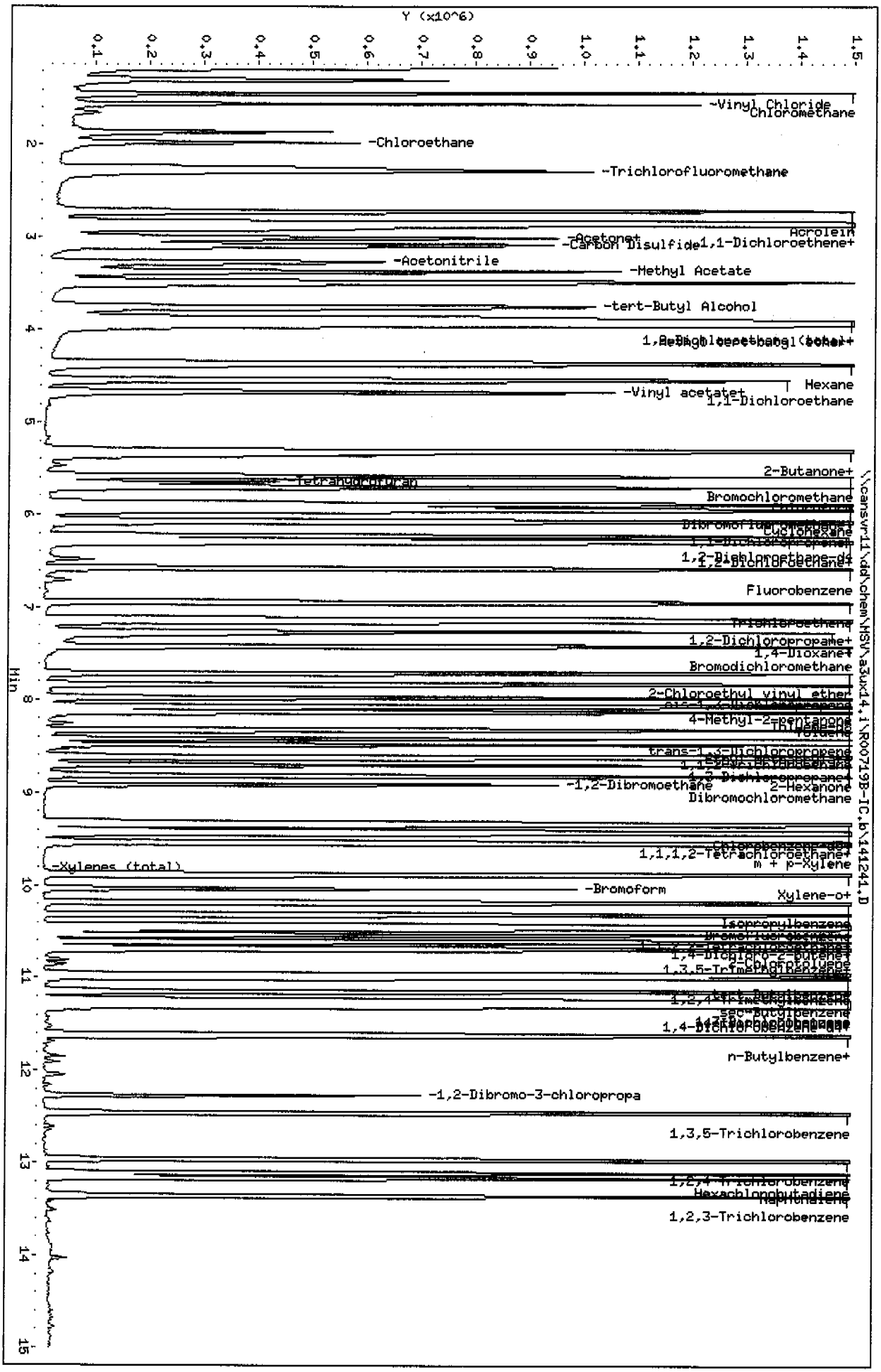
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141241.D
Lab Smp Id: 500NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 16:42
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1472272	736136	2944544	1472272	0.00
2 Chlorobenzene-d5	1182902	591451	2365804	1182902	0.00
3 1,4-Dichlorobenze	658140	329070	1316280	658140	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D
Date : 19-JUL-2010 17:03
Client ID:
Sample Info: 500NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141242.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141242.D
Lab Smp Id: 250NG-IC
Inj Date : 19-JUL-2010 17:25
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 17:03 Cal File: 141241.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1446421	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1109647	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	627992	250.000	
$	4 Dibromofluoromethane	113	5.889	5.889	(0.894)	441864	250.000	252.26
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	439204	250.000	246.82
$	6 Toluene-d8	98	8.066	8.066	(0.865)	1448818	250.000	269.96
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	472707	250.000	263.60
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	355618	250.000	256.73
	9 Chloromethane	50	1.440	1.440	(0.219)	793437	250.000	255.18
	10 Vinyl Chloride	62	1.558	1.558	(0.237)	489711	250.000	255.61
	12 Chloroethane	64	1.984	1.984	(0.301)	247655	250.000	290.41
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	497929	250.000	252.64
	15 Acrolein	56	2.718	2.718	(0.413)	747917	2500.00	2454.9
	16 Acetone	43	2.919	2.919	(0.443)	361573	500.000	547.62
	17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	367012	250.000	262.94
	18 Freon-113	151	2.872	2.872	(0.436)	388546	250.000	258.43
	19 Iodomethane	142	3.014	3.014	(0.458)	756504	250.000	259.30
	20 Carbon Disulfide	76	3.085	3.085	(0.468)	878188	250.000	252.30
	22 Acetonitrile	41	3.274	3.274	(0.497)	591859	2500.00	2661.6
	23 Acrylonitrile	53	3.866	3.866	(0.587)	405617	500.000	498.67
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	850788	250.000	251.11
	25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	408938	250.000	259.13

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141242.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	26 Hexane	86	4.375	4.375	(0.664)	83990	250.000	254.62
	27 Vinyl acetate	43	4.670	4.670	(0.709)	839978	250.000	224.43
	154 Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	48741	250.000	231.90(A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	833004	250.000	253.12
	29 tert-Butyl Alcohol	59	3.747	3.747	(0.569)	725454	5000.00	5292.3
	30 2-Butanone	43	5.357	5.357	(0.813)	462846	500.000	496.59
M	31 1,2-Dichloroethene (total)	96				830016	500.000	
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	421078	250.000	257.15
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	251655	250.000	263.66
	34 Bromochloromethane	128	5.593	5.593	(0.849)	251102	250.000	254.29
	35 Chloroform	83	5.712	5.712	(0.867)	642129	250.000	250.55
	36 Tetrahydrofuran	42	5.653	5.653	(0.858)	158342	250.000	252.74
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	544158	250.000	249.55
	38 1,1-Dichloropropene	75	6.079	6.079	(0.923)	488471	250.000	254.40
	39 Carbon Tetrachloride	117	6.079	6.079	(0.923)	605585	250.000	251.60
	40 1,2-Dichloroethane	62	6.315	6.315	(0.959)	604088	250.000	252.27
	41 Benzene	78	6.292	6.292	(0.955)	1337015	250.000	255.36
	42 Trichloroethene	130	6.954	6.954	(1.056)	525037	250.000	252.03
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	418871	250.000	251.12
	44 1,4-Dioxane	88	7.297	7.297	(1.108)	139229	12500.0	12795
	45 Dibromomethane	93	7.262	7.262	(1.102)	199657	250.000	252.20
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	422560	250.000	241.72
	47 2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	352409	500.000	472.02
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	435238	250.000	233.94
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	935160	500.000	514.53
	50 Toluene	91	8.126	8.126	(0.872)	1446213	250.000	264.38
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	349405	250.000	237.51
	52 Ethyl Methacrylate	69	8.421	8.421	(0.904)	290918	250.000	251.91
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	251574	250.000	266.37
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	396205	250.000	266.99
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	402828	250.000	265.67
	56 2-Hexanone	43	8.705	8.705	(0.934)	536039	500.000	507.91
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	394835	250.000	249.10
	58 1,2-Dibromoethane	107	8.918	8.918	(0.957)	273068	250.000	258.77
	59 Chlorobenzene	112	9.344	9.344	(1.003)	1059348	250.000	258.27
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	468647	250.000	256.29
	61 Ethylbenzene	106	9.439	9.439	(1.013)	567476	250.000	265.48
	62 m + p-Xylene	106	9.534	9.534	(1.023)	1368584	500.000	528.98
	64 Xylene-o	106	9.877	9.877	(1.060)	693708	250.000	268.80
	65 Styrene	104	9.889	9.889	(1.061)	1044774	250.000	255.96
	66 Bromoform	173	10.043	10.043	(1.077)	223179	250.000	233.94
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	1915310	250.000	263.82
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	285956	250.000	262.48
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	123460	250.000	244.06
	70 1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	112064	250.000	264.02
	71 Bromobenzene	156	10.445	10.445	(0.926)	478766	250.000	253.26
	72 n-Propylbenzene	120	10.540	10.540	(0.934)	555139	250.000	263.69
	73 2-Chlorotoluene	126	10.611	10.611	(0.940)	508525	250.000	265.65
	74 1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	1607714	250.000	265.18
	75 4-Chlorotoluene	126	10.693	10.693	(0.948)	477286	250.000	259.40
	76 tert-Butylbenzene	119	10.954	10.954	(0.971)	1603888	250.000	254.08
	77 1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	1579392	250.000	260.46
	78 sec-Butylbenzene	105	11.143	11.143	(0.987)	2077617	250.000	264.78
	79 4-Isopropyltoluene	119	11.261	11.261	(0.998)	1865178	250.000	262.12

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141242.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	943231	250.000	256.35
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	938402	250.000	255.20
82	n-Butylbenzene	91	11.604	11.604	(1.028)	1301971	250.000	266.06
83	1,2-Dichlorobenzene	146	11.628	11.628	(1.030)	944390	250.000	264.06
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	83861	250.000	237.74
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	700657	250.000	265.70
87	Naphthalene	128	13.166	13.166	(1.167)	1562314	250.000	258.92
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	414216	250.000	284.10
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	662987	250.000	267.34
98	Cyclohexane	56	5.948	5.948	(0.903)	1128125	250.000	257.01
143	Methyl Acetate	43	3.369	3.369	(0.511)	866616	500.000	505.17
144	Methylcyclohexane	83	7.132	7.132	(1.083)	672021	250.000	258.34
141	1,3,5-Trichlorobenzene	180	12.456	12.456	(1.104)	782116	250.000	266.59

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141242.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

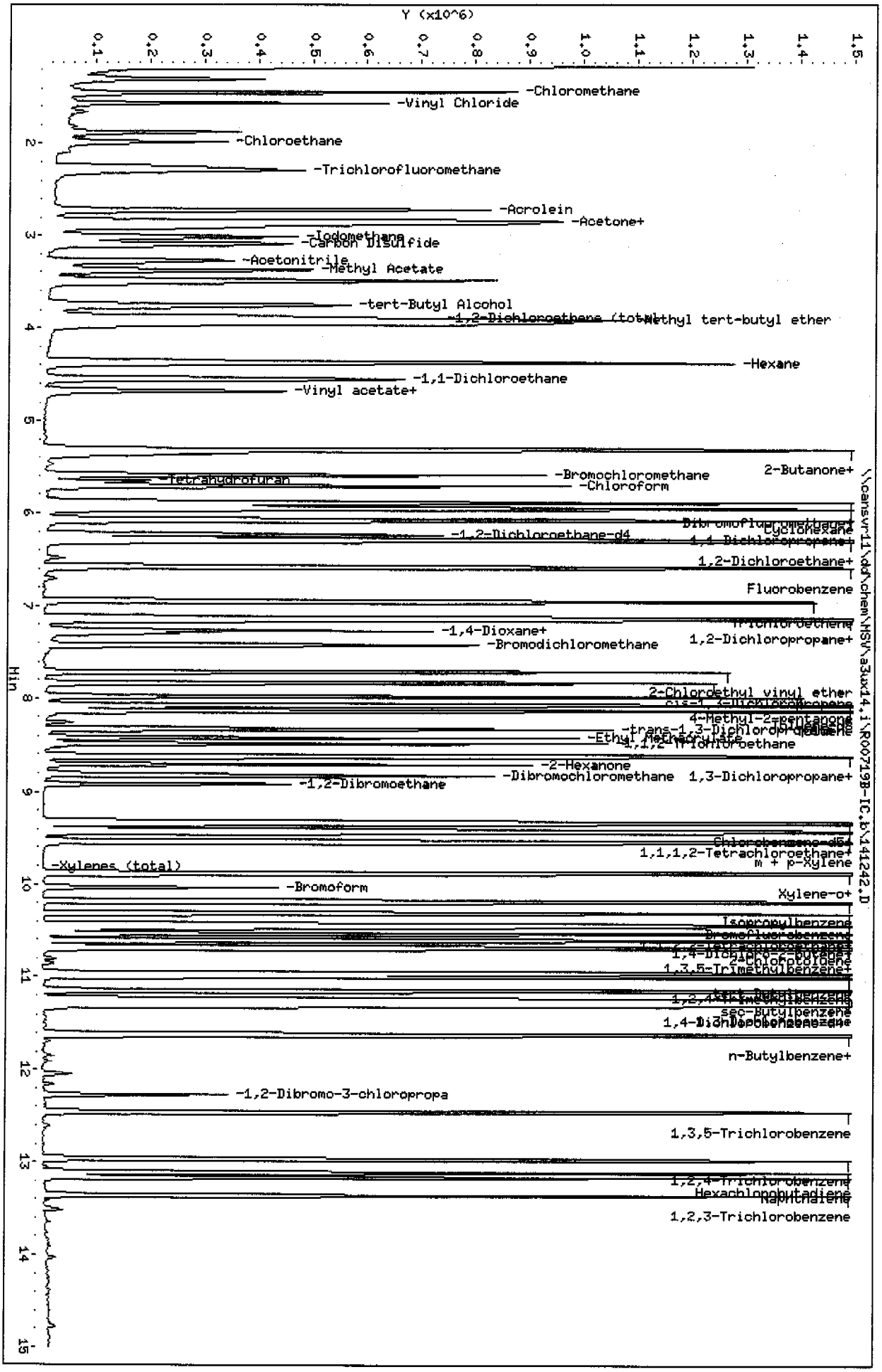
Instrument ID: a3ux14.i
Lab File ID: 141242.D
Lab Smp Id: 250NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,6

Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1446421	0.00
2 Chlorobenzene-d5	1109647	554824	2219294	1109647	0.00
3 1,4-Dichlorobenze	627992	313996	1255984	627992	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R007198-IC.b\141242.D
Date : 19-JUL-2010 17:25
Client ID:
Sample Info: 250NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141243.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141243.D
Lab Smp Id: 100NG-IC
Inj Date : 19-JUL-2010 17:46
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 17:25 Cal File: 141242.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1416614	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1064045	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	629014	250.000	
$	4 Dibromofluoromethane	113	5.889	5.889	(0.894)	170277	100.000	98.958
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	177655	100.000	102.37
$	6 Toluene-d8	98	8.066	8.066	(0.865)	533068	100.000	100.90
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	175466	100.000	95.948
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	138929	100.000	101.50
	9 Chloromethane	50	1.440	1.440	(0.219)	312664	100.000	101.97
	10 Vinyl Chloride	62	1.558	1.558	(0.237)	195115	100.000	103.21
	12 Chloroethane	64	1.984	1.984	(0.301)	97429	100.000	110.69
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	189956	100.000	98.063
	15 Acrolein	56	2.718	2.718	(0.413)	305507	1000.00	1030.0
	16 Acetone	43	2.919	2.919	(0.443)	294197	400.000	440.95
	17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	143867	100.000	103.45
	18 Freon-113	151	2.872	2.872	(0.436)	152752	100.000	102.58
	19 Iodomethane	142	3.014	3.014	(0.458)	296941	100.000	102.65
	20 Carbon Disulfide	76	3.085	3.085	(0.468)	333598	100.000	97.560
	22 Acetonitrile	41	3.274	3.274	(0.497)	248348	1000.00	1116.3
	23 Acrylonitrile	53	3.866	3.866	(0.587)	166672	200.000	209.41
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	333199	100.000	100.26
	25 trans-1,2-Dichloroethene	96	3.913	3.913	(0.594)	157862	100.000	100.91

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141243.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
	26 Hexane	86	4.375	4.375	(0.664)	32944	100.000	101.35	
	27 Vinyl acetate	43	4.670	4.670	(0.709)	302339	100.000	85.391	
	154 Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	16972	100.000	84.486	(A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	321057	100.000	99.198	
	29 tert-Butyl Alcohol	59	3.747	3.747	(0.569)	276880	2000.00	2023.0	
	30 2-Butanone	43	5.357	5.357	(0.813)	378237	400.000	415.30	
M	31 1,2-Dichloroethene (total)	96				322807	200.000		
	32 cis-1,2-dichloroethene	96	5.321	5.321	(0.808)	164945	100.000	101.88	
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	94219	100.000	98.988	
	34 Bromochloromethane	128	5.593	5.593	(0.849)	100939	100.000	103.78	
	35 Chloroform	83	5.712	5.712	(0.867)	247690	100.000	98.607	
	36 Tetrahydrofuran	42	5.664	5.664	(0.860)	65934	100.000	107.06	
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	208993	100.000	97.919	
	38 1,1-Dichloropropene	75	6.078	6.078	(0.923)	187089	100.000	98.906	
	39 Carbon Tetrachloride	117	6.078	6.078	(0.923)	224162	100.000	94.888	
	40 1,2-Dichloroethane	62	6.315	6.315	(0.959)	237889	100.000	101.13	
	41 Benzene	78	6.291	6.291	(0.955)	518560	100.000	100.41	
	42 Trichloroethene	130	6.954	6.954	(1.056)	199235	100.000	97.385	
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	160665	100.000	98.201	
	44 1,4-Dioxane	88	7.297	7.297	(1.108)	54770	5000.00	5099.1	
	45 Dibromomethane	93	7.262	7.262	(1.102)	78014	100.000	100.32	
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	154868	100.000	91.464	
	47 2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	129653	200.000	180.68	
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	151114	100.000	84.748	
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	760363	400.000	432.10	
	50 Toluene	91	8.126	8.126	(0.872)	558924	100.000	104.55	
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	118775	100.000	85.624	
	52 Ethyl Methacrylate	69	8.421	8.421	(0.904)	106982	100.000	96.363	
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	97170	100.000	105.00	
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	152158	100.000	104.56	
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	150775	100.000	101.58	
	56 2-Hexanone	43	8.705	8.705	(0.934)	438644	400.000	431.16	
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	140371	100.000	92.466	
	58 1,2-Dibromoethane	107	8.918	8.918	(0.957)	103092	100.000	100.70	
	59 Chlorobenzene	112	9.344	9.344	(1.003)	401160	100.000	100.88	
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	173169	100.000	97.939	
	61 Ethylbenzene	106	9.439	9.439	(1.013)	211799	100.000	101.24	
	62 m + p-Xylene	106	9.534	9.534	(1.023)	508369	200.000	201.03	
	64 Xylene-o	106	9.877	9.877	(1.060)	266019	100.000	104.87	
	65 Styrene	104	9.889	9.889	(1.061)	389689	100.000	98.777	
	66 Bromoform	173	10.043	10.043	(1.077)	77603	100.000	86.686	
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	723450	100.000	102.04	
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	113150	100.000	102.00	
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	47646	100.000	94.787	
	70 1,2,3-Trichloropropane	110	10.468	10.468	(0.928)	45337	100.000	104.68	
	71 Bromobenzene	156	10.445	10.445	(0.926)	182502	100.000	95.968	
	72 n-Propylbenzene	120	10.539	10.539	(0.934)	209009	100.000	97.340	
	73 2-Chlorotoluene	126	10.610	10.610	(0.940)	189315	100.000	96.718	
	74 1,3,5-Trimethylbenzene	105	10.681	10.681	(0.947)	599612	100.000	96.782	
	75 4-Chlorotoluene	126	10.693	10.693	(0.948)	182712	100.000	97.914	
	76 tert-Butylbenzene	119	10.954	10.954	(0.971)	633642	100.000	99.674	
	77 1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	597247	100.000	96.979	
	78 sec-Butylbenzene	105	11.143	11.143	(0.987)	775891	100.000	96.814	
	79 4-Isopropyltoluene	119	11.261	11.261	(0.998)	703268	100.000	97.104	

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141243.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	366411	100.000	98.587
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	370322	100.000	99.853
82	n-Butylbenzene	91	11.604	11.604	(1.028)	494194	100.000	98.712
83	1,2-Dichlorobenzene	146	11.628	11.628	(1.030)	373313	100.000	102.29
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	32549	100.000	93.654
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	266042	100.000	98.657
87	Naphthalene	128	13.166	13.166	(1.167)	604540	100.000	98.850
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	158017	100.000	103.50
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	262591	100.000	103.32
98	Cyclohexane	56	5.948	5.948	(0.903)	442532	100.000	101.98
143	Methyl Acetate	43	3.381	3.381	(0.513)	363357	200.000	215.52
144	Methylcyclohexane	83	7.132	7.132	(1.083)	254660	100.000	98.858
141	1,3,5-Trichlorobenzene	180	12.456	12.456	(1.104)	296198	100.000	98.616

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141243.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

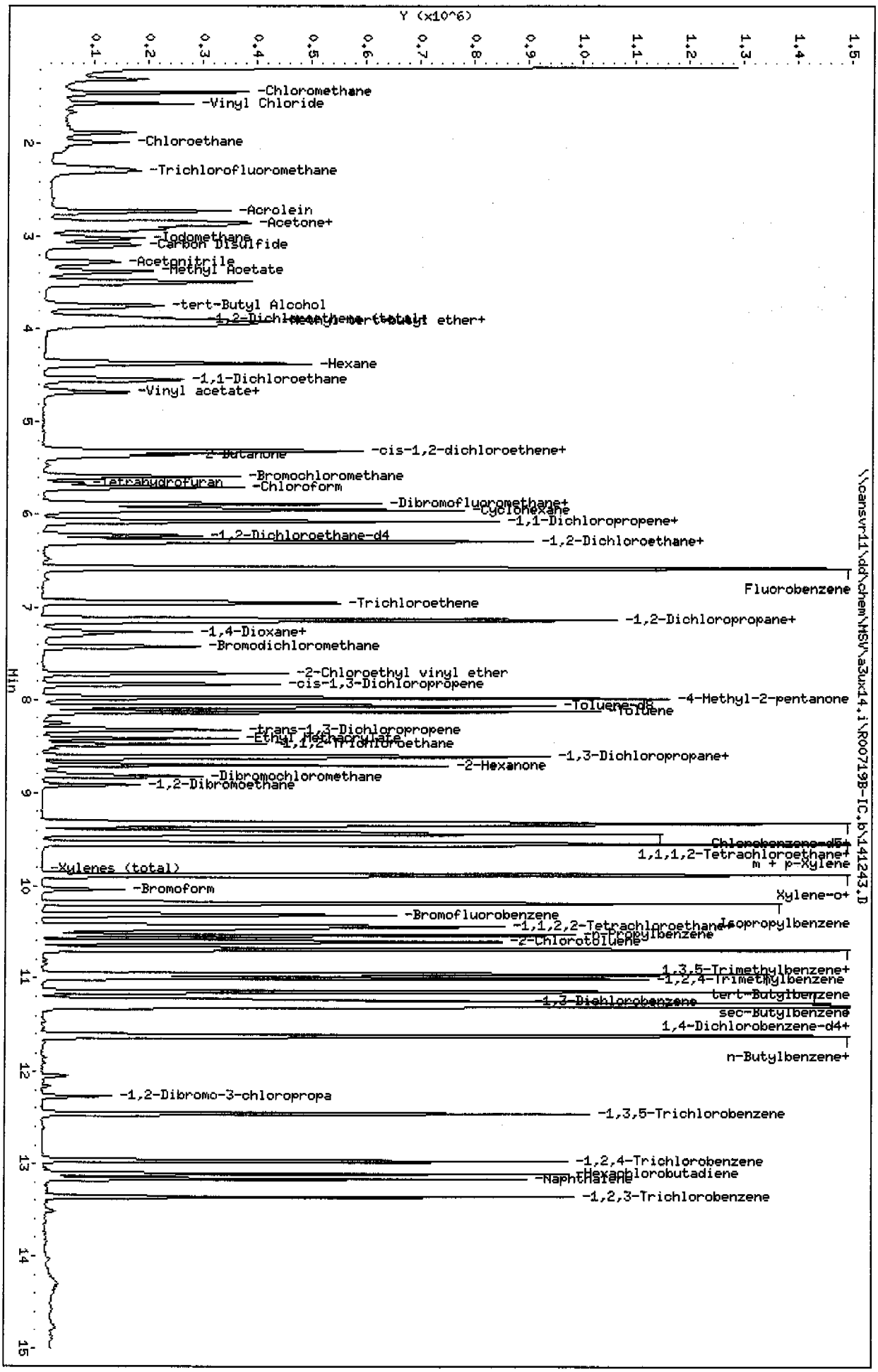
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141243.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1416614	-2.06
2 Chlorobenzene-d5	1109647	554824	2219294	1064045	-4.11
3 1,4-Dichlorobenze	627992	313996	1255984	629014	0.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14,i\R00719B-IC,b\141243.D
Date : 19-JUL-2010 17:46
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14,i
Operator: 2807
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux14,i\R00719B-IC,b\141243.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Lab Smp Id: 50NG-IC
Inj Date : 19-JUL-2010 18:07
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 17:46 Cal File: 141243.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1405140	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1049139	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	632294	250.000	
$	4 Dibromofluoromethane	113	5.889	5.889	(0.894)	85868	50.0000	50.442
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	92006	50.0000	53.135
$	6 Toluene-d8	98	8.066	8.066	(0.865)	270015	50.0000	51.719
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	89776	50.0000	49.336
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	69546	50.0000	51.032
	9 Chloromethane	50	1.440	1.440	(0.219)	163013	50.0000	53.334
	10 Vinyl Chloride	62	1.558	1.558	(0.237)	97921	50.0000	51.806
	12 Chloroethane	64	1.984	1.984	(0.301)	52604	50.0000	58.684
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	97843	50.0000	51.171
	15 Acrolein	56	2.718	2.718	(0.413)	145965	500.000	492.46
	16 Acetone	43	2.919	2.919	(0.443)	208495	300.000	307.19
	17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	70009	50.0000	50.320
	18 Freon-113	151	2.872	2.872	(0.436)	74393	50.0000	50.044
	19 Iodomethane	142	3.014	3.014	(0.458)	145722	50.0000	50.452
	20 Carbon Disulfide	76	3.085	3.085	(0.468)	158299	50.0000	46.959
	22 Acetonitrile	41	3.274	3.274	(0.497)	123100	500.000	542.07
	23 Acrylonitrile	53	3.866	3.866	(0.587)	73180	100.000	91.617
	24 Methyl tert-butyl ether	73	3.948	3.948	(0.599)	157546	50.0000	47.763
	25 trans-1,2-Dichloroethene	96	3.913	3.913	(0.594)	77899	50.0000	50.088

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
26	Hexane	86	4.374	4.374	(0.664)	15229	50.0000	47.074
27	Vinyl acetate	43	4.682	4.682	(0.711)	140894	50.0000	41.639
154	Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	8284	50.0000	43.252(A)
28	1,1-Dichloroethane	63	4.540	4.540	(0.689)	153677	50.0000	47.966
29	tert-Butyl Alcohol	59	3.747	3.747	(0.569)	123367	1000.00	906.11
30	2-Butanone	43	5.357	5.357	(0.813)	263195	300.000	288.58
M 31	1,2-Dichloroethene (total)	96				158226	100.000	
32	cis-1,2-dichloroethene	96	5.321	5.321	(0.808)	80327	50.0000	49.786
33	2,2-Dichloropropane	77	5.309	5.309	(0.806)	43519	50.0000	46.212
34	Bromochloromethane	128	5.593	5.593	(0.849)	47413	50.0000	48.685
35	Chloroform	83	5.712	5.712	(0.867)	119599	50.0000	48.170
36	Tetrahydrofuran	42	5.664	5.664	(0.860)	31905	50.0000	51.325
37	1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	95453	50.0000	45.323
38	1,1-Dichloropropene	75	6.078	6.078	(0.923)	90486	50.0000	48.359
39	Carbon Tetrachloride	117	6.078	6.078	(0.923)	103992	50.0000	44.954
40	1,2-Dichloroethane	62	6.315	6.315	(0.959)	112967	50.0000	48.279
41	Benzene	78	6.291	6.291	(0.955)	249503	50.0000	48.655
42	Trichloroethene	130	6.954	6.954	(1.056)	97991	50.0000	48.606
43	1,2-Dichloropropane	63	7.155	7.155	(1.086)	75329	50.0000	46.628
44	1,4-Dioxane	88	7.297	7.297	(1.108)	25758	2500.00	2405.8
45	Dibromomethane	93	7.262	7.262	(1.102)	37454	50.0000	48.519
46	Bromodichloromethane	83	7.416	7.416	(1.126)	71336	50.0000	43.401
47	2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	56822	100.000	81.808
48	cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	66163	50.0000	38.892
49	4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	529421	300.000	299.13
50	Toluene	91	8.125	8.125	(0.872)	266883	50.0000	50.062
51	trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	50568	50.0000	38.350
52	Ethyl Methacrylate	69	8.421	8.421	(0.904)	46381	50.0000	42.760
53	1,1,2-Trichloroethane	97	8.480	8.480	(0.910)	45687	50.0000	49.453
54	1,3-Dichloropropane	76	8.622	8.622	(0.925)	70282	50.0000	48.430
55	Tetrachloroethene	164	8.611	8.611	(0.924)	72887	50.0000	49.606
56	2-Hexanone	43	8.705	8.705	(0.934)	305324	300.000	298.57
57	Dibromochloromethane	129	8.824	8.824	(0.947)	61438	50.0000	41.834
58	1,2-Dibromoethane	107	8.918	8.918	(0.957)	46098	50.0000	45.590
59	Chlorobenzene	112	9.344	9.344	(1.003)	191247	50.0000	48.670
60	1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	78790	50.0000	45.428
61	Ethylbenzene	106	9.439	9.439	(1.013)	100073	50.0000	48.365
62	m + p-Xylene	106	9.534	9.534	(1.023)	243427	100.000	97.503
64	Xylene-o	106	9.877	9.877	(1.060)	127448	50.0000	50.342
65	Styrene	104	9.889	9.889	(1.061)	179301	50.0000	46.236
66	Bromoform	173	10.042	10.042	(1.077)	32976	50.0000	38.645
67	Isopropylbenzene	105	10.184	10.184	(1.093)	339788	50.0000	48.360
68	1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	52593	50.0000	46.928
69	1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	21939	50.0000	43.992
70	1,2,3-Trichloropropane	110	10.468	10.468	(0.928)	19983	50.0000	45.370
71	Bromobenzene	156	10.445	10.445	(0.926)	90549	50.0000	47.850
72	n-Propylbenzene	120	10.539	10.539	(0.934)	96070	50.0000	44.808
73	2-Chlorotoluene	126	10.610	10.610	(0.940)	91006	50.0000	46.635
74	1,3,5-Trimethylbenzene	105	10.681	10.681	(0.947)	276792	50.0000	44.805
75	4-Chlorotoluene	126	10.693	10.693	(0.948)	88258	50.0000	47.298
76	tert-Butylbenzene	119	10.954	10.954	(0.971)	286978	50.0000	44.945
77	1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	280769	50.0000	45.699
78	sec-Butylbenzene	105	11.143	11.143	(0.987)	354388	50.0000	44.344
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	316827	50.0000	43.836

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	181309	50.0000	48.702
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	182866	50.0000	49.070
82	n-Butylbenzene	91	11.604	11.604	(1.028)	228017	50.0000	45.455
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	180158	50.0000	48.830
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	13928	50.0000	40.510
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	129293	50.0000	47.858
87	Naphthalene	128	13.166	13.166	(1.167)	269472	50.0000	43.960
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	71977	50.0000	46.493
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	123797	50.0000	48.060
98	Cyclohexane	56	5.948	5.948	(0.903)	210480	50.0000	48.662
143	Methyl Acetate	43	3.381	3.381	(0.513)	168365	100.000	98.764
144	Methylcyclohexane	83	7.132	7.132	(1.083)	123113	50.0000	48.320
141	1,3,5-Trichlorobenzene	180	12.456	12.456	(1.104)	141926	50.0000	47.171

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

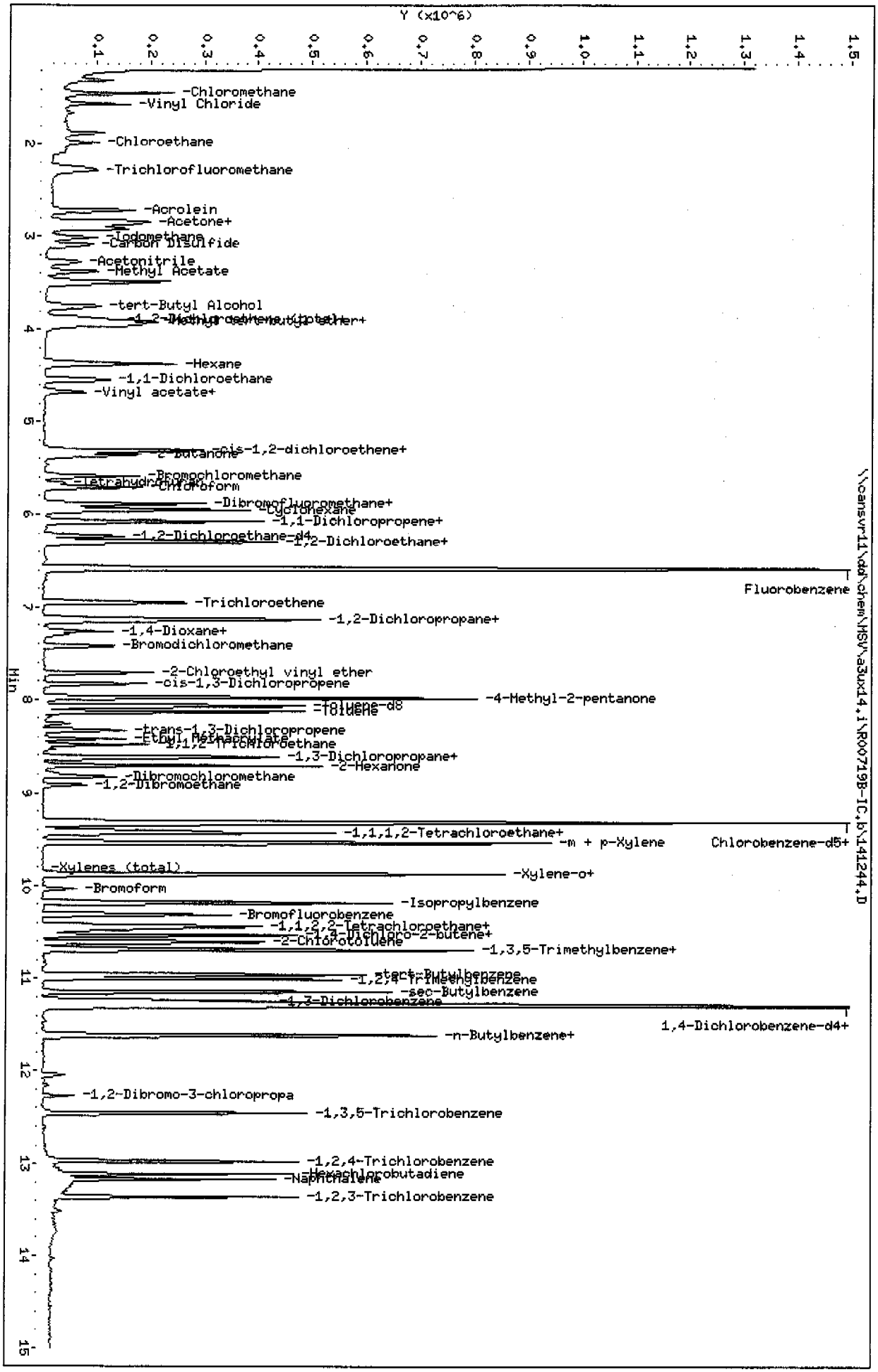
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141244.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1405140	-2.85
2 Chlorobenzene-d5	1109647	554824	2219294	1049139	-5.45
3 1,4-Dichlorobenze	627992	313996	1255984	632294	0.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Date : 19-JUL-2010 18:07
Client ID:
Sample Info: 50NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141245.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141245.D
Lab Smp Id: 25NG-IC
Inj Date : 19-JUL-2010 18:29
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 18:07 Cal File: 141244.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1391187	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1055651	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	627557	250.000	
$	4 Dibromofluoromethane	113	5.889	5.889	(0.894)	47250	25.0000	27.985
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	50587	25.0000	29.142
$	6 Toluene-d8	98	8.067	8.067	(0.865)	147995	25.0000	27.980
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	49413	25.0000	27.433
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	38697	25.0000	28.562
	9 Chloromethane	50	1.440	1.440	(0.219)	84040	25.0000	27.406
	10 Vinyl Chloride	62	1.558	1.558	(0.237)	54215	25.0000	28.763
	12 Chloroethane	64	1.984	1.984	(0.301)	26566	25.0000	28.929
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	49219	25.0000	25.878
	15 Acrolein	56	2.718	2.718	(0.413)	75388	250.000	257.67
	16 Acetone	43	2.919	2.919	(0.443)	146877	200.000	217.53
	17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	37882	25.0000	27.466
	18 Freon-113	151	2.884	2.884	(0.438)	42074	25.0000	28.582
	19 Iodomethane	142	3.014	3.014	(0.458)	79894	25.0000	27.888
	20 Carbon Disulfide	76	3.085	3.085	(0.468)	82426	25.0000	25.001
	22 Acetonitrile	41	3.274	3.274	(0.497)	66970	250.000	292.93
	23 Acrylonitrile	53	3.866	3.866	(0.587)	42365	50.0000	54.484
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	83686	25.0000	25.857
	25 trans-1,2-Dichloroethene	96	3.913	3.913	(0.594)	41680	25.0000	27.059

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141245.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
	26 Hexane	86	4.375	4.375	(0.664)	9012	25.0000	28.470	
	27 Vinyl acetate	43	4.670	4.670	(0.709)	68572	25.0000	21.177	
	154 Vinyl Acetate**2nd**	86	4.670	4.670	(0.709)	4105	25.0000	22.248	(A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	82120	25.0000	26.101	
	29 tert-Butyl Alcohol	59	3.747	3.747	(0.569)	66487	500.000	502.68	
	30 2-Butanone	43	5.357	5.357	(0.813)	176665	200.000	197.15	
M	31 1,2-Dichloroethene (total)	96				83527	50.0000		
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	41847	25.0000	26.219	
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	25456	25.0000	27.722	
	34 Bromochloromethane	128	5.593	5.593	(0.849)	25073	25.0000	26.141	
	35 Chloroform	83	5.712	5.712	(0.867)	63821	25.0000	26.154	
	36 Tetrahydrofuran	42	5.664	5.664	(0.860)	19173	25.0000	30.988	
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	51414	25.0000	25.128	
	38 1,1-Dichloropropene	75	6.079	6.079	(0.923)	47983	25.0000	26.072	
	39 Carbon Tetrachloride	117	6.079	6.079	(0.923)	58139	25.0000	25.908	
	40 1,2-Dichloroethane	62	6.303	6.303	(0.957)	62298	25.0000	27.078	
	41 Benzene	78	6.292	6.292	(0.955)	137724	25.0000	27.273	
	42 Trichloroethene	130	6.954	6.954	(1.056)	52316	25.0000	26.357	
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	40298	25.0000	25.539	
	44 1,4-Dioxane	88	7.297	7.297	(1.108)	14234	1250.00	1353.0	
	45 Dibromomethane	93	7.262	7.262	(1.102)	19211	25.0000	25.286	
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	36287	25.0000	22.903	
	47 2-Chloroethyl vinyl ether	63	7.712	7.712	(1.171)	29065	50.0000	43.861	
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	34187	25.0000	21.241	
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	336708	200.000	189.18	
	50 Toluene	91	8.126	8.126	(0.872)	146954	25.0000	27.389	
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	24717	25.0000	19.540	
	52 Ethyl Methacrylate	69	8.421	8.421	(0.904)	23677	25.0000	22.341	
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	23751	25.0000	25.606	
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	38400	25.0000	26.464	
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	39762	25.0000	26.937	
	56 2-Hexanone	43	8.705	8.705	(0.934)	196991	200.000	191.62	
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	31366	25.0000	21.942	
	58 1,2-Dibromoethane	107	8.918	8.918	(0.957)	24874	25.0000	24.887	
	59 Chlorobenzene	112	9.344	9.344	(1.003)	106206	25.0000	27.005	
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	40972	25.0000	23.915	
	61 Ethylbenzene	106	9.439	9.439	(1.013)	54125	25.0000	26.168	
	62 m + p-Xylene	106	9.534	9.534	(1.023)	129753	50.0000	51.910	
	64 Xylene-o	106	9.877	9.877	(1.060)	68279	25.0000	26.767	
	65 Styrene	104	9.889	9.889	(1.061)	91279	25.0000	23.750	
	66 Bromoform	173	10.043	10.043	(1.077)	17165	25.0000	20.943	
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	178875	25.0000	25.468	
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	26275	25.0000	23.916	
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	11942	25.0000	24.721	
	70 1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	11900	25.0000	27.736	
	71 Bromobenzene	156	10.445	10.445	(0.926)	49162	25.0000	26.402	
	72 n-Propylbenzene	120	10.528	10.528	(0.933)	53067	25.0000	25.467	
	73 2-Chlorotoluene	126	10.611	10.611	(0.940)	49475	25.0000	25.893	
	74 1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	148277	25.0000	24.696	
	75 4-Chlorotoluene	126	10.693	10.693	(0.948)	47451	25.0000	25.901	
	76 tert-Butylbenzene	119	10.954	10.954	(0.971)	155384	25.0000	25.025	
	77 1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	146734	25.0000	24.484	
	78 sec-Butylbenzene	105	11.143	11.143	(0.987)	193169	25.0000	24.917	
	79 4-Isopropyltoluene	119	11.261	11.261	(0.998)	174547	25.0000	24.948	

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141245.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	99614	25.0000	27.100
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	102345	25.0000	27.774
82	n-Butylbenzene	91	11.605	11.605	(1.028)	124876	25.0000	25.546
83	1,2-Dichlorobenzene	146	11.628	11.628	(1.030)	96835	25.0000	26.569
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	6437	25.0000	19.608
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	66353	25.0000	24.960
87	Naphthalene	128	13.166	13.166	(1.167)	141750	25.0000	23.876
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	42913	25.0000	28.326
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	68684	25.0000	27.076
98	Cyclohexane	56	5.948	5.948	(0.903)	114598	25.0000	26.904
143	Methyl Acetate	43	3.381	3.381	(0.513)	90136	50.0000	53.537
144	Methylcyclohexane	83	7.132	7.132	(1.083)	68134	25.0000	27.192
141	1,3,5-Trichlorobenzene	180	12.457	12.457	(1.104)	76874	25.0000	26.038

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141245.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

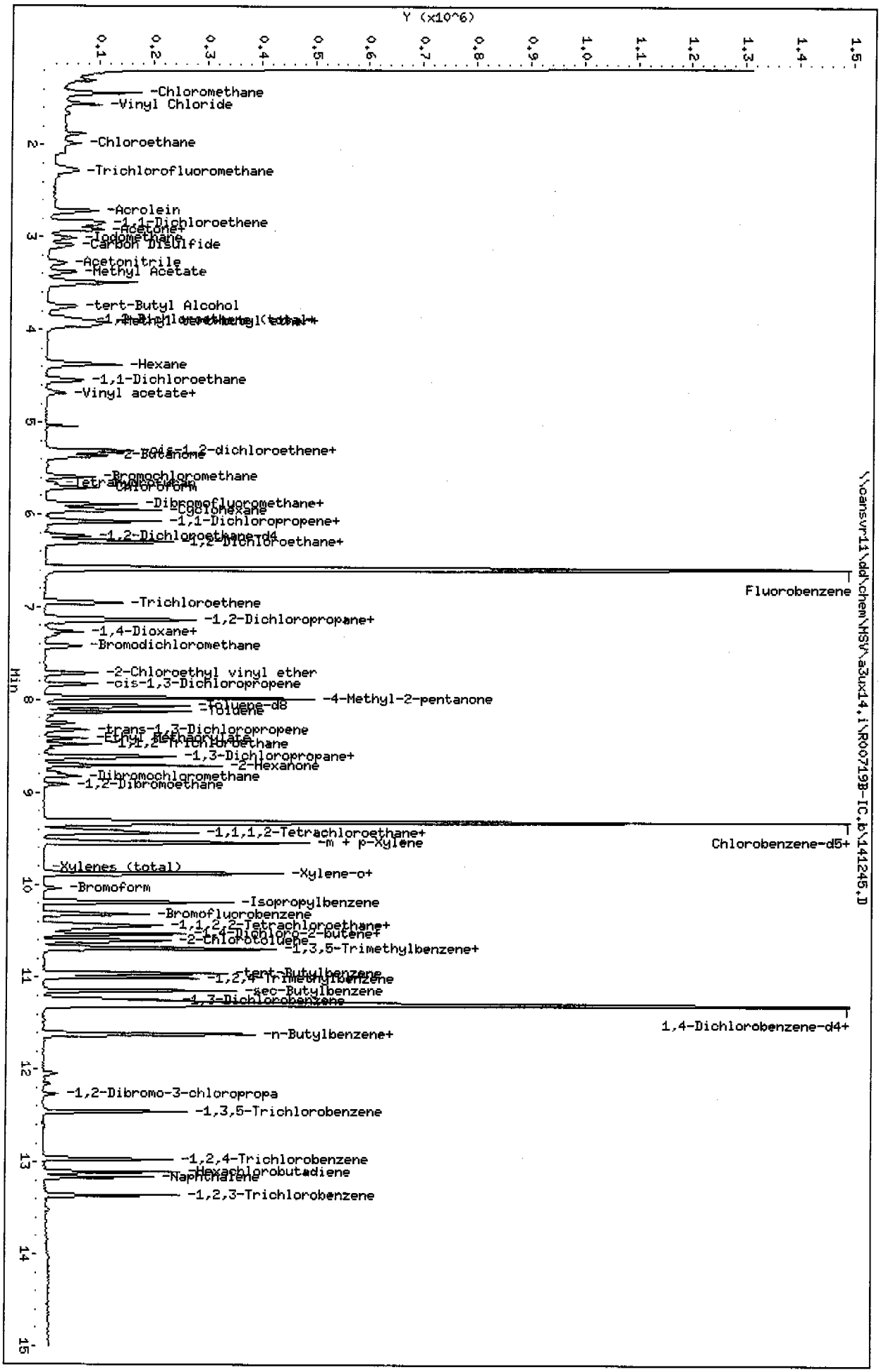
Instrument ID: a3ux14.i
Lab File ID: 141245.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,3

Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1391187	-3.82
2 Chlorobenzene-d5	1109647	554824	2219294	1055651	-4.87
3 1,4-Dichlorobenze	627992	313996	1255984	627557	-0.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\HSV\a3ux14,i\R007198-IC,b\141245.D
Date : 19-JUL-2010 18:29
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14,i
Operator: 2807
Column diameter: 0.18

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141246.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141246.D
Lab Smp Id: 10NG-IC
Inj Date : 19-JUL-2010 18:50
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 18:29 Cal File: 141245.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1400284	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1057586	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	635988	250.000	
$	4 Dibromofluoromethane	113	5.877	5.877	(0.892)	19164	10.0000	11.057
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	22406	10.0000	12.479
$	6 Toluene-d8	98	8.067	8.067	(0.865)	67714	10.0000	12.530
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	23102	10.0000	12.454
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	11102	10.0000	7.952
	9 Chloromethane	50	1.440	1.440	(0.219)	33149	10.0000	10.570
	10 Vinyl Chloride	62	1.547	1.547	(0.235)	18935	10.0000	9.736
	12 Chloroethane	64	1.984	1.984	(0.301)	9571	10.0000	10.090
	13 Trichlorofluoromethane	101	2.257	2.257	(0.343)	14162	10.0000	7.354
	15 Acrolein	56	2.718	2.718	(0.413)	30099	100.000	101.69
	16 Acetone	43	2.919	2.919	(0.443)	80079	100.000	116.13
	17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	12748	10.0000	9.034
	18 Freon-113	151	2.872	2.872	(0.436)	11766	10.0000	7.756
	19 Iodomethane	142	3.002	3.002	(0.456)	28383	10.0000	9.657
	20 Carbon Disulfide	76	3.085	3.085	(0.468)	26874	10.0000	8.098
	22 Acetonitrile	41	3.274	3.274	(0.497)	27940	100.000	118.04
	23 Acrylonitrile	53	3.866	3.866	(0.587)	16222	20.0000	20.422
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	30831	10.0000	9.410
	25 trans-1,2-Dichloroethene	96	3.913	3.913	(0.594)	14610	10.0000	9.296

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141246.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	26 Hexane	86	4.375	4.375	(0.664)	2853	10.0000	8.752
	27 Vinyl acetate	43	4.682	4.682	(0.711)	23766	10.0000	7.483
	154 Vinyl Acetate**2nd**	86	4.670	4.670	(0.709)	1547	10.0000	8.486 (A)
	28 1,1-Dichloroethane	63	4.552	4.552	(0.691)	29789	10.0000	9.338
	29 tert-Butyl Alcohol	59	3.748	3.748	(0.569)	26015	200.000	195.23
	30 2-Butanone	43	5.357	5.357	(0.813)	83830	100.000	93.164
M	31 1,2-Dichloroethene (total)	96				30041	20.0000	
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	15431	10.0000	9.528
	33 2,2-Dichloropropane	77	5.298	5.298	(0.804)	7888	10.0000	8.382
	34 Bromochloromethane	128	5.593	5.593	(0.849)	9507	10.0000	9.773
	35 Chloroform	83	5.712	5.712	(0.867)	24298	10.0000	9.817
	36 Tetrahydrofuran	42	5.664	5.664	(0.860)	9416	10.0000	14.539 (M)
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	15777	10.0000	7.654
	38 1,1-Dichloropropene	75	6.079	6.079	(0.923)	15395	10.0000	8.252
	39 Carbon Tetrachloride	117	6.067	6.067	(0.921)	16484	10.0000	7.254
	40 1,2-Dichloroethane	62	6.303	6.303	(0.957)	22365	10.0000	9.526
	41 Benzene	78	6.292	6.292	(0.955)	48468	10.0000	9.393
	42 Trichloroethene	130	6.954	6.954	(1.056)	20066	10.0000	9.954
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	15373	10.0000	9.645
	44 1,4-Dioxane	88	7.297	7.297	(1.108)	4912	500.000	457.58
	45 Dibromomethane	93	7.262	7.262	(1.102)	7427	10.0000	9.694
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	12460	10.0000	7.924
	47 2-Chloroethyl vinyl ether	63	7.712	7.712	(1.171)	9861	20.0000	15.093
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	10306	10.0000	6.525
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	151963	100.000	86.001
	50 Toluene	91	8.126	8.126	(0.872)	60256	10.0000	11.034
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	7901	10.0000	6.470
	52 Ethyl Methacrylate	69	8.422	8.422	(0.904)	8499	10.0000	8.149
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	8914	10.0000	9.554
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	14175	10.0000	9.657
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	14746	10.0000	9.844
	56 2-Hexanone	43	8.706	8.706	(0.934)	90718	100.000	88.705
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	11129	10.0000	7.933
	58 1,2-Dibromoethane	107	8.919	8.919	(0.957)	9087	10.0000	9.082
	59 Chlorobenzene	112	9.344	9.344	(1.003)	40311	10.0000	10.096
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	13885	10.0000	8.149
	61 Ethylbenzene	106	9.439	9.439	(1.013)	19274	10.0000	9.230
	62 m + p-Xylene	106	9.534	9.534	(1.023)	47123	20.0000	18.699
	64 Xylene-o	106	9.877	9.877	(1.060)	23760	10.0000	9.189
	65 Styrene	104	9.889	9.889	(1.061)	33157	10.0000	8.684
	66 Bromoform	173	10.043	10.043	(1.077)	5545	10.0000	6.941
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	59987	10.0000	8.499
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	11361	10.0000	10.278
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	3912	10.0000	8.006
	70 1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	4165	10.0000	9.407
	71 Bromobenzene	156	10.445	10.445	(0.926)	19147	10.0000	10.053
	72 n-Propylbenzene	120	10.540	10.540	(0.934)	17830	10.0000	8.417
	73 2-Chlorotoluene	126	10.611	10.611	(0.940)	18698	10.0000	9.599
	74 1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	49859	10.0000	8.211
	75 4-Chlorotoluene	126	10.693	10.693	(0.948)	17406	10.0000	9.319
	76 tert-Butylbenzene	119	10.954	10.954	(0.971)	50205	10.0000	7.977
	77 1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	51419	10.0000	8.495
	78 sec-Butylbenzene	105	11.143	11.143	(0.987)	61475	10.0000	7.829
	79 4-Isopropyltoluene	119	11.261	11.261	(0.998)	54366	10.0000	7.670

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141246.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	37460	10.0000	9.917
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	39157	10.0000	10.295
82	n-Butylbenzene	91	11.605	11.605	(1.028)	38785	10.0000	7.801
83	1,2-Dichlorobenzene	146	11.628	11.628	(1.030)	37210	10.0000	9.970
84	1,2-Dibromo-3-chloropropane	157	12.279	12.279	(1.088)	2213	10.0000	6.900
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	25711	10.0000	9.546
87	Naphthalene	128	13.167	13.167	(1.167)	48167	10.0000	8.066
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	13476	10.0000	8.587
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	24245	10.0000	9.302
98	Cyclohexane	56	5.948	5.948	(0.903)	32050	10.0000	7.382
143	Methyl Acetate	43	3.381	3.381	(0.513)	35113	20.0000	20.479
144	Methylcyclohexane	83	7.132	7.132	(1.083)	17081	10.0000	6.675
141	1,3,5-Trichlorobenzene	180	12.457	12.457	(1.104)	28137	10.0000	9.339

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141246.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

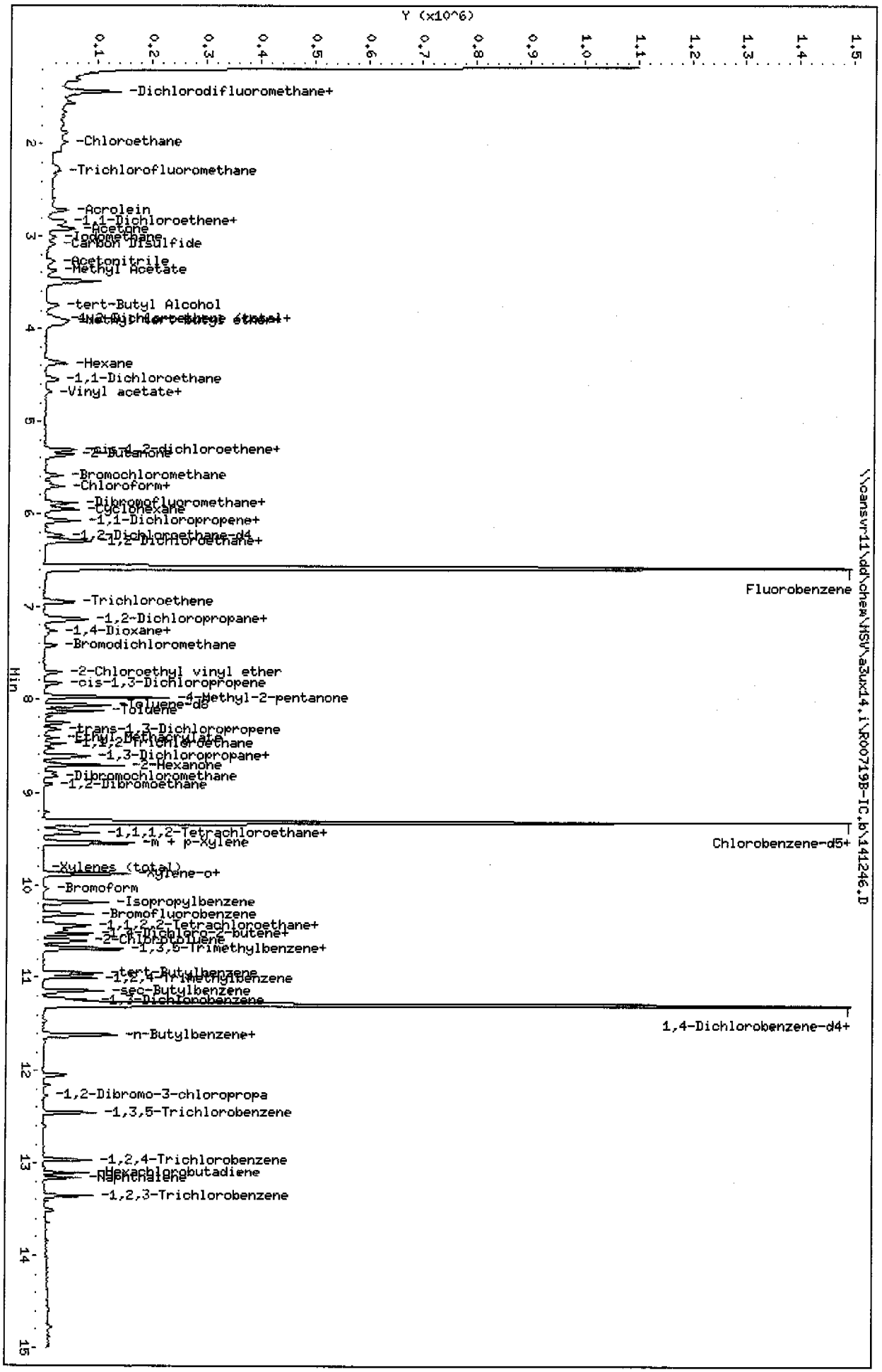
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141246.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1400284	-3.19
2 Chlorobenzene-d5	1109647	554824	2219294	1057586	-4.69
3 1,4-Dichlorobenze	627992	313996	1255984	635988	1.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

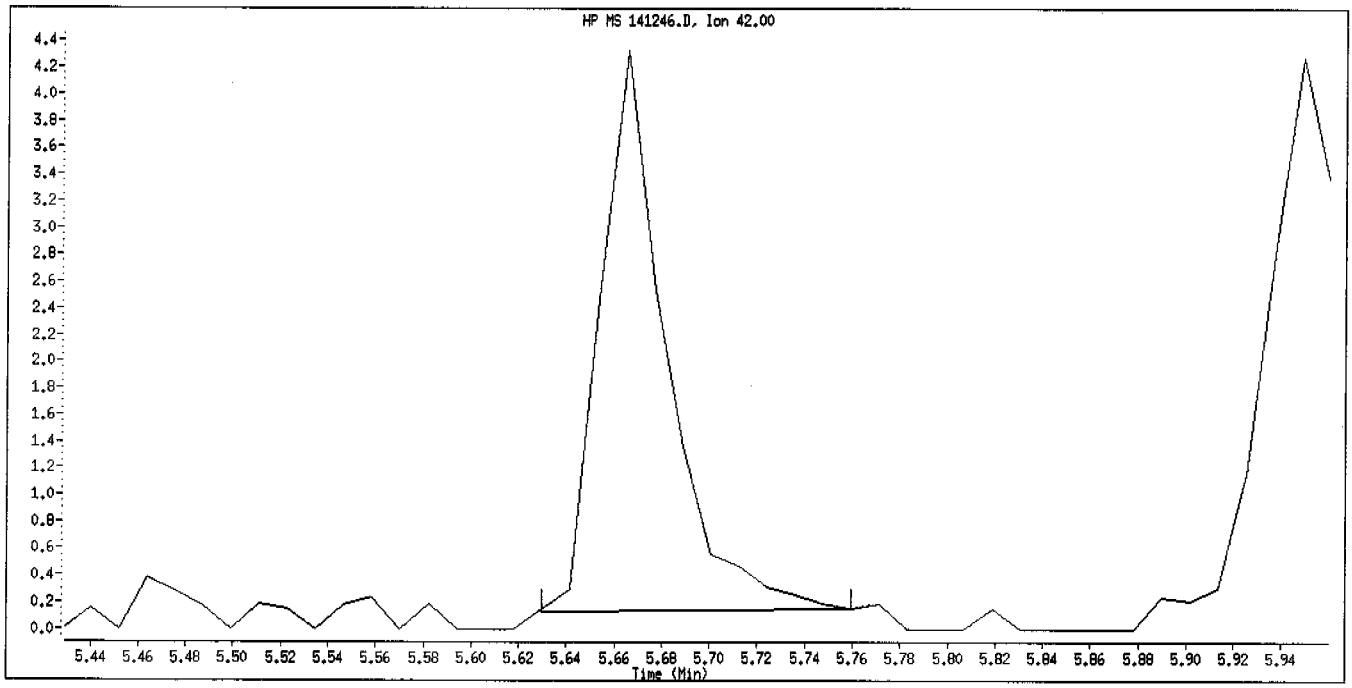
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AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



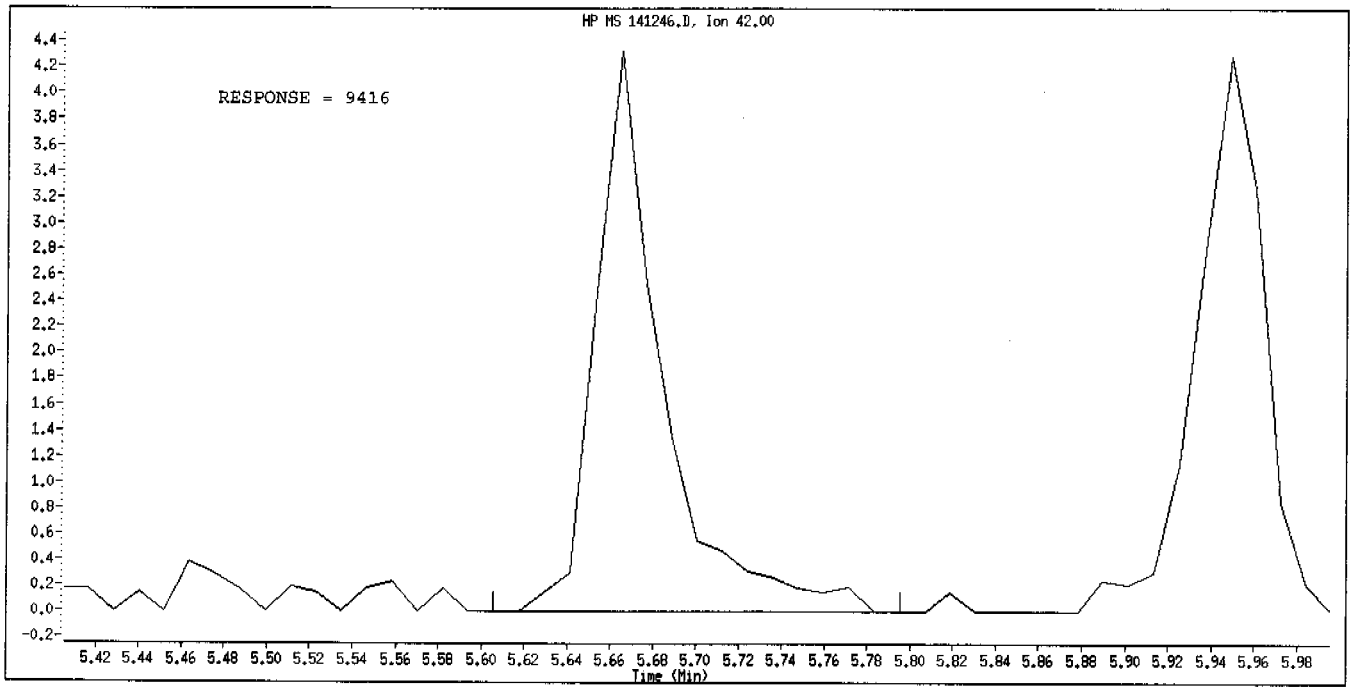
Data File: \\cansvr11\dd\chem\HSV\a3ux14.i\R00719B-IC.b\141246.D
Date : 19-JUL-2010 18:50
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Data File Name: 141246.D
Inj. Date and Time: 19-JUL-2010 18:50
Instrument ID: a3ux14.i
Client ID:
Compound Name: Tetrahydrofuran
CAS #: 109-99-9
Report Date: 07/20/2010



Original Integration



Manual Integration

Manually Integrated By: MacenczakS
Manual Integration Reason: Poor Chromatography

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141247.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141247.D
Lab Smp Id: 5NG-IC
Inj Date : 19-JUL-2010 19:12
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-IC
Misc Info : R00719B-IC,8260SUX14,1-8260.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 18:50 Cal File: 141246.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1433010	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1080764	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	643783	250.000	
$	4 Dibromofluoromethane	113	5.889	5.889	(0.894)	10674	5.00000	5.928
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	12817	5.00000	6.737
$	6 Toluene-d8	98	8.066	8.066	(0.865)	35485	5.00000	6.201
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	13556	5.00000	6.975
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	6682	5.00000	4.818
	9 Chloromethane	50	1.440	1.440	(0.219)	16965	5.00000	5.243
	10 Vinyl Chloride	62	1.558	1.558	(0.237)	9203	5.00000	4.641
	12 Chloroethane	64	1.984	1.984	(0.301)	4605	5.00000	4.738
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	7583	5.00000	3.999
	15 Acrolein	56	2.718	2.718	(0.413)	14611	50.0000	48.119
	16 Acetone	43	2.919	2.919	(0.443)	58992	50.0000	81.715
	17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	6450	5.00000	4.529
	18 Freon-113	151	2.872	2.872	(0.436)	6246	5.00000	4.156
	19 Iodomethane	142	3.014	3.014	(0.458)	14660	5.00000	4.898
	20 Carbon Disulfide	76	3.085	3.085	(0.468)	13191	5.00000	3.993
	22 Acetonitrile	41	3.286	3.286	(0.499)	19434	50.0000	78.213
	23 Acrylonitrile	53	3.866	3.866	(0.587)	8659	10.0000	10.620
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	17348	5.00000	5.218
	25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	7466	5.00000	4.689

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141247.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
26	Hexane	86	4.363	4.363	(0.662)	1699	5.00000	5.185	
27	Vinyl acetate	43	4.682	4.682	(0.711)	12422	5.00000	3.822	
154	Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	611	5.00000	3.347	(aA)
28	1,1-Dichloroethane	63	4.540	4.540	(0.689)	16215	5.00000	5.014	
29	tert-Butyl Alcohol	59	3.747	3.747	(0.569)	16535	100.000	121.67	
30	2-Butanone	43	5.368	5.368	(0.815)	51057	50.0000	55.993	
M 31	1,2-Dichloroethene (total)	96				15716	10.0000		
32	cis-1,2-dichloroethene	96	5.321	5.321	(0.808)	8250	5.00000	5.011	
34	Bromochloromethane	128	5.593	5.593	(0.849)	5621	5.00000	5.665	
35	Chloroform	83	5.712	5.712	(0.867)	13093	5.00000	5.183	
36	Tetrahydrofuran	42	5.664	5.664	(0.860)	6975	5.00000	10.524	
37	1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	7975	5.00000	3.912	
38	1,1-Dichloropropene	75	6.078	6.078	(0.923)	8133	5.00000	4.369	
39	Carbon Tetrachloride	117	6.078	6.078	(0.923)	7947	5.00000	3.557	
40	1,2-Dichloroethane	62	6.315	6.315	(0.959)	12852	5.00000	5.385	
41	Benzene	78	6.291	6.291	(0.955)	25990	5.00000	4.965	
42	Trichloroethene	130	6.954	6.954	(1.056)	10618	5.00000	5.150	
43	1,2-Dichloropropane	63	7.155	7.155	(1.086)	7420	5.00000	4.572	
44	1,4-Dioxane	88	7.309	7.309	(1.110)	2954	250.000	272.20	
45	Dibromomethane	93	7.262	7.262	(1.102)	4220	5.00000	5.406	
46	Bromodichloromethane	83	7.427	7.427	(1.128)	6624	5.00000	4.242	
47	2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	5618	10.0000	8.708	
48	cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	5524	5.00000	3.418	
49	4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	86695	50.0000	48.991	
50	Toluene	91	8.126	8.126	(0.872)	33837	5.00000	5.975	
51	trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	5233	5.00000	4.416	
52	Ethyl Methacrylate	69	8.421	8.421	(0.904)	4874	5.00000	4.697	
53	1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	5095	5.00000	5.378	
54	1,3-Dichloropropane	76	8.623	8.623	(0.925)	8314	5.00000	5.570	
55	Tetrachloroethene	164	8.611	8.611	(0.924)	7825	5.00000	5.123	
56	2-Hexanone	43	8.705	8.705	(0.934)	50752	50.0000	49.358	
57	Dibromochloromethane	129	8.824	8.824	(0.947)	5431	5.00000	3.904	
58	1,2-Dibromoethane	107	8.918	8.918	(0.957)	5255	5.00000	5.208	
59	Chlorobenzene	112	9.344	9.344	(1.003)	21198	5.00000	5.188	
60	1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	7589	5.00000	4.477	
61	Ethylbenzene	106	9.439	9.439	(1.013)	10012	5.00000	4.744	
62	m + p-Xylene	106	9.534	9.534	(1.023)	25137	10.0000	9.852	
64	Xylene-o	106	9.877	9.877	(1.060)	12230	5.00000	4.683	
65	Styrene	104	9.889	9.889	(1.061)	17316	5.00000	4.523	
66	Bromoform	173	10.042	10.042	(1.077)	3101	5.00000	3.798	
67	Isopropylbenzene	105	10.184	10.184	(1.093)	29924	5.00000	4.240	
68	1,1,2,2-Tetrachloroethane	83	10.421	10.421	(0.923)	5010	5.00000	4.460	
69	1,4-Dichloro-2-butene	53	10.468	10.468	(0.928)	2610	5.00000	5.431	
70	1,2,3-Trichloropropane	110	10.468	10.468	(0.928)	3286	5.00000	7.395	
71	Bromobenzene	156	10.445	10.445	(0.926)	9178	5.00000	4.757	
72	n-Propylbenzene	120	10.539	10.539	(0.934)	8609	5.00000	4.108	
73	2-Chlorotoluene	126	10.610	10.610	(0.940)	9386	5.00000	4.787	
74	1,3,5-Trimethylbenzene	105	10.681	10.681	(0.947)	23352	5.00000	3.899	
75	4-Chlorotoluene	126	10.693	10.693	(0.948)	9345	5.00000	4.991	
76	tert-Butylbenzene	119	10.954	10.954	(0.971)	24596	5.00000	3.976	
77	1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	25006	5.00000	4.171	
78	sec-Butylbenzene	105	11.143	11.143	(0.987)	30543	5.00000	3.966	
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	26757	5.00000	3.858	
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	20446	5.00000	5.354	

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141247.D
Report Date: 20-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	21847	5.00000	5.650
82	n-Butylbenzene	91	11.604	11.604	(1.028)	20551	5.00000	4.216
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	19302	5.00000	5.111
84	1,2-Dibromo-3-chloropropane	157	12.279	12.279	(1.088)	1390	5.00000	4.281
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	13773	5.00000	5.085
87	Naphthalene	128	13.166	13.166	(1.167)	29399	5.00000	5.002
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	7437	5.00000	4.778
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	14817	5.00000	5.672
98	Cyclohexane	56	5.948	5.948	(0.903)	16720	5.00000	3.909
143	Methyl Acetate	43	3.381	3.381	(0.513)	23193	10.0000	13.173
144	Methylcyclohexane	83	7.132	7.132	(1.083)	9058	5.00000	3.631
141	1,3,5-Trichlorobenzene	180	12.456	12.456	(1.104)	14288	5.00000	4.730

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141247.D
Report Date: 20-Jul-2010 08:49

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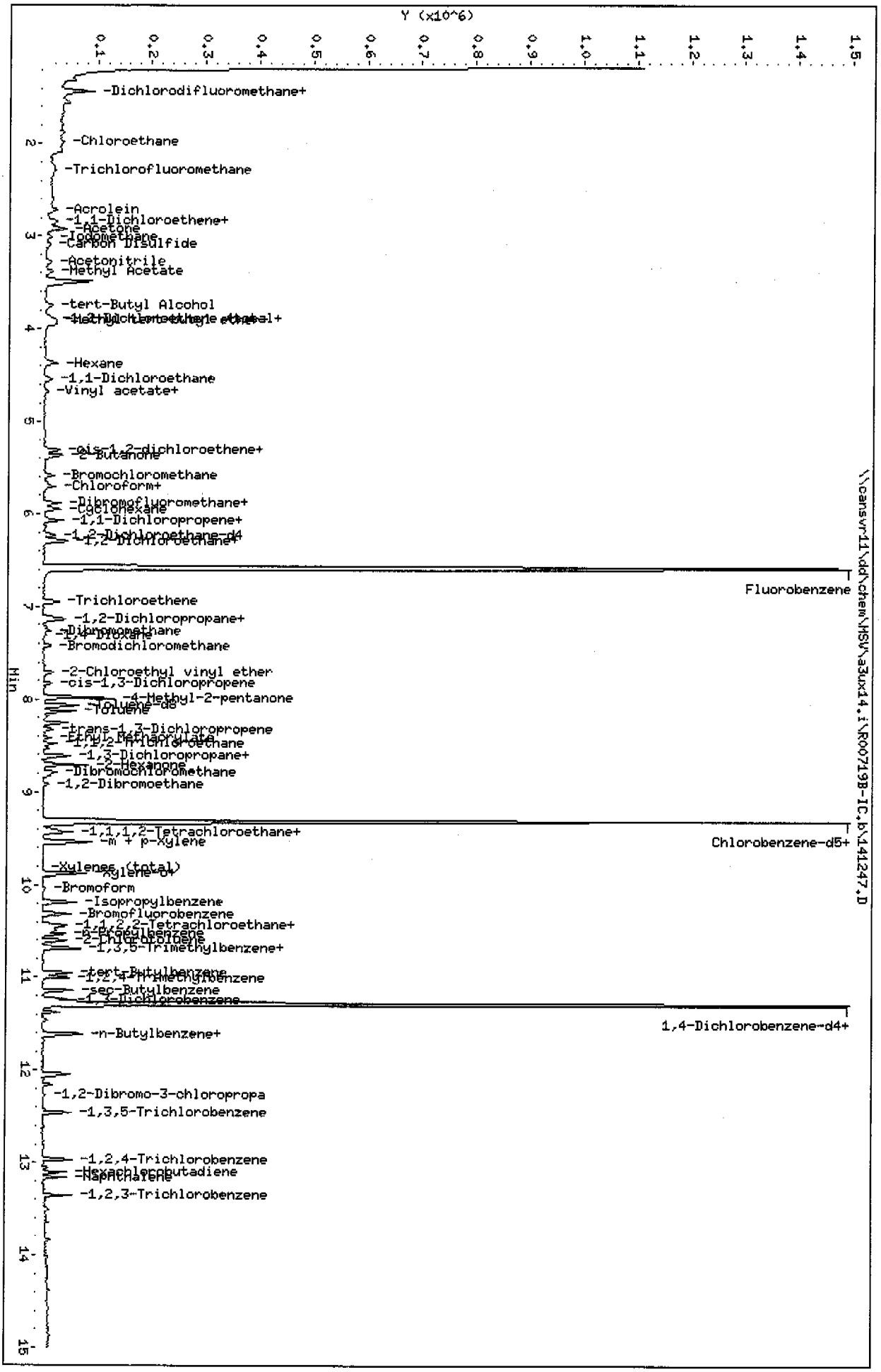
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141247.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,1-8260.SUB,2807,1,1

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1433010	-0.93
2 Chlorobenzene-d5	1109647	554824	2219294	1080764	-2.60
3 1,4-Dichlorobenze	627992	313996	1255984	643783	2.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
Min
-Dichlorodifluoromethane+
-Chloroethane
-Trichlorofluoromethane
-Acrolein
-1,1-Dichloroethene+
-Acetone
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-tert-Butyl Alcohol
-Hexane
-1,1-Dichloroethane
-Vinyl acetate+
-cis-1,2-dichloroethene+
-2-Butanone
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Cyclohexane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-1,4-Dioxane
-Bromodichloromethane
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m + p-Xylene
Chlorobenzene-d5+
-Xylenes (total)
-o-Xylene
-Bromoform
-Isopropylbenzene
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,3,5-Trichlorobenzene
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
Data File: \\cansvr11\dd\chem\HSV\a3ux14.i\R007198-IC.b\141247.D
Date : 19-JUL-2010 19:12
Client ID:
Sample Info: 5NC-IC
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
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Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141248.D
Report Date: 20-Jul-2010 08:50

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141248.D
Lab Smp Id: 1000NG-IC
Inj Date : 19-JUL-2010 19:33
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 1000NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,8
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:50 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 22:46 Cal File: 141257.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1515992	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1209724	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	711114	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	746109	1000.00	835.01

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141248.D
Report Date: 20-Jul-2010 08:50

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141248.D
Lab Smp Id: 1000NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 23:29
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,8

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1512209	756105	3024418	1515992	0.25
2 Chlorobenzene-d5	1126544	563272	2253088	1209724	7.38
3 1,4-Dichlorobenze	676554	338277	1353108	711114	5.11

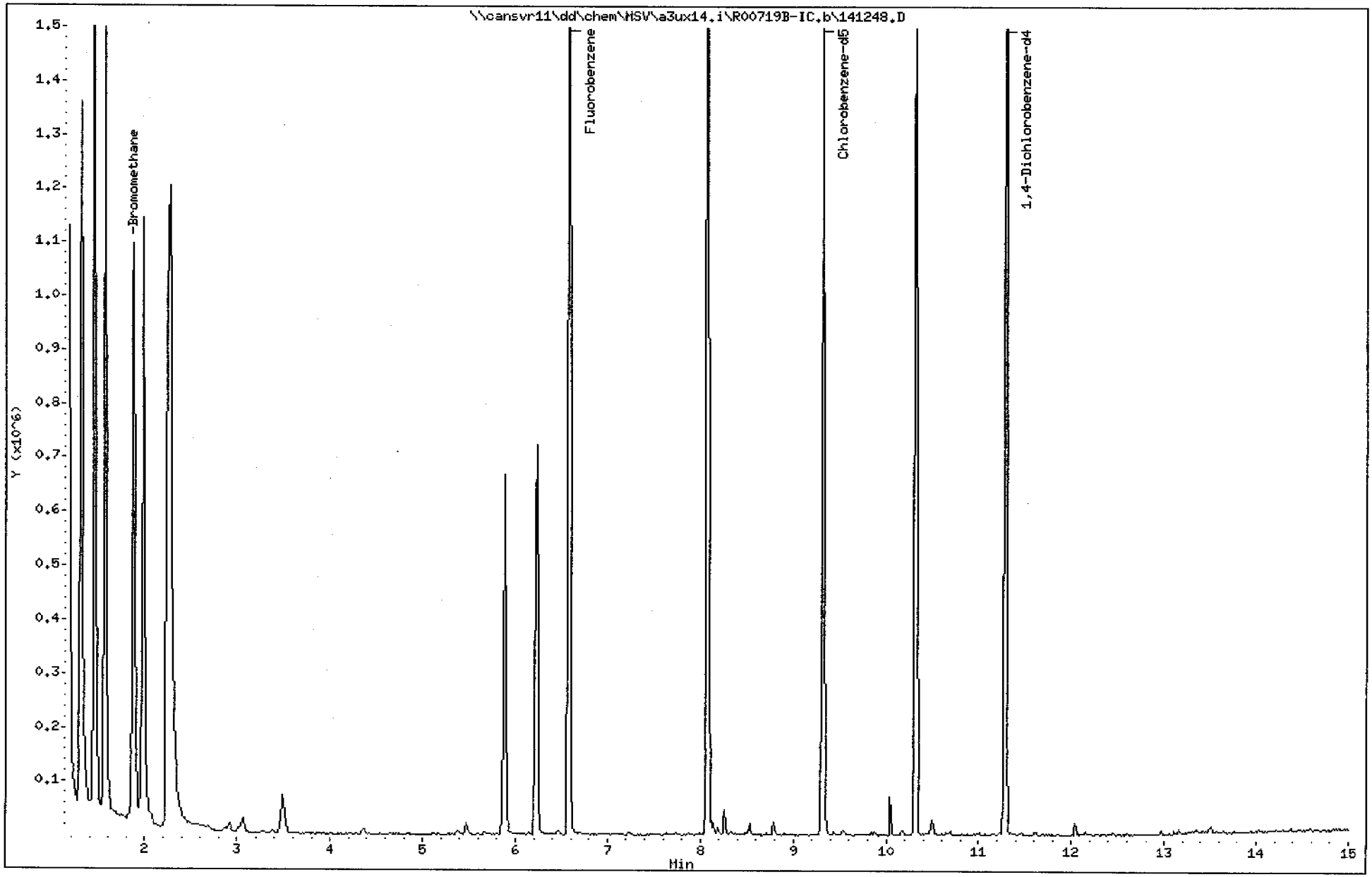
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141248.D
Date : 19-JUL-2010 19:33
Client ID:
Sample Info: 1000NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141249.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141249.D
Lab Smp Id: 500NG-IC
Inj Date : 19-JUL-2010 19:54
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 500NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,7
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 19:33 Cal File: 141248.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1437731	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1080244	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	643419	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	403311	500.000	569.98

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141249.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141249.D
Lab Smp Id: 500NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,7

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1437731	-0.60
2 Chlorobenzene-d5	1109647	554824	2219294	1080244	-2.65
3 1,4-Dichlorobenze	627992	313996	1255984	643419	2.46

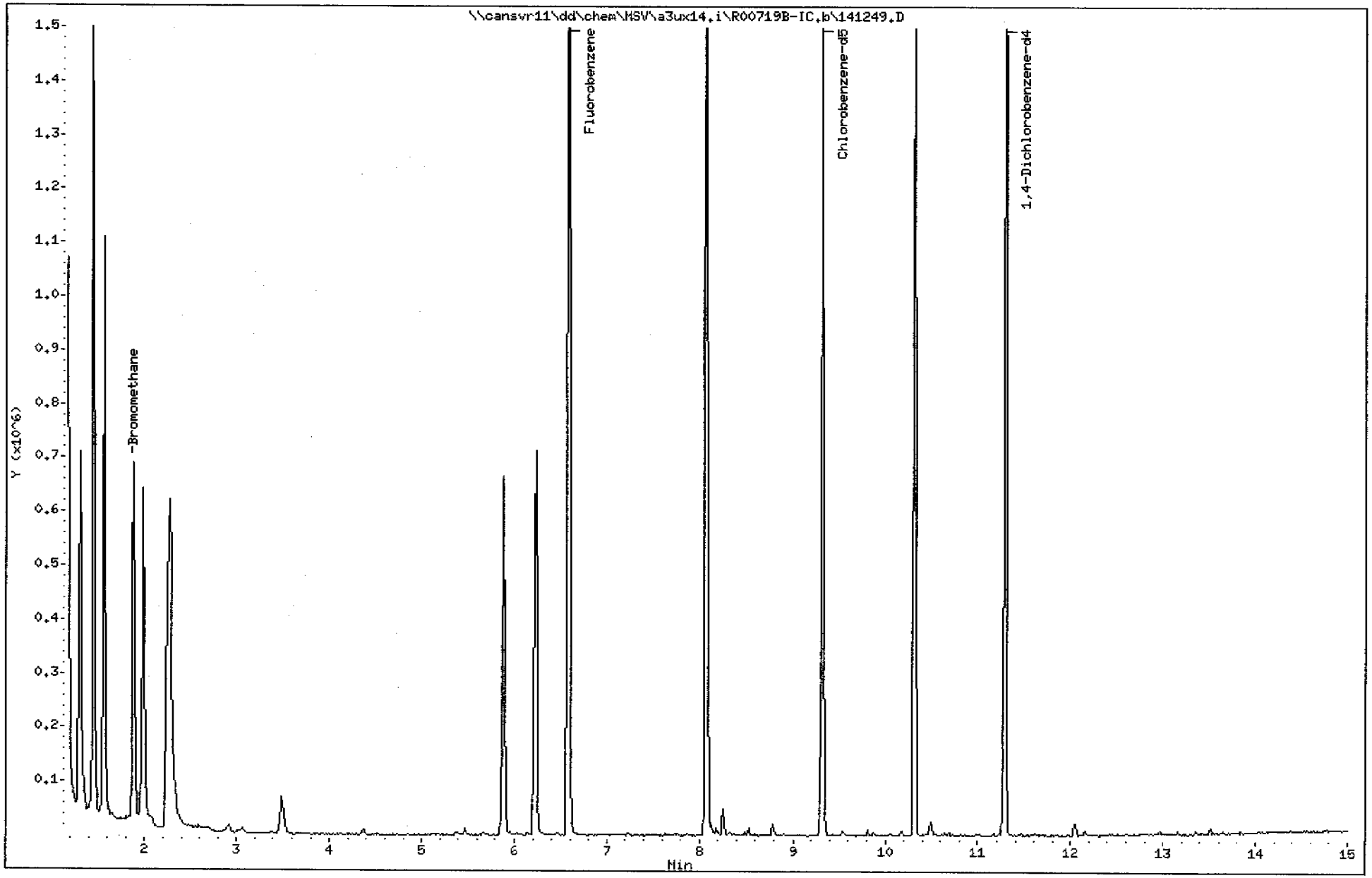
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141249.D
Date : 19-JUL-2010 19:54
Client ID:
Sample Info: 500NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141250.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141250.D
Lab Smp Id: 250NG-IC
Inj Date : 19-JUL-2010 20:16
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,6
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 19:54 Cal File: 141249.D
Als bottle: 12 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1437269	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1091980	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	640284	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	209463	250.000	276.75

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141250.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141250.D
Lab Smp Id: 250NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 20:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1437269	718635	2874538	1437269	0.00
2 Chlorobenzene-d5	1091980	545990	2183960	1091980	0.00
3 1,4-Dichlorobenze	640284	320142	1280568	640284	0.00

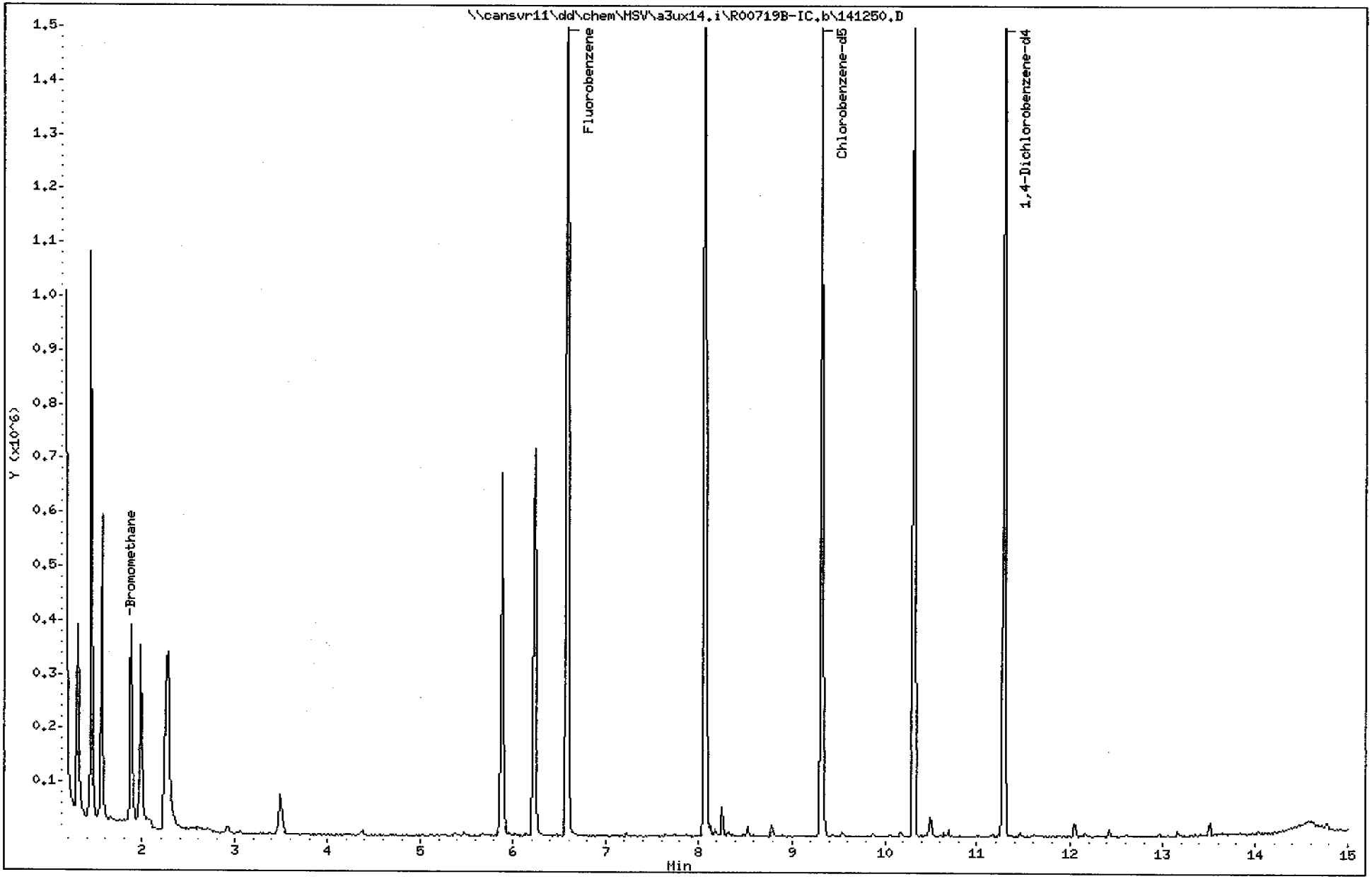
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141250.D
Date : 19-JUL-2010 20:16
Client ID:
Sample Info: 250NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



400

North Canton

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141251.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141251.D
Lab Smp Id: 100NG-IC
Inj Date : 19-JUL-2010 20:37
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 100NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,5
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 20:16 Cal File: 141250.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1430347	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1085470	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	633650	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	85158	100.000	109.16

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141251.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141251.D
Lab Smp Id: 100NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 20:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1437269	718635	2874538	1430347	-0.48
2 Chlorobenzene-d5	1091980	545990	2183960	1085470	-0.60
3 1,4-Dichlorobenze	640284	320142	1280568	633650	-1.04

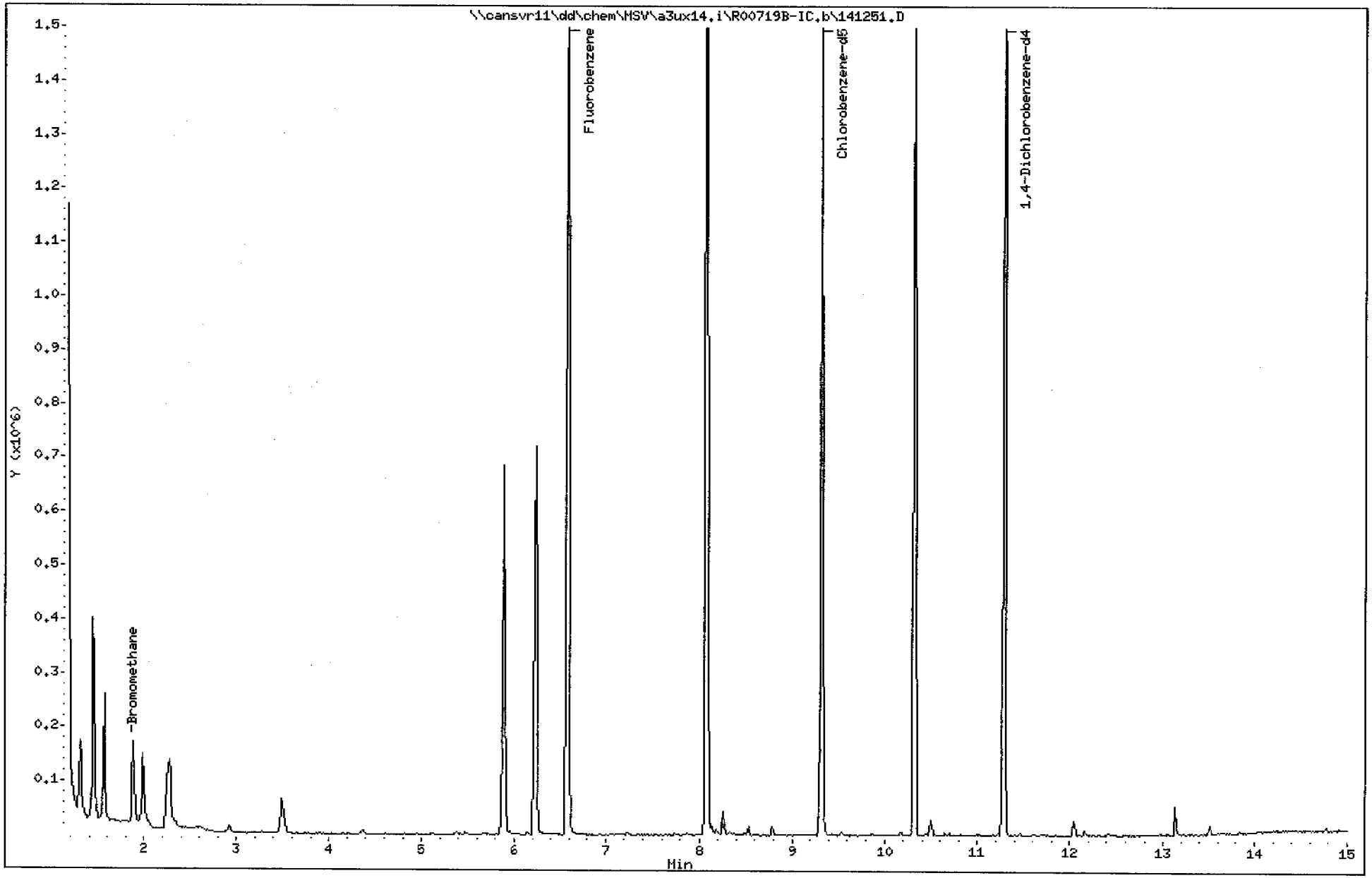
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141251.D
Date : 19-JUL-2010 20:37
Client ID:
Sample Info: 100NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141252.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141252.D
Lab Smp Id: 50NG-IC
Inj Date : 19-JUL-2010 20:59
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,4
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 20:37 Cal File: 141251.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1489573	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1191756	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	702855	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	42955	50.0000	51.691

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141252.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141252.D
Lab Smp Id: 50NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 20:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1437269	718635	2874538	1489573	3.64
2 Chlorobenzene-d5	1091980	545990	2183960	1191756	9.14
3 1,4-Dichlorobenze	640284	320142	1280568	702855	9.77

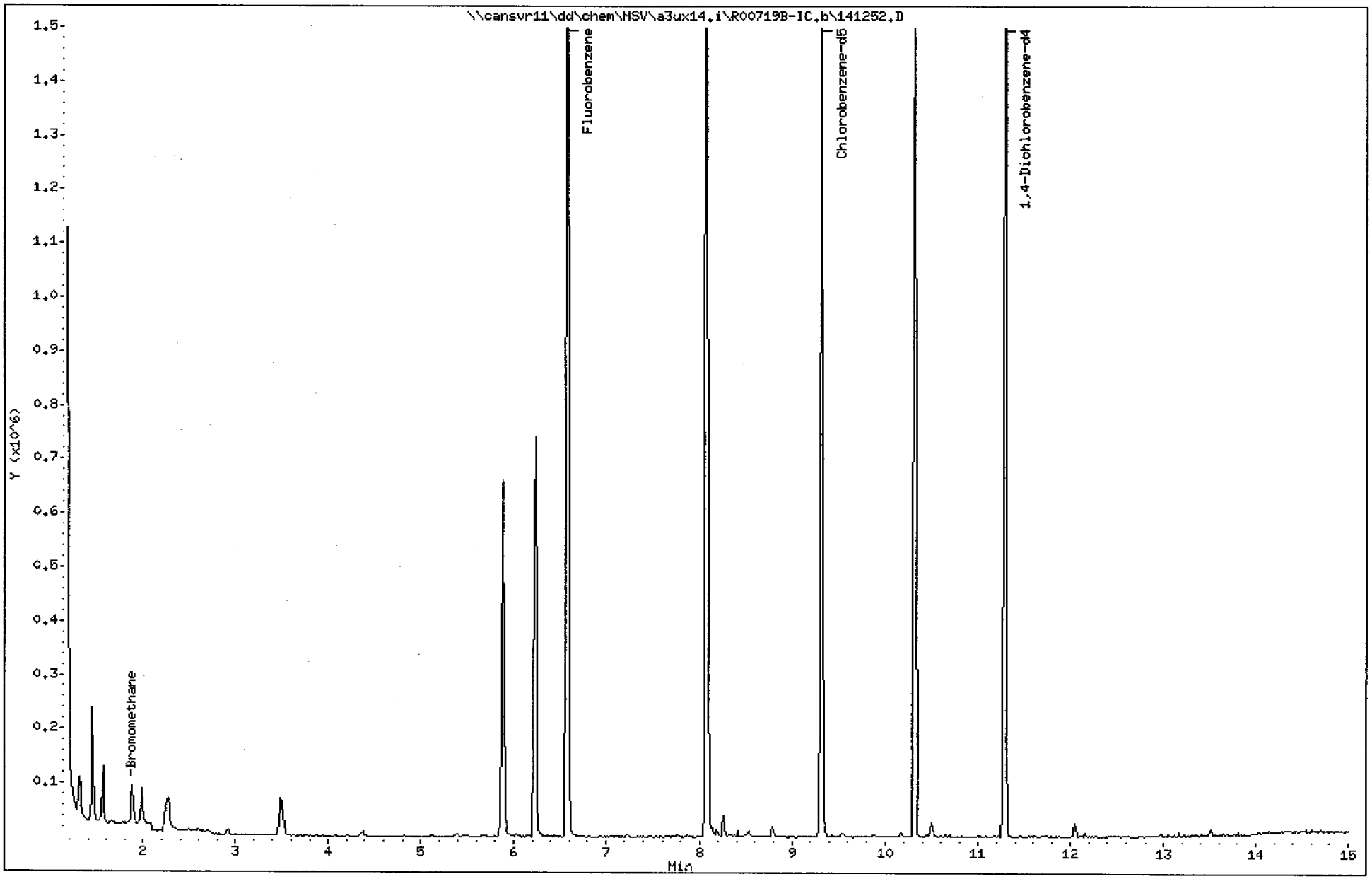
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141252.D
Date : 19-JUL-2010 20:59
Client ID:
Sample Info: 50NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141253.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141253.D
Lab Smp Id: 25NG-IC
Inj Date : 19-JUL-2010 21:20
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 25NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 20:59 Cal File: 141252.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1414899	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1067043	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	629086	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	23273	25.0000	29.286

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141253.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141253.D
Lab Smp Id: 25NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 20:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1437269	718635	2874538	1414899	-1.56
2 Chlorobenzene-d5	1091980	545990	2183960	1067043	-2.28
3 1,4-Dichlorobenze	640284	320142	1280568	629086	-1.75

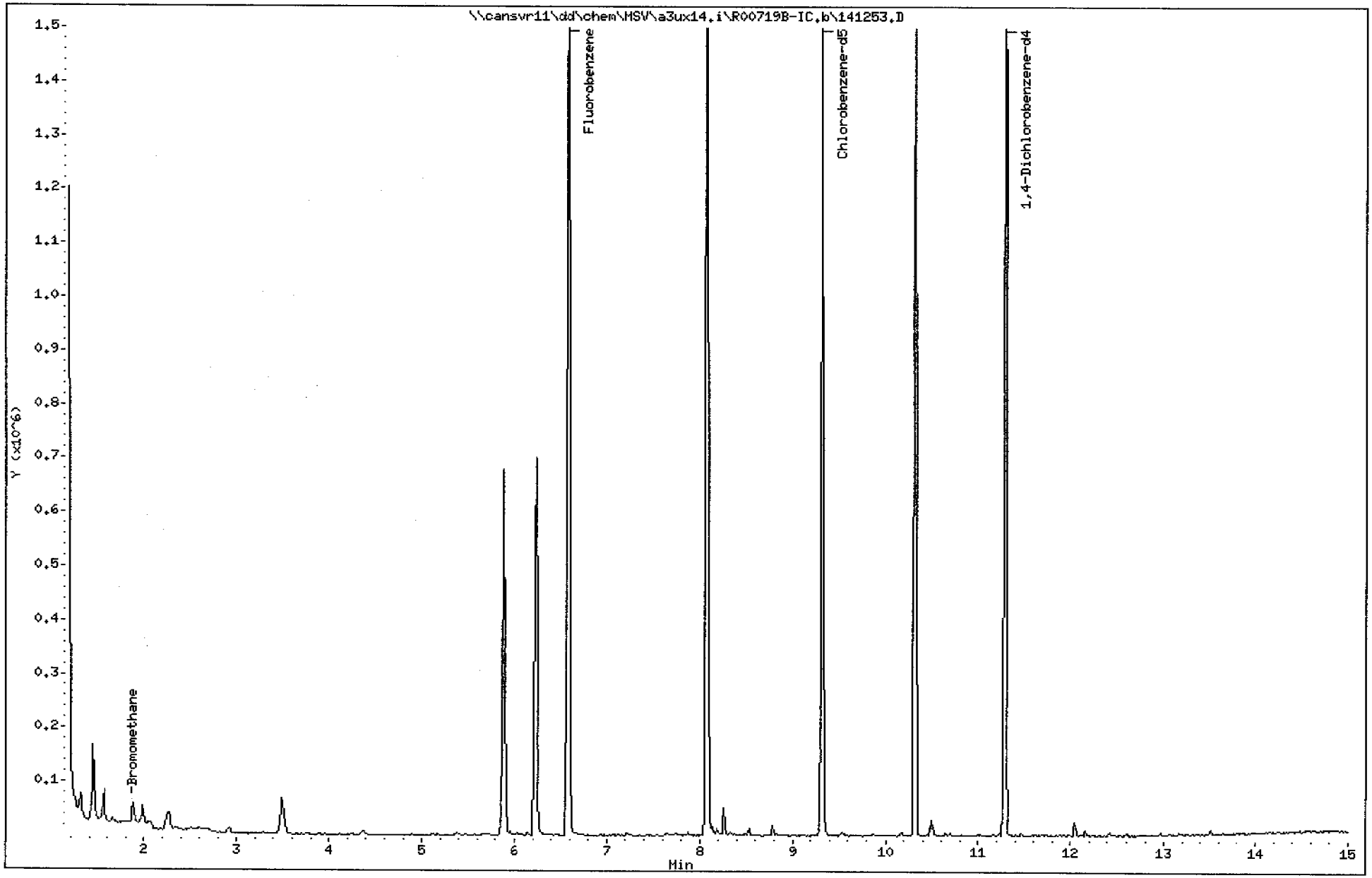
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141253.D
Date : 19-JUL-2010 21:20
Client ID:
Sample Info: 25NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



North Canton

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141254.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141254.D
Lab Smp Id: 10NG-IC
Inj Date : 19-JUL-2010 21:42
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 10NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,2
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 21:20 Cal File: 141253.D
Als bottle: 16 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1416970	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1093767	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	647473	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	8904	10.0000	10.877

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141254.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141254.D
Lab Smp Id: 10NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,2

Calibration Date: 19-JUL-2010
Calibration Time: 20:16
Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1437269	718635	2874538	1416970	-1.41
2 Chlorobenzene-d5	1091980	545990	2183960	1093767	0.16
3 1,4-Dichlorobenze	640284	320142	1280568	647473	1.12

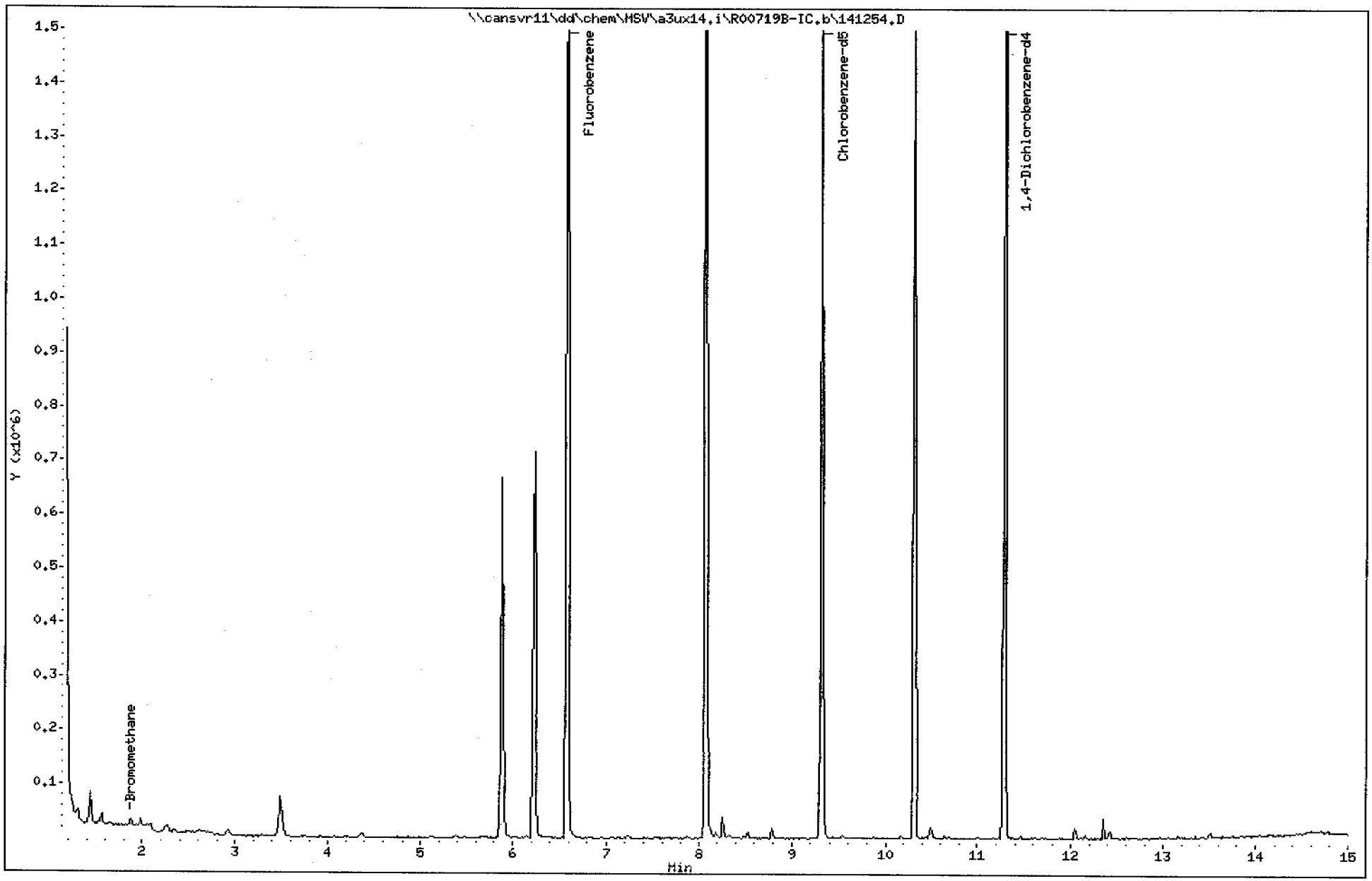
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141254.D
Date : 19-JUL-2010 21:42
Client ID:
Sample Info: 10NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141255.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141255.D
Lab Smp Id: 5NG-IC
Inj Date : 19-JUL-2010 22:03
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 5NG-IC
Misc Info : R00719B-IC,8260SUX14,BROMO.SUB,2807,1,1
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 08:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 21:42 Cal File: 141254.D
Als bottle: 17 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BROMO.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1478057	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1200896	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	691168	250.000	
11 Bromomethane	94	1.878	1.878	(0.285)	4587	5.00000	5.306

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141255.D
Report Date: 20-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141255.D
Lab Smp Id: 5NG-IC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 20:16
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,BROMO.SUB,2807,1,1

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1437269	718635	2874538	1478057	2.84
2 Chlorobenzene-d5	1091980	545990	2183960	1200896	9.97
3 1,4-Dichlorobenze	640284	320142	1280568	691168	7.95

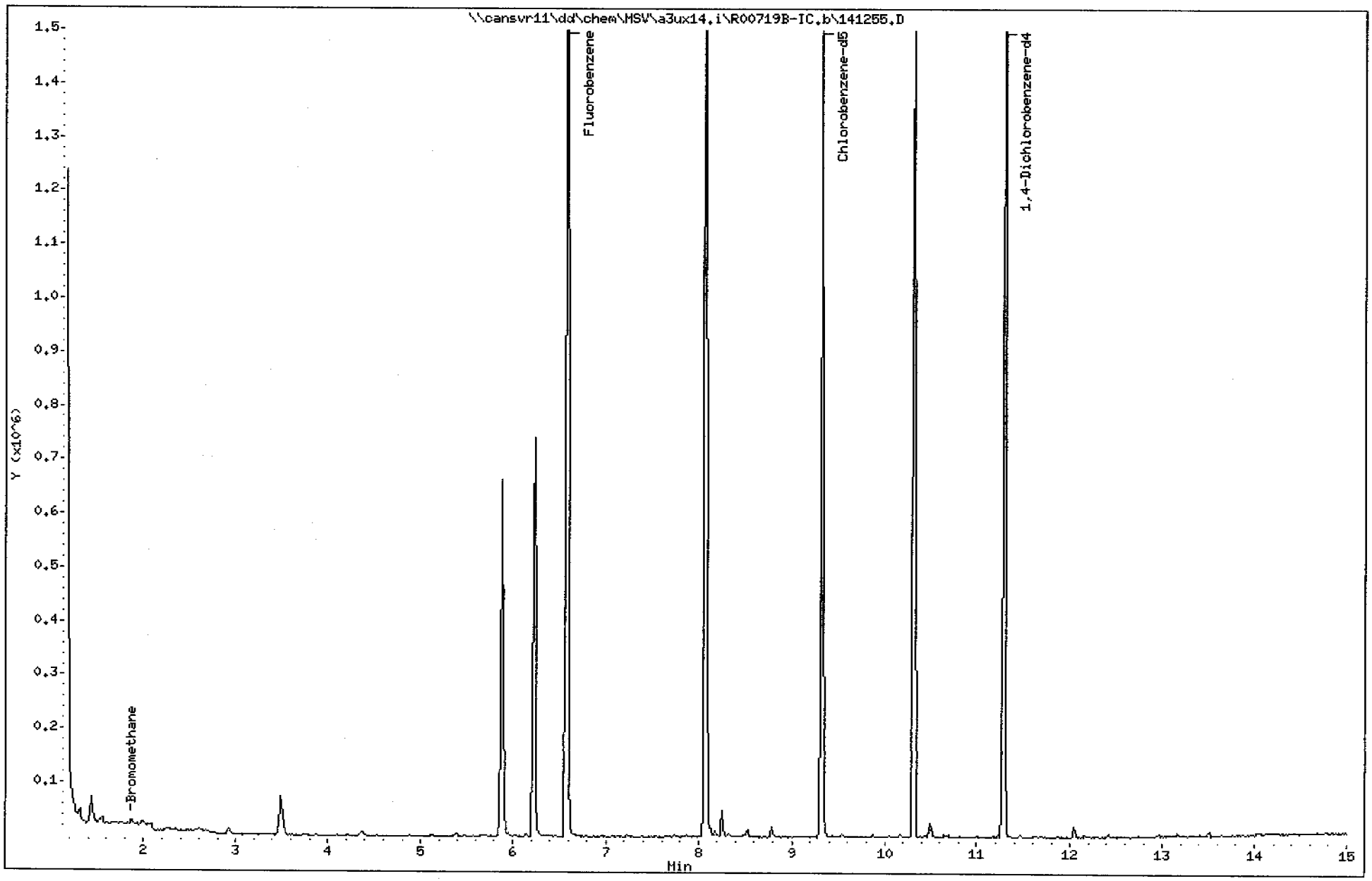
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141255.D
Date : 19-JUL-2010 22:03
Client ID:
Sample Info: 5NG-IC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i

Operator: 2807
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Report Date: 20-Jul-2010 09:09

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Lab Smp Id: ICV
Inj Date : 19-JUL-2010 22:25
Operator : 2807 Inst ID: a3ux14.i
Smp Info : ICV
Misc Info : R00719B-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 09:01 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 18 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
*	1 Fluorobenzene	96	6.587	6.587	(1.000)	1482340	250.000	
*	2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1148054	250.000	
*	3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	664075	250.000	
$	4 Dibromofluoromethane	113	5.889	5.889	(0.894)	446238	234.155	46.831
$	5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	456028	231.724	46.345
$	6 Toluene-d8	98	8.067	8.066	(0.865)	1480176	236.406	47.281
$	7 Bromofluorobenzene	95	10.315	10.315	(0.914)	495736	247.266	49.453
	8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	369068	258.428	51.686
	9 Chloromethane	50	1.452	1.440	(0.220)	775251	230.236	46.047
	10 Vinyl Chloride	62	1.558	1.558	(0.237)	485021	238.616	47.723
	11 Bromomethane	94	1.878	1.878	(0.285)	185247	212.025	42.405
	12 Chloroethane	64	1.984	1.984	(0.301)	237460	237.738	47.548
	13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	487204	254.769	50.954
	15 Acrolein	56	2.718	2.718	(0.413)	272436	871.472	174.29
	16 Acetone	43	2.919	2.919	(0.443)	338002	454.265	90.853
	17 1,1-Dichloroethene	96	2.848	2.836	(0.432)	374807	257.456	51.491
	18 Freon-113	151	2.872	2.872	(0.436)	435964	286.502	57.300
	19 Iodomethane	142	3.014	3.014	(0.458)	847624	274.474	54.895
	20 Carbon Disulfide	76	3.097	3.085	(0.470)	761443	228.560	45.712
	21 Methylene Chloride	84	3.487	3.488	(0.529)	382883	241.412	48.282
	22 Acetonitrile	41	3.274	3.274	(0.497)	185054	719.971	143.99
	23 Acrylonitrile	53	3.866	3.866	(0.587)	644667	758.460	151.69

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Report Date: 20-Jul-2010 09:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	844682	244.283	48.857
	25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	412289	252.280	50.456
	26 Hexane	86	4.375	4.375	(0.664)	94632	277.914	55.583
	27 Vinyl acetate	43	4.682	4.670	(0.711)	955702	284.242	56.848
	154 Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	50646	268.229	53.646 (A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	850692	254.221	50.844
	29 tert-Butyl Alcohol	59	3.748	3.747	(0.569)	712311	4933.37	986.67
	30 2-Butanone	43	5.357	5.357	(0.813)	478625	499.938	99.988
M	31 1,2-Dichloroethene (total)	96				846037	506.919	101.38
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	433748	254.640	50.928
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	190735	201.095	40.219
	34 Bromochloromethane	128	5.593	5.593	(0.849)	261395	250.504	50.101
	35 Chloroform	83	5.712	5.712	(0.867)	661572	252.009	50.402
	36 Tetrahydrofuran	42	5.653	5.653	(0.858)	171549	250.226	50.045
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	495700	241.624	48.325
	38 1,1-Dichloropropene	75	6.079	6.079	(0.923)	496385	261.906	52.381
	39 Carbon Tetrachloride	117	6.079	6.079	(0.923)	575821	249.141	49.828
	40 1,2-Dichloroethane	62	6.315	6.315	(0.959)	632598	253.815	50.763
	41 Benzene	78	6.292	6.292	(0.955)	1371162	253.445	50.689
	42 Trichloroethene	130	6.954	6.954	(1.056)	536218	250.493	50.098
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	431476	259.798	51.960
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	7.262	7.262	(1.102)	212202	260.142	52.028
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	398071	251.210	50.242
	47 2-Chloroethyl vinyl ether	63	7.712	7.711	(1.171)	185417	282.386	56.477
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	392588	234.807	46.961
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	966637	515.527	103.10
	50 Toluene	91	8.126	8.126	(0.872)	1461410	237.156	47.431
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	322051	216.400	43.280
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	260320	256.252	51.250
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	418356	260.136	52.027
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	400134	245.869	49.174
	56 2-Hexanone	43	8.705	8.705	(0.934)	572958	525.403	105.08
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	364775	253.771	50.754
	58 1,2-Dibromoethane	107	8.918	8.918	(0.957)	279448	259.357	51.871
	59 Chlorobenzene	112	9.344	9.344	(1.003)	1089266	249.797	49.959
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	457134	257.216	51.443
	61 Ethylbenzene	106	9.439	9.439	(1.013)	565201	253.727	50.745
	62 m + p-Xylene	106	9.534	9.534	(1.023)	1380257	510.218	102.04
M	63 Xylenes (total)	106				2091784	768.740	153.75
	64 Xylene-o	106	9.877	9.877	(1.060)	711527	258.522	51.704
	65 Styrene	104	9.889	9.889	(1.061)	1058823	263.492	52.698
	66 Bromoform	173	10.043	10.043	(1.077)	190267	219.395	43.879
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	1910710	259.778	51.956
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	298791	261.384	52.277
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	266786	532.466	106.49
	70 1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	119086	259.796	51.959
	71 Bromobenzene	156	10.445	10.445	(0.926)	495028	250.244	50.049
	72 n-Propylbenzene	120	10.528	10.540	(0.933)	561244	265.533	53.106
	73 2-Chlorotoluene	126	10.611	10.611	(0.940)	502170	249.639	49.928
	74 1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	1594006	265.299	53.060
	75 4-Chlorotoluene	126	10.693	10.693	(0.948)	478749	247.946	49.589
	76 tert-Butylbenzene	119	10.954	10.954	(0.971)	1605994	258.273	51.654

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Report Date: 20-Jul-2010 09:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	1604302	264.917	52.983
78	sec-Butylbenzene	105	11.143	11.143	(0.987)	2046477	264.425	52.885
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	1893085	272.371	54.474
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	944169	237.571	47.514
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	933555	230.332	46.066
82	n-Butylbenzene	91	11.605	11.604	(1.028)	1253307	254.229	50.846
83	1,2-Dichlorobenzene	146	11.616	11.628	(1.029)	932763	238.786	47.757
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	73777	220.295	44.059
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	640046	228.588	45.718
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	383667	240.289	48.058
87	Naphthalene	128	13.167	13.166	(1.167)	1556957	256.781	51.356
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	640407	233.752	46.750
146	2-Methylnaphthalene	142	14.030	14.031	(1.243)	1515	8.66830	1.734
89	Ethyl Ether	59	2.588	2.588	(0.393)	442443	260.304	52.061
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.718	4.718	(0.716)	351212	266.764	53.353
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.475	5.464	(0.831)	22699	12.5775	2.516
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.280	6.292	(0.953)	730436	16590.5	3318.1(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.256	10.256	(0.909)	338388	4434.79	886.96(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.948	5.948	(0.903)	1136055	263.975	52.795
143	Methyl Acetate	43	3.381	3.369	(0.513)	466274	246.247	49.249
144	Methylcyclohexane	83	7.132	7.132	(1.083)	699350	271.050	54.210
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.356	11.357	(1.006)	1659983	287.723	57.545(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Report Date: 20-Jul-2010 09:09

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Lab Smp Id: ICV
Inj Date : 19-JUL-2010 22:25
Operator : 2807 Inst ID: a3ux14.i
Smp Info : ICV
Misc Info : R00719B-IC,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Meth Date : 20-Jul-2010 09:01 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 18 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV26

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Report Date: 20-Jul-2010 09:09

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141256.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 19-JUL-2010
Calibration Time: 17:25
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,,2807,3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1446421	723211	2892842	1482340	2.48
2 Chlorobenzene-d5	1109647	554824	2219294	1148054	3.46
3 1,4-Dichlorobenze	627992	313996	1255984	664075	5.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Report Date: 20-Jul-2010 09:09

TestAmerica North Canton

RECOVERY REPORT

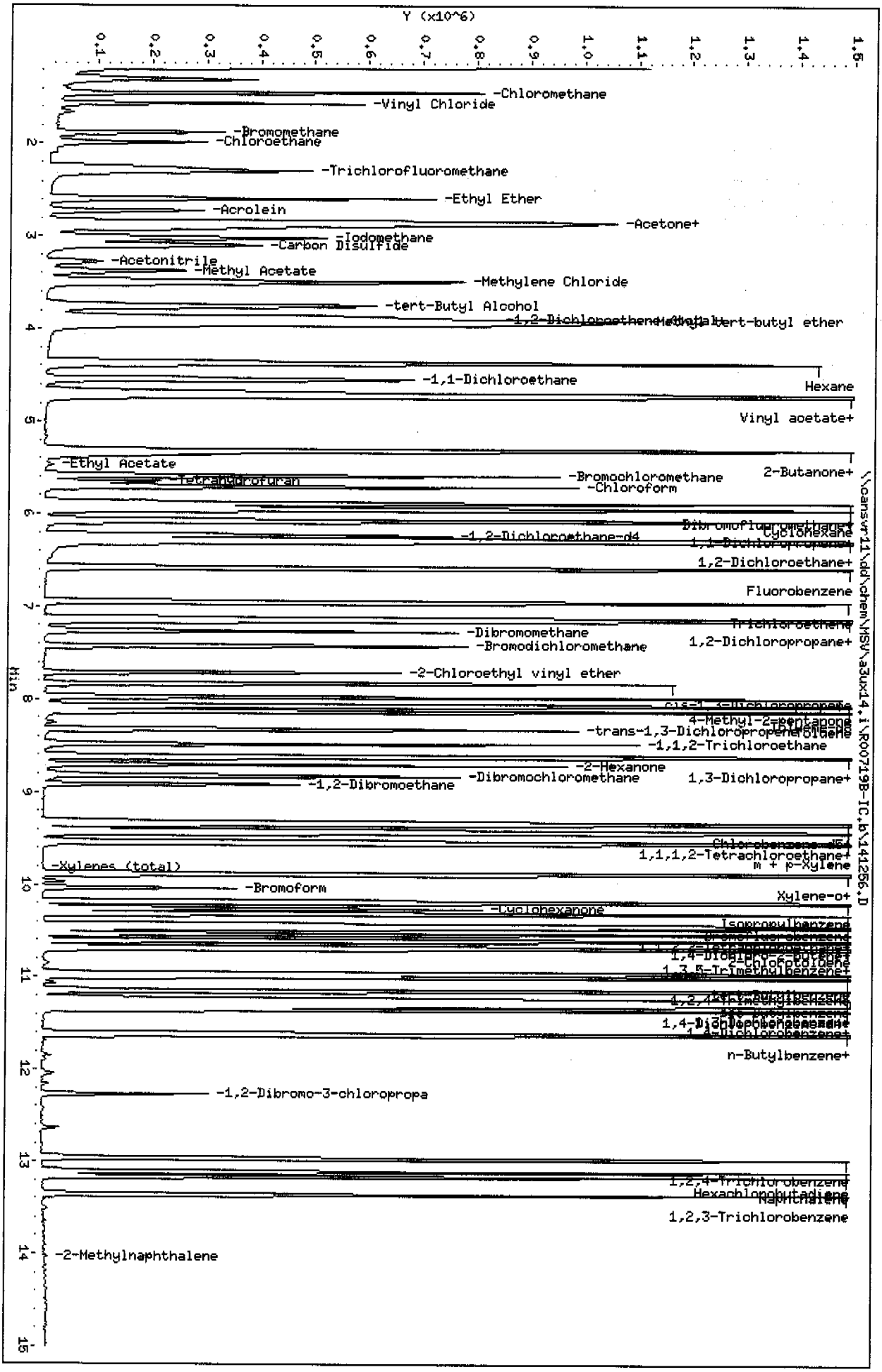
Client Name:
Client SDG: SDGa00468
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: ICV
Level: LOW
Operator: 2807
Data Type: MS DATA
SampleType: METHSPIKE
SpikeList File: DODICV.spk
Quant Type: ISTD
Sublist File: 4-8260+IX.sub
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\8260SUX14.m
Misc Info: R00719B-IC,8260SUX14,,2807,3

SPIKE	COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
17	1,1-Dichloroethene	50.000	51.491	102.98	55-142
42	Trichloroethene	50.000	50.098	100.20	70-131
41	Benzene	50.000	50.689	101.38	75-129
50	Toluene	50.000	47.431	94.86	71-130
59	Chlorobenzene	50.000	49.959	99.92	75-127
60	1,1,1,2-Tetrachlor	50.000	51.443	102.89	75-125
37	1,1,1-Trichloroeth	50.000	48.325	96.65	75-125
68	1,1,2,2-Tetrachlor	50.000	52.277	104.55	75-125
53	1,1,2-Trichloroeth	50.000	51.250	102.50	75-125
28	1,1-Dichloroethane	50.000	50.844	101.69	75-125
38	1,1-Dichloropropen	50.000	52.381	104.76	75-125
88	1,2,3-Trichloroben	50.000	46.750	93.50	75-125
70	1,2,3-Trichloropro	50.000	51.959	103.92	75-125
85	1,2,4-Trichloroben	50.000	45.718	91.44	75-125
77	1,2,4-Trimethylben	50.000	52.983	105.97	75-125
84	1,2-Dibromo-3-chlo	50.000	44.059	88.12	75-125
58	1,2-Dibromoethane	50.000	51.871	103.74	75-125
83	1,2-Dichlorobenzen	50.000	47.757	95.51	75-125
40	1,2-Dichloroethane	50.000	50.763	101.53	75-125
43	1,2-Dichloropropan	50.000	51.960	103.92	75-125
74	1,3,5-Trimethylben	50.000	53.060	106.12	75-125
80	1,3-Dichlorobenzen	50.000	47.514	95.03	75-125
54	1,3-Dichloropropan	50.000	52.027	104.05	75-125
81	1,4-Dichlorobenzen	50.000	46.066	92.13	75-125
33	2,2-Dichloropropan	50.000	40.219	80.44	75-125
30	2-Butanone	100.00	99.988	99.99	75-125
73	2-Chlorotoluene	50.000	49.928	99.86	75-125
56	2-Hexanone	100.00	105.08	105.08	75-125
75	4-Chlorotoluene	50.000	49.589	99.18	75-125
49	4-Methyl-2-pentano	100.00	103.10	103.11	75-125
16	Acetone	100.00	90.853	90.85	75-125
71	Bromobenzene	50.000	50.049	100.10	75-125
34	Bromochloromethane	50.000	50.101	100.20	75-125
46	Bromodichlorometha	50.000	50.242	100.48	75-125
66	Bromoform	50.000	43.879	87.76	75-125
11	Bromomethane	50.000	42.405	84.81	75-125
20	Carbon Disulfide	50.000	45.712	91.42	75-125
39	Carbon Tetrachlori	50.000	49.828	99.66	75-125
57	Dibromochlorometha	50.000	50.754	101.51	75-125
12	Chloroethane	50.000	47.548	95.10	75-125

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Report Date: 20-Jul-2010 09:09

	SPIKE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
	35 Chloroform	50.000	50.402	100.80	75-125
	9 Chloromethane	50.000	46.047	92.09	75-125
	32 cis-1,2-dichloroet	50.000	50.928	101.86	75-125
	48 cis-1,3-Dichloropr	50.000	46.961	93.92	75-125
	45 Dibromomethane	50.000	52.028	104.06	75-125
	8 Dichlorodifluorome	50.000	51.686	103.37	75-125
	61 Ethylbenzene	50.000	50.745	101.49	75-125
	86 Hexachlorobutadien	50.000	48.058	96.12	75-125
	67 Isopropylbenzene	50.000	51.956	103.91	75-125
	62 m + p-Xylene	100.00	102.04	102.04	75-125
	21 Methylene Chloride	50.000	48.282	96.56	75-125
	87 Naphthalene	50.000	51.356	102.71	75-125
	82 n-Butylbenzene	50.000	50.846	101.69	75-125
	72 n-Propylbenzene	50.000	53.106	106.21	75-125
	64 Xylene-o	50.000	51.704	103.41	75-125
	79 4-Isopropyltoluene	50.000	54.474	108.95	75-125
	78 sec-Butylbenzene	50.000	52.885	105.77	75-125
	65 Styrene	50.000	52.698	105.40	75-125
	76 tert-Butylbenzene	50.000	51.654	103.31	75-125
	55 Tetrachloroethene	50.000	49.174	98.35	75-125
	25 trans-1,2-Dichloro	50.000	50.456	100.91	75-125
	51 trans-1,3-Dichloro	50.000	43.280	86.56	75-125
	13 Trichlorofluoromet	50.000	50.954	101.91	75-125
	10 Vinyl Chloride	50.000	47.723	95.45	75-125
	27 Vinyl acetate	50.000	56.848	113.70	75-125
	154 Vinyl Acetate**2nd	50.000	53.646	107.29	75-125
	19 Iodomethane	50.000	54.895	109.79	75-125
	92 Isopropyl Ether	50.000	53.353	106.71	75-125
	24 Methyl tert-butyl	50.000	48.857	97.71	75-125
M	63 Xylenes (total)	150.00	153.75	102.50	75-125
	22 Acetonitrile	150.00	143.99	96.00	75-125
	15 Acrolein	150.00	174.29	116.20	75-125
	23 Acrylonitrile	150.00	151.69	101.13	75-125
	47 2-Chloroethyl viny	50.000	56.477	112.95	75-125
	98 Cyclohexane	50.000	52.795	105.59	75-125
M	31 1,2-Dichloroethene	100.00	101.38	101.38	75-125
	26 Hexane	50.000	55.583	111.17	75-125
	143 Methyl Acetate	50.000	49.249	98.50	75-125
	144 Methylcyclohexane	50.000	54.210	108.42	75-125
	18 Freon-113	50.000	57.300	114.60	75-125
	25 Cyclohexanone	500.00	886.96	177.39*	75-125

	SURROGATE COMPOUND	CONC ADDED UG/KG	CONC RECOVERED UG/KG	% RECOVERED	LIMITS
$	4 Dibromofluorometha	50.000	46.831	93.66	59-138
$	5 1,2-Dichloroethane	50.000	46.345	92.69	61-130
$	6 Toluene-d8	50.000	47.281	94.56	60-143
$	7 Bromofluorobenzene	50.000	49.453	98.91	47-158



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141256.D
Date : 19-JUL-2010 22:25
Client ID:
Sample Info: ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

Report Date: 29-Jul-2010 11:49

Calibration History

Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Start Cal Date: 19-JUL-2010 16:42
End Cal Date : 20-JUL-2010 01:16
Last Cal Level: 6
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
20-JUL-2010 01:16	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141264.D
19-JUL-2010 22:03	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141255.D
19-JUL-2010 19:12	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141247.D
Cal Level: 2 , Cal Amount: 10.00000		
20-JUL-2010 00:54	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141263.D
19-JUL-2010 21:42	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141254.D
19-JUL-2010 18:50	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141246.D
Cal Level: 3 , Cal Amount: 25.00000		
20-JUL-2010 00:33	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141262.D
19-JUL-2010 21:20	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141253.D
19-JUL-2010 18:29	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141245.D
Cal Level: 4 , Cal Amount: 50.00000		
20-JUL-2010 00:12	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141261.D
19-JUL-2010 20:59	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141252.D
19-JUL-2010 18:07	1-8260	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141244.D
Cal Level: 5 , Cal Amount: 100.00000		
19-JUL-2010 23:50	3-IX	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141260.D
19-JUL-2010 20:37	BROMO	\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141251.D

19-JUL-2010 17:46	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141243.D		

Cal Level: 6 , Cal Amount: 250.00000		
19-JUL-2010 23:29	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141259.D		
19-JUL-2010 20:16	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141250.D		
19-JUL-2010 17:25	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141242.D		

Cal Level: 7 , Cal Amount: 500.00000		
19-JUL-2010 23:07	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141258.D		
19-JUL-2010 19:54	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141249.D		
19-JUL-2010 17:03	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141241.D		

Cal Level: 8 , Cal Amount: 1000.00000		
19-JUL-2010 22:46	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141257.D		
19-JUL-2010 19:33	BROMO	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141248.D		
19-JUL-2010 16:42	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\141240.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

29-JUL-2010 10:55	1-8260	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D		
29-JUL-2010 11:16	3-IX	
\\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141503.D		

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Report Date: 29-Jul-2010 11:49

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 29-JUL-2010 10:55
Lab File ID: 141502.D Init. Cal. Date(s): 19-JUL-2010 20-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 16:42 01:16
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Dibromofluoromethane	0.32141	0.29647	0.29647	0.010	7.75718	50.00000	Averaged	
$ 5 1,2-Dichloroethane-d4	0.33190	0.28253	0.28253	0.010	14.87507	50.00000	Averaged	
$ 6 Toluene-d8	1.36343	1.37631	1.37631	0.010	-0.94500	50.00000	Averaged	
$ 7 Bromofluorobenzene	0.75476	0.77128	0.77128	0.010	-2.18820	50.00000	Averaged	
8 Dichlorodifluoromethane	0.24086	0.25330	0.25330	0.010	-5.16745	50.00000	Averaged	
9 Chloromethane	0.56789	0.50805	0.50805	0.100	10.53678	50.00000	Averaged	
10 Vinyl Chloride	0.34281	0.32614	0.32614	0.010	4.86199	20.00000	Averaged	
11 Bromomethane	0.14735	0.12948	0.12948	0.010	12.12921	50.00000	Averaged	
12 Chloroethane	0.16845	0.15958	0.15958	0.010	5.27127	50.00000	Averaged	
13 Trichlorofluoromethane	0.32252	0.30668	0.30668	0.010	4.91238	50.00000	Averaged	
15 Acrolein	0.05272	0.03061	0.03061	0.010	41.94471	50.00000	Averaged	
16 Acetone	500	427	0.10762	0.010	14.65079	0.000e+000	Quadratic	
17 1,1-Dichloroethene	0.24553	0.26344	0.26344	0.010	-7.29561	20.00000	Averaged	
18 Freon-113	0.25663	0.24725	0.24725	0.010	3.65487	50.00000	Averaged	
19 Iodomethane	0.52083	0.48513	0.48513	0.010	6.85349	50.00000	Averaged	
20 Carbon Disulfide	0.56186	0.55325	0.55325	0.010	1.53322	50.00000	Averaged	
22 Acetonitrile	0.04335	0.03801	0.03801	0.010	12.31830	50.00000	Averaged	
23 Acrylonitrile	0.14335	0.11788	0.11788	0.010	17.76813	50.00000	Averaged	
24 Methyl tert-butyl ether	0.58317	0.59297	0.59297	0.010	-1.68165	50.00000	Averaged	
25 trans-1,2-Dichloroethene	0.27562	0.29886	0.29886	0.010	-8.43014	50.00000	Averaged	
26 Hexane	0.05743	0.06275	0.06275	0.010	-9.27610	20.00000	Averaged	
27 Vinyl acetate	0.56706	0.31223	0.31223	0.010	44.93912	50.00000	Averaged	
154 Vinyl Acetate**2nd**	0.03184	0.01967	0.01967	0.010	38.24486	50.00000	Averaged	
28 1,1-Dichloroethane	0.56436	0.54843	0.54843	0.100	2.82203	50.00000	Averaged	
29 tert-Butyl Alcohol	0.02435	0.02099	0.02099	0.010	13.81536	50.00000	Averaged	
30 2-Butanone	0.16146	0.13004	0.13004	0.010	19.46342	50.00000	Averaged	
M 31 1,2-Dichloroethene (total)	0.28145	0.30174	0.30174	0.010	-7.21004	50.00000	Averaged	
32 cis-1,2-dichloroethene	0.28728	0.30463	0.30463	0.010	-6.03946	50.00000	Averaged	
33 2,2-Dichloropropane	0.15996	0.16569	0.16569	0.010	-3.58260	50.00000	Averaged	
34 Bromochloromethane	0.17598	0.16827	0.16827	0.010	4.38226	50.00000	Averaged	
35 Chloroform	0.44274	0.44765	0.44765	0.010	-1.10706	20.00000	Averaged	
36 Tetrahydrofuran	0.11562	0.10030	0.10030	0.010	13.25071	50.00000	Averaged	
37 1,1,1-Trichloroethane	0.34600	0.36182	0.36182	0.010	-4.57437	50.00000	Averaged	
38 1,1-Dichloropropene	0.31964	0.36619	0.36619	0.010	-14.56346	50.00000	Averaged	
39 Carbon Tetrachloride	0.38979	0.38718	0.38718	0.010	0.67061	50.00000	Averaged	
40 1,2-Dichloroethane	0.42034	0.37398	0.37398	0.010	11.03038	50.00000	Averaged	
41 Benzene	0.91242	0.99381	0.99381	0.010	-8.91966	50.00000	Averaged	
42 Trichloroethene	0.36103	0.35054	0.35054	0.010	2.90507	50.00000	Averaged	
43 1,2-Dichloropropane	0.28010	0.27071	0.27071	0.010	3.35310	20.00000	Averaged	
44 1,4-Dioxane	0.00191	0.00196	0.00196	0.010	-2.51701	50.00000	Averaged	<-
45 Dibromomethane	0.13757	0.13366	0.13366	0.010	2.84073	50.00000	Averaged	
46 Bromodichloromethane	0.26725	0.26008	0.26008	0.010	2.68432	50.00000	Averaged	
47 2-Chloroethyl vinyl ether	0.11074	0.09525	0.09525	0.010	13.98595	50.00000	Averaged	

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Report Date: 29-Jul-2010 11:49

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 29-JUL-2010 10:55
Lab File ID: 141502.D Init. Cal. Date(s): 19-JUL-2010 20-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 16:42 01:16
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 cis-1,3-Dichloropropene	0.28198	0.28857	0.28857	0.010	-2.33775	50.00000	Averaged
49 4-Methyl-2-pentanone	0.40831	0.36832	0.36832	0.010	9.79469	50.00000	Averaged
50 Toluene	1.34189	1.41436	1.41436	0.010	-5.40101	20.00000	Averaged
51 trans-1,3-Dichloropropene	250	233	0.30239	0.010	6.81020	0.000e+000	Wt Linear
52 Ethyl Methacrylate	0.23820	0.25786	0.25786	0.010	-8.25338	50.00000	Averaged
53 1,1,2-Trichloroethane	0.22122	0.23895	0.23895	0.010	-8.01707	50.00000	Averaged
54 1,3-Dichloropropane	0.35021	0.37777	0.37777	0.010	-7.87138	50.00000	Averaged
55 Tetrachloroethene	0.35439	0.35946	0.35946	0.010	-1.43146	50.00000	Averaged
56 2-Hexanone	0.23747	0.20353	0.20353	0.010	14.29079	50.00000	Averaged
57 Dibromochloromethane	0.31301	0.30044	0.30044	0.010	4.01763	50.00000	Averaged
58 1,2-Dibromoethane	0.23463	0.24409	0.24409	0.010	-4.03175	50.00000	Averaged
59 Chlorobenzene	0.94957	0.99029	0.99029	0.300	-4.28904	50.00000	Averaged
60 1,1,1,2-Tetrachloroethane	0.38701	0.39779	0.39779	0.010	-2.78573	50.00000	Averaged
61 Ethylbenzene	0.48508	0.53656	0.53656	0.010	-10.61321	20.00000	Averaged
62 m + p-Xylene	0.58909	0.65553	0.65553	0.010	-11.27797	50.00000	Averaged
M 63 Xylenes (total)	0.59251	0.66101	0.66101	0.010	-11.56244	50.00000	Averaged
64 Xylene-o	0.59934	0.67199	0.67199	0.010	-12.12166	50.00000	Averaged
65 Styrene	0.87505	0.97641	0.97641	0.010	-11.58312	50.00000	Averaged
66 Bromoform	0.18885	0.14691	0.14691	0.100	22.20564	50.00000	Averaged
67 Isopropylbenzene	1.60166	1.84342	1.84342	0.010	-15.09437	50.00000	Averaged
68 1,1,2,2-Tetrachloroethane	0.43034	0.48355	0.48355	0.300	-12.36406	50.00000	Averaged
69 1,4-Dichloro-2-butene	0.18862	0.16995	0.16995	0.010	9.90024	50.00000	Averaged
70 1,2,3-Trichloropropane	0.17256	0.17467	0.17467	0.010	-1.22131	50.00000	Averaged
71 Bromobenzene	0.74471	0.75613	0.75613	0.010	-1.53366	50.00000	Averaged
72 n-Propylbenzene	0.79571	0.88763	0.88763	0.010	-11.55130	50.00000	Averaged
73 2-Chlorotoluene	0.75729	0.79953	0.79953	0.010	-5.57766	50.00000	Averaged
74 1,3,5-Trimethylbenzene	2.26192	2.62923	2.62923	0.010	-16.23874	50.00000	Averaged
75 4-Chlorotoluene	0.72690	0.75740	0.75740	0.010	-4.19619	50.00000	Averaged
76 tert-Butylbenzene	2.34093	2.55919	2.55919	0.010	-9.32361	50.00000	Averaged
77 1,2,4-Trimethylbenzene	2.27982	2.57331	2.57331	0.010	-12.87355	50.00000	Averaged
78 sec-Butylbenzene	2.91358	3.42518	3.42518	0.010	-17.55920	50.00000	Averaged
79 4-Isopropyltoluene	2.61657	2.97059	2.97059	0.010	-13.52990	50.00000	Averaged
80 1,3-Dichlorobenzene	1.49616	1.50800	1.50800	0.010	-0.79089	50.00000	Averaged
81 1,4-Dichlorobenzene	1.52584	1.50807	1.50807	0.010	1.16457	50.00000	Averaged
82 n-Butylbenzene	1.85590	2.19005	2.19005	0.010	-18.00484	50.00000	Averaged
83 1,2-Dichlorobenzene	1.47057	1.47849	1.47849	0.010	-0.53889	50.00000	Averaged
84 1,2-Dibromo-3-chloropropane	0.12608	0.10472	0.10472	0.010	16.94080	50.00000	Averaged
85 1,2,4-Trichlorobenzene	1.05410	1.00827	1.00827	0.010	4.34756	50.00000	Averaged
87 Naphthalene	2.28264	2.29537	2.29537	0.010	-0.55797	50.00000	Averaged
86 Hexachlorobutadiene	0.60109	0.55223	0.55223	0.010	8.12859	50.00000	Averaged
88 1,2,3-Trichlorobenzene	1.03139	0.94885	0.94885	0.010	8.00292	50.00000	Averaged
98 Cyclohexane	0.72582	0.70785	0.70785	0.010	2.47504	50.00000	Averaged
143 Methyl Acetate	0.31935	0.28603	0.28603	0.010	10.43410	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Report Date: 29-Jul-2010 11:49

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a3ux14.i Injection Date: 29-JUL-2010 10:55
Lab File ID: 141502.D Init. Cal. Date(s): 19-JUL-2010 20-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 16:42 01:16
Lab Sample ID: 250NG-CC Quant Type: ISTD
Method: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m

COMPOUND	RRF / AMOUNT	RF250	CCAL RRF250	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
144 Methylcyclohexane	0.43515	0.51072	0.51072	0.010	-17.36680	50.00000	Averaged
141 1,3,5-Trichlorobenzene	1.16519	1.16661	1.16661	0.010	-0.12191	50.00000	Averaged

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Report Date: 29-Jul-2010 11:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Lab Smp Id: 250NG-CC
Inj Date : 29-JUL-2010 10:55
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 250NG-CC
Misc Info : R00729A,8260SUX14,1-8260.SUB,2807,2
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 a3ux14.i Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8260.SUB
Target Version: 4.14
Processing Host: CANPMSV26

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1564159	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1117515	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	636663	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	463734	250.000	230.61
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	441927	250.000	212.81
$ 6 Toluene-d8	98	8.066	8.066	(0.865)	1538048	250.000	252.36
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	491043	250.000	255.47
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	396206	250.000	262.92
9 Chloromethane	50	1.452	1.452	(0.220)	794669	250.000	223.66
10 Vinyl Chloride	62	1.558	1.558	(0.237)	510139	250.000	237.84
11 Bromomethane	94	1.878	1.878	(0.285)	202526	250.000	219.68
12 Chloroethane	64	1.984	1.984	(0.301)	249601	250.000	236.82
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	479690	250.000	237.72
15 Acrolein	56	2.718	2.718	(0.413)	478769	2500.00	1451.4
16 Acetone	43	2.919	2.919	(0.443)	336659	500.000	426.75
17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	412059	250.000	268.24
18 Freon-113	151	2.884	2.884	(0.438)	386746	250.000	240.86
19 Iodomethane	142	3.014	3.014	(0.458)	758826	250.000	232.87
20 Carbon Disulfide	76	3.097	3.097	(0.470)	865366	250.000	246.17

22	Acetonitrile	41	3.274	3.274 (0.497)	594519	2500.00	2192.0
23	Acrylonitrile	53	3.866	3.866 (0.587)	368762	500.000	411.16
24	Methyl tert-butyl ether	73	3.949	3.949 (0.599)	927503	250.000	254.20

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Report Date: 29-Jul-2010 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
25	trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	467458	250.000	271.08
26	Hexane	86	4.375	4.375	(0.664)	98158	250.000	273.19
27	Vinyl acetate	43	4.670	4.670	(0.709)	488372	250.000	137.65
154	Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	30760	250.000	154.39(A)
28	1,1-Dichloroethane	63	4.540	4.540	(0.689)	857830	250.000	242.94
29	tert-Butyl Alcohol	59	3.747	3.747	(0.569)	656536	5000.00	4309.2
30	2-Butanone	43	5.357	5.357	(0.813)	406795	500.000	402.68
M 31	1,2-Dichloroethene (total)	96				943946	500.000	
32	cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	476488	250.000	265.10
33	2,2-Dichloropropane	77	5.309	5.309	(0.806)	259172	250.000	258.96
34	Bromochloromethane	128	5.593	5.593	(0.849)	263205	250.000	239.04
35	Chloroform	83	5.712	5.712	(0.867)	700189	250.000	252.77
36	Tetrahydrofuran	42	5.653	5.653	(0.858)	156890	250.000	216.87
37	1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	565950	250.000	261.44
38	1,1-Dichloropropene	75	6.079	6.079	(0.923)	572786	250.000	286.41
39	Carbon Tetrachloride	117	6.079	6.079	(0.923)	605611	250.000	248.32
40	1,2-Dichloroethane	62	6.315	6.315	(0.959)	584959	250.000	222.42
41	Benzene	78	6.292	6.292	(0.955)	1554477	250.000	272.30
42	Trichloroethene	130	6.954	6.954	(1.056)	548297	250.000	242.74
43	1,2-Dichloropropane	63	7.155	7.155	(1.086)	423431	250.000	241.62
44	1,4-Dioxane	88	7.297	7.297	(1.108)	153483	12500.0	12815
45	Dibromomethane	93	7.262	7.262	(1.102)	209072	250.000	242.90
46	Bromodichloromethane	83	7.416	7.416	(1.126)	406799	250.000	243.29
47	2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	297974	500.000	430.07
48	cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	451373	250.000	255.84
49	4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	823200	500.000	451.03
50	Toluene	91	8.126	8.126	(0.872)	1580571	250.000	263.50
51	trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	337930	250.000	232.97
52	Ethyl Methacrylate	69	8.421	8.421	(0.904)	288164	250.000	270.63
53	1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	267032	250.000	270.04
54	1,3-Dichloropropane	76	8.623	8.623	(0.925)	422166	250.000	269.68
55	Tetrachloroethene	164	8.611	8.611	(0.924)	401703	250.000	253.58
56	2-Hexanone	43	8.705	8.705	(0.934)	454903	500.000	428.55
57	Dibromochloromethane	129	8.824	8.824	(0.947)	335742	250.000	239.96
58	1,2-Dibromoethane	107	8.918	8.918	(0.957)	272772	250.000	260.08
59	Chlorobenzene	112	9.344	9.344	(1.003)	1106667	250.000	260.72
60	1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	444538	250.000	256.96
61	Ethylbenzene	106	9.439	9.439	(1.013)	599617	250.000	276.53
62	m + p-Xylene	106	9.534	9.534	(1.023)	1465124	500.000	556.39
64	Xylene-o	106	9.877	9.877	(1.060)	750957	250.000	280.30
65	Styrene	104	9.889	9.889	(1.061)	1091154	250.000	278.96
66	Bromoform	173	10.043	10.043	(1.077)	164178	250.000	194.48
67	Isopropylbenzene	105	10.185	10.185	(1.093)	2060051	250.000	287.74
68	1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	307857	250.000	280.91
69	1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	108200	250.000	225.25
70	1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	111207	250.000	253.05
71	Bromobenzene	156	10.445	10.445	(0.926)	481403	250.000	253.83
72	n-Propylbenzene	120	10.540	10.540	(0.934)	565120	250.000	278.88
73	2-Chlorotoluene	126	10.611	10.611	(0.940)	509030	250.000	263.94
74	1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	1673934	250.000	290.60
75	4-Chlorotoluene	126	10.693	10.693	(0.948)	482208	250.000	260.49
76	tert-Butylbenzene	119	10.954	10.954	(0.971)	1629340	250.000	273.31

77	1,2,4-Trimethylbenzene	105	11.001	11.001 (0.975)	1638331	250.000	282.18
78	sec-Butylbenzene	105	11.143	11.143 (0.987)	2180687	250.000	293.90

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Report Date: 29-Jul-2010 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	1891262	250.000	283.82
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	960085	250.000	251.98
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	960133	250.000	247.09
82	n-Butylbenzene	91	11.604	11.604	(1.028)	1394326	250.000	295.01
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	941301	250.000	251.35
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	66671	250.000	207.65
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	641928	250.000	239.13
87	Naphthalene	128	13.166	13.166	(1.167)	1461379	250.000	251.39
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	351587	250.000	229.68
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	604097	250.000	229.99
98	Cyclohexane	56	5.948	5.948	(0.903)	1107197	250.000	243.81
143	Methyl Acetate	43	3.369	3.369	(0.511)	894780	500.000	447.83
144	Methylcyclohexane	83	7.132	7.132	(1.083)	798847	250.000	293.42
141	1,3,5-Trichlorobenzene	180	12.456	12.456	(1.104)	742735	250.000	250.30

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Report Date: 29-Jul-2010 11:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

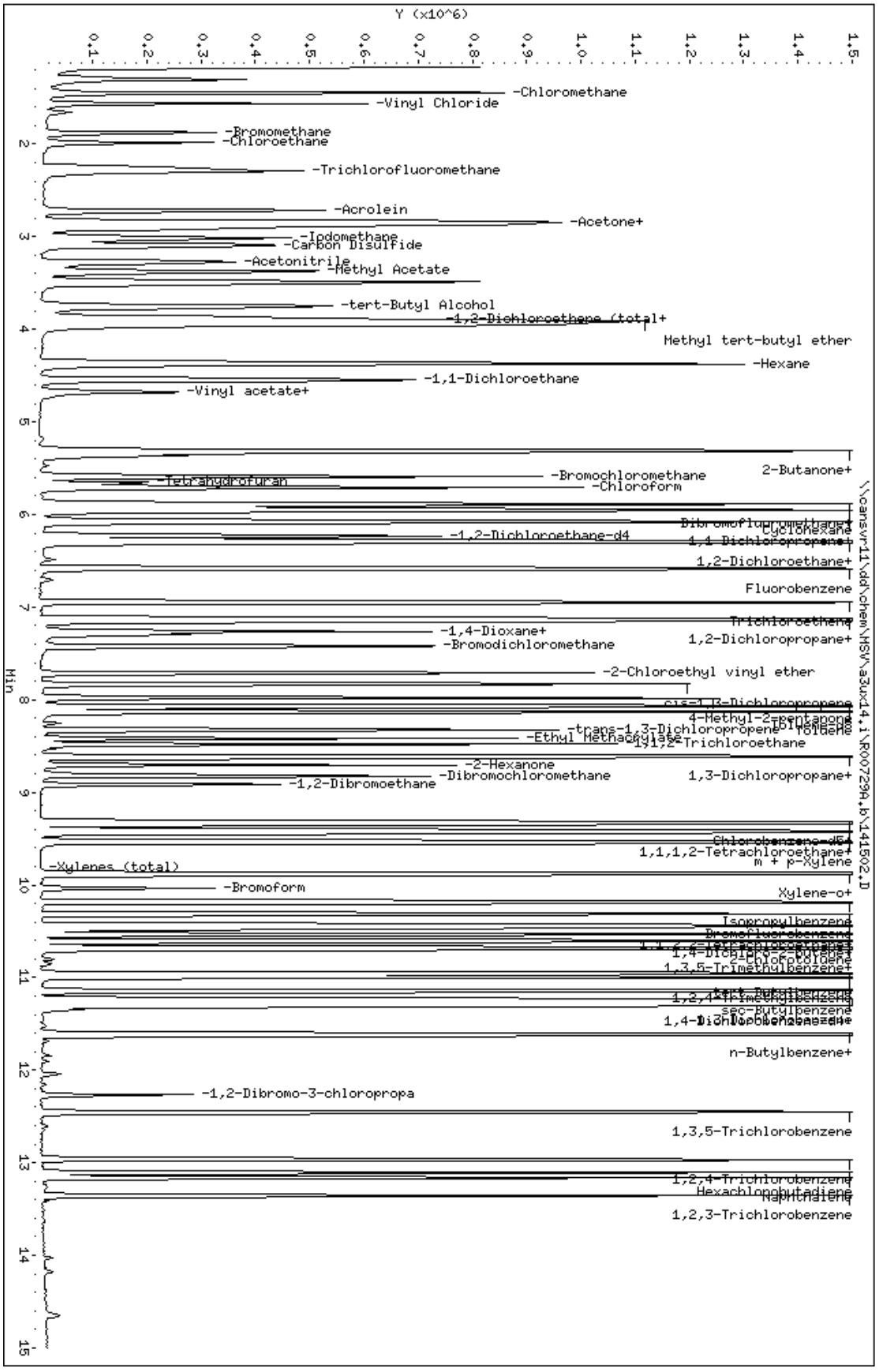
Instrument ID: a3ux14.i
Lab File ID: 141502.D
Lab Smp Id: 250NG-CC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,1-8260.SUB,2807,2

Calibration Date: 29-JUL-2010
Calibration Time: 11:16
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1496465	748233	2992930	1564159	4.52
2 Chlorobenzene-d5	1052175	526088	2104350	1117515	6.21
3 1,4-Dichlorobenze	622106	311053	1244212	636663	2.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141502.D
Date : 29-JUL-2010 10:55
Client ID:
Sample Info: 250NC-CC
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

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THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\BFB432.D
Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
Inj Date : 30-JUL-2010 14:02
Operator : 1644 Inst ID: a3ux11.i
Smp Info :
Misc Info : J00730B,BFBUX11,,1644
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B.b\BFBUX11.m
Meth Date : 07-May-2010 13:41 quayler Quant Type: ESTD
Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
Als bottle: 10 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.407	4.407	0.000	95	393920			100.00- 100.00	100.00
4.407	4.407	0.000	50	101232			15.00- 40.00	25.70
4.407	4.407	0.000	75	235456			30.00- 60.00	59.77
4.407	4.407	0.000	96	28272			5.00- 9.00	7.18
4.407	4.407	0.000	173	871			0.00- 2.00	0.34
4.407	4.407	0.000	174	254720			50.00- 100.00	64.66
4.407	4.407	0.000	175	18864			5.00- 9.00	7.41
4.407	4.407	0.000	176	243840			95.00- 101.00	95.73
4.407	4.407	0.000	177	14397			5.00- 9.00	5.90

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\BFB432.D

Page 1

Date : 30-JUL-2010 14:02

Client ID: 50NG BFB

Instrument: a3ux11.i

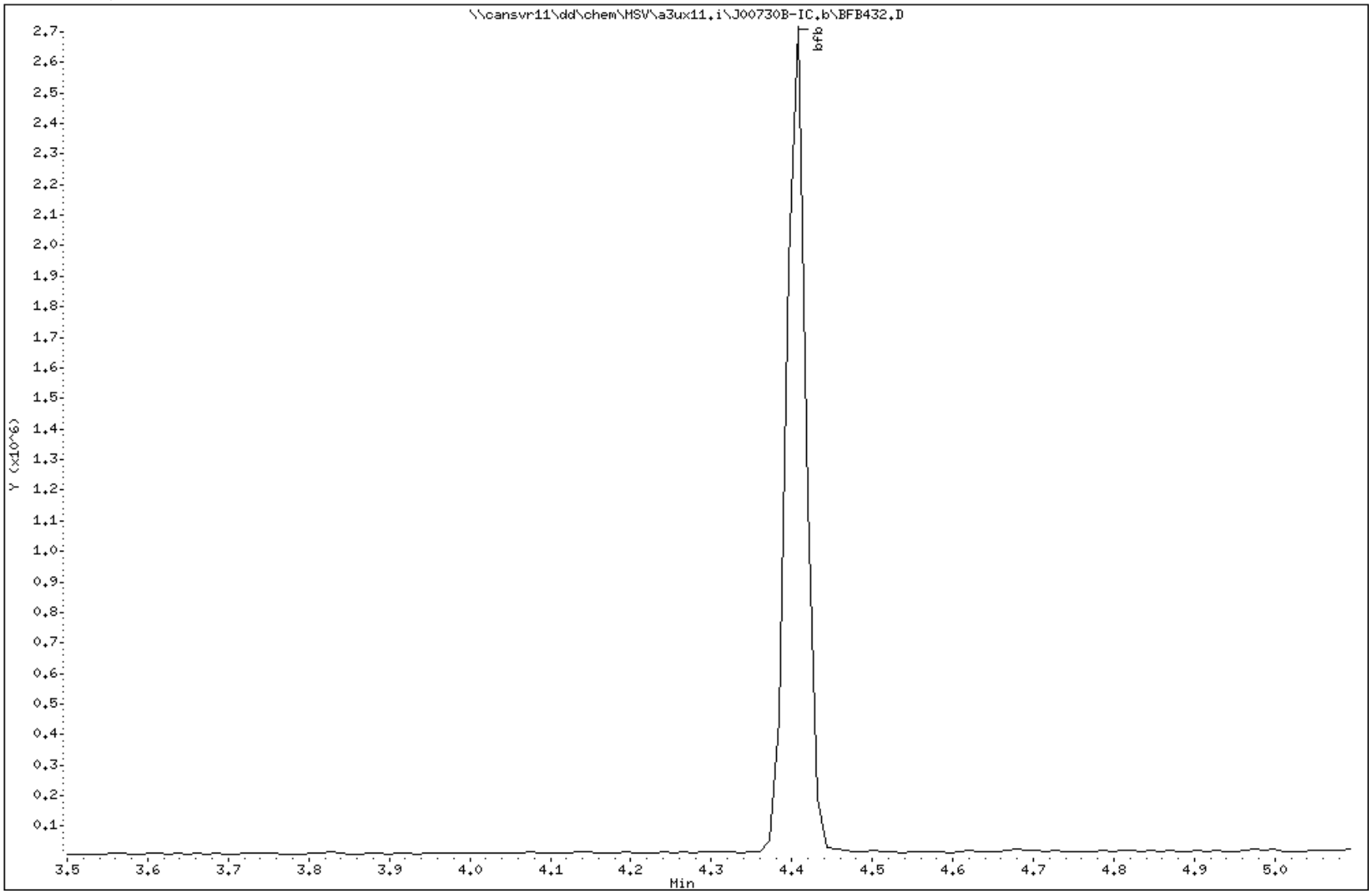
Sample Info:

Volume Injected (uL): 1.0

Operator: 1644

Column phase: DB624 20M

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\BFB432.D

Date : 30-JUL-2010 14:02

Client ID: 50NG BFB

Instrument: a3ux11.i

Sample Info:

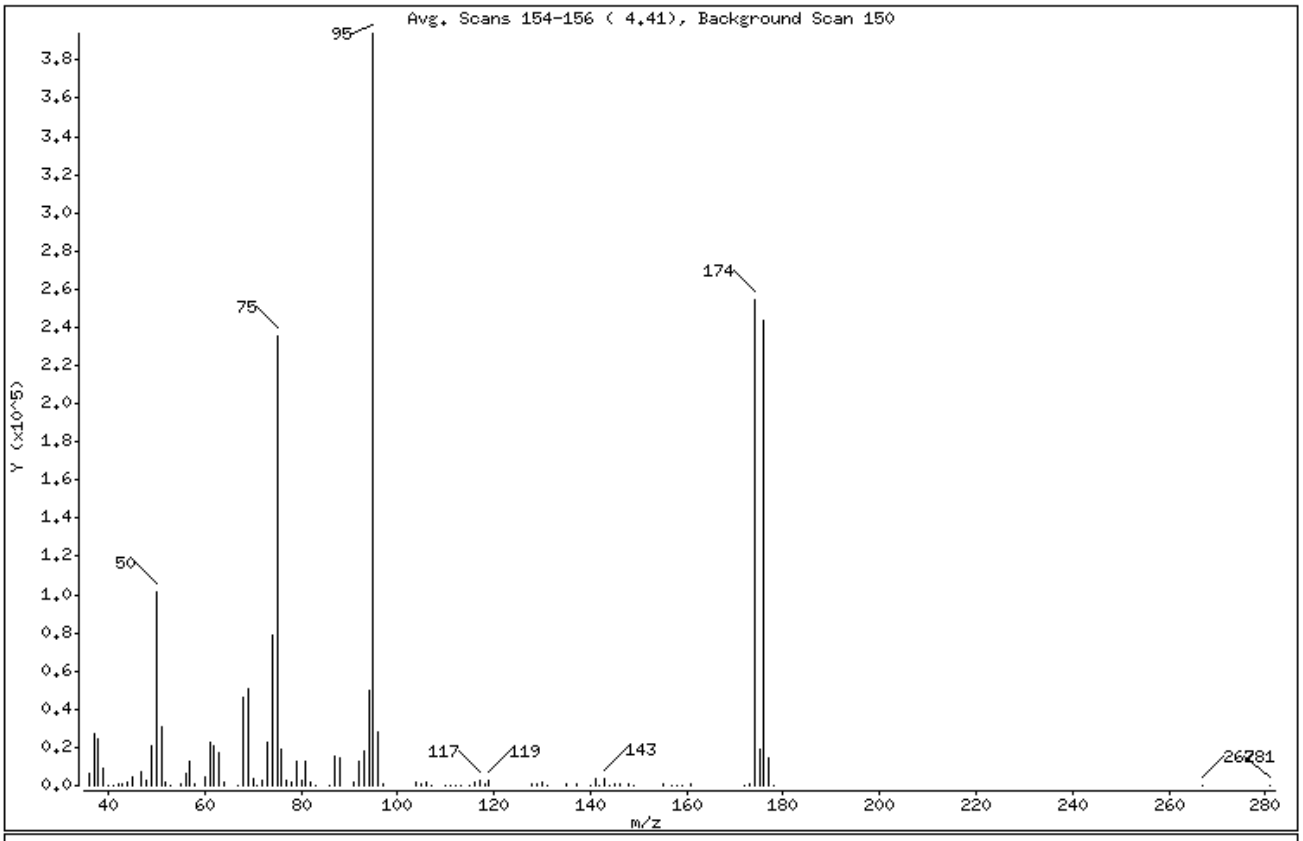
Volume Injected (uL): 1.0

Operator: 1644

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.70
75	30.00 - 60.00% of mass 95	59.77
96	5.00 - 9.00% of mass 95	7.18
173	Less than 2.00% of mass 174	0.22 (0.34)
174	50.00 - 100.00% of mass 95	64.66
175	5.00 - 9.00% of mass 174	4.79 (7.41)
176	95.00 - 101.00% of mass 174	61.90 (95.73)
177	5.00 - 9.00% of mass 176	3.65 (5.90)

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00730B-IC.b\BFB432.D

Date : 30-JUL-2010 14:02

Client ID: 50NG BFB

Instrument: a3ux11.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 1644

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB432.D
Spectrum: Avg. Scans 154-156 (4.41), Background Scan 150
Location of Maximum: 95.00
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6228	63.00	17024	93.00	17720	140.00	183
37.00	27216	64.00	1887	94.00	50216	141.00	3939
38.00	24848	67.00	262	95.00	393920	142.00	312
39.00	9213	68.00	46112	96.00	28272	143.00	3978
40.00	298	69.00	51064	97.00	519	144.00	263
41.00	385	70.00	3552	104.00	1828	145.00	456
42.00	570	71.00	189	105.00	730	146.00	756
43.00	1219	72.00	2407	106.00	1785	148.00	750
44.00	1495	73.00	22640	107.00	222	149.00	217
45.00	4562	74.00	78512	110.00	284	155.00	910
47.00	7152	75.00	235456	111.00	186	157.00	275
48.00	2942	76.00	19296	112.00	219	158.00	196
49.00	20408	77.00	2982	113.00	319	159.00	306
50.00	101232	78.00	1982	115.00	425	161.00	598
51.00	30952	79.00	12247	116.00	1414	172.00	430
52.00	1363	80.00	2903	117.00	3106	173.00	871
53.00	196	81.00	12539	118.00	1203	174.00	254720
55.00	1041	82.00	2259	119.00	2741	175.00	18864
56.00	6589	83.00	177	128.00	1070	176.00	243840
57.00	12549	86.00	280	129.00	835	177.00	14397
58.00	509	87.00	15257	130.00	1526	178.00	188
60.00	4464	88.00	14585	131.00	389	267.00	270
61.00	22936	91.00	1717	135.00	1325	281.00	187
62.00	20920	92.00	12416	137.00	908		

TestAmerica North Canton

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\BFB434.D
Lab Smp Id: 50ng bfb Client Smp ID: 50NG BFB
Inj Date : 01-AUG-2010 13:43
Operator : 43582 Inst ID: a3ux11.i
Smp Info :
Misc Info : J00801A,BFBUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\BFBUX11.m
Meth Date : 07-May-2010 13:41 quayler Quant Type: ESTD
Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
Als bottle: 26 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.407	4.407	0.000	95	470464			100.00- 100.00	100.00
4.407	4.407	0.000	50	107568			15.00- 40.00	22.86
4.407	4.407	0.000	75	276288			30.00- 60.00	58.73
4.407	4.407	0.000	96	34488			5.00- 9.00	7.33
4.407	4.407	0.000	173	1539			0.00- 2.00	0.47
4.407	4.407	0.000	174	324672			50.00- 100.00	69.01
4.407	4.407	0.000	175	23416			5.00- 9.00	7.21
4.407	4.407	0.000	176	321600			95.00- 101.00	99.05
4.407	4.407	0.000	177	20568			5.00- 9.00	6.40

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\BFB434.D

Page 1

Date : 01-AUG-2010 13:43

Client ID: 50NG BFB

Instrument: a3ux11.i

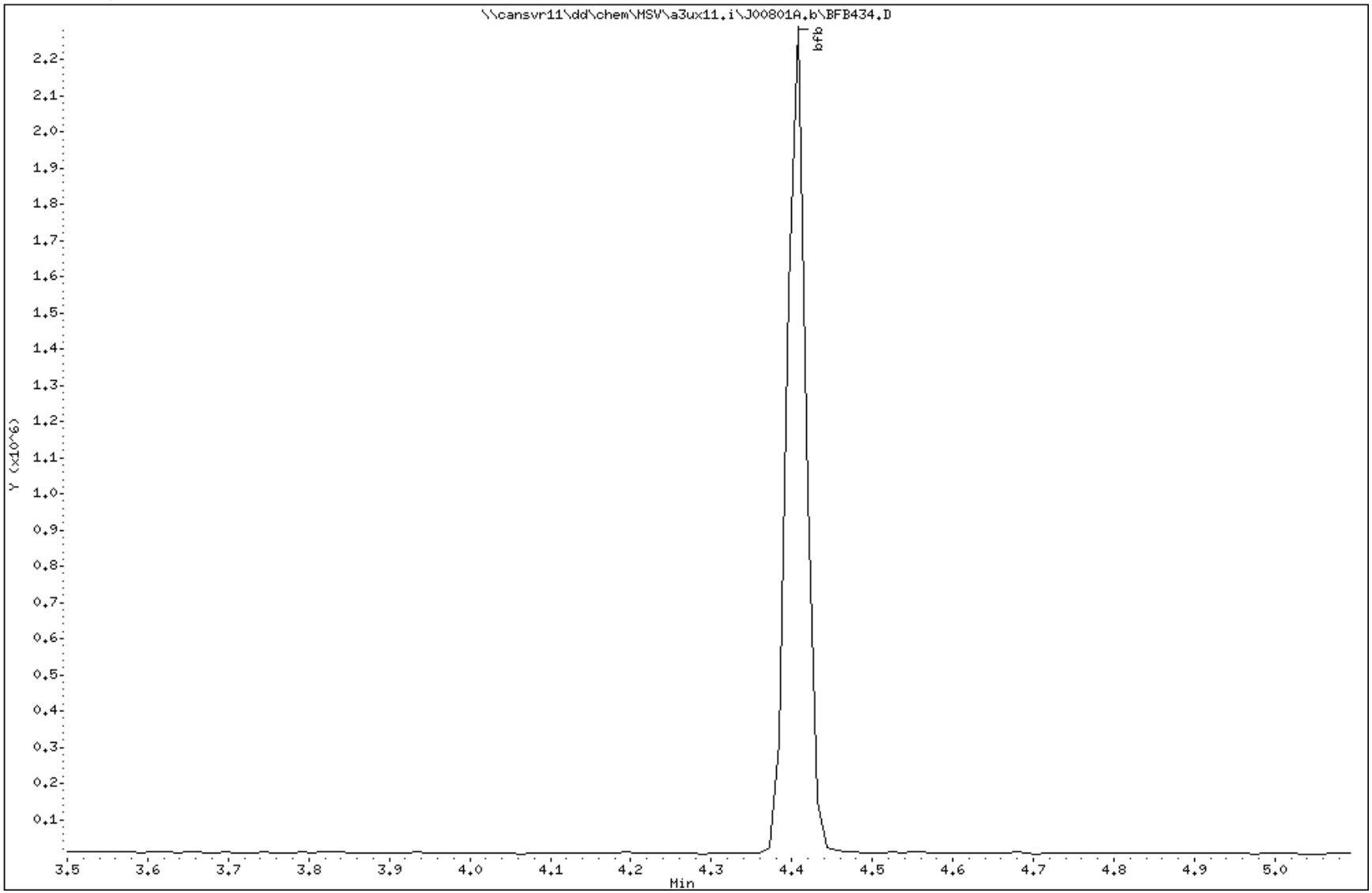
Sample Info:

Volume Injected (uL): 1.0

Operator: 43582

Column phase: DB624 20M

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\BFB434.D

Date : 01-AUG-2010 13:43

Client ID: 50NG BFB

Instrument: a3ux11.i

Sample Info:

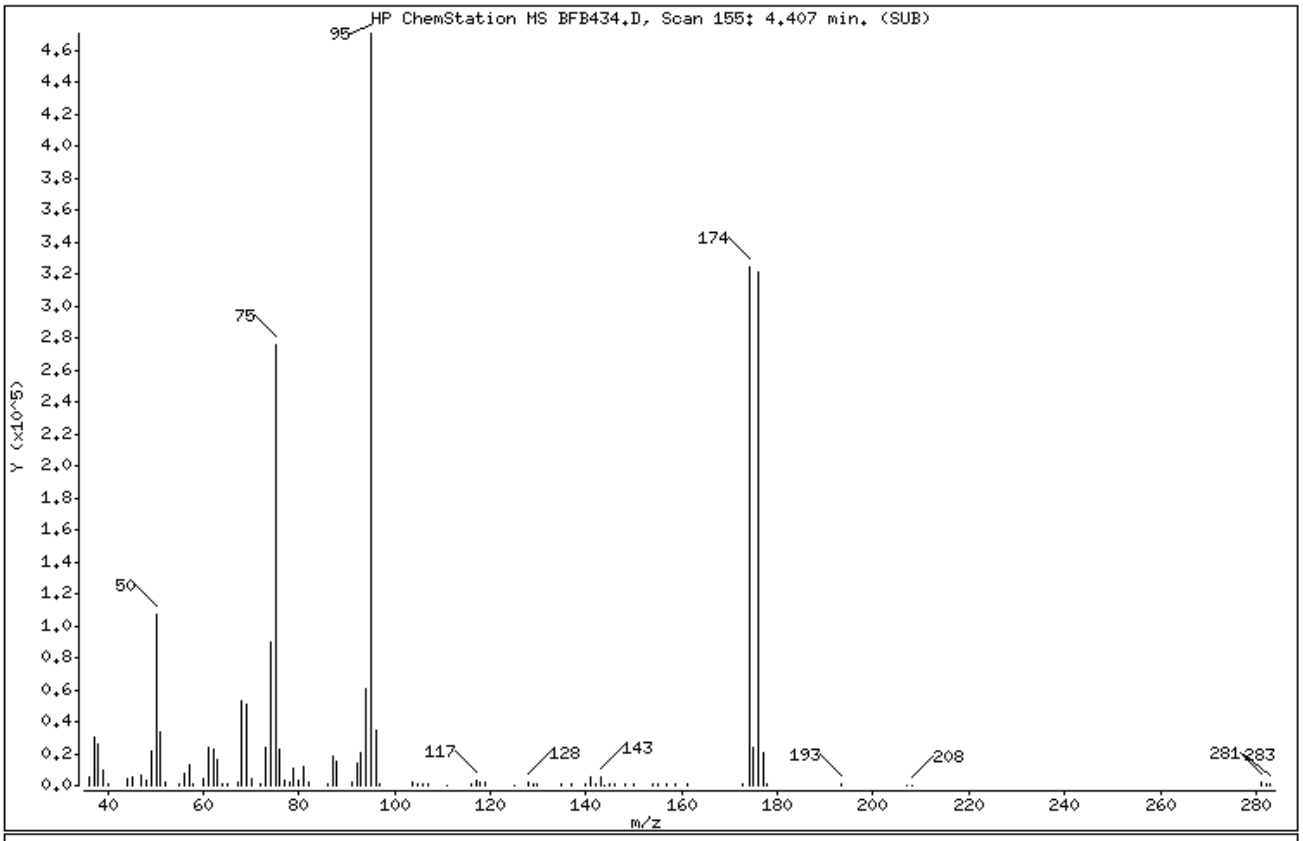
Volume Injected (uL): 1.0

Operator: 43582

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.86
75	30.00 - 60.00% of mass 95	58.73
96	5.00 - 9.00% of mass 95	7.33
173	Less than 2.00% of mass 174	0.33 (0.47)
174	50.00 - 100.00% of mass 95	69.01
175	5.00 - 9.00% of mass 174	4.98 (7.21)
176	95.00 - 101.00% of mass 174	68.36 (99.05)
177	5.00 - 9.00% of mass 176	4.37 (6.40)

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\BFB434.D

Date : 01-AUG-2010 13:43

Client ID: 50NG BFB

Instrument: a3ux11.i

Sample Info:

Volume Injected (uL): 1.0

Operator: 43582

Column phase: DB624 20M

Column diameter: 0.18

Data File: BFB434.D
Spectrum: HP ChemStation MS BFB434.D, Scan 155: 4.407 min. (SUB)
Location of Maximum: 95.10
Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	5228	67.10	1971	96.10	34488	146.00	573
37.10	30784	68.00	52920	97.00	970	148.00	824
38.10	26096	69.10	50408	103.90	2415	150.10	602
39.20	9380	70.20	3994	105.00	940	154.00	561
40.10	1242	72.00	1490	105.90	1450	155.00	1056
44.10	4695	73.10	23864	107.00	1014	156.90	666
45.10	5150	74.10	89464	111.10	537	158.80	777
47.10	6596	75.10	276288	115.90	1284	161.10	632
48.00	3370	76.10	23248	117.00	2999	172.80	1539
49.10	22056	77.00	2994	117.90	1808	174.00	324672
50.10	107568	78.10	2545	119.00	2089	175.00	23416
51.10	33048	78.90	11345	125.00	520	176.00	321600
52.10	2509	80.00	3716	127.90	2241	177.00	20568
55.10	1613	81.00	12153	129.00	1021	177.90	543
56.10	7769	82.10	2108	129.80	1595	193.20	599
57.10	13349	86.00	725	134.90	1044	207.10	130
58.00	847	87.10	18864	136.90	727	208.30	510
60.10	3866	88.00	14705	139.90	725	281.10	2464
61.10	23936	91.10	2450	141.00	5224	282.20	1411
62.10	22456	92.10	14093	142.00	758	283.00	788
63.00	16123	93.00	20072	143.10	5829		
63.90	1473	94.10	60272	144.00	504		
65.20	1006	95.10	470464	144.80	865		

TestAmerica North Canton

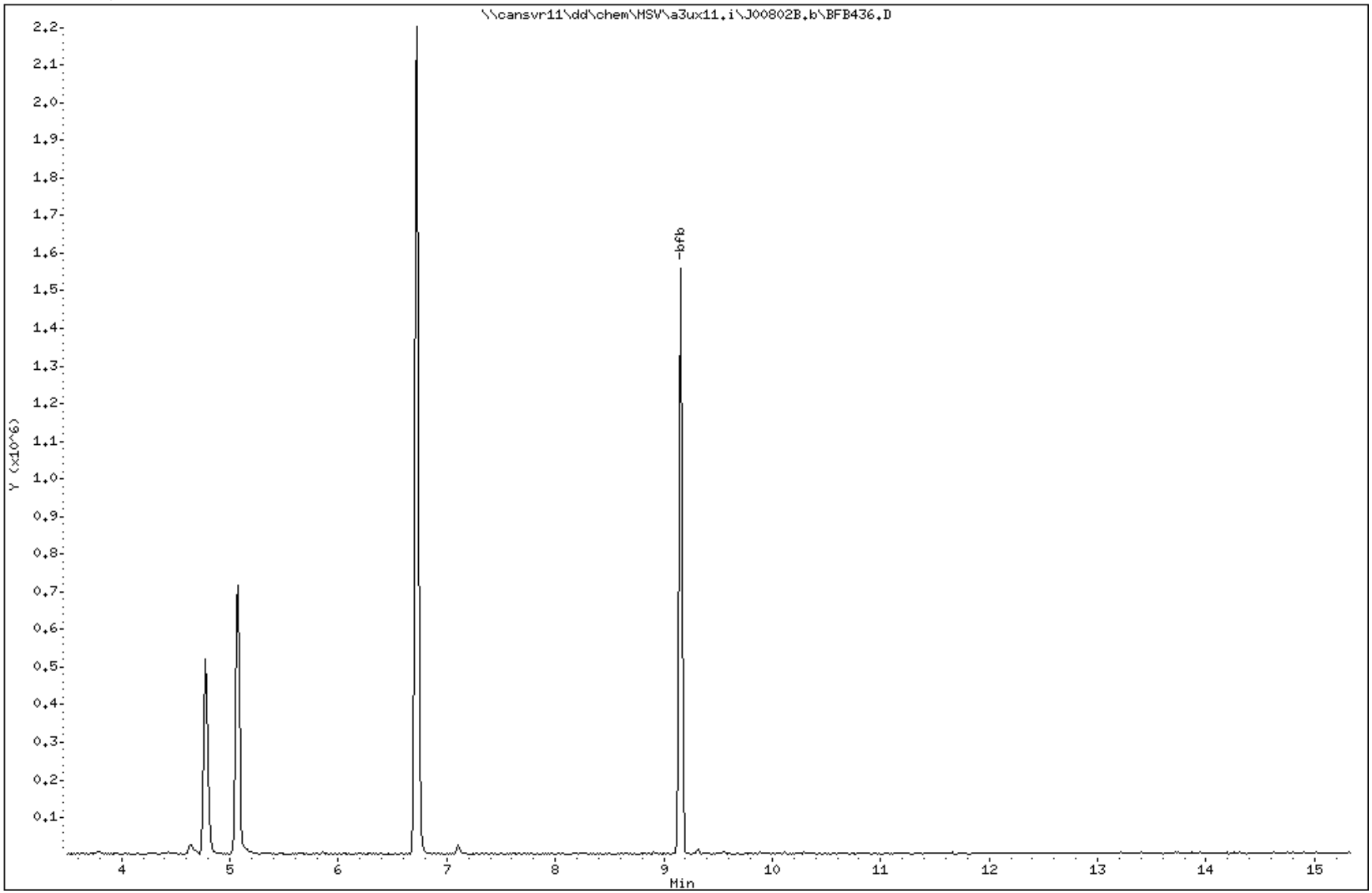
Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\BFB436.D
Lab Smp Id: BFB436 Client Smp ID: 50NG BFB
Inj Date : 02-AUG-2010 21:56
Operator : 43582 Inst ID: a3ux11.i
Smp Info : BFB436
Misc Info : J00802B,BFBUX11,,43582
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\BFBUX11.m
Meth Date : 03-Aug-2010 07:36 evansl Quant Type: ESTD
Cal Date : 01-MAR-2000 19:29 Cal File: uxx0287.d
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.152	9.165	-0.013	95	240768			100.00- 100.00	100.00
9.152	9.165	-0.013	50	56472			15.00- 40.00	23.45
9.152	9.165	-0.013	75	138048			30.00- 60.00	57.34
9.152	9.165	-0.013	96	15746			5.00- 9.00	6.54
9.152	9.165	-0.013	173	973			0.00- 2.00	0.63
9.152	9.165	-0.013	174	155328			50.00- 100.00	64.51
9.152	9.165	-0.013	175	12464			5.00- 9.00	8.02
9.152	9.165	-0.013	176	148096			95.00- 101.00	95.34
9.152	9.165	-0.013	177	10024			5.00- 9.00	6.77

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\BFB436.D Page 1
Date : 02-AUG-2010 21:56
Client ID: 50NG BFB Instrument: a3ux11.i
Sample Info: BFB436
Volume Injected (uL): 1.0 Operator: 43582
Column phase: DB624 20M Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\BFB436.D

Date : 02-AUG-2010 21:56

Client ID: 50NG BFB

Instrument: a3ux11.i

Sample Info: BFB436

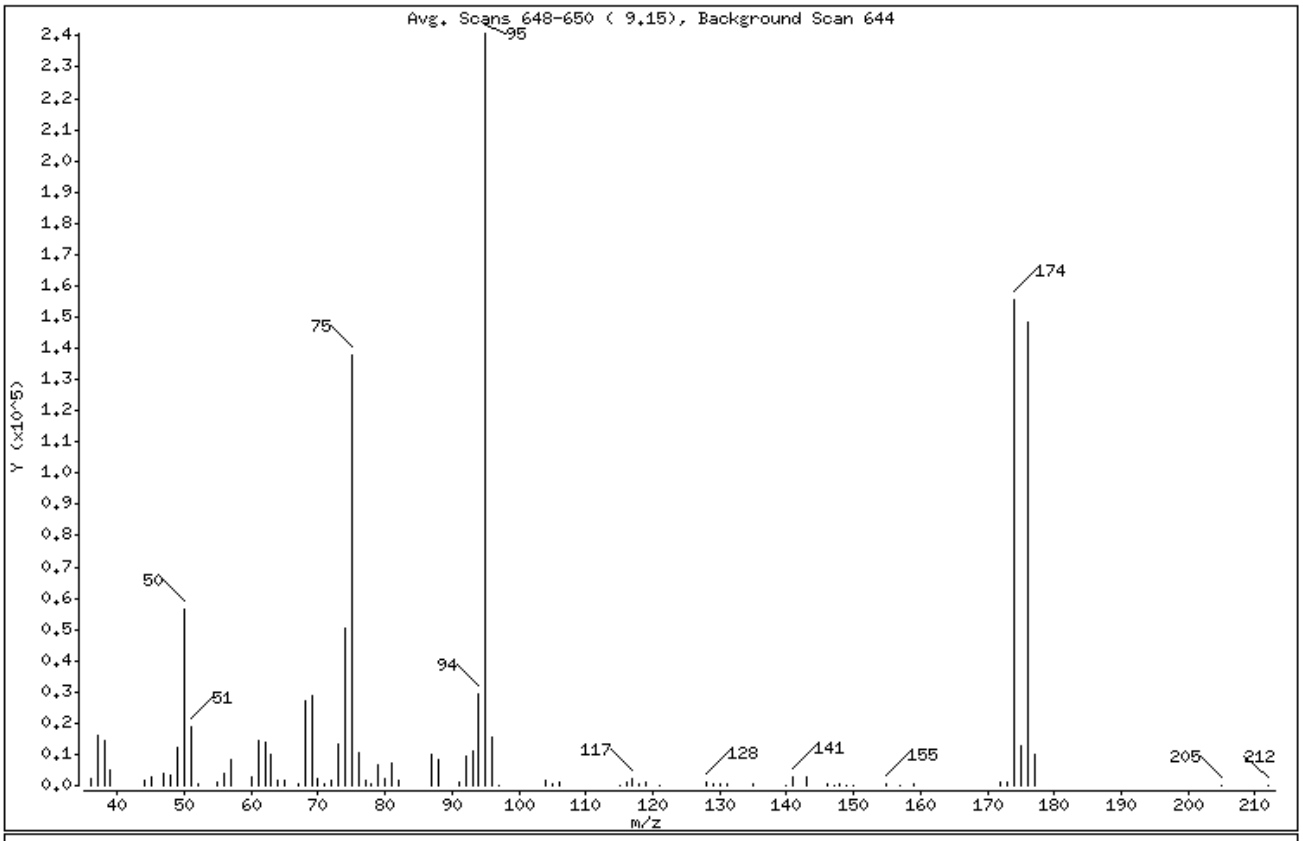
Volume Injected (uL): 1.0

Operator: 43582

Column phase: DB624 20M

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.45
75	30.00 - 60.00% of mass 95	57.34
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.40 (0.63)
174	50.00 - 100.00% of mass 95	64.51
175	5.00 - 9.00% of mass 174	5.18 (8.02)
176	95.00 - 101.00% of mass 174	61.51 (95.34)
177	5.00 - 9.00% of mass 176	4.16 (6.77)

Date : 02-AUG-2010 21:56

Client ID: 50NG BFB Instrument: a3ux11.i

Sample Info: BFB436

Volume Injected (uL): 1.0 Operator: 43582

Column phase: DB624 20M Column diameter: 0.18

Data File: BFB436.D
Spectrum: Avg. Scans 648-650 (9.15), Background Scan 644
Location of Maximum: 95.00
Number of points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2489	65.00	1601	92.00	9148	140.00	182
37.00	16022	67.00	541	93.00	10844	141.00	3007
38.00	14492	68.00	26992	94.00	29392	143.00	2984
39.00	5138	69.00	28680	95.00	240768	146.00	347
44.00	1467	70.00	2093	96.00	15746	147.00	178
45.00	2718	71.00	386	97.00	231	148.00	342
47.00	4026	72.00	1654	104.00	1817	149.00	202
48.00	3305	73.00	13478	105.00	496	150.00	190
49.00	12005	74.00	50352	106.00	1205	155.00	715
50.00	56472	75.00	138048	115.00	218	157.00	227
51.00	18752	76.00	10259	116.00	1172	159.00	320
52.00	782	77.00	1548	117.00	2176	172.00	879
55.00	933	78.00	433	118.00	818	173.00	973
56.00	3711	79.00	6891	119.00	1179	174.00	155328
57.00	8099	80.00	2040	121.00	222	175.00	12464
60.00	2748	81.00	7206	128.00	974	176.00	148096
61.00	14243	82.00	1726	129.00	486	177.00	10024
62.00	13868	87.00	9807	130.00	684	205.00	183
63.00	9830	88.00	8287	131.00	308	212.00	179
64.00	1487	91.00	904	135.00	470		

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Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\BFB14484.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 19-JUL-2010 15:57
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00719B-IC,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/Kg)		
RT	EXP RT	DLT RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.265	4.118	0.147	95	185792			100.00- 100.00	100.00
4.265	4.118	0.147	50	55976			15.00- 40.00	30.13
4.265	4.118	0.147	75	82656			30.00- 60.00	44.49
4.265	4.118	0.147	96	11661			5.00- 9.00	6.28
4.265	4.118	0.147	173	0	0.0	0.0	0.00- 2.00	0.00
4.265	4.118	0.147	174	171968			50.00- 120.00	92.56
4.265	4.118	0.147	175	12703			5.00- 9.00	7.39
4.265	4.118	0.147	176	165888			95.00- 101.00	96.46
4.265	4.118	0.147	177	10752			5.00- 9.00	6.48

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\BFB14484.D

Date : 19-JUL-2010 15:57

Client ID: 50NGBFB

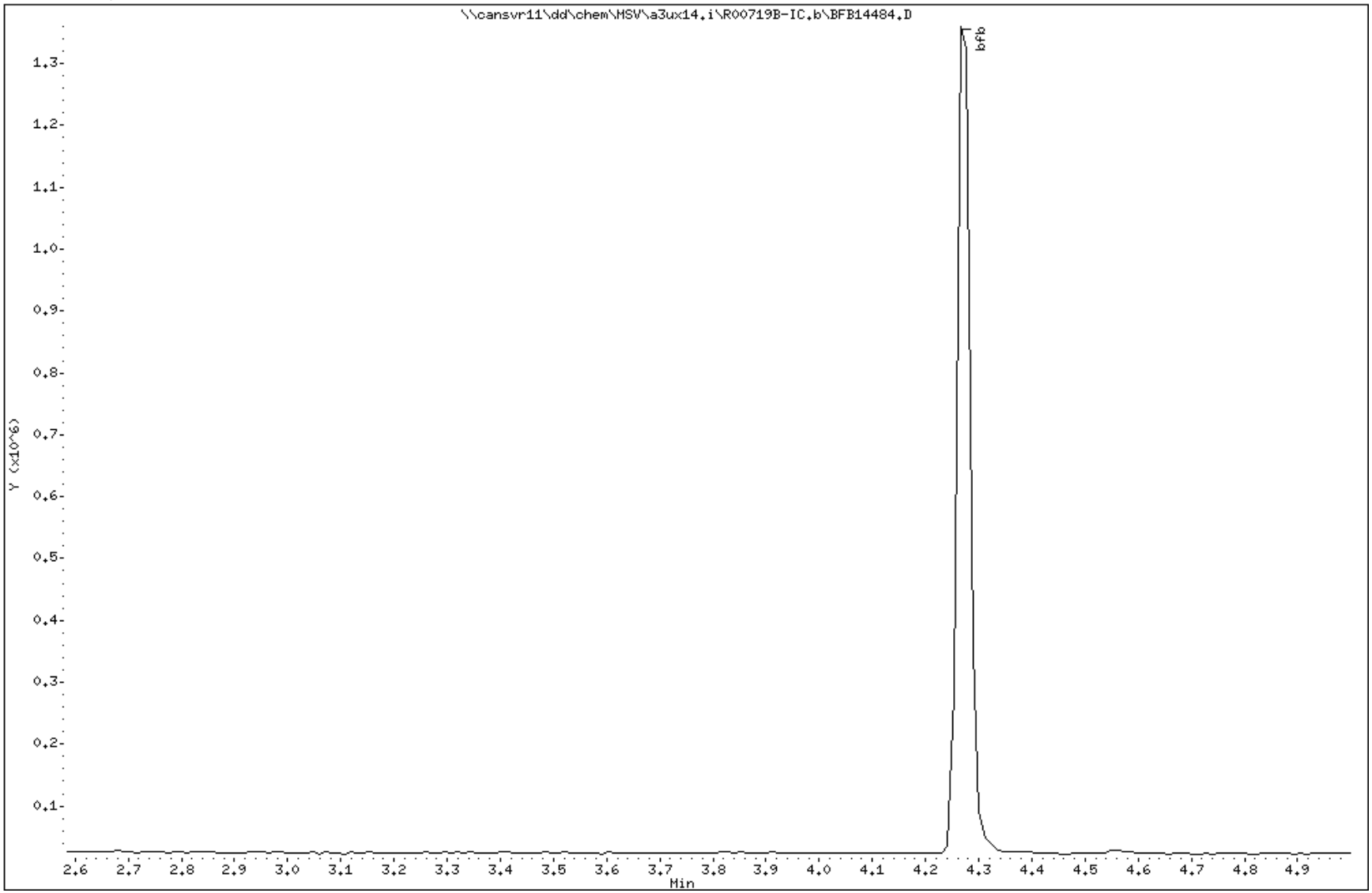
Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00719B-IC.b\BFB14484.D

Date : 19-JUL-2010 15:57

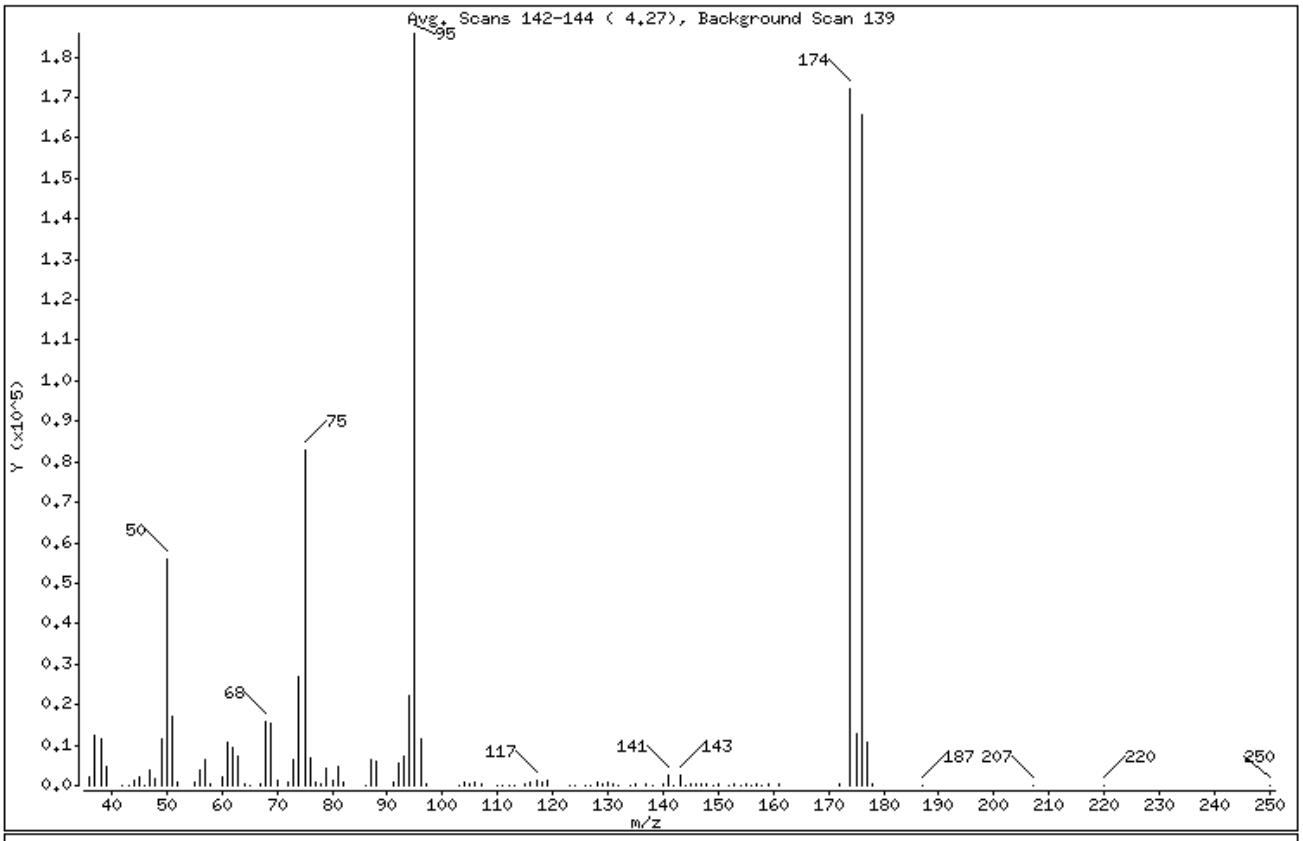
Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	30.13
75	30.00 - 60.00% of mass 95	44.49
96	5.00 - 9.00% of mass 95	6.28
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	92.56
175	5.00 - 9.00% of mass 174	6.84 (7.39)
176	95.00 - 101.00% of mass 174	89.29 (96.46)
177	5.00 - 9.00% of mass 176	5.79 (6.48)

Date : 19-JUL-2010 15:57

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14484.D
Spectrum: Avg. Scans 142-144 (4.27), Background Scan 139
Location of Maximum: 95.00
Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1965	69.00	15480	107.00	227	144.00	124
37.00	12462	70.00	1190	110.00	170	145.00	299
38.00	11319	72.00	837	111.00	210	146.00	325
39.00	4810	73.00	6571	112.00	123	147.00	270
42.00	105	74.00	26856	113.00	135	148.00	467
43.00	132	75.00	82656	115.00	263	149.00	173
44.00	1493	76.00	6766	116.00	732	150.00	268
45.00	2218	77.00	1009	117.00	1223	152.00	72
46.00	144	78.00	520	118.00	761	153.00	226
47.00	3780	79.00	4371	119.00	1077	154.00	137
48.00	1703	80.00	1131	123.00	62	155.00	424
49.00	11657	81.00	4666	124.00	150	156.00	117
50.00	55976	82.00	766	126.00	129	157.00	539
51.00	17184	86.00	108	127.00	150	158.00	62
52.00	715	87.00	6362	128.00	663	159.00	282
55.00	829	88.00	5814	129.00	381	161.00	264
56.00	3750	91.00	706	130.00	735	172.00	385
57.00	6304	92.00	5409	131.00	299	174.00	171968
58.00	221	93.00	7261	132.00	51	175.00	12703
60.00	2258	94.00	22104	134.00	50	176.00	165888
61.00	10665	95.00	185792	135.00	427	177.00	10752
62.00	9568	96.00	11661	137.00	352	178.00	396
63.00	7089	97.00	254	138.00	61	187.00	55
64.00	576	103.00	68	140.00	227	207.00	25
65.00	94	104.00	812	141.00	2504	220.00	57
67.00	450	105.00	387	142.00	162	250.00	88
68.00	15721	106.00	915	143.00	2641		

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Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\BFB14505.D
Lab Smp Id: 50NG INJECTION OF B Client Smp ID: 50NGBFB
Inj Date : 29-JUL-2010 10:11
Operator : 2807 Inst ID: a3ux14.i
Smp Info : 50NG INJECTION OF BFB
Misc Info : R00729A,BFBSUX14,,2807
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\BFBSUX14.m
Meth Date : 28-May-2008 09:44 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: CANSVR11

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/Kg)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.277	4.118	0.159	95	407936			100.00- 100.00	100.00
4.277	4.118	0.159	50	99112			15.00- 40.00	24.30
4.277	4.118	0.159	75	171008			30.00- 60.00	41.92
4.277	4.118	0.159	96	27600			5.00- 9.00	6.77
4.277	4.118	0.159	173	1398			0.00- 2.00	0.36
4.277	4.118	0.159	174	392640			50.00- 120.00	96.25
4.277	4.118	0.159	175	28056			5.00- 9.00	7.15
4.277	4.118	0.159	176	376320			95.00- 101.00	95.84
4.277	4.118	0.159	177	24336			5.00- 9.00	6.47

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\BFB14505.D

Page 1

Date : 29-JUL-2010 10:11

Client ID: 50NGBFB

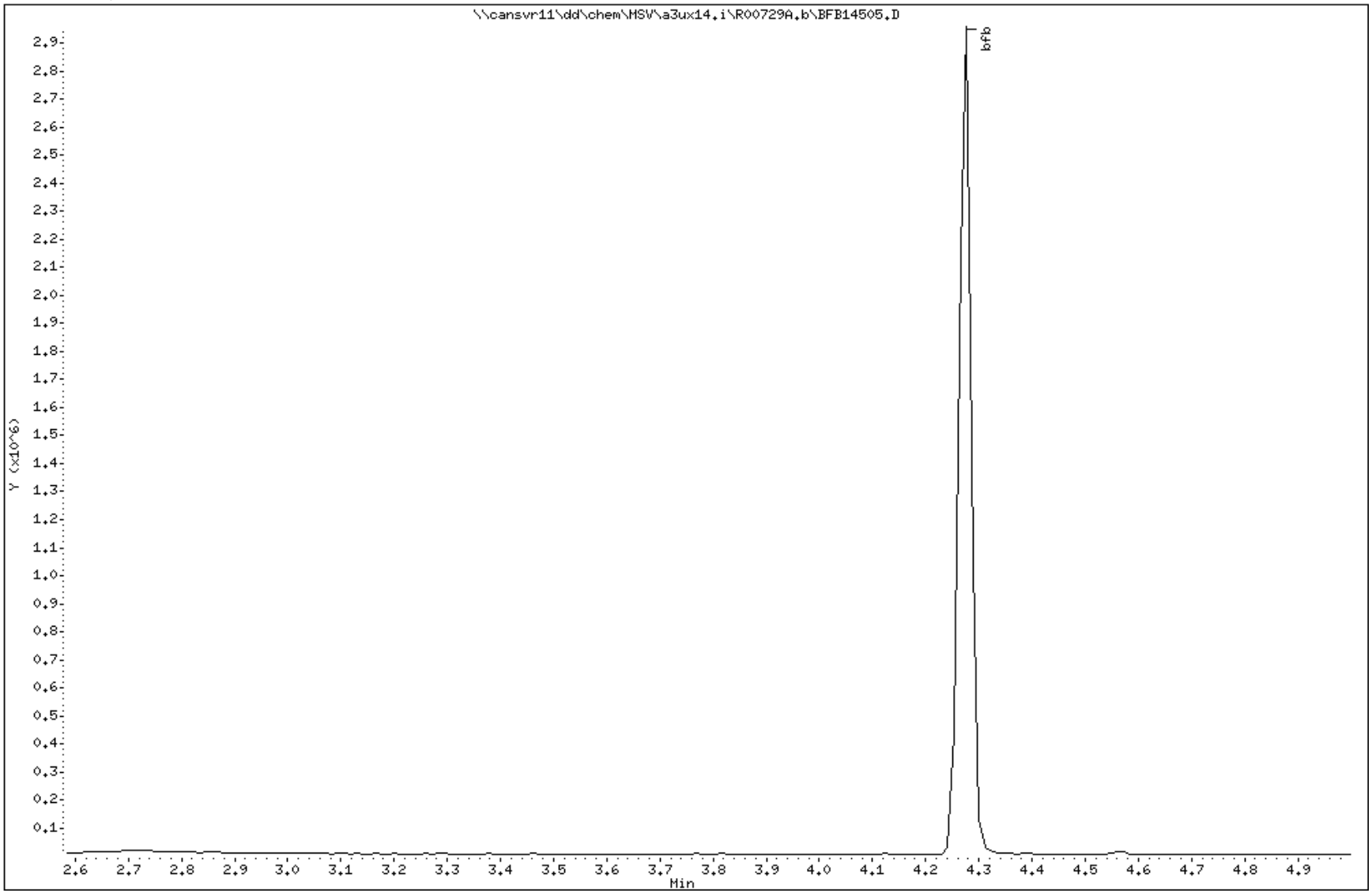
Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\BFB14505.D

Date : 29-JUL-2010 10:11

Client ID: 50NGBFB

Instrument: a3ux14.i

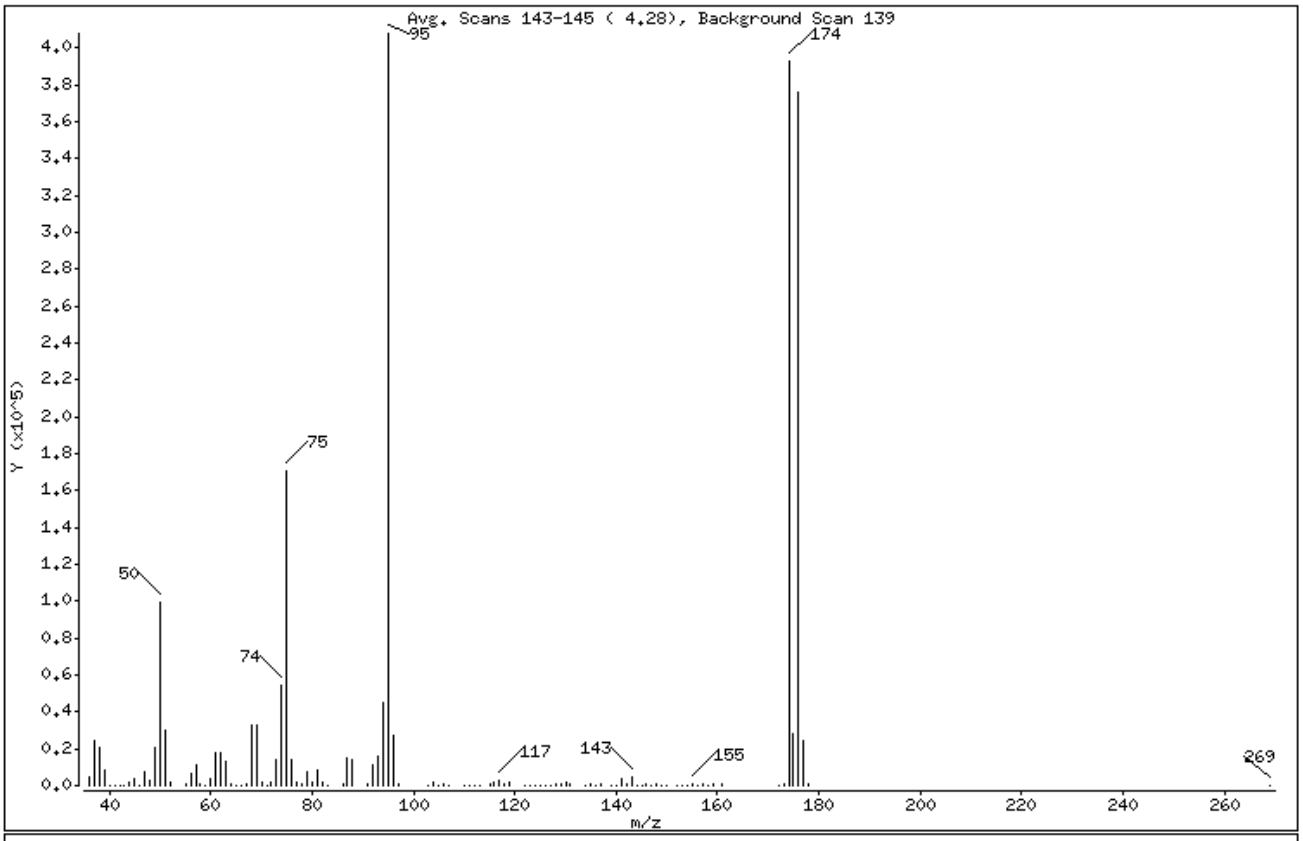
Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.30
75	30.00 - 60.00% of mass 95	41.92
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.34 (0.36)
174	50.00 - 120.00% of mass 95	96.25
175	5.00 - 9.00% of mass 174	6.88 (7.15)
176	95.00 - 101.00% of mass 174	92.25 (95.84)
177	5.00 - 9.00% of mass 176	5.97 (6.47)

Date : 29-JUL-2010 10:11

Client ID: 50NGBFB Instrument: a3ux14.i

Sample Info: 50NG INJECTION OF BFB

Operator: 2807

Column phase: DB624 20m Column diameter: 0.18

Data File: BFB14505.D
Spectrum: Avg. Scans 143-145 (4.28), Background Scan 139
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4269	67.00	903	105.00	330	142.00	577
37.00	24712	68.00	32656	106.00	1382	143.00	4554
38.00	20640	69.00	33184	107.00	382	144.00	332
39.00	8587	70.00	2302	110.00	191	145.00	373
40.00	94	71.00	56	111.00	285	146.00	607
41.00	64	72.00	1732	112.00	197	147.00	287
42.00	54	73.00	13950	113.00	339	148.00	1033
43.00	273	74.00	54752	115.00	516	149.00	356
44.00	2071	75.00	171008	116.00	1414	150.00	429
45.00	3896	76.00	14165	117.00	2470	152.00	244
46.00	289	77.00	1950	118.00	1281	153.00	363
47.00	7279	78.00	1223	119.00	1914	154.00	349
48.00	2963	79.00	7073	122.00	163	155.00	1030
49.00	20448	80.00	2156	123.00	143	156.00	150
50.00	99112	81.00	7975	124.00	190	157.00	830
51.00	29672	82.00	1527	125.00	141	158.00	66
52.00	1409	83.00	196	126.00	152	159.00	631
55.00	1297	86.00	486	127.00	157	161.00	492
56.00	6214	87.00	14729	128.00	1402	172.00	425
57.00	11650	88.00	14340	129.00	851	173.00	1398
58.00	490	91.00	1036	130.00	1552	174.00	392640
59.00	63	92.00	10857	131.00	603	175.00	28056
60.00	3759	93.00	16234	134.00	141	176.00	376320
61.00	18008	94.00	45416	135.00	929	177.00	24336
62.00	17584	95.00	407936	136.00	141	178.00	689
63.00	12779	96.00	27600	137.00	643	269.00	53
64.00	1056	97.00	867	139.00	248		
65.00	181	103.00	95	140.00	318		
66.00	50	104.00	1428	141.00	3911		

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WK61AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0G300000-125 L4WK61AD-LCSD
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**108**	**(75 - 129)**			**SW846 8260B**
	108	**(75 - 129)**	**0.25**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**102**	**(75 - 127)**			**SW846 8260B**
	102	**(75 - 127)**	**0.23**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**110**	**(55 - 142)**			**SW846 8260B**
	109	**(55 - 142)**	**0.82**	**(0-27)**	**SW846 8260B**
Toluene	**102**	**(71 - 130)**			**SW846 8260B**
	104	**(71 - 130)**	**1.5**	**(0-24)**	**SW846 8260B**
Trichloroethene	**99**	**(70 - 131)**			**SW846 8260B**
	98	**(70 - 131)**	**1.2**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
	84	(61 - 130)
Toluene-d8	96	(60 - 143)
	99	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	101	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WK61AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A0G300000-125 L4WK61AD-LCSD
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**50**	**54**	**ug/kg**	**108**		**SW846 8260B**
	50	**54**	**ug/kg**	**108**	**0.25**	**SW846 8260B**
Chlorobenzene	**50**	**51**	**ug/kg**	**102**		**SW846 8260B**
	50	**51**	**ug/kg**	**102**	**0.23**	**SW846 8260B**
1,1-Dichloroethene	**50**	**55**	**ug/kg**	**110**		**SW846 8260B**
	50	**55**	**ug/kg**	**109**	**0.82**	**SW846 8260B**
Toluene	**50**	**51**	**ug/kg**	**102**		**SW846 8260B**
	50	**52**	**ug/kg**	**104**	**1.5**	**SW846 8260B**
Trichloroethene	**50**	**50**	**ug/kg**	**99**		**SW846 8260B**
	50	**49**	**ug/kg**	**98**	**1.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
	84	(61 - 130)
Toluene-d8	96	(60 - 143)
	99	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	101	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141504.D
Report Date: 29-Jul-2010 12:16

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141504.D
Lab Smp Id: CHECK
Inj Date : 29-JUL-2010 11:38
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECK
Misc Info : R00729A,8260SUX14,,2807,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 4 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1559093	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1122666	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	639298	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	442303	220.664	44.133
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	432057	208.735	41.747
$ 6 Toluene-d8	98	8.067	8.066	(0.865)	1476780	241.198	48.240
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	485578	251.586	50.317
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	380128	253.069	50.614
9 Chloromethane	50	1.440	1.452	(0.219)	760724	214.800	42.960
10 Vinyl Chloride	62	1.558	1.558	(0.237)	478982	224.044	44.809
11 Bromomethane	94	1.878	1.878	(0.285)	211754	230.433	46.086
12 Chloroethane	64	1.984	1.984	(0.301)	244368	232.610	46.522
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	478807	238.052	47.610
15 Acrolein	56	2.718	2.718	(0.413)	241441	734.304	146.86
16 Acetone	43	2.919	2.919	(0.443)	328140	416.518	83.304
17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	420927	274.902	54.980
18 Freon-113	151	2.872	2.884	(0.436)	440598	275.293	55.059
19 Iodomethane	142	3.014	3.014	(0.458)	872530	268.629	53.726
20 Carbon Disulfide	76	3.085	3.097	(0.468)	921376	262.952	52.590
21 Methylene Chloride	84	3.487	3.487	(0.529)	416763	250.482	50.096

22 Acetonitrile	41	3.274	3.274 (0.497)	174264	644.614	128.92
23 Acrylonitrile	53	3.866	3.866 (0.587)	555760	621.670	124.33

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141504.D
Report Date: 29-Jul-2010 12:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	929764	255.652	51.130
	25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	470039	273.458	54.692
	26 Hexane	86	4.375	4.375	(0.664)	114810	320.574	64.115(R)
	27 Vinyl acetate	43	4.671	4.670	(0.709)	944876	267.187	53.437
	154 Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	59181	298.001	59.600(A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	861853	244.877	48.975
	29 tert-Butyl Alcohol	59	3.748	3.747	(0.569)	600684	3955.45	791.09
	30 2-Butanone	43	5.357	5.357	(0.813)	410142	407.315	81.463
M	31 1,2-Dichloroethene (total)	96				942829	537.354	107.47
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	472790	263.896	52.779
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	255557	256.174	51.235
	34 Bromochloromethane	128	5.593	5.593	(0.849)	260813	237.642	47.528
	35 Chloroform	83	5.712	5.712	(0.867)	694349	251.474	50.295
	36 Tetrahydrofuran	42	5.653	5.653	(0.858)	159004	220.510	44.102
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	562885	260.865	52.173
	38 1,1-Dichloropropene	75	6.079	6.079	(0.923)	568710	285.295	57.059
	39 Carbon Tetrachloride	117	6.079	6.079	(0.923)	612033	251.772	50.354
	40 1,2-Dichloroethane	62	6.303	6.315	(0.957)	581423	221.798	44.360
	41 Benzene	78	6.292	6.292	(0.955)	1536750	270.069	54.014
	42 Trichloroethene	130	6.954	6.954	(1.056)	559686	248.584	49.717
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	429725	246.005	49.201
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	7.262	7.262	(1.102)	218026	254.124	50.825
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	392247	235.349	47.070
	47 2-Chloroethyl vinyl ether	63	7.712	7.711	(1.171)	156922	227.224	45.445
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	431583	245.422	49.084
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	843356	459.950	91.990
	50 Toluene	91	8.126	8.126	(0.872)	1537760	255.189	51.038
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	340484	233.647	46.729
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	257396	259.104	51.821
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	418368	266.026	53.205
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	411918	258.834	51.767
	56 2-Hexanone	43	8.706	8.705	(0.934)	470989	441.664	88.333
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	316325	225.041	45.008
	58 1,2-Dibromoethane	107	8.919	8.918	(0.957)	267845	254.210	50.842
	59 Chlorobenzene	112	9.345	9.344	(1.003)	1089571	255.517	51.103
	60 1,1,1,2-Tetrachloroethane	131	9.416	9.415	(1.010)	428587	246.607	49.321
	61 Ethylbenzene	106	9.439	9.439	(1.013)	602858	276.752	55.350
	62 m + p-Xylene	106	9.534	9.534	(1.023)	1453075	549.282	109.86
M	63 Xylenes (total)	106				2204322	828.408	165.68
	64 Xylene-o	106	9.877	9.877	(1.060)	751247	279.126	55.825
	65 Styrene	104	9.889	9.889	(1.061)	1060069	269.767	53.953
	66 Bromoform	173	10.043	10.043	(1.077)	159740	188.360	37.672
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	2005800	278.873	55.775
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	303412	275.713	55.143
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	231767	480.501	96.100
	70 1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	111967	253.733	50.746
	71 Bromobenzene	156	10.445	10.445	(0.926)	480341	252.230	50.446
	72 n-Propylbenzene	120	10.540	10.540	(0.934)	591723	290.803	58.160
	73 2-Chlorotoluene	126	10.611	10.611	(0.940)	502722	259.599	51.920
	74 1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	1682520	290.883	58.177

75	4-Chlorotoluene	126	10.693	10.693 (0.948)	480741	258.628	51.726
76	tert-Butylbenzene	119	10.954	10.954 (0.971)	1661688	277.586	55.517

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141504.D
Report Date: 29-Jul-2010 12:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	1700065	291.610	58.322
78	sec-Butylbenzene	105	11.143	11.143	(0.987)	2236585	300.189	60.038
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	2012380	300.756	60.151
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	963055	251.715	50.343
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	955570	244.901	48.980
82	n-Butylbenzene	91	11.605	11.604	(1.028)	1438679	303.142	60.628
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	935771	248.841	49.768
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	69518	215.623	43.124
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	666094	247.111	49.422
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	357610	232.650	46.530
87	Naphthalene	128	13.167	13.166	(1.167)	1519105	260.248	52.050
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	622006	235.835	47.167
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	27005	15.9102	3.182
89	Ethyl Ether	59	2.588	2.588	(0.393)	401836	224.775	44.955
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.718	4.718	(0.716)	374725	270.611	54.122
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.475	5.463	(0.831)	22500	11.8535	2.371
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.280	6.280	(0.953)	609272	13157.2	2631.4(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.256	10.256	(0.909)	263979	3593.70	718.74(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.948	5.948	(0.903)	1118923	247.195	49.439
143	Methyl Acetate	43	3.369	3.369	(0.511)	398150	199.918	39.984
144	Methylcyclohexane	83	7.132	7.132	(1.083)	848349	312.612	62.522(R)
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.356	11.356	(1.006)	1702502	306.530	61.306(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141504.D
Report Date: 29-Jul-2010 12:16

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

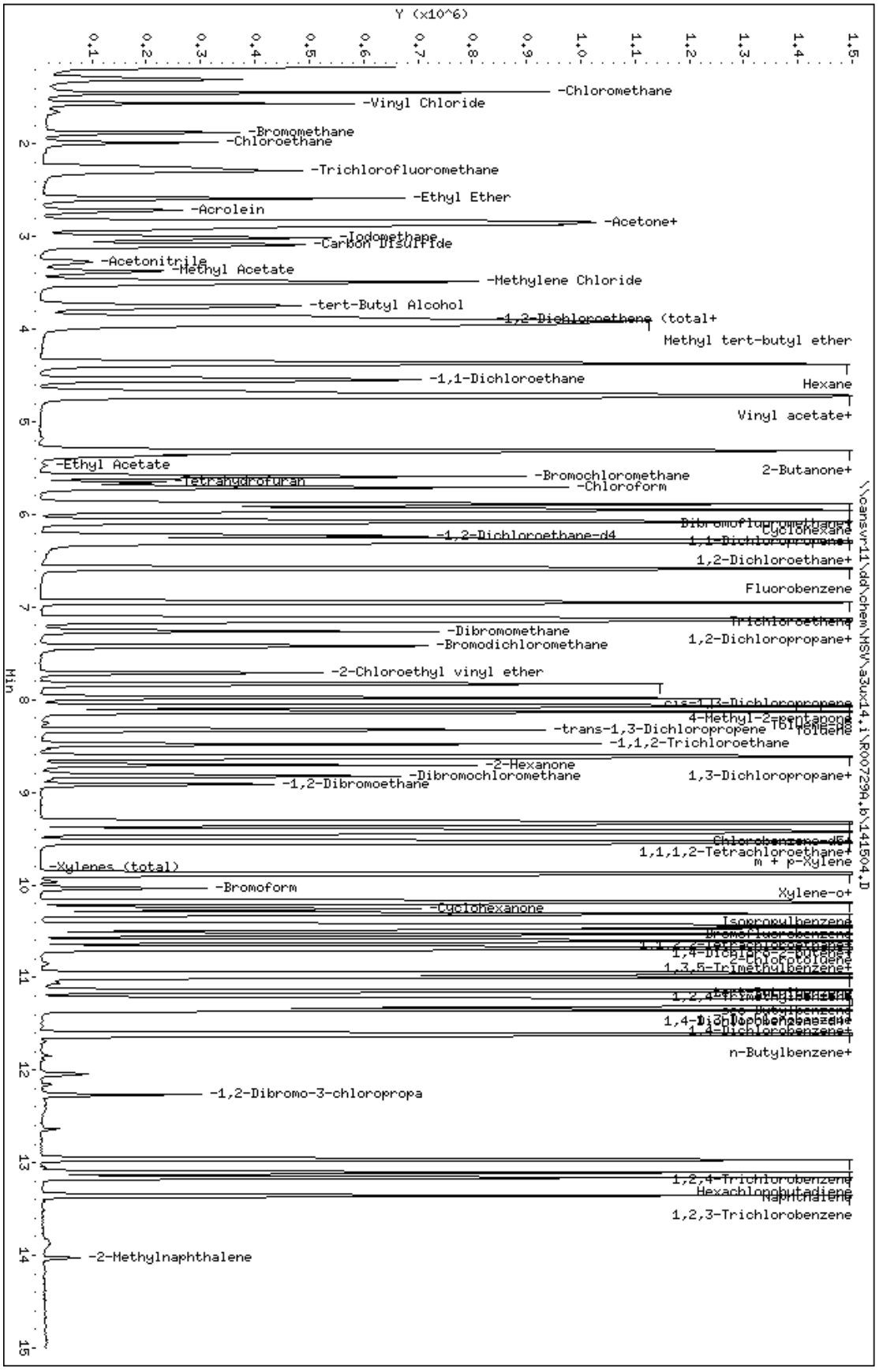
Instrument ID: a3ux14.i
Lab File ID: 141504.D
Lab Smp Id: CHECK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807,3

Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1559093	-0.32
2 Chlorobenzene-d5	1117515	558758	2235030	1122666	0.46
3 1,4-Dichlorobenze	636663	318332	1273326	639298	0.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141504.D
Date : 29-JUL-2010 11:38
Client ID:
Sample Info: CHECK
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141504.D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
Methyl tert-butyl ether
-1,1-Dichloroethane
Hexane
Vinyl acetate+
-Ethyl Acetate
2-Butanone+
-Tetrahydrofuran
-Bromochloromethane
-Chloroform
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
4-Methyl-2-pentanone
Toluene
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Xylenes (total)
-Bromoform
Xylene-o+
-Cyclohexanone
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
Hexachlorobutadiene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141505.D
Report Date: 29-Jul-2010 12:24

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141505.D
Lab Smp Id: CHECKDUP
Inj Date : 29-JUL-2010 11:59
Operator : 2807 Inst ID: a3ux14.i
Smp Info : CHECKDUP
Misc Info : R00729A,8260SUX14,,2807,3
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 5 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1580024	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1115260	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	638524	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	450198	221.628	44.326
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	438650	209.113	41.823
$ 6 Toluene-d8	98	8.067	8.066	(0.865)	1508163	247.959	49.592
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	485571	251.887	50.377
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	363095	238.527	47.705
9 Chloromethane	50	1.440	1.452	(0.219)	747041	208.142	41.628
10 Vinyl Chloride	62	1.558	1.558	(0.237)	475271	219.363	43.873
11 Bromomethane	94	1.878	1.878	(0.285)	206444	221.678	44.336
12 Chloroethane	64	1.984	1.984	(0.301)	239123	224.602	44.920
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	475078	233.070	46.614
15 Acrolein	56	2.718	2.718	(0.413)	248110	744.590	148.92
16 Acetone	43	2.919	2.919	(0.443)	327933	410.259	82.052
17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	423069	272.641	54.528
18 Freon-113	151	2.884	2.884	(0.438)	436480	269.107	53.821
19 Iodomethane	142	3.014	3.014	(0.458)	870903	264.577	52.915
20 Carbon Disulfide	76	3.097	3.097	(0.470)	915258	257.745	51.549
21 Methylene Chloride	84	3.487	3.487	(0.529)	425691	252.606	50.521

22 Acetonitrile	41	3.274	3.274 (0.497)	179721	655.993	131.20
23 Acrylonitrile	53	3.866	3.866 (0.587)	568964	628.009	125.60

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141505.D
Report Date: 29-Jul-2010 12:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	936225	254.018	50.804
	25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	471006	270.390	54.078
	26 Hexane	86	4.375	4.375	(0.664)	115098	317.121	63.424(R)
	27 Vinyl acetate	43	4.671	4.670	(0.709)	946065	263.980	52.796
	154 Vinyl Acetate**2nd**	86	4.671	4.682	(0.709)	57918	287.778	57.556(A)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	877820	246.110	49.222
	29 tert-Butyl Alcohol	59	3.748	3.747	(0.569)	621583	4038.85	807.77
	30 2-Butanone	43	5.357	5.357	(0.813)	416897	408.539	81.708
M	31 1,2-Dichloroethene (total)	96				950845	534.673	106.93
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	479839	264.282	52.856
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	248676	245.974	49.195
	34 Bromochloromethane	128	5.593	5.593	(0.849)	264870	238.141	47.628
	35 Chloroform	83	5.712	5.712	(0.867)	694981	248.368	49.674
	36 Tetrahydrofuran	42	5.653	5.653	(0.858)	166138	227.351	45.470
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	559303	255.771	51.154
	38 1,1-Dichloropropene	75	6.079	6.079	(0.923)	574745	284.503	56.900
	39 Carbon Tetrachloride	117	6.079	6.079	(0.923)	603989	245.172	49.034
	40 1,2-Dichloroethane	62	6.303	6.315	(0.957)	588964	221.698	44.340
	41 Benzene	78	6.292	6.292	(0.955)	1553457	269.388	53.878
	42 Trichloroethene	130	6.954	6.954	(1.056)	560200	245.517	49.103
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	431350	243.665	48.733
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	7.262	7.262	(1.102)	215430	247.772	49.554
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	398505	235.936	47.187
	47 2-Chloroethyl vinyl ether	63	7.712	7.711	(1.171)	155034	221.516	44.303
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	436422	244.886	48.977
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	857388	470.708	94.142
	50 Toluene	91	8.126	8.126	(0.872)	1550997	259.095	51.819
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	341493	235.858	47.172
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	261922	265.411	53.082
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	415078	265.687	53.137
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	402021	254.293	50.858
	56 2-Hexanone	43	8.706	8.705	(0.934)	481607	454.620	90.924
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	312211	223.589	44.718
	58 1,2-Dibromoethane	107	8.919	8.918	(0.957)	268155	256.194	51.239
	59 Chlorobenzene	112	9.345	9.344	(1.003)	1084894	256.110	51.222
	60 1,1,1,2-Tetrachloroethane	131	9.416	9.415	(1.010)	429722	248.902	49.780
	61 Ethylbenzene	106	9.439	9.439	(1.013)	590134	272.710	54.542
	62 m + p-Xylene	106	9.534	9.534	(1.023)	1445307	549.974	109.99
M	63 Xylenes (total)	106				2185854	826.951	165.39
	64 Xylene-o	106	9.877	9.877	(1.060)	740547	276.977	55.395
	65 Styrene	104	9.889	9.889	(1.061)	1052548	269.632	53.926
	66 Bromoform	173	10.043	10.043	(1.077)	160737	190.795	38.159
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	1984527	277.748	55.550
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	307909	280.139	56.028
	69 1,4-Dichloro-2-butene	53	10.480	10.480	(0.929)	234477	486.709	97.342
	70 1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	111413	252.783	50.557
	71 Bromobenzene	156	10.445	10.445	(0.926)	478879	251.767	50.353
	72 n-Propylbenzene	120	10.540	10.540	(0.934)	576655	283.741	56.748
	73 2-Chlorotoluene	126	10.611	10.611	(0.940)	501896	259.487	51.897
	74 1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	1651069	285.792	57.158

75	4-Chlorotoluene	126	10.693	10.693 (0.948)	470512	253.431	50.686
76	tert-Butylbenzene	119	10.954	10.954 (0.971)	1641267	274.507	54.901

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141505.D
Report Date: 29-Jul-2010 12:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	1660898	285.237	57.047
78	sec-Butylbenzene	105	11.143	11.143	(0.987)	2180000	292.949	58.590
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	1935670	289.642	57.928
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	948893	248.314	49.663
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	944441	242.342	48.468
82	n-Butylbenzene	91	11.605	11.604	(1.028)	1413201	298.134	59.627
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	909196	242.067	48.413
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	67400	209.307	41.861
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	636335	236.357	47.271
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	344948	224.685	44.937
87	Naphthalene	128	13.167	13.166	(1.167)	1455996	249.739	49.948
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	588539	223.416	44.683
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	6495	10.0983	2.020
89	Ethyl Ether	59	2.588	2.588	(0.393)	401328	221.517	44.303
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.718	4.718	(0.716)	376201	268.078	53.616
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.475	5.463	(0.831)	20863	10.8455	2.169
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.280	6.280	(0.953)	620505	13222.3	2644.4(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.256	10.256	(0.909)	277683	3784.84	756.97(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.948	5.948	(0.903)	1114534	242.964	48.593
143	Methyl Acetate	43	3.369	3.369	(0.511)	404921	200.624	40.125
144	Methylcyclohexane	83	7.132	7.132	(1.083)	834904	303.582	60.716
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.356	11.356	(1.006)	1696607	305.838	61.168(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141505.D
Report Date: 29-Jul-2010 12:24

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

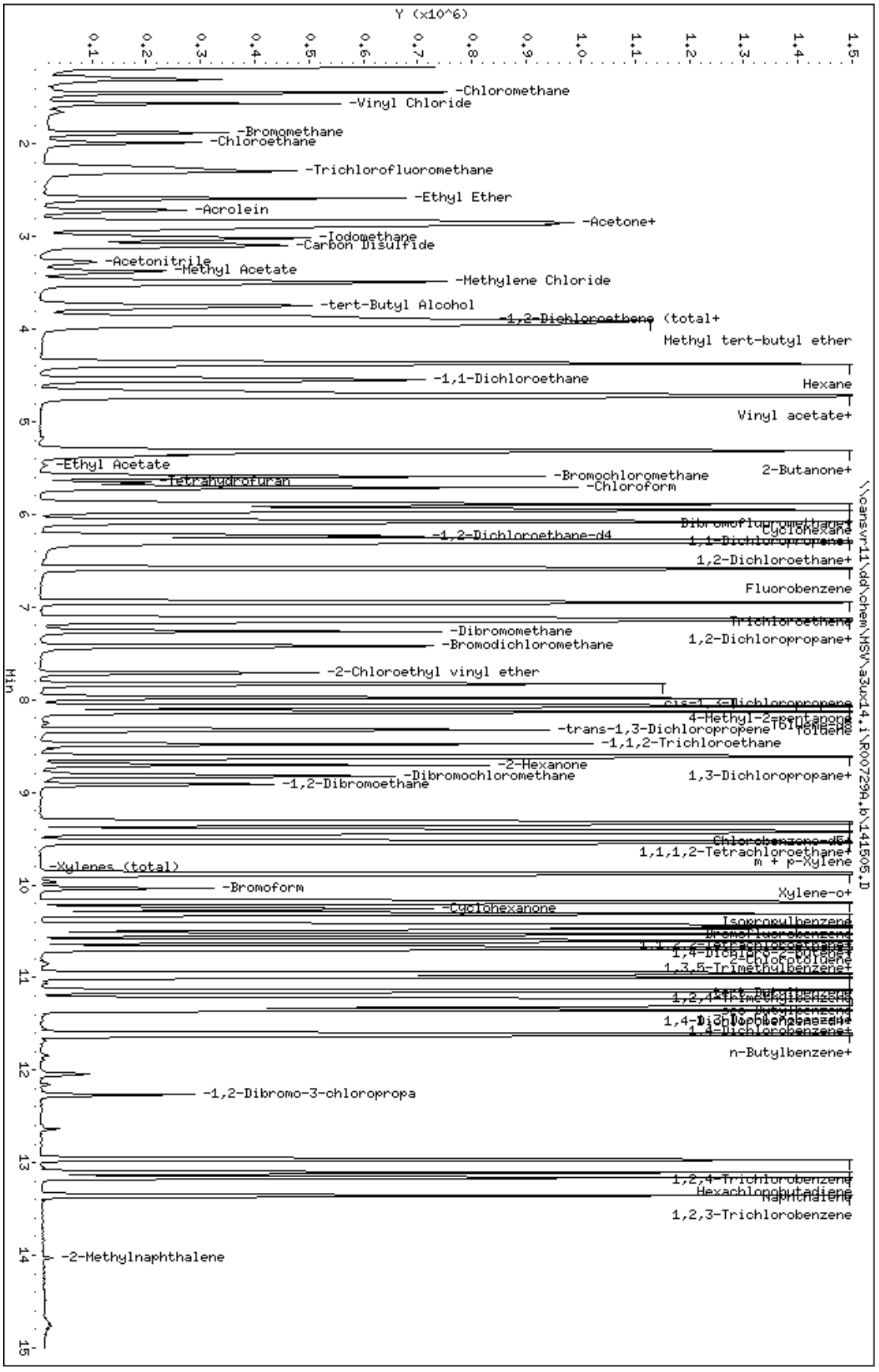
Instrument ID: a3ux14.i
Lab File ID: 141505.D
Lab Smp Id: CHECKDUP
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807,3

Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1580024	1.01
2 Chlorobenzene-d5	1117515	558758	2235030	1115260	-0.20
3 1,4-Dichlorobenze	636663	318332	1273326	638524	0.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total+
Methyl tert-butyl ether
-1,1-Dichloroethane
Hexane
Vinyl acetate+
-Ethyl Acetate
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
2-Butanone+
-1,2-Dichloroethane-d4
Cyclohexane
1,2-Dichloroethane+
Fluorobenzene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
4-Methyl-2-pentanone
-trans-1,3-Dichloropropene
Toluene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
1,1,1,2-Tetrachloroethane+
-Xylenes (total)
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
1,3,5-Trimethylbenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
1,2,4-Trichlorobenzene
1,2,3-Trichlorobenzene
-2-Methylnaphthalene
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141505.D
Date : 29-JUL-2010 11:59
Client ID:
Sample Info: CHECKDUP
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141505.D

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L40X21AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-227 L40X21AD-LCSD
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**105**	**(63 - 130)**			**SW846 8260B**
	100	**(63 - 130)**	**5.4**	**(0-20)**	**SW846 8260B**
Trichloroethene	**103**	**(75 - 122)**			**SW846 8260B**
	95	**(75 - 122)**	**8.0**	**(0-20)**	**SW846 8260B**
Benzene	**98**	**(80 - 116)**			**SW846 8260B**
	93	**(80 - 116)**	**5.4**	**(0-20)**	**SW846 8260B**
Toluene	**100**	**(74 - 119)**			**SW846 8260B**
	96	**(74 - 119)**	**4.7**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**98**	**(76 - 117)**			**SW846 8260B**
	93	**(76 - 117)**	**5.7**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
	87	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	85	(61 - 128)
Toluene-d8	88	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)
	92	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L40X21AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-227 L40X21AD-LCSD
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10**	**11**	**ug/L**	**105**		**SW846 8260B**
	10	**10**	**ug/L**	**100**	**5.4**	**SW846 8260B**
Trichloroethene	**10**	**10**	**ug/L**	**103**		**SW846 8260B**
	10	**9.5**	**ug/L**	**95**	**8.0**	**SW846 8260B**
Benzene	**10**	**9.8**	**ug/L**	**98**		**SW846 8260B**
	10	**9.3**	**ug/L**	**93**	**5.4**	**SW846 8260B**
Toluene	**10**	**10**	**ug/L**	**100**		**SW846 8260B**
	10	**9.6**	**ug/L**	**96**	**4.7**	**SW846 8260B**
Chlorobenzene	**10**	**9.8**	**ug/L**	**98**		**SW846 8260B**
	10	**9.3**	**ug/L**	**93**	**5.7**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
	87	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	85	(61 - 128)
Toluene-d8	88	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)
	92	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1164.D
Report Date: 01-Aug-2010 15:11

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1164.D
Lab Smp Id: LCS
Inj Date : 01-AUG-2010 14:55
Operator : 43582 Inst ID: a3ux11.i
Smp Info : LCS
Misc Info : J00801A,8260LLUX11,,43582,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 3 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1607368	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1149624	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	568518	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	457317	43.2730	8.655
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	843883	44.7251	8.945
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	2048247	44.1947	8.839
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	786010	46.7632	9.353
8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	506082	38.6969	7.739
9 Chloromethane	50	1.792	1.792	(0.335)	972729	47.9442	9.589
10 Vinyl Chloride	62	1.899	1.899	(0.355)	791911	44.5972	8.919
11 Bromomethane	94	2.206	2.206	(0.412)	159736	47.4437	9.489
12 Chloroethane	64	2.301	2.301	(0.430)	305409	50.5257	10.105
13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	557268	48.7205	9.744
15 Acrolein	56	2.822	2.822	(0.527)	355134	157.124	31.425
16 Acetone	43	2.952	2.952	(0.551)	457073	84.7938	16.959
17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	546152	52.5684	10.514
18 Freon-113	151	2.964	2.976	(0.554)	246602	52.9250	10.585
19 Iodomethane	142	3.106	3.106	(0.580)	575555	59.3007	11.860
20 Carbon Disulfide	76	3.165	3.165	(0.591)	1548366	57.3160	11.463
21 Methylene Chloride	84	3.331	3.366	(0.622)	617418	52.7421	10.548

22 Acetonitrile	41	3.189	3.177 (0.596)	257690	131.615	26.323
23 Acrylonitrile	53	3.508	3.508 (0.655)	863117	139.832	27.966

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1164.D
Report Date: 01-Aug-2010 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1853856	52.5938	10.519
	25 trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	608185	50.4262	10.085
	26 Hexane	86	3.792	3.792	(0.708)	157859	47.2241	9.445
	27 Vinyl acetate	43	3.946	3.934	(0.737)	3009165	107.930	21.586
	28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	1333314	51.3966	10.279
	29 tert-Butyl Alcohol	59	3.402	3.390	(0.635)	714688	877.602	175.52
	30 2-Butanone	43	4.384	4.384	(0.819)	779640	90.6279	18.126
M	31 1,2-Dichloroethene (total)	96				1256001	100.885	20.177
	32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	647816	50.4592	10.092
	33 2,2-Dichloropropane	77	4.396	4.396	(0.821)	496720	51.6529	10.330
	34 Bromochloromethane	128	4.585	4.585	(0.856)	275409	51.5741	10.315
	35 Chloroform	83	4.644	4.644	(0.867)	1188356	52.2535	10.451
	36 Tetrahydrofuran	42	4.632	4.632	(0.865)	261846	45.8211	9.164
	37 1,1,1-Trichloroethane	97	4.822	4.822	(0.901)	728200	52.2530	10.450
	38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	975916	48.6456	9.729
	39 Carbon Tetrachloride	117	4.964	4.964	(0.927)	616027	51.1655	10.233
	40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	1127925	51.4647	10.293
	41 Benzene	78	5.129	5.129	(0.958)	2828764	49.1914	9.838
	42 Trichloroethene	130	5.673	5.673	(1.060)	574187	51.4609	10.292
	43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	771704	50.7535	10.151
	44 1,4-Dioxane	88	5.946	5.957	(1.110)	1609	16.2252	3.245
	45 Dibromomethane	93	5.957	5.957	(1.113)	396466	53.0763	10.615
	46 Bromodichloromethane	83	6.076	6.076	(1.135)	833055	53.5320	10.706
	47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	483712	48.5581	9.712
	48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	996043	49.4276	9.886
	49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1523437	100.934	20.187
	50 Toluene	91	6.786	6.786	(0.844)	2845795	50.2152	10.043
	51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	957861	51.6210	10.324
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	531553	48.1816	9.636
	54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	1134678	49.0756	9.815
	55 Tetrachloroethene	164	7.283	7.283	(0.906)	430984	49.0404	9.808
	56 2-Hexanone	43	7.342	7.342	(0.913)	1035344	101.553	20.311
	57 Dibromochloromethane	129	7.496	7.496	(0.932)	487280	52.2127	10.442
	58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	532203	50.9941	10.199
	59 Chlorobenzene	112	8.064	8.064	(1.003)	1625224	49.2212	9.844
	60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	530734	52.7108	10.542
	61 Ethylbenzene	106	8.158	8.158	(1.015)	907092	49.8443	9.969
	62 m + p-Xylene	106	8.277	8.265	(1.029)	2257864	99.6762	19.935
M	63 Xylenes (total)	106				3371646	151.204	30.241
	64 Xylene-o	106	8.655	8.655	(1.077)	1113782	51.5280	10.306
	65 Styrene	104	8.655	8.655	(1.077)	1905215	52.0088	10.402
	66 Bromoform	173	8.845	8.845	(1.100)	247668	44.5467	8.909
	67 Isopropylbenzene	105	8.999	8.999	(1.119)	2825606	49.7186	9.944
	68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	720447	46.5538	9.311
	69 1,4-Dichloro-2-butene	53	9.330	9.318	(0.907)	313888	71.3424	14.268
	70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	229938	47.9004	9.580
	71 Bromobenzene	156	9.306	9.306	(0.905)	629909	49.5425	9.908
	72 n-Propylbenzene	120	9.401	9.401	(0.914)	748256	49.7009	9.940
	73 2-Chlorotoluene	126	9.496	9.496	(0.923)	628592	48.7898	9.758
	74 1,3,5-Trimethylbenzene	105	9.567	9.567	(0.930)	2358901	49.2070	9.841
	75 4-Chlorotoluene	126	9.590	9.590	(0.932)	651423	47.4358	9.487

76 tert-Butylbenzene	119	9.898	9.898 (0.962)	1886766	47.3720	9.474
77 1,2,4-Trimethylbenzene	105	9.945	9.933 (0.967)	2512760	50.1710	10.034

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1164.D
Report Date: 01-Aug-2010 15:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	2817997	47.6156	9.523
79	4-Isopropyltoluene	119	10.253	10.253	(0.997)	2328087	50.8386	10.168
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1186538	47.6959	9.539
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1211973	47.8486	9.570
82	n-Butylbenzene	91	10.655	10.655	(1.036)	2151456	50.9185	10.184
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	1088332	48.4603	9.692
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	56372	51.6381	10.328
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	334054	45.2683	9.054
86	Hexachlorobutadiene	225	12.466	12.466	(1.212)	113354	43.8796	8.776
87	Naphthalene	128	12.537	12.537	(1.219)	955422	41.7105	8.342
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	327622	46.4113	9.282
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.715	2.715	(0.507)	660111	68.8115	13.762
91	3-Chloropropene	76	3.165	3.224	(0.591)	1548366	315.341	63.068
92	Isopropyl Ether	87	3.958	3.958	(0.739)	583646	58.6993	11.740
93	2-Chloro-1,3-butadiene	53	3.792	3.993	(0.708)	28695	1.81447	0.3629
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	4.384	4.431	(0.819)	779640	74.5793	14.916
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.999	4.999	(0.622)	1029876	3353.25	670.65
100	Methyl Methacrylate	41	5.851	5.922	(1.093)	1119621	128.473	25.694
101	2-Nitropropane	41	6.324	6.265	(1.181)	34837	16.7089	3.342
98	Cyclohexane	56	4.881	4.881	(0.912)	1060609	45.4114	9.082
99	n-Butanol	56	5.555	5.555	(0.691)	13284	104.759	20.952
103	Cyclohexanone	55	9.093	9.093	(0.884)	275957	775.535	155.11
143	Methyl Acetate	43	3.236	3.236	(0.604)	699685	49.5465	9.909
144	Methylcyclohexane	83	5.851	5.851	(1.093)	988660	46.2840	9.257
146	2-Methylnaphthalene	142	13.897	13.897	(1.351)	9615	10.5595	2.112
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	131514	60.0873	12.017
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	5.129	5.212	(0.958)	53547	2.09889	0.4198(a)
157	1,2,3-Trimethylbenzene	105	10.359	10.359	(1.007)	2502715	60.1803	12.036

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1164.D
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TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

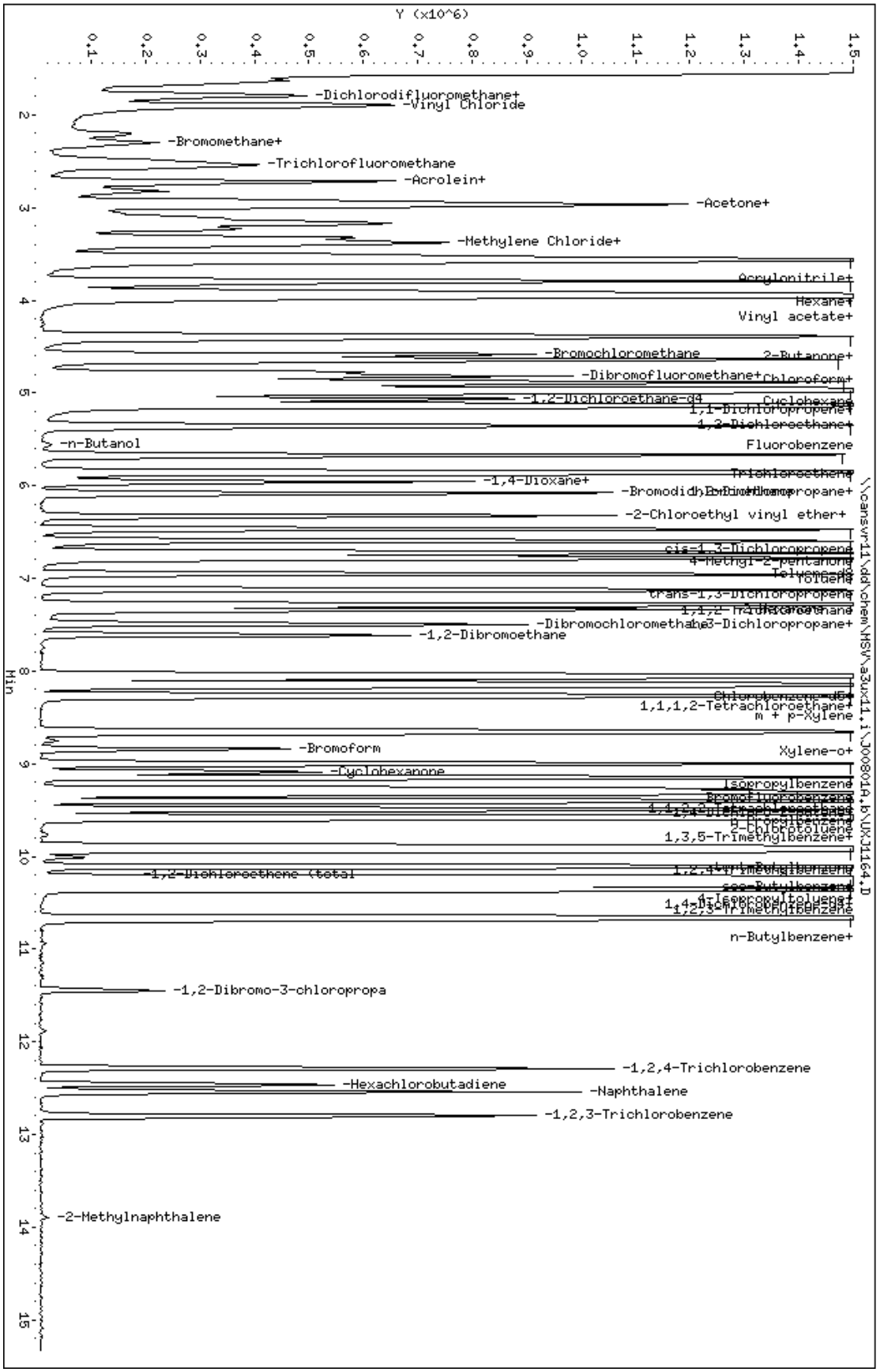
Instrument ID: a3ux11.i
Lab File ID: UXJ1164.D
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582,3

Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1607368	-1.42
2 Chlorobenzene-d5	1193156	596578	2386312	1149624	-3.65
3 1,4-Dichlorobenze	593165	296583	1186330	568518	-4.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
2
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9
10
11
12
13
14
15
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein+
-Acetone+
-Methylene Chloride+
Acrylonitrile+
Hexane+
Vinyl acetate+
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane+
Chloroform+
-1,2-Dichloroethane-d4
Cyclohexane
1,1-Dichloropropene+
1,2-Dichloroethane+
-n-Butanol
Fluorobenzene
Trichloroethene
-1,4-Dioxane+
-2-Chloroethyl vinyl ether+
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
trans-1,3-Dichloropropene
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
2-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total
4-Isopropyltoluene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J000801A.b\UXJ1164.D
Date : 01-AUG-2010 14:55
Client ID:
Sample Info: LCS
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux11.i\J000801A.b\UXJ1164.D

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1165.D
Report Date: 02-Aug-2010 08:18

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1165.D
Lab Smp Id: LCSD
Inj Date : 01-AUG-2010 15:18
Operator : 43582 Inst ID: a3ux11.i
Smp Info : LCSD
Misc Info : J00801A,8260LLUX11,,43582,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1661967	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1173652	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	584800	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	473513	43.3336	8.667
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	831948	42.6440	8.529
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	2063659	43.6156	8.723
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	787898	45.9158	9.183
8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	609139	45.0469	9.009
9 Chloromethane	50	1.792	1.792	(0.335)	944212	45.0097	9.002
10 Vinyl Chloride	62	1.899	1.899	(0.355)	813030	44.2824	8.856
11 Bromomethane	94	2.206	2.206	(0.412)	151283	43.6310	8.726
12 Chloroethane	64	2.301	2.301	(0.430)	291793	46.6873	9.337
13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	590146	49.8484	9.970
15 Acrolein	56	2.822	2.822	(0.527)	363321	155.466	31.093
16 Acetone	43	2.952	2.952	(0.551)	480755	86.3733	17.275
17 1,1-Dichloroethene	96	2.976	2.964	(0.556)	534891	49.7931	9.959
18 Freon-113	151	2.976	2.976	(0.556)	270759	56.2005	11.240
19 Iodomethane	142	3.106	3.106	(0.580)	547205	54.5276	10.906
20 Carbon Disulfide	76	3.165	3.165	(0.591)	1523995	54.5605	10.912
21 Methylene Chloride	84	3.319	3.366	(0.620)	601122	49.2622	9.852

22 Acetonitrile	41	3.189	3.177 (0.596)	277744	137.197	27.439
23 Acrylonitrile	53	3.520	3.508 (0.657)	909278	142.471	28.494

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1165.D
Report Date: 02-Aug-2010 08:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1803202	49.4761	9.895
25	trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	598360	47.9817	9.596
26	Hexane	86	3.792	3.792	(0.708)	195152	56.4626	11.292
27	Vinyl acetate	43	3.946	3.934	(0.737)	2900643	100.619	20.124
28	1,1-Dichloroethane	63	3.910	3.910	(0.730)	1289230	48.0646	9.613
29	tert-Butyl Alcohol	59	3.390	3.390	(0.633)	796985	946.508	189.30
30	2-Butanone	43	4.384	4.384	(0.819)	788264	88.6201	17.724
M 31	1,2-Dichloroethene (total)	96				1230677	95.6157	19.123
32	cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	632317	47.6340	9.527
33	2,2-Dichloropropane	77	4.396	4.396	(0.821)	503162	50.6039	10.121
34	Bromochloromethane	128	4.585	4.585	(0.856)	270804	49.0457	9.809
35	Chloroform	83	4.644	4.644	(0.867)	1144928	48.6901	9.738
36	Tetrahydrofuran	42	4.632	4.632	(0.865)	270333	45.7471	9.149
37	1,1,1-Trichloroethane	97	4.821	4.822	(0.901)	721012	50.0375	10.008
38	1,1-Dichloropropene	75	4.952	4.952	(0.925)	997912	48.1079	9.622
39	Carbon Tetrachloride	117	4.963	4.964	(0.927)	645328	51.8384	10.368
40	1,2-Dichloroethane	62	5.129	5.129	(0.958)	1067215	47.0949	9.419
41	Benzene	78	5.129	5.129	(0.958)	2772374	46.6270	9.325
42	Trichloroethene	130	5.673	5.673	(1.060)	548029	47.5029	9.500
43	1,2-Dichloropropane	63	5.851	5.851	(1.093)	752950	47.8933	9.579
44	1,4-Dioxane	88	5.946	5.957	(1.110)	2100	20.4808	4.096
45	Dibromomethane	93	5.957	5.957	(1.113)	388215	50.2644	10.053
46	Bromodichloromethane	83	6.076	6.076	(1.135)	803928	49.9632	9.993
47	2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	485044	47.0922	9.418
48	cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	993222	47.6684	9.534
49	4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1510067	96.7617	19.352
50	Toluene	91	6.786	6.786	(0.844)	2772876	47.9268	9.585
51	trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	935304	49.3734	9.875
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	525764	46.6812	9.336
54	1,3-Dichloropropane	76	7.283	7.283	(0.906)	1127635	47.7725	9.554
55	Tetrachloroethene	164	7.283	7.283	(0.906)	429920	47.9178	9.584
56	2-Hexanone	43	7.342	7.342	(0.913)	1043546	100.262	20.052
57	Dibromochloromethane	129	7.496	7.496	(0.932)	484904	50.8944	10.179
58	1,2-Dibromoethane	107	7.614	7.614	(0.947)	517335	48.5547	9.711
59	Chlorobenzene	112	8.064	8.064	(1.003)	1566513	46.4718	9.294
60	1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	515096	50.1103	10.022
61	Ethylbenzene	106	8.158	8.158	(1.015)	898096	48.3396	9.668
62	m + p-Xylene	106	8.277	8.265	(1.029)	2232210	96.5262	19.305
M 63	Xylenes (total)	106				3289956	144.460	28.892
64	Xylene-o	106	8.655	8.655	(1.077)	1057746	47.9337	9.587
65	Styrene	104	8.655	8.655	(1.077)	1831647	48.9769	9.795
66	Bromoform	173	8.845	8.845	(1.100)	243760	43.0505	8.610
67	Isopropylbenzene	105	8.999	8.999	(1.119)	2845738	49.0477	9.810
68	1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	703256	44.1777	8.836
69	1,4-Dichloro-2-butene	53	9.330	9.318	(0.907)	405278	89.5495	17.910
70	1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	227584	46.0900	9.218
71	Bromobenzene	156	9.306	9.306	(0.905)	594321	45.4421	9.088
72	n-Propylbenzene	120	9.401	9.401	(0.914)	733106	47.3388	9.468
73	2-Chlorotoluene	126	9.495	9.496	(0.923)	615765	46.4635	9.293
74	1,3,5-Trimethylbenzene	105	9.566	9.567	(0.930)	2360346	47.8663	9.573
75	4-Chlorotoluene	126	9.590	9.590	(0.932)	645004	45.6607	9.132

76 tert-Butylbenzene	119	9.898	9.898 (0.962)	1881249	45.9184	9.184
77 1,2,4-Trimethylbenzene	105	9.933	9.933 (0.965)	2444456	47.4483	9.490

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1165.D
Report Date: 02-Aug-2010 08:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	2825627	46.4153	9.283
79	4-Isopropyltoluene	119	10.253	10.253	(0.997)	2296717	48.7572	9.751
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1167238	45.6138	9.123
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1199211	46.0266	9.205
82	n-Butylbenzene	91	10.655	10.655	(1.036)	2150807	49.4859	9.897
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	1064436	46.0767	9.215
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	56122	49.9778	9.996
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	346805	45.6878	9.138
86	Hexachlorobutadiene	225	12.466	12.466	(1.212)	114255	42.9970	8.599
87	Naphthalene	128	12.537	12.537	(1.219)	945021	40.1988	8.040
88	1,2,3-Trichlorobenzene	180	12.809	12.797	(1.245)	322367	44.3954	8.879
14	Dichlorofluoromethane	67	2.467	2.455	(0.461)	10180	0.65729	0.1314
89	Ethyl Ether	59	2.715	2.715	(0.507)	656703	66.2074	13.241
91	3-Chloropropene	76	3.165	3.224	(0.591)	1523995	300.181	60.036
92	Isopropyl Ether	87	3.958	3.958	(0.739)	573735	55.8068	11.161
93	2-Chloro-1,3-butadiene	53	3.792	3.993	(0.708)	36465	2.23004	0.4460
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	4.384	4.431	(0.819)	772106	71.4322	14.286
96	Methacrylonitrile	41	4.632	4.561	(0.865)	142362	19.9770	3.995
97	Isobutanol	41	4.987	4.999	(0.620)	1130937	3606.92	721.38
100	Methyl Methacrylate	41	5.851	5.922	(1.093)	1207229	133.975	26.795
101	2-Nitropropane	41	6.253	6.265	(1.168)	5079	2.35601	0.4712
98	Cyclohexane	56	4.881	4.881	(0.912)	1202974	49.8149	9.963
99	n-Butanol	56	5.555	5.555	(0.691)	1699	58.1852	11.637
103	Cyclohexanone	55	9.093	9.093	(0.884)	330914	901.114	180.22
143	Methyl Acetate	43	3.236	3.236	(0.604)	711644	48.7378	9.748
144	Methylcyclohexane	83	5.851	5.851	(1.093)	1183371	53.5794	10.716
146	2-Methylnaphthalene	142	13.886	13.897	(1.350)	1510	9.60921	1.922
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	123011	54.3560	10.871
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	5.129	5.212	(0.958)	47937	1.81727	0.3634(a)
157	1,2,3-Trimethylbenzene	105	10.359	10.359	(1.007)	2423600	56.7986	11.360

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1165.D
Report Date: 02-Aug-2010 08:18

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

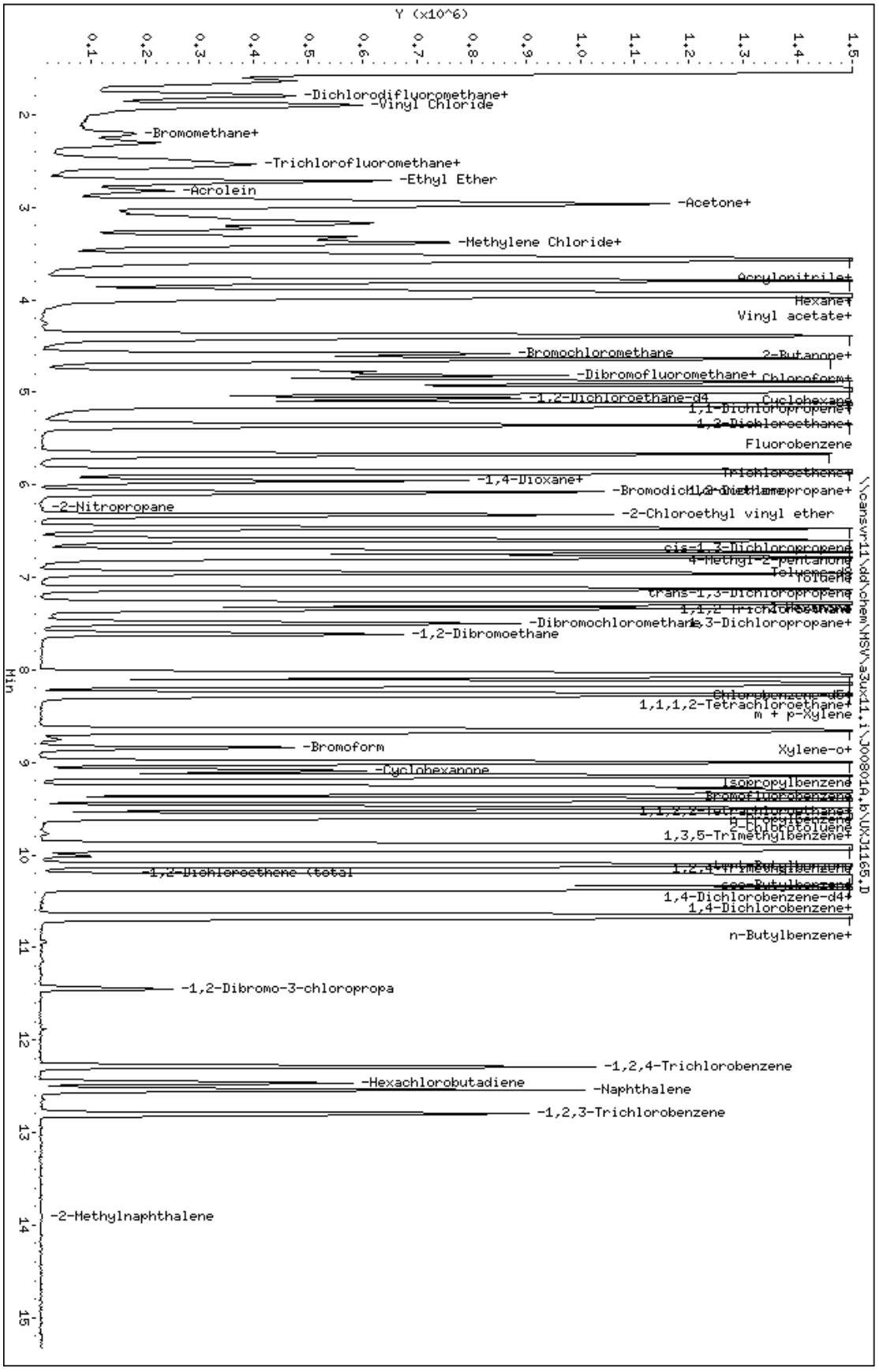
Instrument ID: a3ux11.i
Lab File ID: UXJ1165.D
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582,3

Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1661967	1.93
2 Chlorobenzene-d5	1193156	596578	2386312	1173652	-1.63
3 1,4-Dichlorobenze	593165	296583	1186330	584800	-1.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1165.D
Date : 01-AUG-2010 15:18
Client ID:
Sample Info: LCSD
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodiflyoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane+
-Ethyl Ether
-Acrolein
-Acetone+
-Methylene Chloride+
Acrylonitrile+
Hexane+
Vinyl acetate+
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane+
Chloroform+
-1,2-Dichloroethane-d4
Cyclohexane
1,1-Dichloropropene+
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene+
-1,4-Dioxane+
-Bromodichloromethane+
-2-Nitropropane
-2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene-d8
Toluene
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
-Dibromochloromethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane+
n-Chlorotoluene
2-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total
1,2,4-Trimethylbenzene+
sec-Butylbenzene+
1,4-Dichlorobenzene-d4
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L416P1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H030000-229 L416P1AD-LCSD
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215229
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**87**	**(63 - 130)**			**SW846 8260B**
	87	**(63 - 130)**	**0.74**	**(0-20)**	**SW846 8260B**
Trichloroethene	**101**	**(75 - 122)**			**SW846 8260B**
	102	**(75 - 122)**	**0.93**	**(0-20)**	**SW846 8260B**
Benzene	**97**	**(80 - 116)**			**SW846 8260B**
	96	**(80 - 116)**	**0.90**	**(0-20)**	**SW846 8260B**
Toluene	**94**	**(74 - 119)**			**SW846 8260B**
	94	**(74 - 119)**	**0.34**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**94**	**(76 - 117)**			**SW846 8260B**
	95	**(76 - 117)**	**0.67**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	89	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	93	(61 - 128)
Toluene-d8	86	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L416P1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H030000-229 L416P1AD-LCSD
Prep Date.....: 08/02/10 **Analysis Date..:** 08/02/10
Prep Batch #...: 0215229
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10**	**8.7**	**ug/L**	**87**		**SW846 8260B**
	10	**8.7**	**ug/L**	**87**	**0.74**	**SW846 8260B**
Trichloroethene	**10**	**10**	**ug/L**	**101**		**SW846 8260B**
	10	**10**	**ug/L**	**102**	**0.93**	**SW846 8260B**
Benzene	**10**	**9.7**	**ug/L**	**97**		**SW846 8260B**
	10	**9.6**	**ug/L**	**96**	**0.90**	**SW846 8260B**
Toluene	**10**	**9.4**	**ug/L**	**94**		**SW846 8260B**
	10	**9.4**	**ug/L**	**94**	**0.34**	**SW846 8260B**
Chlorobenzene	**10**	**9.4**	**ug/L**	**94**		**SW846 8260B**
	10	**9.5**	**ug/L**	**95**	**0.67**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	89	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	93	(61 - 128)
Toluene-d8	86	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1220.D
Report Date: 03-Aug-2010 08:40

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1220.D
Lab Smp Id: LCS
Inj Date : 02-AUG-2010 23:03
Operator : 43582 Inst ID: a3ux11.i
Smp Info : LCS
Misc Info : J00802B,8260LLUX11,,43582,3
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Meth Date : 03-Aug-2010 08:40 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 34 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1355177	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1001286	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	501056	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	382763	42.9585	8.592
$ 5 1,2-Dichloroethane-d4	65	5.070	5.070	(0.947)	729147	45.8356	9.167
$ 6 Toluene-d8	98	6.727	6.726	(0.837)	1729043	42.8343	8.567
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	670663	45.8118	9.162
8 Dichlorodifluoromethane	85	1.650	1.650	(0.308)	321044	29.1165	5.823
9 Chloromethane	50	1.792	1.804	(0.335)	724264	42.3409	8.468
10 Vinyl Chloride	62	1.899	1.899	(0.355)	532107	35.5427	7.108
11 Bromomethane	94	2.195	2.194	(0.410)	112335	39.9176	7.984
12 Chloroethane	64	2.301	2.301	(0.430)	232136	45.5504	9.110
13 Trichlorofluoromethane	101	2.502	2.514	(0.467)	397172	41.5150	8.303
15 Acrolein	56	2.822	2.822	(0.527)	262491	137.748	27.550
16 Acetone	43	2.952	2.952	(0.551)	415204	91.8818	18.376
17 1,1-Dichloroethene	96	2.976	2.964	(0.556)	379328	43.3057	8.661
18 Freon-113	151	2.964	2.975	(0.554)	166232	42.3154	8.463
19 Iodomethane	142	3.106	3.106	(0.580)	422300	51.6076	10.322
20 Carbon Disulfide	76	3.165	3.165	(0.591)	1097989	48.2080	9.642
21 Methylene Chloride	84	3.330	3.354	(0.622)	483627	48.5142	9.703

22 Acetonitrile	41	3.189	3.177 (0.596)	223098	135.152	27.030
23 Acrylonitrile	53	3.520	3.508 (0.657)	756441	145.356	29.071

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1220.D
Report Date: 03-Aug-2010 08:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1598741	53.7967	10.759
25	trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	505489	49.7109	9.942
26	Hexane	86	3.792	3.792	(0.708)	107665	38.2022	7.640
27	Vinyl acetate	43	3.946	3.934	(0.737)	2126425	90.4615	18.092
28	1,1-Dichloroethane	63	3.910	3.910	(0.730)	1122153	51.3066	10.261
29	tert-Butyl Alcohol	59	3.401	3.401	(0.635)	706131	1028.46	205.69
30	2-Butanone	43	4.384	4.384	(0.819)	681855	94.0111	18.802
M 31	1,2-Dichloroethene (total)	96				1054453	100.428	20.086
32	cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	548964	50.7168	10.143
33	2,2-Dichloropropane	77	4.395	4.395	(0.821)	345537	42.6184	8.524
34	Bromochloromethane	128	4.585	4.585	(0.856)	243379	54.0575	10.811
35	Chloroform	83	4.644	4.644	(0.867)	1026077	53.5141	10.703
36	Tetrahydrofuran	42	4.632	4.632	(0.865)	258048	54.1379	10.828
37	1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	587489	50.0011	10.000
38	1,1-Dichloropropene	75	4.952	4.952	(0.925)	797578	47.1545	9.431
39	Carbon Tetrachloride	117	4.963	4.963	(0.927)	484236	47.7039	9.541
40	1,2-Dichloroethane	62	5.129	5.129	(0.958)	989993	53.5773	10.715
41	Benzene	78	5.129	5.129	(0.958)	2349676	48.4640	9.693
42	Trichloroethene	130	5.673	5.662	(1.060)	475577	50.5550	10.111
43	1,2-Dichloropropane	63	5.851	5.851	(1.093)	650109	50.7132	10.143
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	5.957	5.957	(1.113)	345973	54.9359	10.987
46	Bromodichloromethane	83	6.076	6.076	(1.135)	718251	54.7439	10.949
47	2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	430905	51.3069	10.261
48	cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	817143	48.0960	9.619
49	4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1323176	103.980	20.796
50	Toluene	91	6.786	6.786	(0.844)	2310791	46.8156	9.363
51	trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	802021	49.6258	9.925
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	459734	47.8453	9.569
54	1,3-Dichloropropane	76	7.283	7.283	(0.906)	992177	49.2696	9.854
55	Tetrachloroethene	164	7.283	7.283	(0.906)	323272	42.2337	8.447
56	2-Hexanone	43	7.342	7.342	(0.913)	919574	103.561	20.712
57	Dibromochloromethane	129	7.496	7.496	(0.932)	410369	50.4859	10.097
58	1,2-Dibromoethane	107	7.614	7.614	(0.947)	453397	49.8792	9.976
59	Chlorobenzene	112	8.064	8.064	(1.003)	1353781	47.0744	9.415
60	1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	446097	50.8686	10.174
61	Ethylbenzene	106	8.158	8.158	(1.015)	729133	46.0011	9.200
62	m + p-Xylene	106	8.277	8.277	(1.029)	1807358	91.6085	18.322
M 63	Xylenes (total)	106				2699589	139.002	27.800
64	Xylene-o	106	8.655	8.655	(1.077)	892231	47.3934	9.479
65	Styrene	104	8.655	8.655	(1.077)	1576065	49.3975	9.879
66	Bromoform	173	8.845	8.845	(1.100)	195496	40.6443	8.129
67	Isopropylbenzene	105	8.998	8.998	(1.119)	2259036	45.6382	9.128
68	1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	612262	44.8898	8.978
69	1,4-Dichloro-2-butene	53	9.330	9.318	(0.907)	232004	59.8311	11.966
70	1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	207195	48.9740	9.795
71	Bromobenzene	156	9.306	9.306	(0.905)	530270	47.3211	9.464
72	n-Propylbenzene	120	9.401	9.401	(0.914)	573794	43.2442	8.649
73	2-Chlorotoluene	126	9.495	9.495	(0.923)	504559	44.4355	8.887
74	1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	1862375	44.0801	8.816
75	4-Chlorotoluene	126	9.590	9.590	(0.932)	544273	44.9694	8.994

76 tert-Butylbenzene	119	9.898	9.898 (0.962)	1489017	42.4191	8.484
77 1,2,4-Trimethylbenzene	105	9.933	9.933 (0.965)	2034426	46.0894	9.218

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1220.D
Report Date: 03-Aug-2010 08:40

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ug/L)
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	2135706	40.9457	8.189
79 4-Isopropyltoluene	119	10.253	10.253	(0.997)	1786915	44.2748	8.855
80 1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	971177	44.2951	8.859
81 1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1020301	45.7049	9.141
82 n-Butylbenzene	91	10.655	10.655	(1.036)	1650978	44.3346	8.867
83 1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	950233	48.0079	9.602
84 1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	54905	57.0659	11.413
85 1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	274319	42.1786	8.436
86 Hexachlorobutadiene	225	12.466	12.465	(1.212)	87127	38.2681	7.654
87 Naphthalene	128	12.537	12.536	(1.219)	809940	40.2103	8.042
88 1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	273491	43.9594	8.792
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	2.715	2.715	(0.507)	579093	71.5998	14.320
91 3-Chloropropene	76	3.165	3.224	(0.591)	1097989	265.231	53.046
92 Isopropyl Ether	87	3.958	3.958	(0.739)	481335	57.4182	11.484
93 2-Chloro-1,3-butadiene	53	3.792	3.993	(0.708)	26698	2.00236	0.4005
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.384	4.431	(0.819)	681855	77.3634	15.473
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	4.999	4.999	(0.622)	1100501	4114.05	822.81
100 Methyl Methacrylate	41	5.946	5.922	(1.110)	7293	0.99258	0.1985
101 2-Nitropropane	41	6.265	6.265	(1.170)	3852	2.19135	0.4383
98 Cyclohexane	56	4.881	4.881	(0.912)	738888	37.5239	7.505
99 n-Butanol	56	5.555	5.555	(0.691)	2240	61.8232	12.365
103 Cyclohexanone	55	9.093	9.093	(0.884)	320158	1015.22	203.04
143 Methyl Acetate	43	3.236	3.224	(0.604)	626406	52.6121	10.522
144 Methylcyclohexane	83	5.851	5.851	(1.093)	668087	37.0968	7.419
146 2-Methylnaphthalene	142	13.897	13.897	(1.351)	9346	10.6749	2.135
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	3.934	3.934	(0.735)	68999	37.3915	7.478
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	5.129	5.212	(0.958)	44628	2.07482	0.4150(a)
157 1,2,3-Trimethylbenzene	105	10.359	10.359	(1.007)	2088100	57.1013	11.420

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1220.D
Report Date: 03-Aug-2010 08:40

TestAmerica North Canton

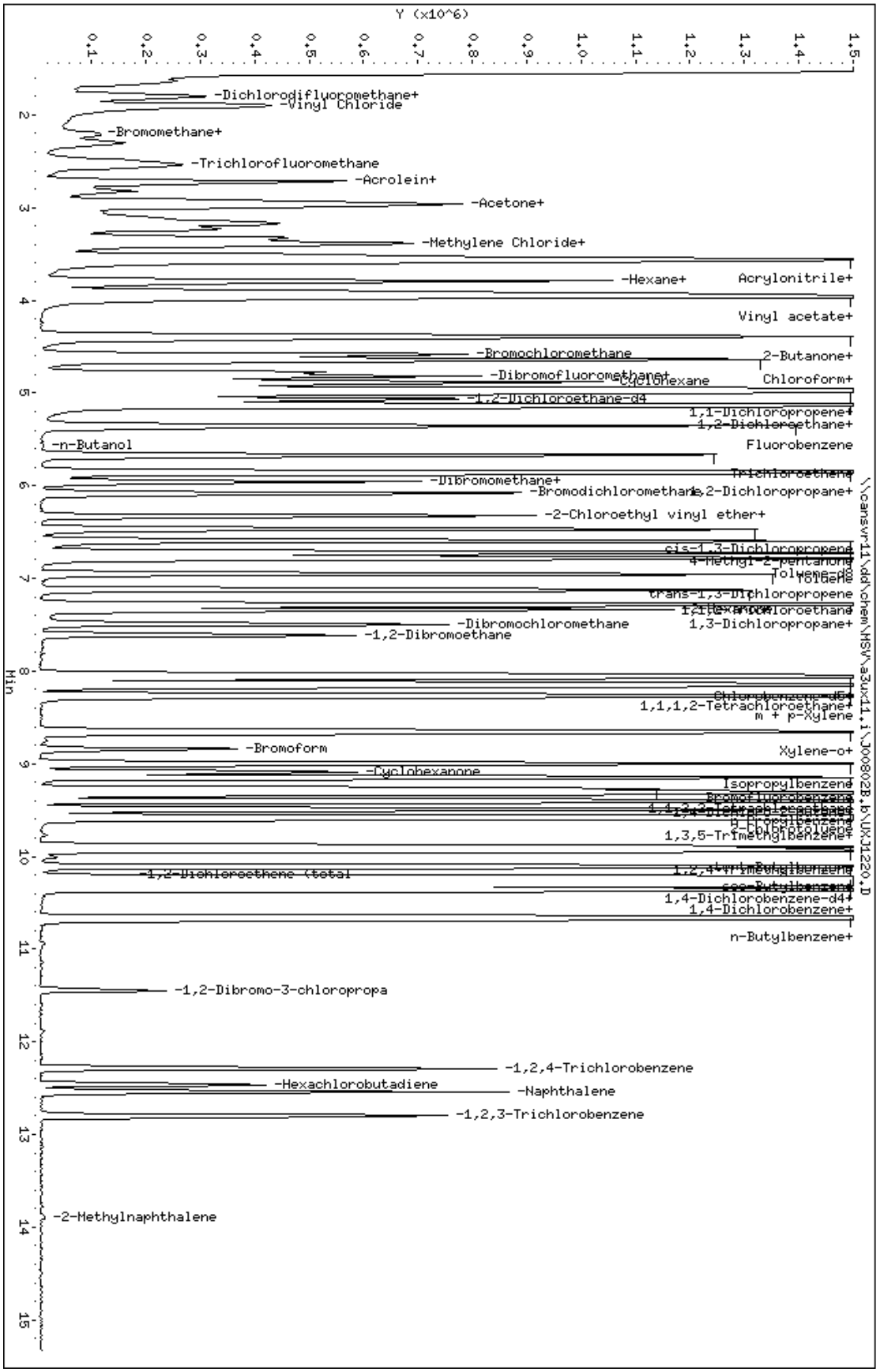
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Calibration Date: 02-AUG-2010
Lab File ID: UXJ1220.D
Calibration Time: 22:18
Lab Smp Id: LCS
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: WATER
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Misc Info: J00802B,8260LLUX11,,43582,3

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1338892	669446	2677784	1355177	1.22
2 Chlorobenzene-d5	992965	496483	1985930	1001286	0.84
3 1,4-Dichlorobenze	498138	249069	996276	501056	0.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1220.D
Date : 02-AUG-2010 23:03
Client ID:
Sample Info: LCS
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein+
-Acetone+
-Methylene Chloride+
-Hexane+
Acrylonitrile+
Vinyl acetate+
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane+
Cyclohexane
Chloroform+
-1,2-Dichloroethane-d4
1,1-Dichloropropene+
1,2-Dichloroethane+
-n-Butanol
Fluorobenzene
Trichloroethene
-Dibromomethane+
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether+
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene-d8
Toluene
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
4-Chlorotoluene
1,3,5-Trimethylbenzene
-1,2-Dichloroethene (total
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
\\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1220.D

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1221.D
Report Date: 03-Aug-2010 08:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1221.D
Lab Smp Id: LCSD
Inj Date : 02-AUG-2010 23:26
Operator : 43582 Inst ID: a3ux11.i
Smp Info : LCSD
Misc Info : J00802B,8260LLUX11,,43582,3
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Meth Date : 03-Aug-2010 08:40 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 35 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANPMSV30

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1384480	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1022471	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	518638	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	403112	44.2848	8.857
$ 5 1,2-Dichloroethane-d4	65	5.070	5.070	(0.947)	752081	46.2767	9.255
$ 6 Toluene-d8	98	6.727	6.726	(0.837)	1795418	43.5570	8.711
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	708815	47.4148	9.483
8 Dichlorodifluoromethane	85	1.638	1.650	(0.306)	353128	31.3485	6.270
9 Chloromethane	50	1.804	1.804	(0.337)	754920	43.1990	8.640
10 Vinyl Chloride	62	1.899	1.899	(0.355)	544045	35.5709	7.114
11 Bromomethane	94	2.218	2.194	(0.414)	121165	42.0285	8.406
12 Chloroethane	64	2.289	2.301	(0.428)	236345	45.3948	9.079
13 Trichlorofluoromethane	101	2.502	2.514	(0.467)	405923	41.5308	8.306
15 Acrolein	56	2.834	2.822	(0.529)	253663	130.298	26.060
16 Acetone	43	2.952	2.952	(0.551)	412598	89.1888	17.838
17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	390459	43.6330	8.726
18 Freon-113	151	2.976	2.975	(0.556)	168090	41.8827	8.376
19 Iodomethane	142	3.106	3.106	(0.580)	444430	53.1625	10.632
20 Carbon Disulfide	76	3.165	3.165	(0.591)	1126650	48.4194	9.684
21 Methylene Chloride	84	3.331	3.354	(0.622)	487781	47.8077	9.562

22 Acetonitrile	41	3.189	3.177 (0.596)	236511	140.245	28.049
23 Acrylonitrile	53	3.520	3.508 (0.657)	768176	144.486	28.897

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1221.D
Report Date: 03-Aug-2010 08:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1634434	53.8337	10.767
	25 trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	503210	48.4394	9.688
	26 Hexane	86	3.792	3.792	(0.708)	113154	39.3001	7.860
	27 Vinyl acetate	43	3.946	3.934	(0.737)	2061645	85.8493	17.170
	28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	1135929	50.8372	10.167
	29 tert-Butyl Alcohol	59	3.402	3.401	(0.635)	725437	1034.21	206.84
	30 2-Butanone	43	4.384	4.384	(0.819)	679317	91.6788	18.336
M	31 1,2-Dichloroethene (total)	96				1056304	98.4562	19.691
	32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	553094	50.0169	10.003
	33 2,2-Dichloropropane	77	4.396	4.395	(0.821)	364236	43.9739	8.795
	34 Bromochloromethane	128	4.585	4.585	(0.856)	234345	50.9492	10.190
	35 Chloroform	83	4.644	4.644	(0.867)	1042376	53.2136	10.643
	36 Tetrahydrofuran	42	4.632	4.632	(0.865)	256223	52.5211	10.504
	37 1,1,1-Trichloroethane	97	4.821	4.821	(0.901)	609926	50.8120	10.162
	38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	794059	45.9529	9.190
	39 Carbon Tetrachloride	117	4.963	4.963	(0.927)	501546	48.3634	9.673
	40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	1010993	53.5558	10.711
	41 Benzene	78	5.129	5.129	(0.958)	2378863	48.0276	9.606
	42 Trichloroethene	130	5.673	5.662	(1.060)	490420	51.0294	10.206
	43 1,2-Dichloropropane	63	5.851	5.851	(1.093)	670314	51.1826	10.236
	44 1,4-Dioxane	88	5.934	5.957	(1.108)	612	7.16498	1.433
	45 Dibromomethane	93	5.957	5.957	(1.113)	358240	55.6798	11.136
	46 Bromodichloromethane	83	6.076	6.076	(1.135)	717265	53.5116	10.702
	47 2-Chloroethyl vinyl ether	63	6.324	6.324	(1.181)	420473	49.0052	9.801
	48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	840599	48.4294	9.686
	49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1349412	103.798	20.760
	50 Toluene	91	6.786	6.786	(0.844)	2367702	46.9747	9.395
	51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	809664	49.0607	9.812
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	465424	47.4338	9.487
	54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	1006464	48.9436	9.789
	55 Tetrachloroethene	164	7.283	7.283	(0.906)	345099	44.1511	8.830
	56 2-Hexanone	43	7.342	7.342	(0.913)	906427	99.9650	19.993
	57 Dibromochloromethane	129	7.496	7.496	(0.932)	415307	50.0347	10.007
	58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	478576	51.5583	10.312
	59 Chlorobenzene	112	8.064	8.064	(1.003)	1391894	47.3969	9.479
	60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	451645	50.4342	10.087
	61 Ethylbenzene	106	8.158	8.158	(1.015)	742903	45.8987	9.180
	62 m + p-Xylene	106	8.277	8.277	(1.029)	1860013	92.3240	18.465
M	63 Xylenes (total)	106				2780629	140.212	28.042
	64 Xylene-o	106	8.655	8.655	(1.077)	920616	47.8879	9.578
	65 Styrene	104	8.655	8.655	(1.077)	1592090	48.8658	9.773
	66 Bromoform	173	8.845	8.845	(1.100)	197525	40.2459	8.049
	67 Isopropylbenzene	105	8.999	8.998	(1.119)	2333985	46.1754	9.235
	68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	614669	43.5385	8.708
	69 1,4-Dichloro-2-butene	53	9.318	9.318	(0.906)	231674	57.7205	11.544
	70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	204872	46.7833	9.357
	71 Bromobenzene	156	9.306	9.306	(0.905)	540696	46.6158	9.323
	72 n-Propylbenzene	120	9.401	9.401	(0.914)	590779	43.0149	8.603
	73 2-Chlorotoluene	126	9.495	9.495	(0.923)	530096	45.1019	9.020
	74 1,3,5-Trimethylbenzene	105	9.566	9.566	(0.930)	1977018	45.2072	9.041
	75 4-Chlorotoluene	126	9.590	9.590	(0.932)	573427	45.7721	9.154

76	tert-Butylbenzene	119	9.898	9.898 (0.962)	1522835	41.9118	8.382
77	1,2,4-Trimethylbenzene	105	9.933	9.933 (0.965)	2096796	45.8921	9.178

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1221.D
Report Date: 03-Aug-2010 08:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78 sec-Butylbenzene	105	10.111	10.111	(0.983)	2219134	41.1029	8.220
79 4-Isopropyltoluene	119	10.253	10.253	(0.997)	1842798	44.1115	8.822
80 1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1008611	44.4430	8.888
81 1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1050793	45.4751	9.095
82 n-Butylbenzene	91	10.655	10.655	(1.036)	1721059	44.6497	8.930
83 1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	968995	47.2962	9.459
84 1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	56315	56.5472	11.309
85 1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	275358	40.9030	8.181
86 Hexachlorobutadiene	225	12.466	12.465	(1.212)	96665	41.0181	8.204
87 Naphthalene	128	12.537	12.536	(1.219)	825448	39.6275	7.925
88 1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	280230	43.5156	8.703
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	2.715	2.715	(0.507)	579659	70.1529	14.030
91 3-Chloropropene	76	3.165	3.224	(0.591)	1126650	266.394	53.279
92 Isopropyl Ether	87	3.958	3.958	(0.739)	496071	57.9236	11.585
93 2-Chloro-1,3-butadiene	53	3.804	3.993	(0.711)	19672	1.44418	0.2888
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	4.384	4.431	(0.819)	679317	75.4441	15.089
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	4.999	4.999	(0.622)	1115833	4084.94	816.99
100 Methyl Methacrylate	41	5.851	5.922	(1.093)	900920	120.020	24.004
101 2-Nitropropane	41	6.324	6.265	(1.181)	28676	15.9681	3.194
98 Cyclohexane	56	4.881	4.881	(0.912)	743144	36.9412	7.388
99 n-Butanol	56	5.697	5.555	(0.709)	751	54.8993	10.980
103 Cyclohexanone	55	9.093	9.093	(0.884)	312610	958.695	191.74
143 Methyl Acetate	43	3.224	3.224	(0.602)	638991	52.5332	10.507
144 Methylcyclohexane	83	5.851	5.851	(1.093)	704154	38.2720	7.654
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	3.934	3.934	(0.735)	70456	37.3729	7.474
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	5.129	5.212	(0.958)	45928	2.09007	0.4180(a)
157 1,2,3-Trimethylbenzene	105	10.359	10.359	(1.007)	2146252	56.7190	11.344

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1221.D
Report Date: 03-Aug-2010 08:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

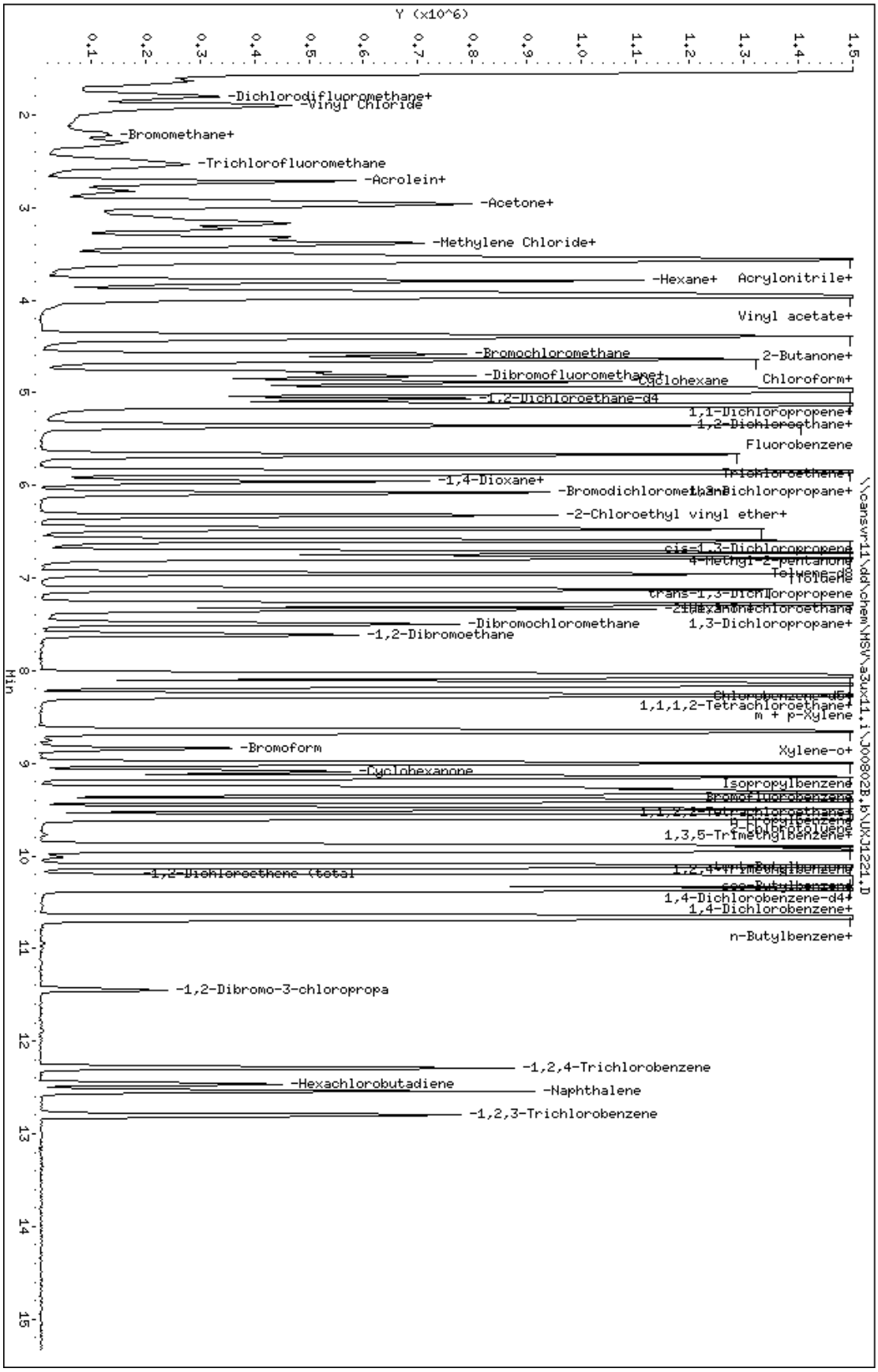
Instrument ID: a3ux11.i
Lab File ID: UXJ1221.D
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Misc Info: J00802B,8260LLUX11,,43582,3

Calibration Date: 02-AUG-2010
Calibration Time: 22:18
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1338892	669446	2677784	1384480	3.40
2 Chlorobenzene-d5	992965	496483	1985930	1022471	2.97
3 1,4-Dichlorobenze	498138	249069	996276	518638	4.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UX31221.D
Date : 02-AUG-2010 23:26
Client ID:
Sample Info: LCSD
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Acrolein+
-Acetone+
-Methylene Chloride+
-Hexane+
Acrylonitrile+
Vinyl acetate+
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane+
Cyclohexane
Chloroform+
-1,2-Dichloroethane-d4
1,1-Dichloropropene+
1,2-Dichloroethane+
Fluorobenzene
-1,4-Dioxane+
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether+
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene-d8
Toluene
trans-1,3-Dichloropropene
1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane+
n-Propylbenzene
2-Chlorotoluene
1,3,5-Trimethylbenzene+
1,2,4-Trimethylbenzene
-1,2-Dichloroethene (total
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UX31221.D

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WK61AA **Matrix.....:** SOLID
MB Lot-Sample #: A0G300000-125

Prep Date.....: 07/29/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 07/29/10 **Prep Batch #...:** 0211125
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	10	ug/kg	SW846 8260B
Methylcyclohexane	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WK61AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	20	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

NOTE(S):

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

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D
Report Date: 29-Jul-2010 12:41

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D
Lab Smp Id: VBLK
Inj Date : 29-JUL-2010 12:21
Operator : 2807 Inst ID: a3ux14.i
Smp Info : VBLK,5G/5ML
Misc Info : R00729A,8260SUX14,,2807,3,,BLANK,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1480421	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	1062102	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	618299	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	405197	212.895	42.579
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	414276	210.781	42.156
$ 6 Toluene-d8	98	8.067	8.066	(0.865)	1353177	233.613	46.722
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	463587	248.350	49.670
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	2.919	2.919	(0.443)	41971	36.5376	7.308
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D
Report Date: 29-Jul-2010 12:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	154 Vinyl Acetate**2nd**	86	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	5.664	5.653	(0.860)	10071	14.7089	2.942
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	4047	2.33301	0.4666
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	867	4.46714	0.8934
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	8.705	8.705	(0.934)	4672	4.63093	0.9262
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					

75	4-Chlorotoluene	126	Compound Not Detected.
76	tert-Butylbenzene	119	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D
Report Date: 29-Jul-2010 12:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
78	sec-Butylbenzene	105	Compound Not Detected.					
79	4-Isopropyltoluene	119	Compound Not Detected.					
80	1,3-Dichlorobenzene	146	Compound Not Detected.					
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	4601	1.21923	0.2438
82	n-Butylbenzene	91	Compound Not Detected.					
83	1,2-Dichlorobenzene	146	Compound Not Detected.					
84	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	3402	1.30495	0.2610
86	Hexachlorobutadiene	225	Compound Not Detected.					
87	Naphthalene	128	13.166	13.166	(1.167)	13098	2.32012	0.4640
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	4161	1.63123	0.3262
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	2933	9.11454	1.823
89	Ethyl Ether	59	Compound Not Detected.					
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	Compound Not Detected.					
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	Compound Not Detected.					
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	Compound Not Detected.					
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.256	10.256	(0.909)	3452	48.5901	9.718
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	Compound Not Detected.					
143	Methyl Acetate	43	Compound Not Detected.					
144	Methylcyclohexane	83	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.356	11.356	(1.006)	1897	0.35315	0.07063(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D
Report Date: 29-Jul-2010 12:41

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141506.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807,3,,BLANK,,0

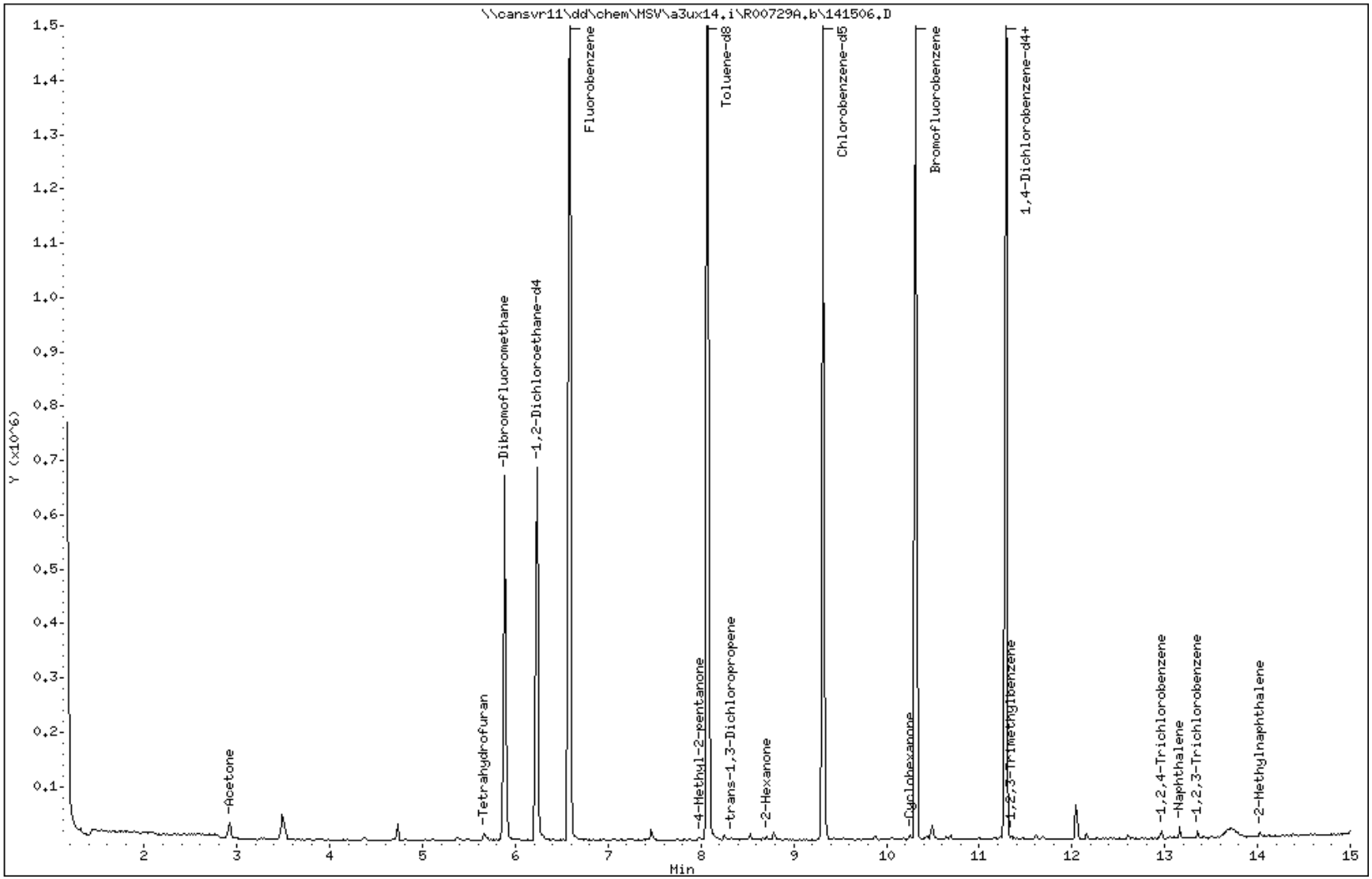
Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1480421	-5.35
2 Chlorobenzene-d5	1117515	558758	2235030	1062102	-4.96
3 1,4-Dichlorobenze	636663	318332	1273326	618299	-2.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D
Date : 29-JUL-2010 12:21
Client ID:
Instrument: a3ux14.i
Sample Info: VBLK,5G/5ML
Purge Volume: 5.0
Operator: 2807
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

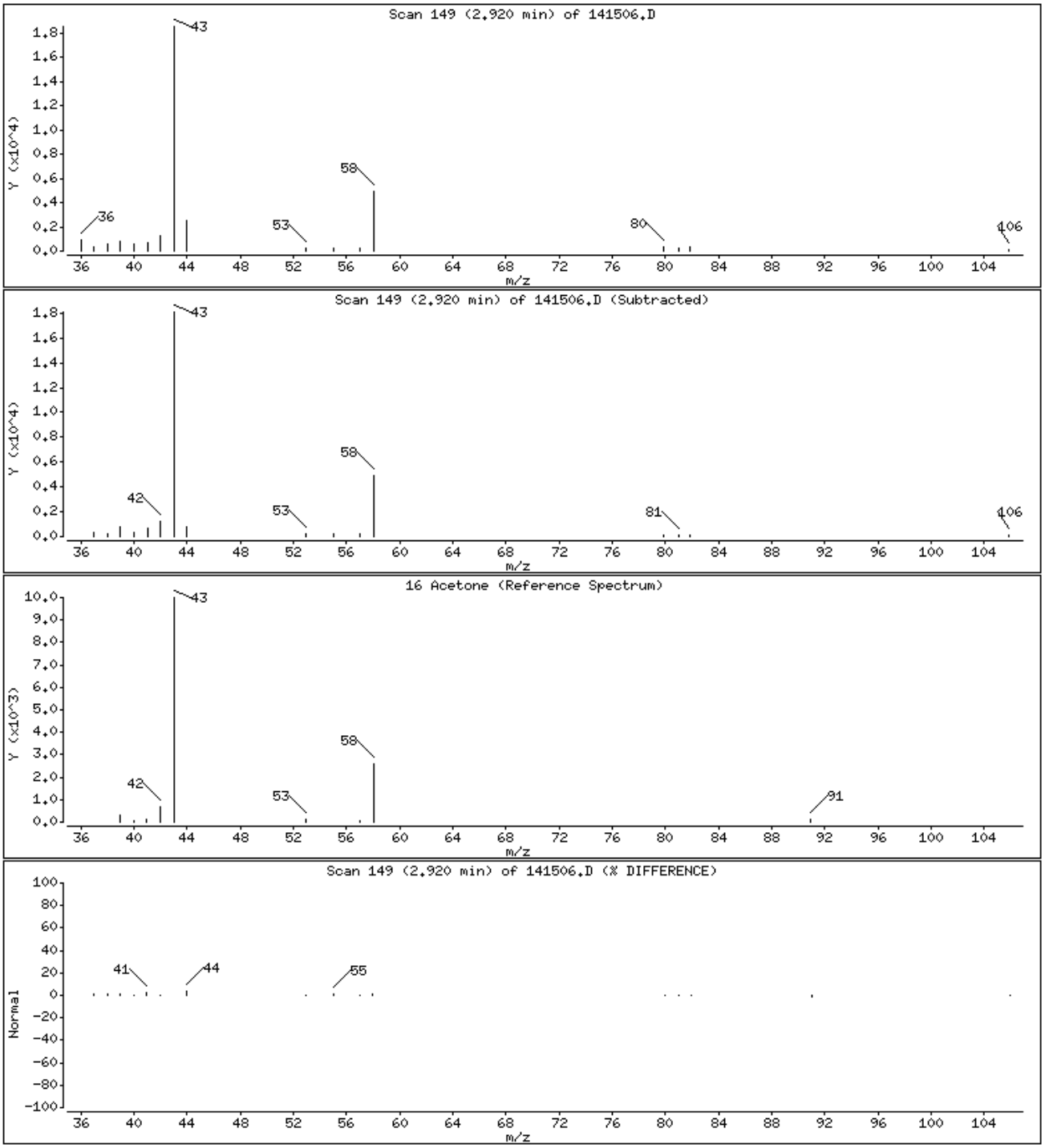
Operator: 2807

Column phase: DB624

Column diameter: 0.18

16 Acetone

Concentration: 7.308 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

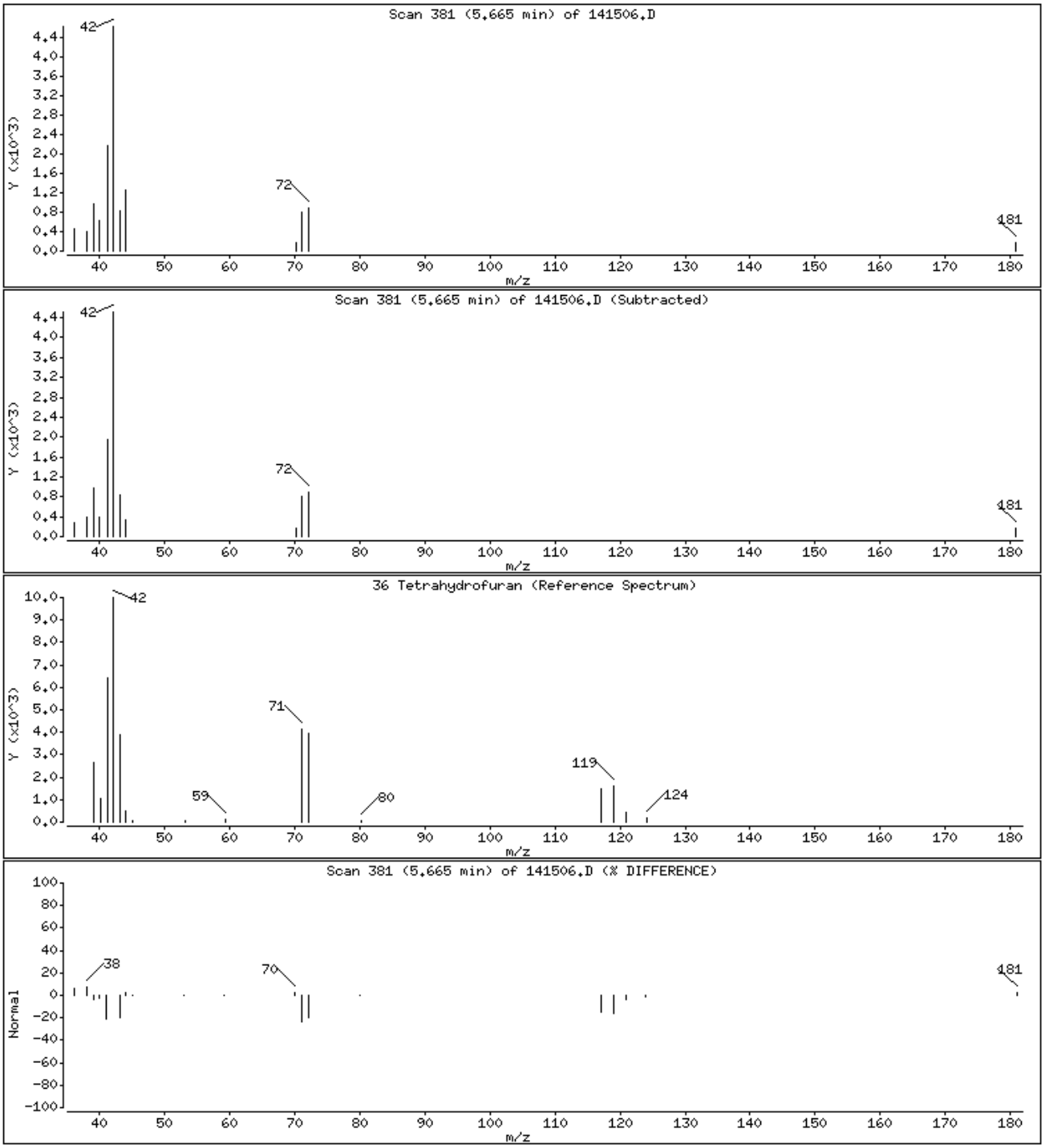
Operator: 2807

Column phase: DB624

Column diameter: 0.18

36 Tetrahydrofuran

Concentration: 2.942 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

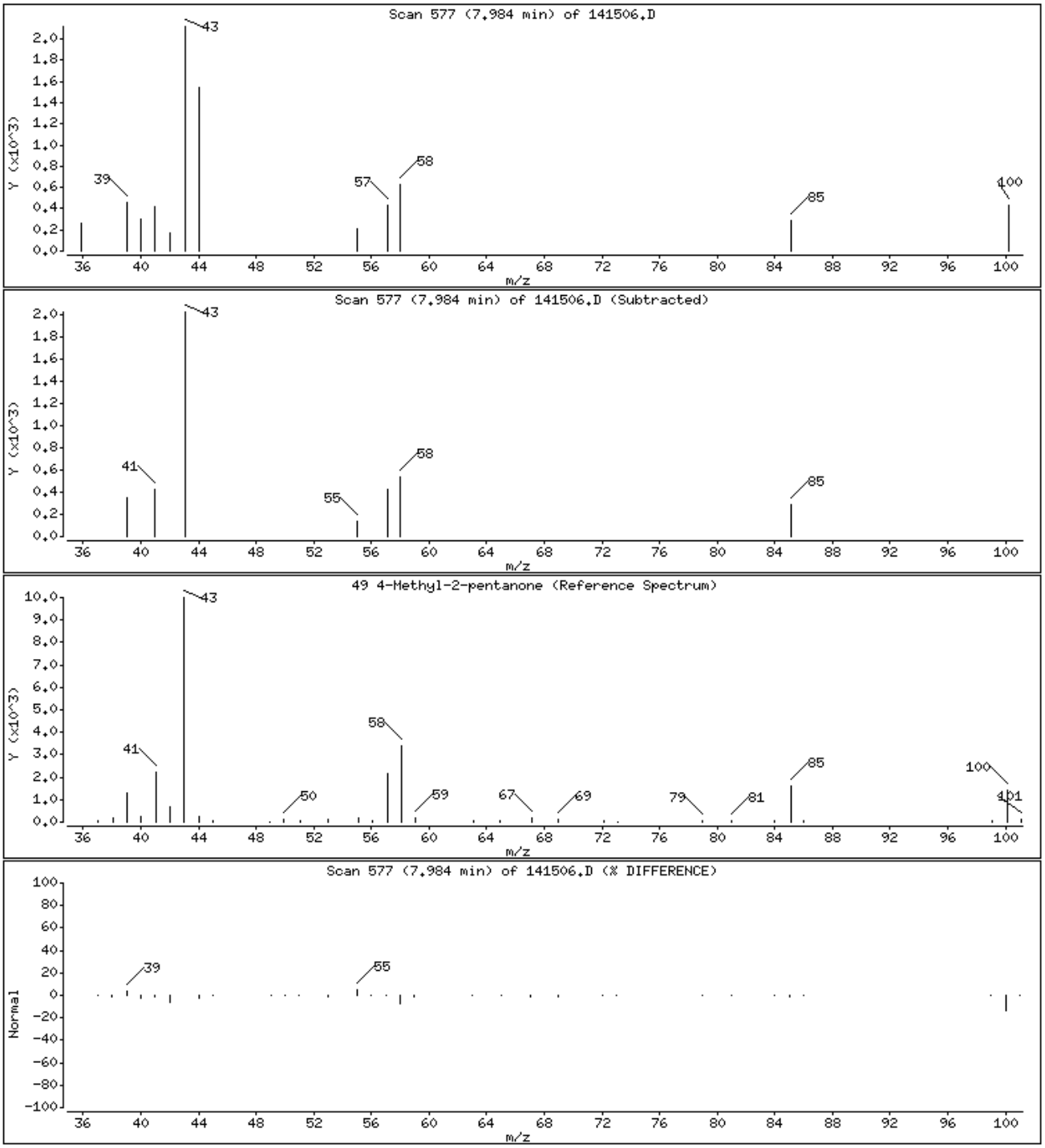
Operator: 2807

Column phase: DB624

Column diameter: 0.18

49 4-Methyl-2-pentanone

Concentration: 0.4666 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

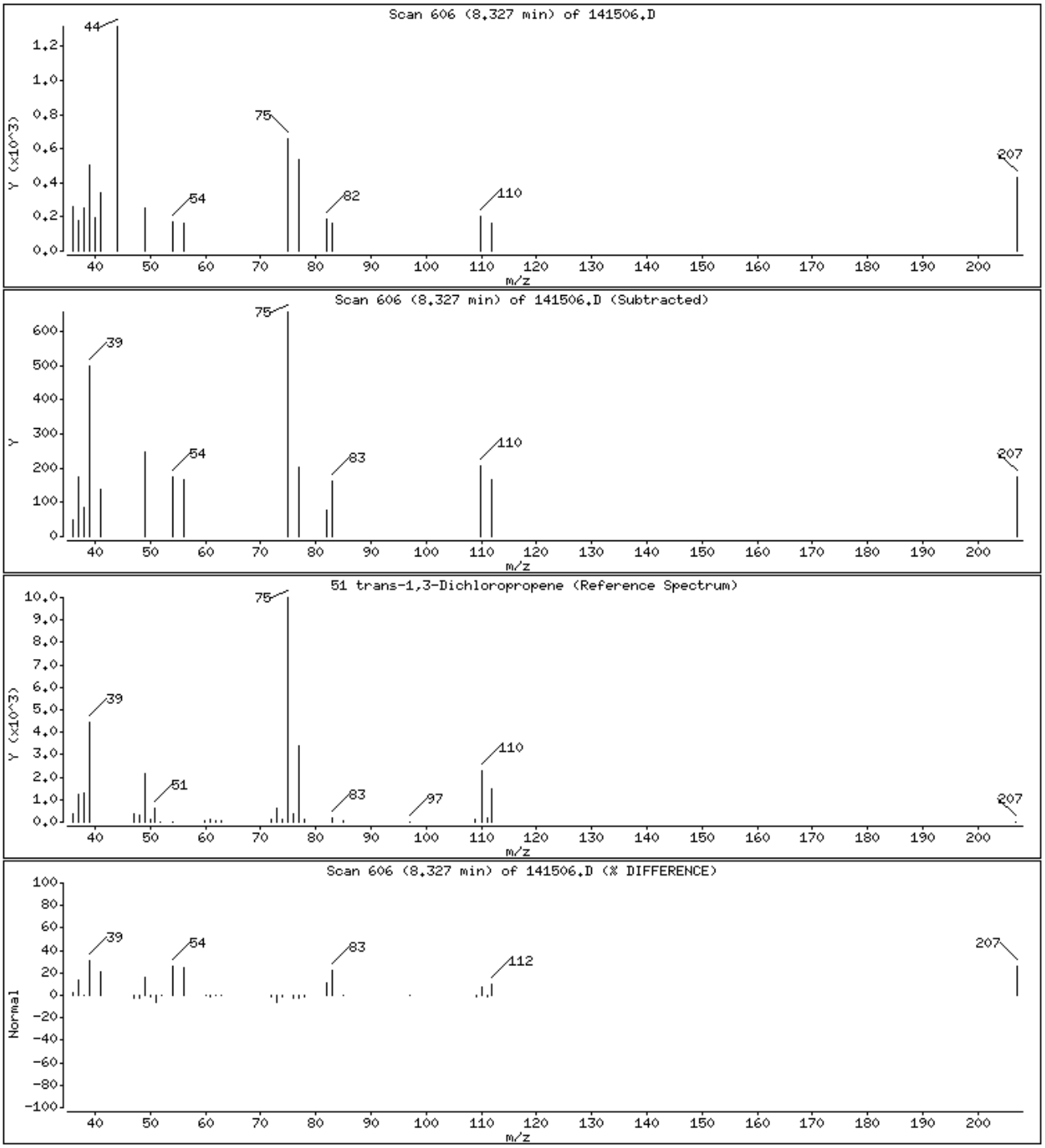
Operator: 2807

Column phase: DB624

Column diameter: 0.18

51 trans-1,3-Dichloropropene

Concentration: 0.8934 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

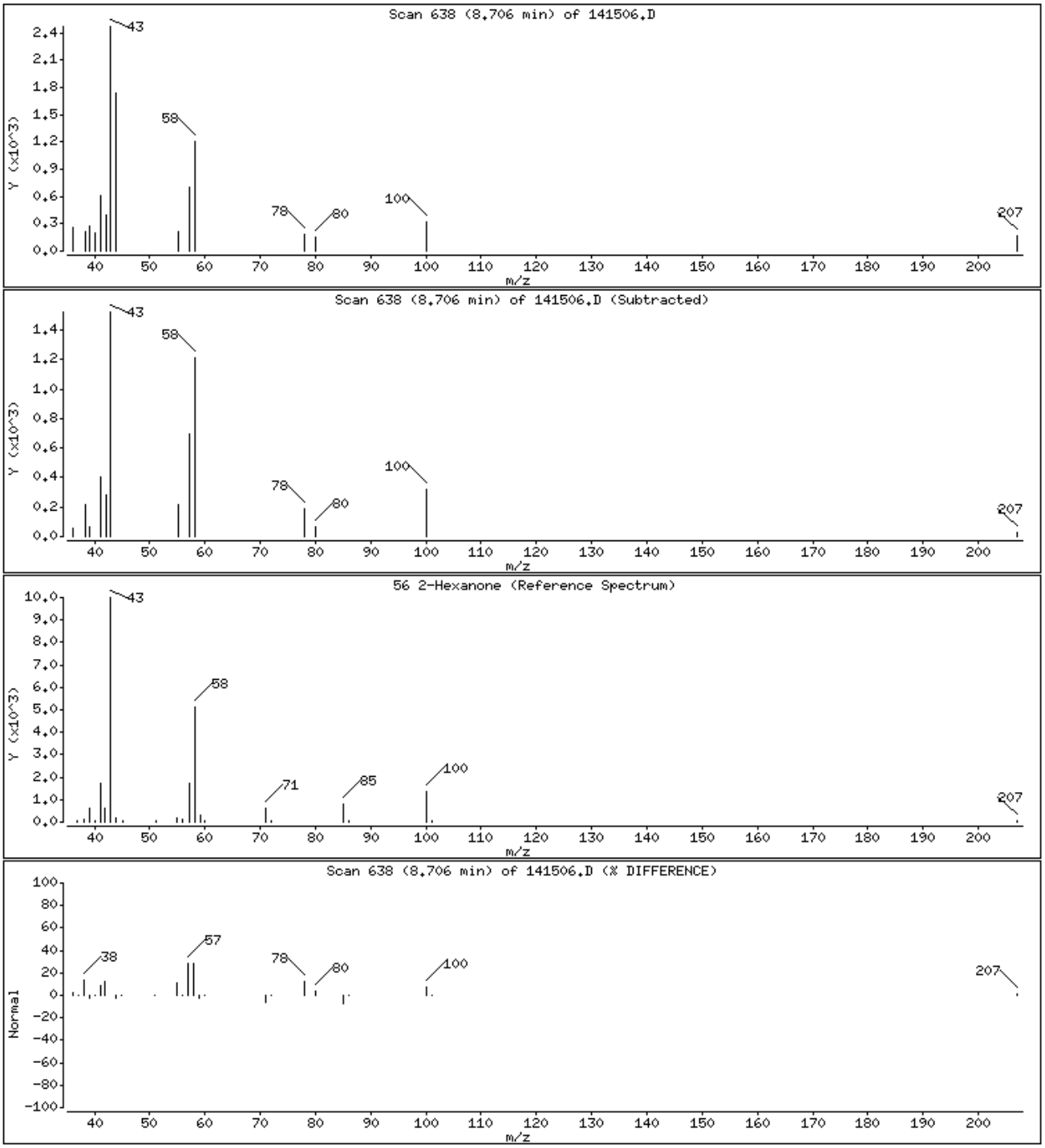
Operator: 2807

Column phase: DB624

Column diameter: 0.18

56 2-Hexanone

Concentration: 0.9262 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

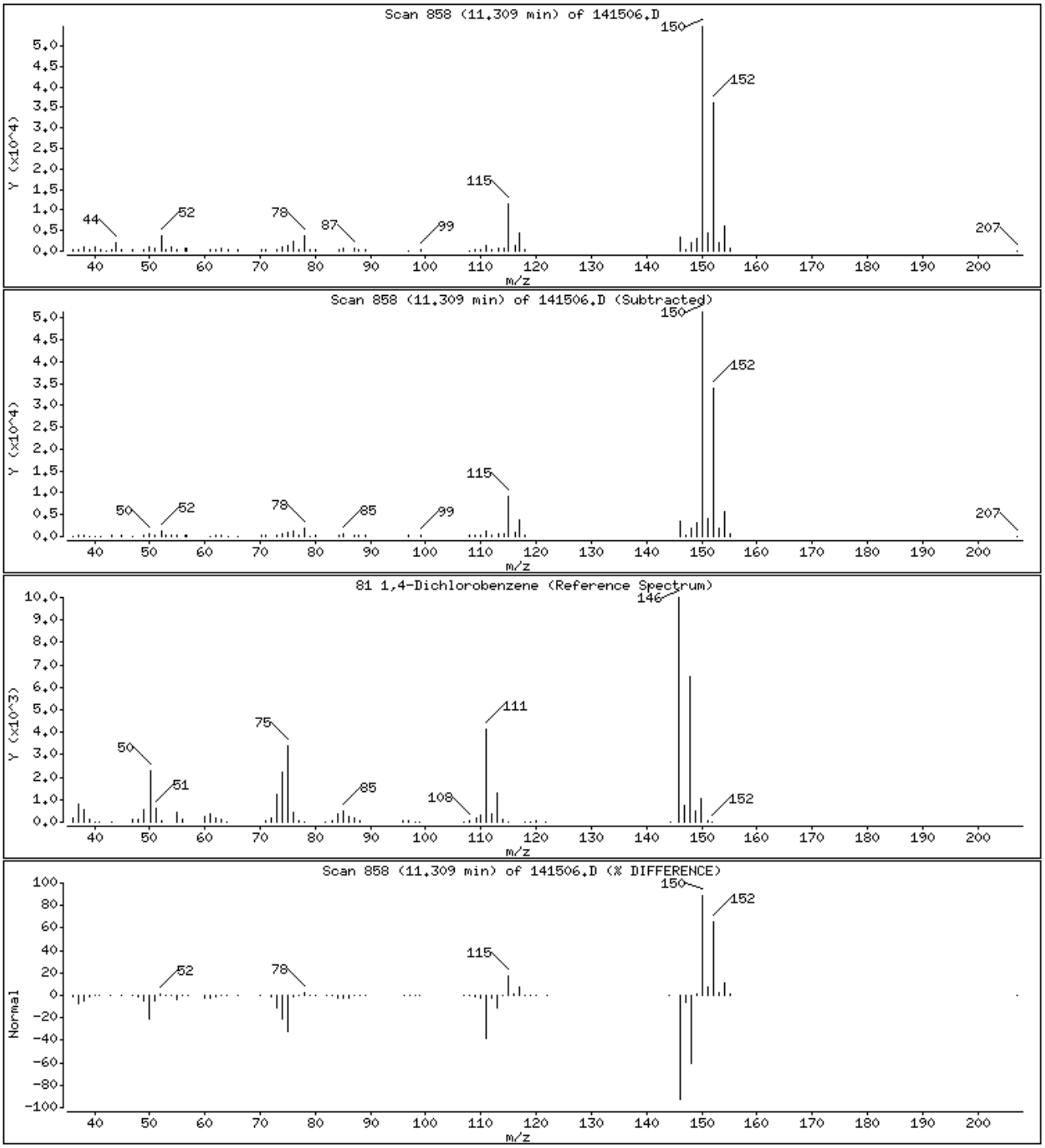
Operator: 2807

Column phase: DB624

Column diameter: 0.18

81 1,4-Dichlorobenzene

Concentration: 0.2438 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

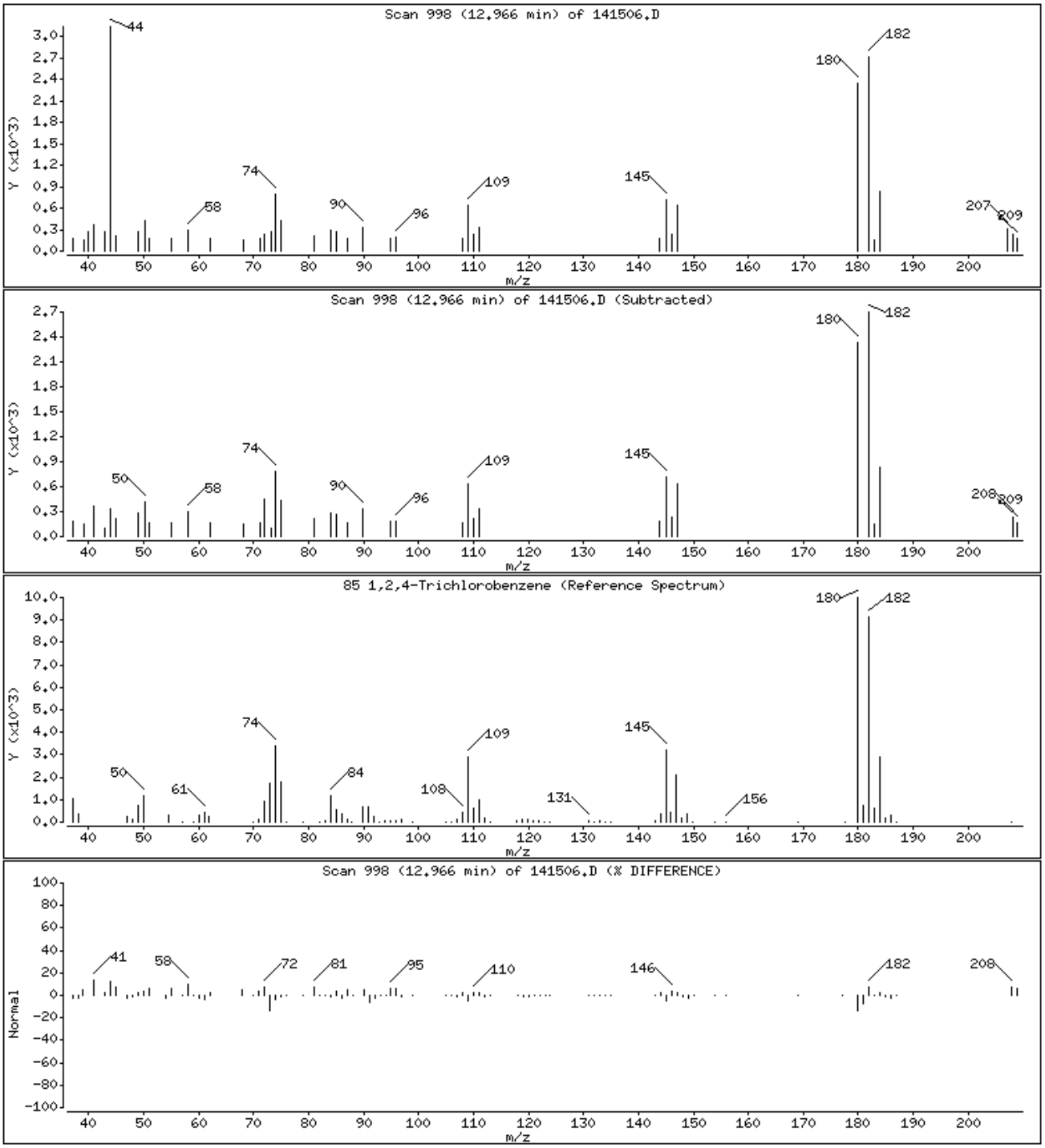
Operator: 2807

Column phase: DB624

Column diameter: 0.18

85 1,2,4-Trichlorobenzene

Concentration: 0.2610 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

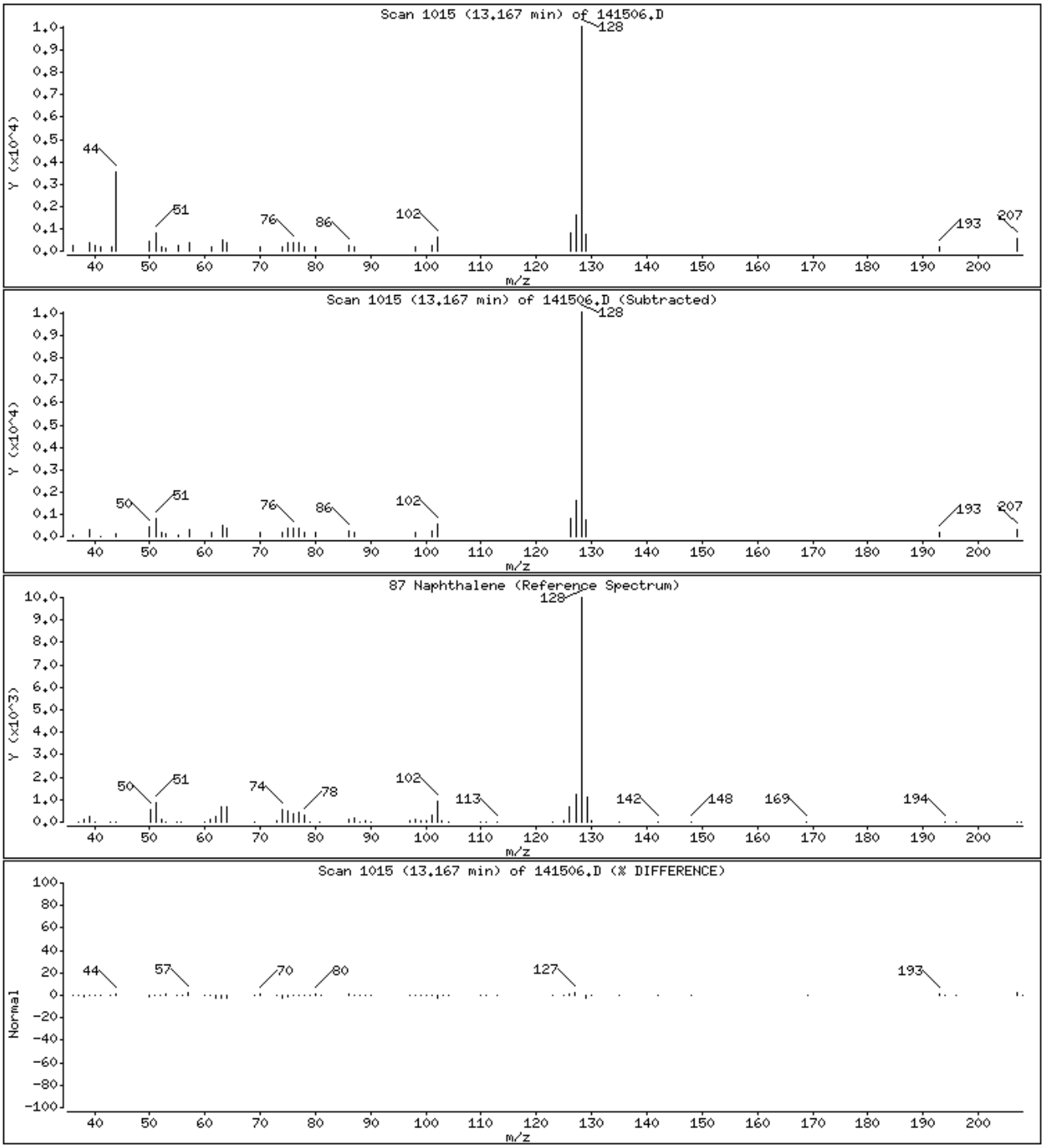
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

87 Naphthalene Concentration: 0.4640 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

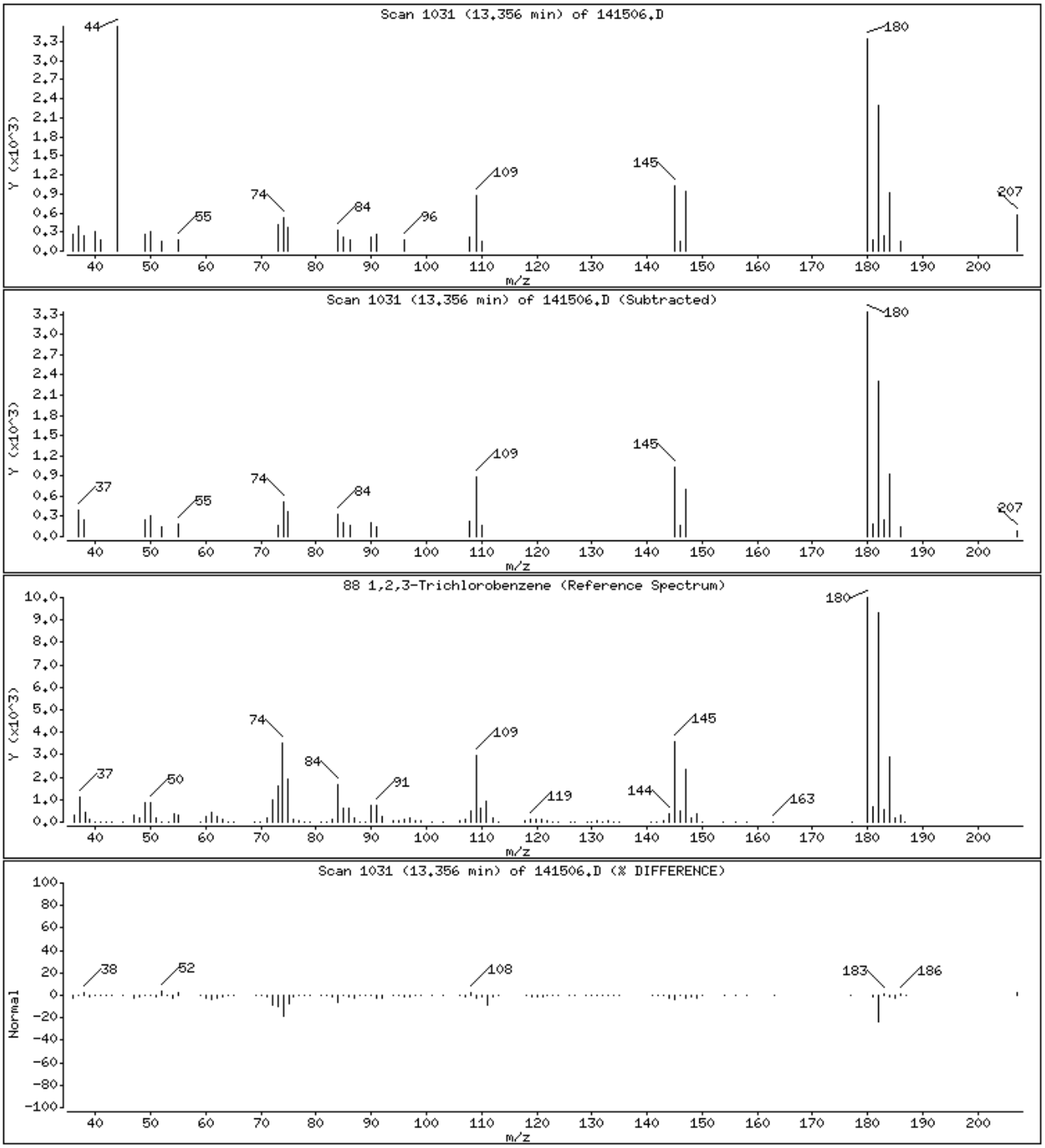
Operator: 2807

Column phase: DB624

Column diameter: 0.18

88 1,2,3-Trichlorobenzene

Concentration: 0.3262 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

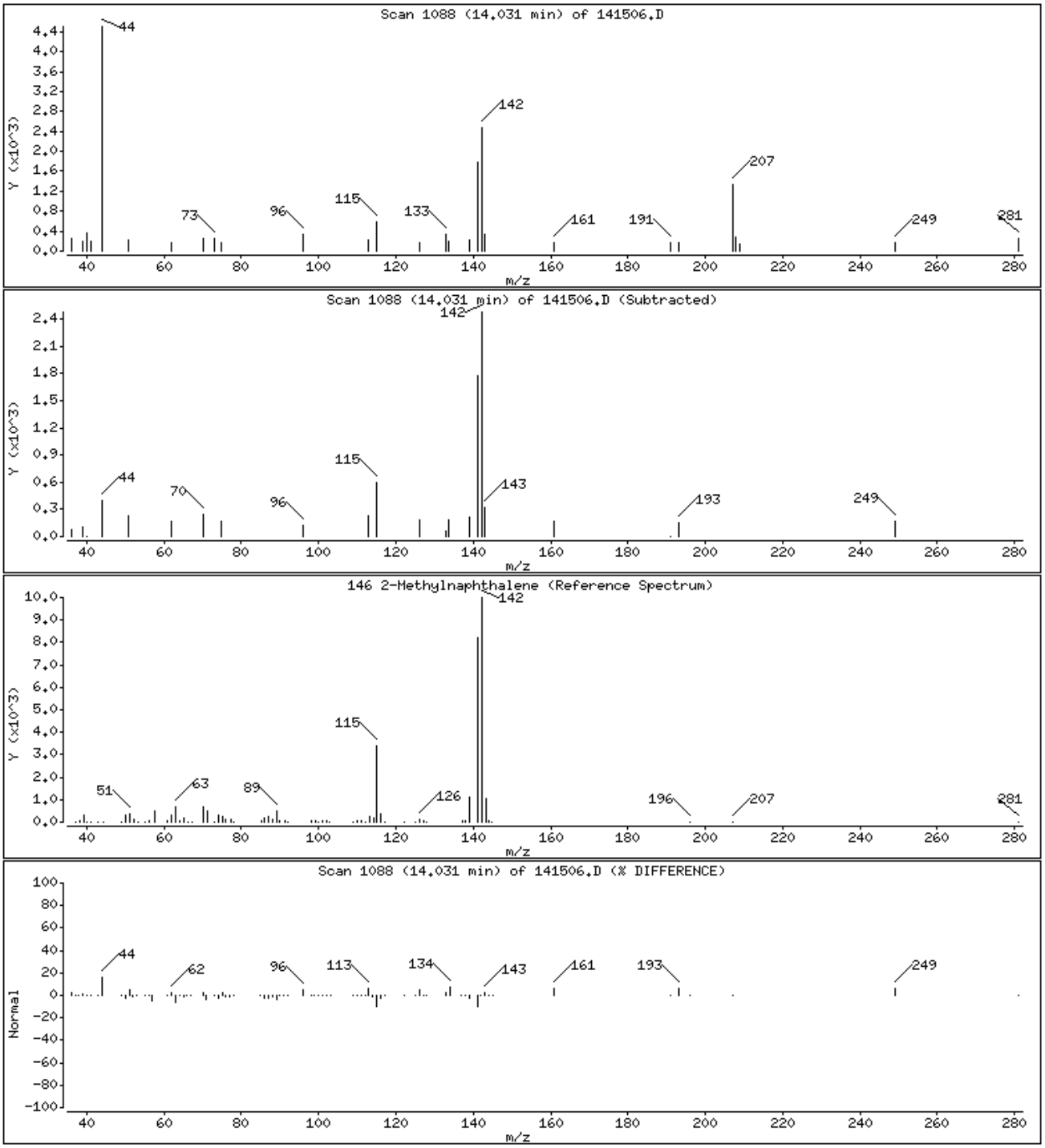
Client ID: Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0 Operator: 2807

Column phase: DB624 Column diameter: 0.18

146 2-Methylnaphthalene Concentration: 1.823 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

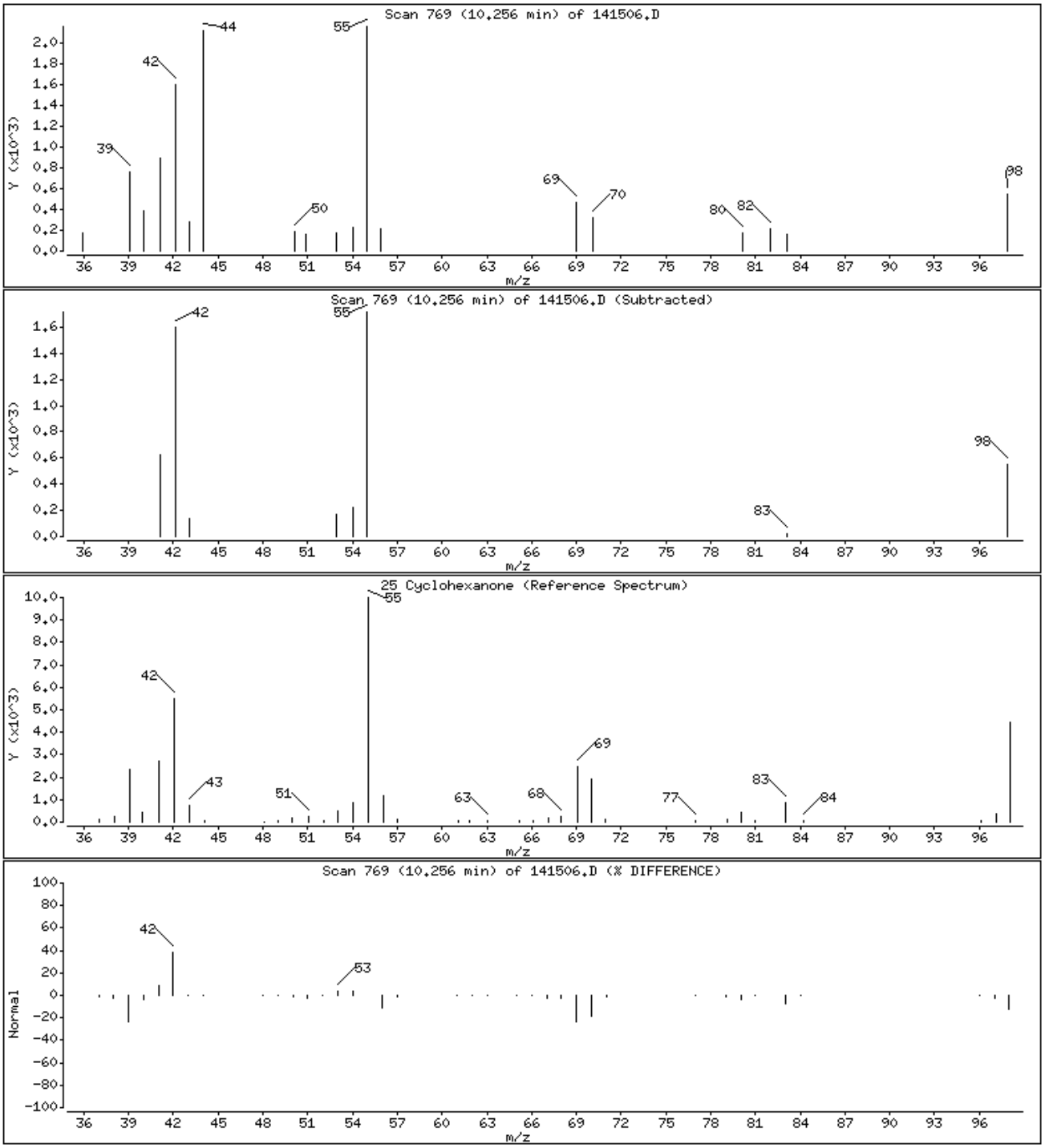
Operator: 2807

Column phase: DB624

Column diameter: 0.18

25 Cyclohexanone

Concentration: 9.718 UG/KG



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141506.D

Date : 29-JUL-2010 12:21

Client ID:

Instrument: a3ux14.i

Sample Info: VBLK,5G/5ML

Purge Volume: 5.0

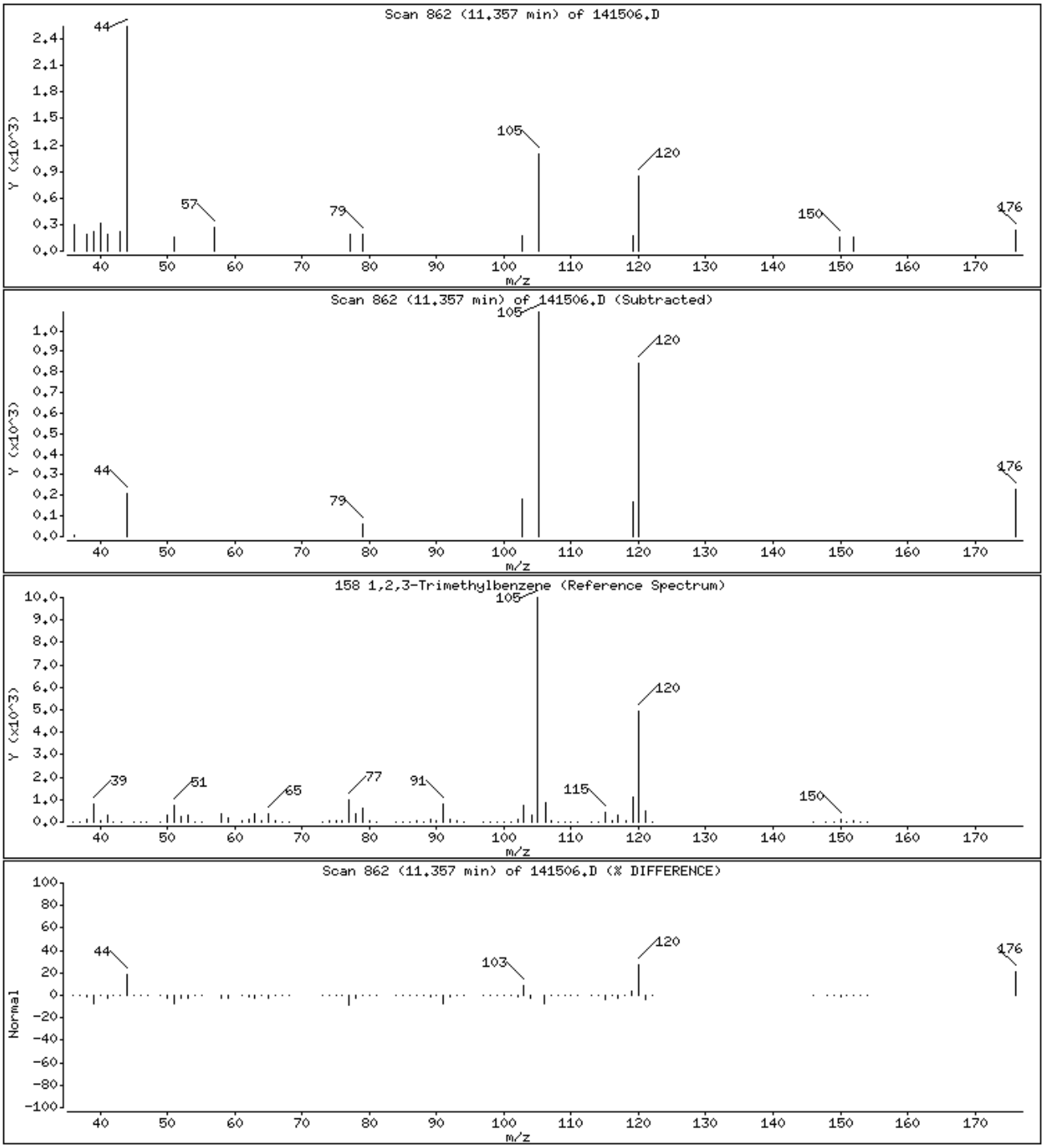
Operator: 2807

Column phase: DB624

Column diameter: 0.18

158 1,2,3-Trimethylbenzene

Concentration: 0.07063 UG/KG



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L40X21AA **Matrix.....:** WATER
MB Lot-Sample #: A0H020000-227

Prep Date.....: 08/01/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 08/01/10 **Prep Batch #...:** 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(73 - 122)
1,2-Dichloroethane-d4	81	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L40X21AA **Matrix.....:** WATER

NOTE(S):

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

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1166.D
Report Date: 02-Aug-2010 08:20

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1166.D
Lab Smp Id: VBLK
Inj Date : 01-AUG-2010 15:41
Operator : 43582 Inst ID: a3ux11.i
Smp Info : VBLK
Misc Info : J00801A,8260LLUX11,,43582,3,,BLAND,,0
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 5 QC Sample: BLAND
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.354	5.354	(1.000)	1641026	50.0000	
* 2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1142745	50.0000	
* 3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	499952	50.0000	
$ 4 Dibromofluoromethane	113	4.774	4.774	(0.892)	450117	41.7182	8.344
$ 5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	779622	40.4718	8.094
$ 6 Toluene-d8	98	6.727	6.727	(0.837)	1989159	43.1781	8.636
$ 7 Bromofluorobenzene	95	9.152	9.152	(1.138)	712666	42.6548	8.531
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Acrolein	56	Compound Not Detected.					
16 Acetone	43	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Freon-113	151	Compound Not Detected.					
19 Iodomethane	142	Compound Not Detected.					
20 Carbon Disulfide	76	Compound Not Detected.					
21 Methylene Chloride	84	Compound Not Detected.					

22	Acetonitrile	41	Compound Not Detected.
23	Acrylonitrile	53	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1166.D
Report Date: 02-Aug-2010 08:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	24 Methyl tert-butyl ether	73	Compound Not Detected.					
	25 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	26 Hexane	86	Compound Not Detected.					
	27 Vinyl acetate	43	Compound Not Detected.					
	28 1,1-Dichloroethane	63	Compound Not Detected.					
	29 tert-Butyl Alcohol	59	Compound Not Detected.					
	30 2-Butanone	43	Compound Not Detected.					
M	31 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	32 cis-1,2-dichloroethene	96	Compound Not Detected.					
	33 2,2-Dichloropropane	77	Compound Not Detected.					
	34 Bromochloromethane	128	Compound Not Detected.					
	35 Chloroform	83	Compound Not Detected.					
	36 Tetrahydrofuran	42	Compound Not Detected.					
	37 1,1,1-Trichloroethane	97	Compound Not Detected.					
	38 1,1-Dichloropropene	75	Compound Not Detected.					
	39 Carbon Tetrachloride	117	Compound Not Detected.					
	40 1,2-Dichloroethane	62	Compound Not Detected.					
	41 Benzene	78	Compound Not Detected.					
	42 Trichloroethene	130	Compound Not Detected.					
	43 1,2-Dichloropropane	63	Compound Not Detected.					
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	Compound Not Detected.					
	46 Bromodichloromethane	83	Compound Not Detected.					
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	49 4-Methyl-2-pentanone	43	Compound Not Detected.					
	50 Toluene	91	Compound Not Detected.					
	51 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	Compound Not Detected.					
	54 1,3-Dichloropropane	76	Compound Not Detected.					
	55 Tetrachloroethene	164	Compound Not Detected.					
	56 2-Hexanone	43	Compound Not Detected.					
	57 Dibromochloromethane	129	Compound Not Detected.					
	58 1,2-Dibromoethane	107	Compound Not Detected.					
	59 Chlorobenzene	112	Compound Not Detected.					
	60 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	61 Ethylbenzene	106	Compound Not Detected.					
	62 m + p-Xylene	106	Compound Not Detected.					
M	63 Xylenes (total)	106	Compound Not Detected.					
	64 Xylene-o	106	Compound Not Detected.					
	65 Styrene	104	Compound Not Detected.					
	66 Bromoform	173	Compound Not Detected.					
	67 Isopropylbenzene	105	Compound Not Detected.					
	68 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	69 1,4-Dichloro-2-butene	53	Compound Not Detected.					
	70 1,2,3-Trichloropropane	110	Compound Not Detected.					
	71 Bromobenzene	156	Compound Not Detected.					
	72 n-Propylbenzene	120	Compound Not Detected.					
	73 2-Chlorotoluene	126	Compound Not Detected.					
	74 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	75 4-Chlorotoluene	126	Compound Not Detected.					

76	tert-Butylbenzene	119	Compound Not Detected.
77	1,2,4-Trimethylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1166.D
Report Date: 02-Aug-2010 08:20

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
78 sec-Butylbenzene	105	Compound Not Detected.					
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	Compound Not Detected.					
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	Compound Not Detected.					
88 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	Compound Not Detected.					
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	Compound Not Detected.					
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	4.999	4.999	(0.622)	27819	91.1233	18.225
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
103 Cyclohexanone	55	Compound Not Detected.					
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	Compound Not Detected.					
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1166.D
Report Date: 02-Aug-2010 08:20

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1166.D
Lab Smp Id: VBLK
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582,3,,BLAND,,0

Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Level: LOW
Sample Type: WATER

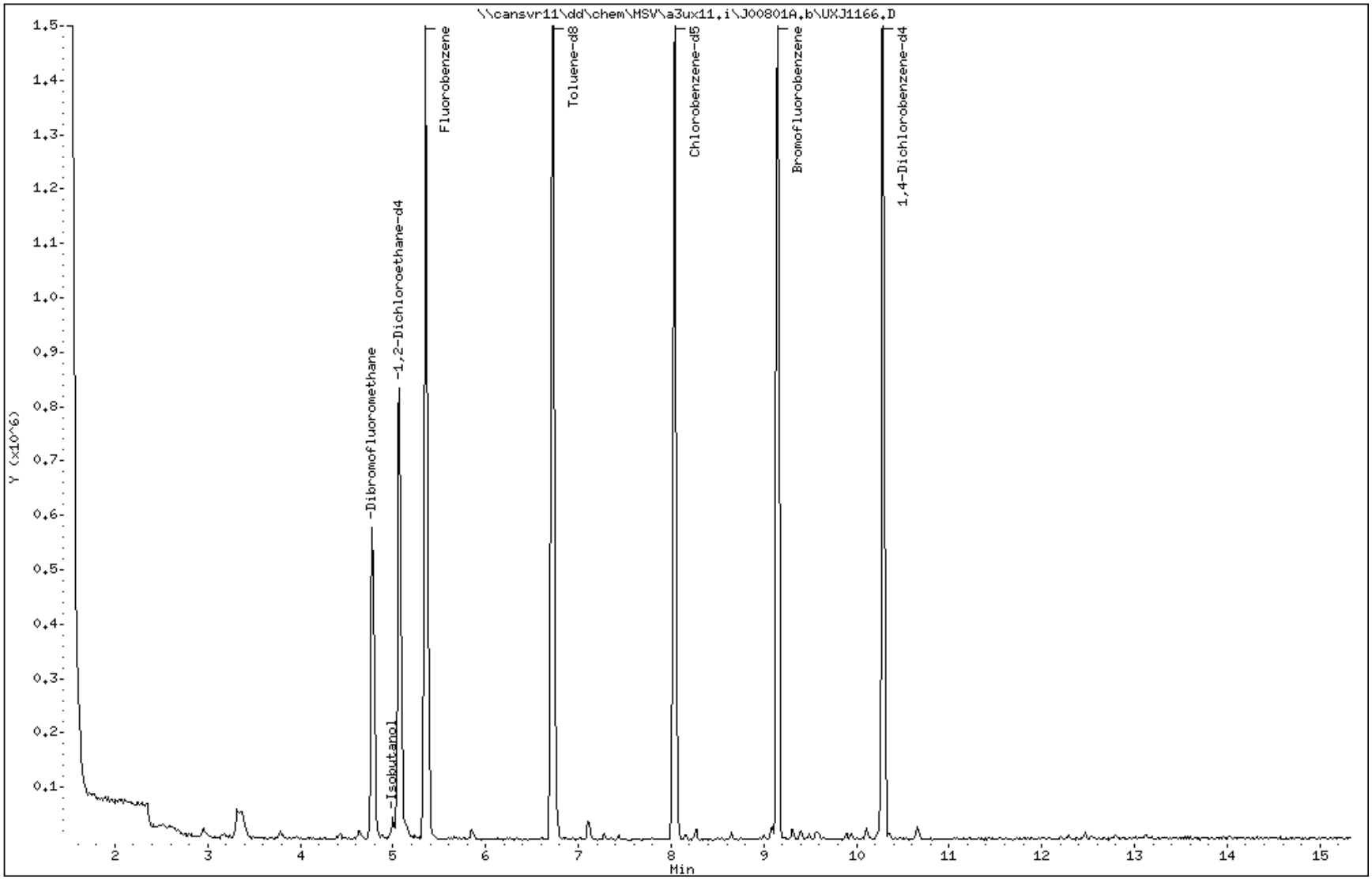
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1641026	0.65
2 Chlorobenzene-d5	1193156	596578	2386312	1142745	-4.23
3 1,4-Dichlorobenze	593165	296583	1186330	499952	-15.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1166.D
Date : 01-AUG-2010 15:41
Client ID:
Sample Info: VBLK
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1166.D

Date : 01-AUG-2010 15:41

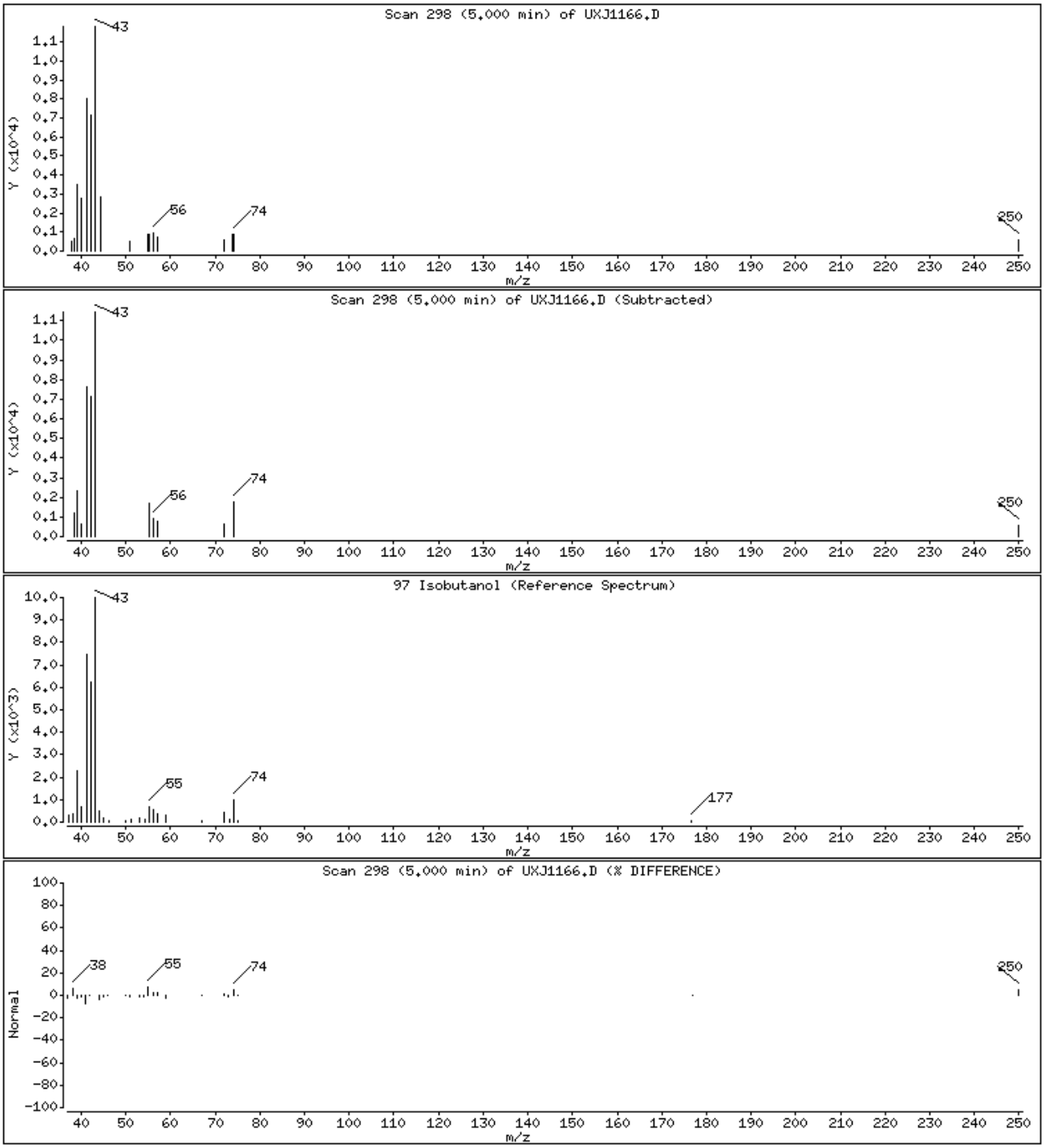
Client ID: Instrument: a3ux11.i

Sample Info: VBLK

Purge Volume: 5.0 Operator: 43582

Column phase: DB624 Column diameter: 0.18

97 Isobutanol Concentration: 18.225 ug/L



METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L416P1AA **Matrix.....:** WATER
MB Lot-Sample #: A0H030000-229

Prep Date.....: 08/02/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 08/02/10 **Prep Batch #...:** 0215229
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L416P1AA **Matrix.....:** WATER

NOTE(S):

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

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D
Report Date: 03-Aug-2010 13:30

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D
Lab Smp Id: VBLK
Inj Date : 02-AUG-2010 23:49
Operator : 43582 Inst ID: a3ux11.i
Smp Info : VBLK
Misc Info : J00802B,8260LLUX11,,43582,3,,BLANK,,0
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Meth Date : 03-Aug-2010 08:40 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.354	5.354	(1.000)	1402125	50.0000	
* 2	Chlorobenzene-d5	117	8.040	8.040	(1.000)	990140	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	443808	50.0000	
$ 4	Dibromofluoromethane	113	4.774	4.774	(0.892)	399032	43.2849	8.657
$ 5	1,2-Dichloroethane-d4	65	5.070	5.070	(0.947)	706205	42.9070	8.581
$ 6	Toluene-d8	98	6.726	6.726	(0.837)	1724768	43.2094	8.642
$ 7	Bromofluorobenzene	95	9.152	9.152	(1.138)	622813	43.0222	8.604
8	Dichlorodifluoromethane	85	Compound Not Detected.					
9	Chloromethane	50	Compound Not Detected.					
10	Vinyl Chloride	62	Compound Not Detected.					
11	Bromomethane	94	Compound Not Detected.					
12	Chloroethane	64	Compound Not Detected.					
13	Trichlorofluoromethane	101	Compound Not Detected.					
15	Acrolein	56	Compound Not Detected.					
16	Acetone	43	Compound Not Detected.					
17	1,1-Dichloroethene	96	Compound Not Detected.					
18	Freon-113	151	Compound Not Detected.					
19	Iodomethane	142	Compound Not Detected.					
20	Carbon Disulfide	76	Compound Not Detected.					
21	Methylene Chloride	84	Compound Not Detected.					
22	Acetonitrile	41	3.188	3.177	(0.596)	7311	4.28069	0.8561

23	Acrylonitrile	53	Compound Not Detected.
24	Methyl tert-butyl ether	73	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D
Report Date: 03-Aug-2010 13:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
25	trans-1,2-Dichloroethene	96	Compound Not Detected.					
26	Hexane	86	Compound Not Detected.					
27	Vinyl acetate	43	Compound Not Detected.					
28	1,1-Dichloroethane	63	Compound Not Detected.					
29	tert-Butyl Alcohol	59	Compound Not Detected.					
30	2-Butanone	43	Compound Not Detected.					
M 31	1,2-Dichloroethene (total)	96	Compound Not Detected.					
32	cis-1,2-dichloroethene	96	Compound Not Detected.					
33	2,2-Dichloropropane	77	Compound Not Detected.					
34	Bromochloromethane	128	Compound Not Detected.					
35	Chloroform	83	Compound Not Detected.					
36	Tetrahydrofuran	42	4.644	4.632	(0.867)	29991	3.04356	0.6087
37	1,1,1-Trichloroethane	97	Compound Not Detected.					
38	1,1-Dichloropropene	75	Compound Not Detected.					
39	Carbon Tetrachloride	117	Compound Not Detected.					
40	1,2-Dichloroethane	62	Compound Not Detected.					
41	Benzene	78	Compound Not Detected.					
42	Trichloroethene	130	Compound Not Detected.					
43	1,2-Dichloropropane	63	Compound Not Detected.					
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	Compound Not Detected.					
46	Bromodichloromethane	83	Compound Not Detected.					
47	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48	cis-1,3-Dichloropropene	75	Compound Not Detected.					
49	4-Methyl-2-pentanone	43	Compound Not Detected.					
50	Toluene	91	Compound Not Detected.					
51	trans-1,3-Dichloropropene	75	Compound Not Detected.					
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	Compound Not Detected.					
54	1,3-Dichloropropane	76	Compound Not Detected.					
55	Tetrachloroethene	164	Compound Not Detected.					
56	2-Hexanone	43	Compound Not Detected.					
57	Dibromochloromethane	129	Compound Not Detected.					
58	1,2-Dibromoethane	107	Compound Not Detected.					
59	Chlorobenzene	112	Compound Not Detected.					
60	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
61	Ethylbenzene	106	Compound Not Detected.					
62	m + p-Xylene	106	Compound Not Detected.					
M 63	Xylenes (total)	106	Compound Not Detected.					
64	Xylene-o	106	Compound Not Detected.					
65	Styrene	104	Compound Not Detected.					
66	Bromoform	173	Compound Not Detected.					
67	Isopropylbenzene	105	Compound Not Detected.					
68	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
69	1,4-Dichloro-2-butene	53	Compound Not Detected.					
70	1,2,3-Trichloropropane	110	Compound Not Detected.					
71	Bromobenzene	156	Compound Not Detected.					
72	n-Propylbenzene	120	Compound Not Detected.					
73	2-Chlorotoluene	126	Compound Not Detected.					
74	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
75	4-Chlorotoluene	126	Compound Not Detected.					
76	tert-Butylbenzene	119	Compound Not Detected.					

77	1,2,4-Trimethylbenzene	105	Compound Not Detected.
78	sec-Butylbenzene	105	Compound Not Detected.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D
Report Date: 03-Aug-2010 13:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
79 4-Isopropyltoluene	119	Compound Not Detected.					
80 1,3-Dichlorobenzene	146	Compound Not Detected.					
81 1,4-Dichlorobenzene	146	Compound Not Detected.					
82 n-Butylbenzene	91	Compound Not Detected.					
83 1,2-Dichlorobenzene	146	Compound Not Detected.					
84 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
85 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
86 Hexachlorobutadiene	225	Compound Not Detected.					
87 Naphthalene	128	Compound Not Detected.					
88 1,2,3-Trichlorobenzene	180	Compound Not Detected.					
14 Dichlorofluoromethane	67	Compound Not Detected.					
89 Ethyl Ether	59	Compound Not Detected.					
91 3-Chloropropene	76	Compound Not Detected.					
92 Isopropyl Ether	87	Compound Not Detected.					
93 2-Chloro-1,3-butadiene	53	Compound Not Detected.					
94 Propionitrile	54	Compound Not Detected.					
95 Ethyl Acetate	43	Compound Not Detected.					
96 Methacrylonitrile	41	Compound Not Detected.					
97 Isobutanol	41	Compound Not Detected.					
100 Methyl Methacrylate	41	Compound Not Detected.					
101 2-Nitropropane	41	Compound Not Detected.					
98 Cyclohexane	56	Compound Not Detected.					
99 n-Butanol	56	Compound Not Detected.					
103 Cyclohexanone	55	Compound Not Detected.					
143 Methyl Acetate	43	Compound Not Detected.					
144 Methylcyclohexane	83	Compound Not Detected.					
146 2-Methylnaphthalene	142	Compound Not Detected.					
141 1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150 Vinyl Acetate-86	86	Compound Not Detected.					
155 t-Butyl ethyl ether	59	Compound Not Detected.					
156 t-Amyl methyl ether	73	Compound Not Detected.					
157 1,2,3-Trimethylbenzene	105	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D
Report Date: 03-Aug-2010 13:30

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

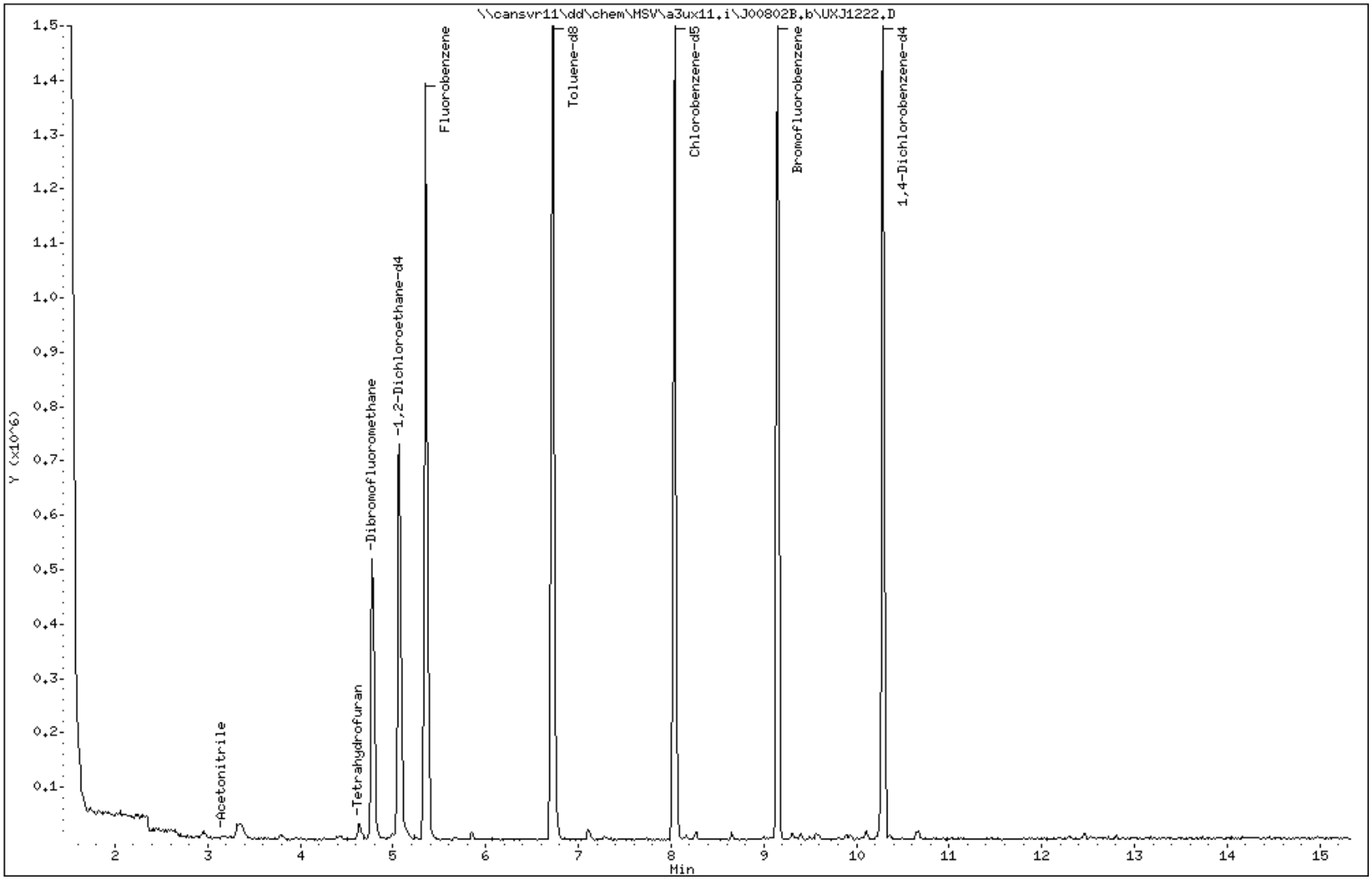
Instrument ID: a3ux11.i
Calibration Date: 02-AUG-2010
Lab File ID: UXJ1222.D
Calibration Time: 22:18
Lab Smp Id: VBLK
Analysis Type: VOA
Level: LOW
Quant Type: ISTD
Sample Type: WATER
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\8260LLUX11.m
Misc Info: J00802B,8260LLUX11,,43582,3,,BLANK,,0

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1338892	669446	2677784	1402125	4.72
2 Chlorobenzene-d5	992965	496483	1985930	990140	-0.28
3 1,4-Dichlorobenze	498138	249069	996276	443808	-10.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D
Date : 02-AUG-2010 23:49
Client ID:
Instrument: a3ux11.i
Sample Info: VBLK
Purge Volume: 5.0
Operator: 43582
Column phase: DB624
Column diameter: 0.18



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D

Date : 02-AUG-2010 23:49

Client ID:

Instrument: a3ux11.i

Sample Info: VBLK

Purge Volume: 5.0

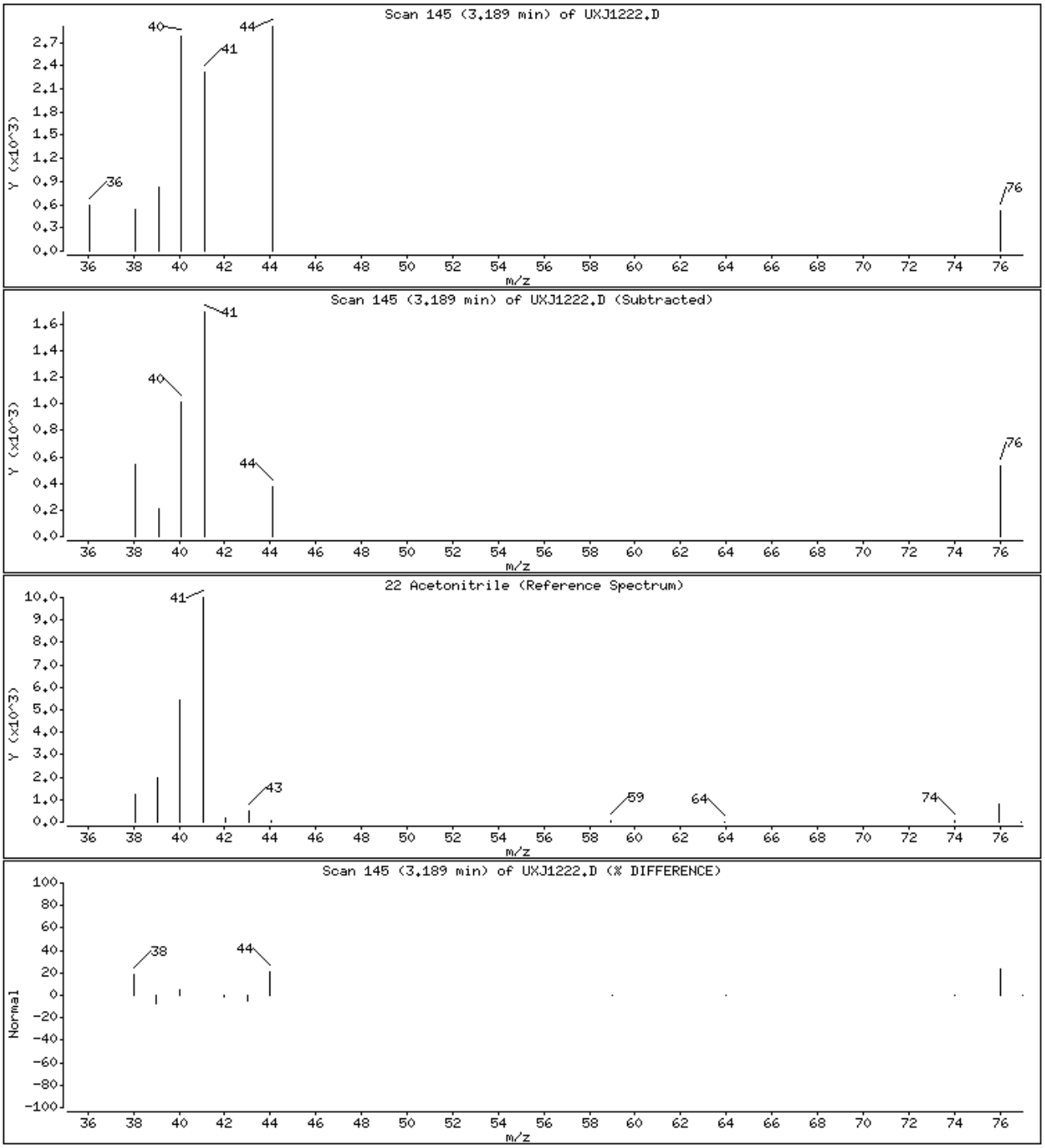
Operator: 43582

Column phase: DB624

Column diameter: 0.18

22 Acetonitrile

Concentration: 0.8561 ug/L



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00802B.b\UXJ1222.D

Date : 02-AUG-2010 23:49

Client ID:

Instrument: a3ux11.i

Sample Info: VBLK

Purge Volume: 5.0

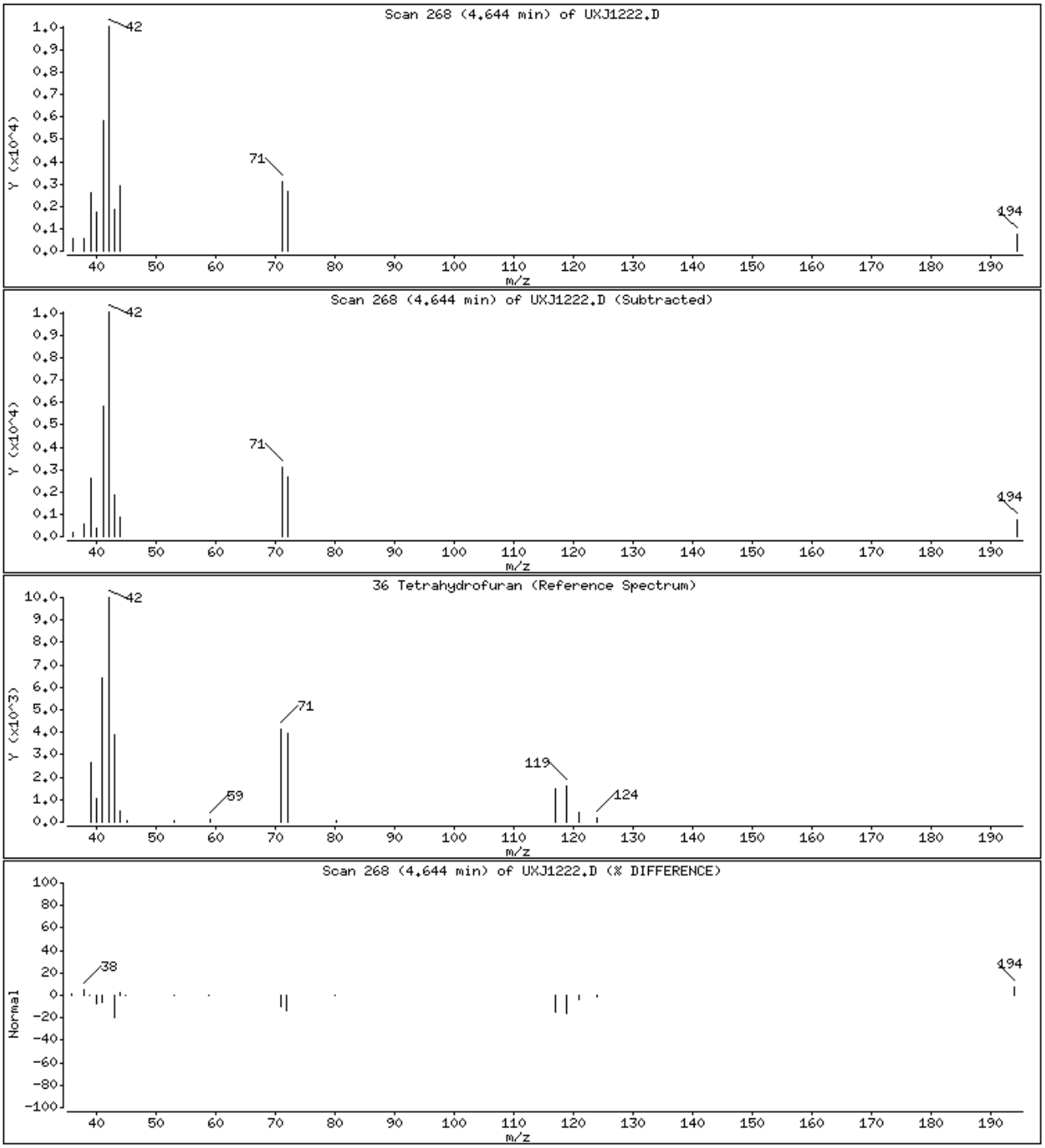
Operator: 43582

Column phase: DB624

Column diameter: 0.18

36 Tetrahydrofuran

Concentration: 0.6087 ug/L



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4K241AF-MS **Matrix.....:** SO
MS Lot-Sample #: A0G230443-010 L4K241AG-MSD
Date Sampled...: 07/22/10 14:30 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1.36 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**106**	**(55 - 138)**			**SW846 8260B**
	105	**(55 - 138)**	**0.09**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**89**	**(49 - 139)**			**SW846 8260B**
	94	**(49 - 139)**	**6.2**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**114**	**(43 - 147)**			**SW846 8260B**
	108	**(43 - 147)**	**4.6**	**(0-27)**	**SW846 8260B**
Toluene	**112**	**(46 - 147)**			**SW846 8260B**
	115	**(46 - 147)**	**4.0**	**(0-24)**	**SW846 8260B**
Trichloroethene	**92**	**(46 - 143)**			**SW846 8260B**
	91	**(46 - 143)**	**0.47**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
	82	(61 - 130)
Toluene-d8	115	(60 - 143)
	114	(60 - 143)
4-Bromofluorobenzene	117	(47 - 158)
	138	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4K241AF-MS **Matrix.....:** SO
MS Lot-Sample #: A0G230443-010 L4K241AG-MSD
Date Sampled...: 07/22/10 14:30 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1.36 **Initial Wgt/Vol:** 5 g **Final Wgt/Vol..:** 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**150**	**160**	**ug/kg**	**106**		**SW846 8260B**
	ND	**150**	**160**	**ug/kg**	**105**	**0.09**	**SW846 8260B**
Chlorobenzene	**ND**	**150**	**130**	**ug/kg**	**89**		**SW846 8260B**
	ND	**150**	**140**	**ug/kg**	**94**	**6.2**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**150**	**170**	**ug/kg**	**114**		**SW846 8260B**
	ND	**150**	**160**	**ug/kg**	**108**	**4.6**	**SW846 8260B**
Toluene	**ND**	**150**	**170**	**ug/kg**	**112**		**SW846 8260B**
	ND	**150**	**180**	**ug/kg**	**115**	**4.0**	**SW846 8260B**
Trichloroethene	**ND**	**150**	**140**	**ug/kg**	**92**		**SW846 8260B**
	ND	**150**	**140**	**ug/kg**	**91**	**0.47**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
	82	(61 - 130)
Toluene-d8	115	(60 - 143)
	114	(60 - 143)
4-Bromofluorobenzene	117	(47 - 158)
	138	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141518.D
Report Date: 30-Jul-2010 08:49

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141518.D
Lab Smp Id: L4K241AC Client Smp ID: SED 2
Inj Date : 29-JUL-2010 16:38
Operator : 2807 Inst ID: a3ux14.i
Smp Info : L4K241AC,3.69G/5ML
Misc Info : R00729A,8260SUX14,,2807,3,,MS
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 18 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	3.690	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1315344	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	761606	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	314544	250.000	
$ 4 Dibromofluoromethane	113	5.889	5.889	(0.894)	380720	225.139	61.013
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	349369	200.065	54.218
$ 6 Toluene-d8	98	8.066	8.066	(0.865)	1191142	286.775	77.717
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	276835	291.521	79.003
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	346033	273.061	74.000
9 Chloromethane	50	1.452	1.452	(0.220)	688271	230.356	62.427
10 Vinyl Chloride	62	1.570	1.558	(0.238)	419750	232.722	63.068
11 Bromomethane	94	1.878	1.878	(0.285)	158853	204.899	55.528
12 Chloroethane	64	1.984	1.984	(0.301)	208742	235.519	63.826
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	421000	248.100	67.236
15 Acrolein	56	2.718	2.718	(0.413)	7555	27.2353	7.381(R)
16 Acetone	43	2.919	2.919	(0.443)	278283	418.874	113.52
17 1,1-Dichloroethene	96	2.848	2.836	(0.432)	368432	285.208	77.292
18 Freon-113	151	2.883	2.884	(0.438)	389812	288.696	78.237
19 Iodomethane	142	3.014	3.014	(0.458)	655441	239.188	64.821
20 Carbon Disulfide	76	3.096	3.097	(0.470)	711173	240.573	65.196
21 Methylene Chloride	84	3.487	3.487	(0.529)	403539	290.339	78.682

22 Acetonitrile	41	3.274	3.274 (0.497)	143622	629.717	170.66
23 Acrylonitrile	53	3.866	3.866 (0.587)	367772	487.623	132.15(R)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141518.D
Report Date: 30-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
24	Methyl tert-butyl ether	73	3.948	3.949	(0.599)	715989	233.354	63.240
25	trans-1,2-Dichloroethene	96	3.913	3.901	(0.594)	385588	265.896	72.059
26	Hexane	86	4.374	4.375	(0.664)	99234	328.429	89.005(R)
27	Vinyl acetate	43	4.718	4.670	(0.716)	872786	292.538	79.278
154	Vinyl Acetate**2nd**	86	4.682	4.682	(0.711)	1838	10.9702	2.973(AR)
28	1,1-Dichloroethane	63	4.540	4.540	(0.689)	763359	257.085	69.671
29	tert-Butyl Alcohol	59	3.747	3.747	(0.569)	468969	3660.39	991.97
30	2-Butanone	43	5.357	5.357	(0.813)	287234	338.115	91.630(R)
M 31	1,2-Dichloroethene (total)	96				770170	520.337	141.01
32	cis-1,2-dichloroethene	96	5.321	5.309	(0.808)	384582	254.440	68.954
33	2,2-Dichloropropane	77	5.309	5.309	(0.806)	216073	256.732	69.575
34	Bromochloromethane	128	5.593	5.593	(0.849)	208127	224.778	60.916
35	Chloroform	83	5.712	5.712	(0.867)	583286	250.397	67.858
36	Tetrahydrofuran	42	5.664	5.653	(0.860)	108202	177.864	48.202
37	1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	469540	257.930	69.900
38	1,1-Dichloropropene	75	6.078	6.079	(0.923)	479890	285.349	77.330
39	Carbon Tetrachloride	117	6.078	6.079	(0.923)	456757	222.716	60.356
40	1,2-Dichloroethane	62	6.315	6.315	(0.959)	452313	204.521	55.426
41	Benzene	78	6.291	6.292	(0.955)	1271330	264.827	71.769
42	Trichloroethene	130	6.954	6.954	(1.056)	436673	229.889	62.300
43	1,2-Dichloropropane	63	7.155	7.155	(1.086)	341877	231.983	62.868
44	1,4-Dioxane	88	Compound Not Detected.					
45	Dibromomethane	93	7.262	7.262	(1.102)	149226	206.165	55.871
46	Bromodichloromethane	83	7.415	7.416	(1.126)	275084	195.636	53.018
47	2-Chloroethyl vinyl ether	63	7.711	7.711	(1.171)	57522	98.7271	26.755(R)
48	cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	252284	170.048	46.083(R)
49	4-Methyl-2-pentanone	43	7.983	7.984	(0.857)	534007	429.306	116.34
50	Toluene	91	8.125	8.126	(0.872)	1151036	281.568	76.306
51	trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	175852	178.800	48.455(R)
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	8.480	8.481	(0.910)	171347	254.254	68.904
54	1,3-Dichloropropane	76	8.622	8.623	(0.925)	277718	260.309	70.544
55	Tetrachloroethene	164	8.611	8.611	(0.924)	301224	279.010	75.612
56	2-Hexanone	43	8.705	8.705	(0.934)	271977	375.953	101.88
57	Dibromochloromethane	129	8.824	8.824	(0.947)	177339	185.974	50.400(R)
58	1,2-Dibromoethane	107	8.918	8.918	(0.957)	159134	222.634	60.334
59	Chlorobenzene	112	9.344	9.344	(1.003)	642860	222.229	60.225
60	1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	281089	238.413	64.611
61	Ethylbenzene	106	9.439	9.439	(1.013)	386577	261.597	70.893
62	m + p-Xylene	106	9.534	9.534	(1.023)	916654	510.779	138.42
M 63	Xylenes (total)	106				1369458	758.777	205.63
64	Xylene-o	106	9.877	9.877	(1.060)	452804	247.998	67.208
65	Styrene	104	9.889	9.889	(1.061)	482503	180.999	49.051(R)
66	Bromoform	173	10.042	10.043	(1.077)	66398	115.412	31.277(R)
67	Isopropylbenzene	105	10.184	10.185	(1.093)	1270048	260.291	70.540
68	1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	143679	265.363	71.914
69	1,4-Dichloro-2-butene	53	10.468	10.480	(0.928)	80467	339.065	91.887
70	1,2,3-Trichloropropane	110	10.468	10.469	(0.928)	57343	264.112	71.575
71	Bromobenzene	156	10.445	10.445	(0.926)	217632	232.270	62.946
72	n-Propylbenzene	120	10.528	10.540	(0.933)	337190	336.804	91.275(R)
73	2-Chlorotoluene	126	10.610	10.611	(0.940)	266480	279.680	75.794
74	1,3,5-Trimethylbenzene	105	10.681	10.682	(0.947)	896040	314.853	85.326(R)

75	4-Chlorotoluene	126	10.693	10.693 (0.948)	229170	250.578	67.907
76	tert-Butylbenzene	119	10.954	10.954 (0.971)	963266	327.052	88.632(R)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141518.D
Report Date: 30-Jul-2010 08:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	11.001	11.001	(0.975)	831825	289.995	78.589
78	sec-Butylbenzene	105	11.143	11.143	(0.987)	1240999	338.534	91.744(R)
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	1038040	315.312	85.450(R)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	370162	196.640	53.290
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	344483	179.439	48.628(R)
82	n-Butylbenzene	91	11.604	11.604	(1.028)	699570	299.595	81.191
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	316056	170.820	46.292(R)
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	20971	132.202	35.827(R)
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	160949	121.357	32.888(R)
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	155665	205.829	55.780
87	Naphthalene	128	13.166	13.166	(1.167)	249381	86.8331	23.532(R)
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	136671	105.320	28.542(R)
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	1036	8.85176	2.399
89	Ethyl Ether	59	2.588	2.588	(0.393)	324678	215.271	58.339
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.718	4.718	(0.716)	302054	258.553	70.069
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.475	5.463	(0.831)	6803	4.24812	1.151
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.280	6.280	(0.953)	460496	11787.2	3194.4(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.255	10.256	(0.909)	218222	6037.99	1636.3(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.948	5.948	(0.903)	925110	242.251	65.651
143	Methyl Acetate	43	3.380	3.369	(0.513)	371769	221.264	59.963
144	Methylcyclohexane	83	7.132	7.132	(1.083)	674806	294.742	79.876
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.356	11.356	(1.006)	762050	278.863	75.572(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141518.D
Report Date: 30-Jul-2010 08:49

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

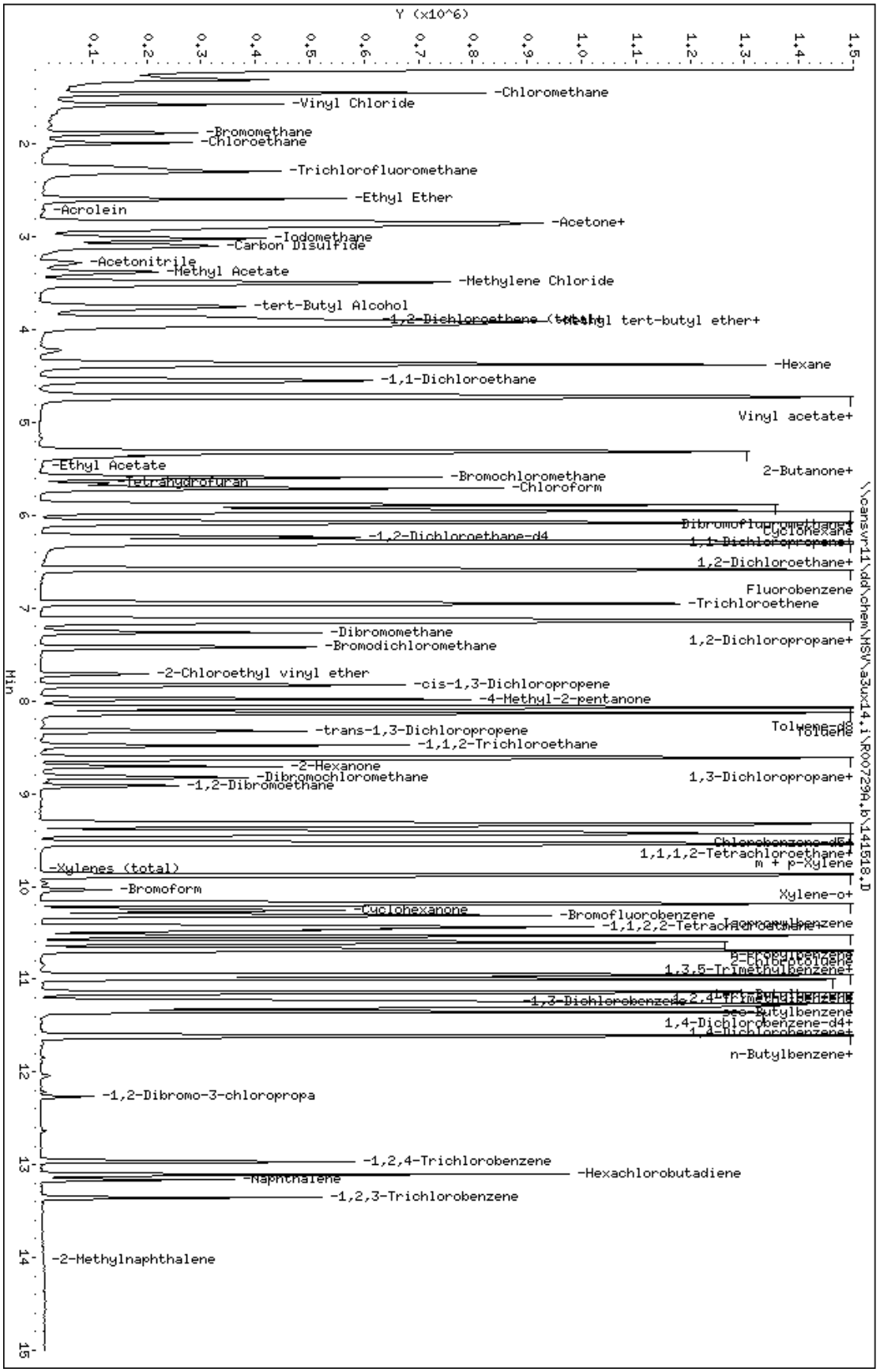
Instrument ID: a3ux14.i
Lab File ID: 141518.D
Lab Smp Id: L4K241AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807,3,,MS

Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Client Smp ID: SED 2
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1315344	-15.91
2 Chlorobenzene-d5	1117515	558758	2235030	761606	-31.85
3 1,4-Dichlorobenze	636663	318332	1273326	314544	-50.59 |<-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide
-Acetonitrile
-Methyl Acetate
-Methylene Chloride
-tert-Butyl Alcohol
-1,2-Dichloroethene (total)+
Methyl tert-butyl ether+
-Hexane
-1,1-Dichloroethane
Vinyl acetate+
2-Butanone+
-Ethyl Acetate
-Bromochloromethane
-Tetrahydrofuran
-Chloroform
Dibromofluoromethane+
Cyclohexane+
-1,2-Dichloroethane-d4
1,1-Dichloropropene+
1,2-Dichloroethane+
Fluorobenzene
-Trichloroethene
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
-2-Chloroethyl vinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
Toluene-d8
Toluene
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane
1,3-Dichloropropane+
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Xylenes (total)
-Bromoform
Xylene-o+
-Cyclohexanone
-Bromofluorobenzene
Isopropylbenzene
-1,1,2,2-Tetrachloroethane
n-Propylbenzene
2-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,3-Dichlorobenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141518.D
Date : 29-JUL-2010 16:38
Client ID: SED 2
Sample Info: L4K241AF,3.69G/5ML
Purge Volume: 3.7
Column phase: DB624
Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141518.D

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141519.D
Report Date: 30-Jul-2010 08:51

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141519.D
Lab Smp Id: L4K241AD Client Smp ID: SED 2
Inj Date : 29-JUL-2010 17:00
Operator : 2807 Inst ID: a3ux14.i
Smp Info : L4K241AD,3.65G/5ML
Misc Info : R00729A,8260SUX14,,2807,3,,MSD
Comment :
Method : \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Meth Date : 29-Jul-2010 11:49 macenczaks Quant Type: ISTD
Cal Date : 19-JUL-2010 23:29 Cal File: 141259.D
Als bottle: 19 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	3.650	Sample Volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
* 1 Fluorobenzene	96	6.587	6.587	(1.000)	1380319	250.000	
* 2 Chlorobenzene-d5	117	9.321	9.321	(1.000)	836788	250.000	
* 3 1,4-Dichlorobenzene-d4	152	11.285	11.285	(1.000)	285781	250.000	
$ 4 Dibromofluoromethane	113	5.877	5.889	(0.892)	392857	221.381	60.652
$ 5 1,2-Dichloroethane-d4	65	6.232	6.232	(0.946)	373898	204.033	55.900
$ 6 Toluene-d8	98	8.067	8.066	(0.865)	1300172	284.901	78.055
$ 7 Bromofluorobenzene	95	10.315	10.315	(0.914)	297960	345.347	94.616
8 Dichlorodifluoromethane	85	1.298	1.298	(0.197)	353389	265.739	72.805
9 Chloromethane	50	1.440	1.452	(0.219)	705118	224.886	61.612
10 Vinyl Chloride	62	1.558	1.558	(0.237)	436939	230.849	63.246
11 Bromomethane	94	1.878	1.878	(0.285)	171007	210.193	57.587
12 Chloroethane	64	1.984	1.984	(0.301)	217501	233.850	64.068
13 Trichlorofluoromethane	101	2.268	2.268	(0.344)	438952	246.503	67.535
15 Acrolein	56	2.718	2.718	(0.413)	4681	16.0804	4.406(R)
16 Acetone	43	2.919	2.919	(0.443)	321675	465.108	127.43
17 1,1-Dichloroethene	96	2.836	2.836	(0.431)	365144	269.357	73.796
18 Freon-113	151	2.872	2.884	(0.436)	403130	284.505	77.947
19 Iodomethane	142	3.014	3.014	(0.458)	668868	232.598	63.726
20 Carbon Disulfide	76	3.097	3.097	(0.470)	748653	241.330	66.118
21 Methylene Chloride	84	3.487	3.487	(0.529)	412509	282.303	77.343

22 Acetonitrile	41	3.274	3.274 (0.497)	149881	626.226	171.57
23 Acrylonitrile	53	3.866	3.866 (0.587)	403201	509.433	139.57(R)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141519.D
Report Date: 30-Jul-2010 08:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
	24 Methyl tert-butyl ether	73	3.949	3.949	(0.599)	774451	240.526	65.898
	25 trans-1,2-Dichloroethene	96	3.901	3.901	(0.592)	380398	249.970	68.485
	26 Hexane	86	4.375	4.375	(0.664)	107358	338.591	92.765(R)
	27 Vinyl acetate	43	4.718	4.670	(0.716)	892472	285.055	78.097
	154 Vinyl Acetate**2nd**	86	4.670	4.682	(0.709)	1057	6.01178	1.647(AR)
	28 1,1-Dichloroethane	63	4.540	4.540	(0.689)	759976	243.898	66.821
	29 tert-Butyl Alcohol	59	3.748	3.747	(0.569)	551023	4098.38	1122.8
	30 2-Butanone	43	5.357	5.357	(0.813)	357888	401.454	109.99
M	31 1,2-Dichloroethene (total)	96				770172	495.706	135.81
	32 cis-1,2-dichloroethene	96	5.309	5.309	(0.806)	389774	245.737	67.325
	33 2,2-Dichloropropane	77	5.309	5.309	(0.806)	228527	258.748	70.890
	34 Bromochloromethane	128	5.593	5.593	(0.849)	213961	220.202	60.329
	35 Chloroform	83	5.712	5.712	(0.867)	590526	241.572	66.184
	36 Tetrahydrofuran	42	5.653	5.653	(0.858)	124513	195.041	53.436
	37 1,1,1-Trichloroethane	97	5.889	5.889	(0.894)	480486	251.518	68.909
	38 1,1-Dichloropropene	75	6.079	6.079	(0.923)	490496	277.927	76.144
	39 Carbon Tetrachloride	117	6.067	6.079	(0.921)	481431	223.697	61.287
	40 1,2-Dichloroethane	62	6.303	6.315	(0.957)	488165	210.341	57.628
	41 Benzene	78	6.292	6.292	(0.955)	1318441	261.712	71.702
	42 Trichloroethene	130	6.942	6.954	(1.054)	451107	226.309	62.002
	43 1,2-Dichloropropane	63	7.155	7.155	(1.086)	373150	241.285	66.105
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	7.262	7.262	(1.102)	170147	224.003	61.371
	46 Bromodichloromethane	83	7.416	7.416	(1.126)	304386	206.286	56.517
	47 2-Chloroethyl vinyl ether	63	7.712	7.711	(1.171)	58679	95.9721	26.294(R)
	48 cis-1,3-Dichloropropene	75	7.830	7.830	(1.189)	299380	192.293	52.683
	49 4-Methyl-2-pentanone	43	7.984	7.984	(0.857)	682278	499.225	136.77
	50 Toluene	91	8.126	8.126	(0.872)	1302542	290.002	79.452
	51 trans-1,3-Dichloropropene	75	8.327	8.327	(0.893)	221813	204.699	56.082
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	8.481	8.481	(0.910)	209620	283.100	77.562
	54 1,3-Dichloropropane	76	8.623	8.623	(0.925)	340990	290.899	79.698
	55 Tetrachloroethene	164	8.611	8.611	(0.924)	330142	278.321	76.252
	56 2-Hexanone	43	8.705	8.705	(0.934)	391538	492.596	134.96
	57 Dibromochloromethane	129	8.824	8.824	(0.947)	215130	205.336	56.256
	58 1,2-Dibromoethane	107	8.918	8.918	(0.957)	195969	249.535	68.366
	59 Chlorobenzene	112	9.344	9.344	(1.003)	743525	233.935	64.092
	60 1,1,1,2-Tetrachloroethane	131	9.415	9.415	(1.010)	298097	230.123	63.047
	61 Ethylbenzene	106	9.439	9.439	(1.013)	463226	285.301	78.165
	62 m + p-Xylene	106	9.534	9.534	(1.023)	1067001	541.137	148.26
M	63 Xylenes (total)	106				1574292	794.015	217.54
	64 Xylene-o	106	9.877	9.877	(1.060)	507291	252.877	69.281
	65 Styrene	104	9.877	9.889	(1.060)	517014	176.520	48.362(R)
	66 Bromoform	173	10.043	10.043	(1.077)	90527	143.215	39.237(R)
	67 Isopropylbenzene	105	10.185	10.185	(1.093)	1417457	264.402	72.439
	68 1,1,2,2-Tetrachloroethane	83	10.433	10.433	(0.925)	180168	366.246	100.34(R)
	69 1,4-Dichloro-2-butene	53	10.469	10.480	(0.928)	105950	491.376	134.62
	70 1,2,3-Trichloropropane	110	10.469	10.469	(0.928)	71647	363.207	99.509(R)
	71 Bromobenzene	156	10.445	10.445	(0.926)	249809	293.444	80.396
	72 n-Propylbenzene	120	10.528	10.540	(0.933)	398374	437.967	119.99(R)
	73 2-Chlorotoluene	126	10.611	10.611	(0.940)	291311	336.513	92.195(R)
	74 1,3,5-Trimethylbenzene	105	10.682	10.682	(0.947)	992516	383.854	105.16(R)

75 4-Chlorotoluene	126	10.693	10.693 (0.948)	259176	311.909	85.455
76 tert-Butylbenzene	119	10.954	10.954 (0.971)	1070812	400.158	109.63(R)

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141519.D
Report Date: 30-Jul-2010 08:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/KG)
77	1,2,4-Trimethylbenzene	105	10.989	11.001	(0.974)	933605	358.237	98.147(R)
78	sec-Butylbenzene	105	11.143	11.143	(0.987)	1406085	422.174	115.66(R)
79	4-Isopropyltoluene	119	11.261	11.261	(0.998)	1197233	400.270	109.66(R)
80	1,3-Dichlorobenzene	146	11.238	11.238	(0.996)	399656	233.676	64.021
81	1,4-Dichlorobenzene	146	11.309	11.309	(1.002)	380361	218.069	59.745
82	n-Butylbenzene	91	11.605	11.604	(1.028)	824675	388.718	106.50(R)
83	1,2-Dichlorobenzene	146	11.616	11.616	(1.029)	327939	195.081	53.447
84	1,2-Dibromo-3-chloropropane	157	12.267	12.267	(1.087)	23645	164.061	44.948(R)
85	1,2,4-Trichlorobenzene	180	12.965	12.965	(1.149)	135818	112.715	30.881(R)
86	Hexachlorobutadiene	225	13.107	13.107	(1.161)	172652	251.267	68.840
87	Naphthalene	128	13.166	13.166	(1.167)	200715	76.9219	21.074(R)
88	1,2,3-Trichlorobenzene	180	13.356	13.356	(1.183)	110091	93.3760	25.582(R)
146	2-Methylnaphthalene	142	14.030	14.030	(1.243)	1008	8.89408	2.437
89	Ethyl Ether	59	2.588	2.588	(0.393)	332984	210.385	57.640
91	3-Chloropropene	76	Compound Not Detected.					
92	Isopropyl Ether	87	4.718	4.718	(0.716)	317327	258.841	70.915
93	2-Chloro-1,3-butadiene	53	Compound Not Detected.					
14	Dichlorofluoromethane	67	Compound Not Detected.					
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	5.475	5.463	(0.831)	8670	5.15912	1.413
96	Methacrylonitrile	67	Compound Not Detected.					
97	Isobutanol	42	6.280	6.280	(0.953)	561442	13694.6	3751.9(A)
99	n-Butanol	56	Compound Not Detected.					
100	Methyl Methacrylate	41	Compound Not Detected.					
25	Cyclohexanone	55	10.256	10.256	(0.909)	257792	7850.76	2150.9(R)
101	2-Nitropropane	41	Compound Not Detected.					
98	Cyclohexane	56	5.948	5.948	(0.903)	945908	236.038	64.668
143	Methyl Acetate	43	3.369	3.369	(0.511)	399941	226.826	62.144
144	Methylcyclohexane	83	7.132	7.132	(1.083)	690603	287.443	78.751
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
156	tert-Butyl Ethyl ether	59	Compound Not Detected.					
157	tert-Amyl Methyl ether	73	Compound Not Detected.					
158	1,2,3-Trimethylbenzene	105	11.356	11.356	(1.006)	848871	341.898	93.671(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141519.D
Report Date: 30-Jul-2010 08:51

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141519.D
Lab Smp Id: L4K241AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807,3,,MSD

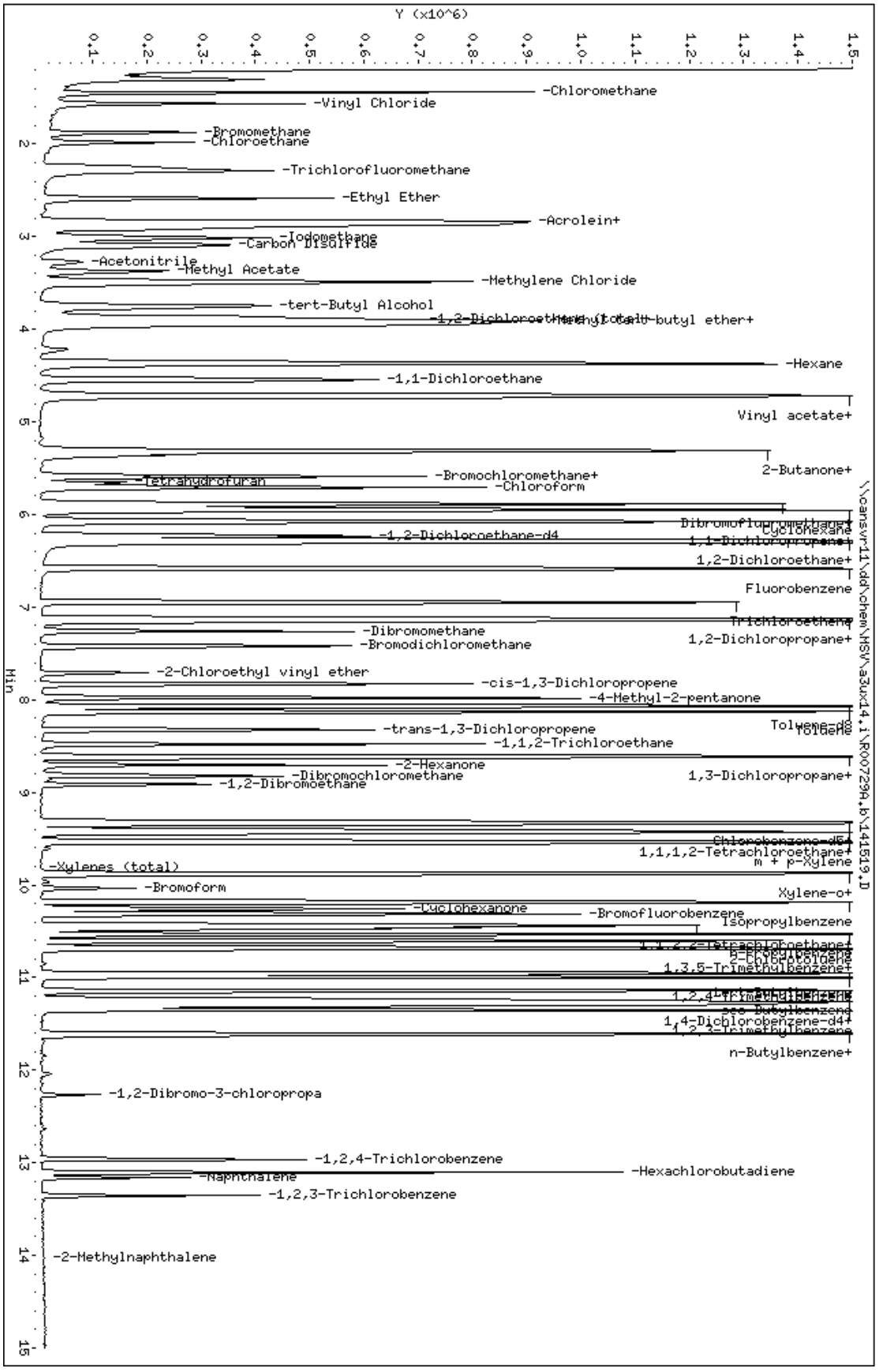
Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Client Smp ID: SED 2
Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1380319	-11.75
2 Chlorobenzene-d5	1117515	558758	2235030	836788	-25.12
3 1,4-Dichlorobenze	636663	318332	1273326	285781	-55.11

<-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141519.D
Date : 29-JUL-2010 17:00
Client ID: SED 2
Sample Info: L4K241AG,3.65G/5ML
Purge Volume: 3.6
Column phase: DB624

Instrument: a3ux14.i
Operator: 2807
Column diameter: 0.18

\\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141519.D

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4K221AC-MS **Matrix.....:** WG
MS Lot-Sample #: A0G230443-009 L4K221AD-MSD
Date Sampled...: 07/22/10 14:00 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**100**	**(62 - 130)**			**SW846 8260B**
	99	**(62 - 130)**	**0.58**	**(0-20)**	**SW846 8260B**
Trichloroethene	**96**	**(62 - 130)**			**SW846 8260B**
	97	**(62 - 130)**	**1.6**	**(0-20)**	**SW846 8260B**
Benzene	**93**	**(78 - 118)**			**SW846 8260B**
	93	**(78 - 118)**	**0.30**	**(0-20)**	**SW846 8260B**
Toluene	**97**	**(70 - 119)**			**SW846 8260B**
	94	**(70 - 119)**	**2.6**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**94**	**(76 - 117)**			**SW846 8260B**
	92	**(76 - 117)**	**1.5**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	85	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	88	(61 - 128)
Toluene-d8	89	(76 - 110)
	88	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	93	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4K221AC-MS **Matrix.....:** WG
MS Lot-Sample #: A0G230443-009 L4K221AD-MSD
Date Sampled...: 07/22/10 14:00 **Date Received..:** 07/23/10
Prep Date.....: 08/01/10 **Analysis Date..:** 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10**	**10**	**ug/L**	**100**		**SW846 8260B**
	ND	**10**	**9.9**	**ug/L**	**99**	**0.58**	**SW846 8260B**
Trichloroethene	**ND**	**10**	**9.6**	**ug/L**	**96**		**SW846 8260B**
	ND	**10**	**9.7**	**ug/L**	**97**	**1.6**	**SW846 8260B**
Benzene	**ND**	**10**	**9.3**	**ug/L**	**93**		**SW846 8260B**
	ND	**10**	**9.3**	**ug/L**	**93**	**0.30**	**SW846 8260B**
Toluene	**ND**	**10**	**9.7**	**ug/L**	**97**		**SW846 8260B**
	ND	**10**	**9.4**	**ug/L**	**94**	**2.6**	**SW846 8260B**
Chlorobenzene	**ND**	**10**	**9.4**	**ug/L**	**94**		**SW846 8260B**
	ND	**10**	**9.2**	**ug/L**	**92**	**1.5**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	85	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	88	(61 - 128)
Toluene-d8	89	(76 - 110)
	88	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	93	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1173.D
Report Date: 01-Aug-2010 18:35

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1173.D
Lab Smp Id: L4K221AC Client Smp ID: SW2
Inj Date : 01-AUG-2010 18:20
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K221AC,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582,3,,MS
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.354	5.354	(1.000)	1476261	50.0000	
* 2	Chlorobenzene-d5	117	8.040	8.040	(1.000)	1041752	50.0000	
* 3	1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	521051	50.0000	
$ 4	Dibromofluoromethane	113	4.774	4.774	(0.892)	414930	42.7491	8.550
$ 5	1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	774115	44.6711	8.934
$ 6	Toluene-d8	98	6.727	6.727	(0.837)	1869287	44.5098	8.902
$ 7	Bromofluorobenzene	95	9.152	9.152	(1.138)	728904	47.8561	9.571
8	Dichlorodifluoromethane	85	1.638	1.638	(0.306)	546050	45.4611	9.092
9	Chloromethane	50	1.792	1.792	(0.335)	865167	46.4297	9.286
10	Vinyl Chloride	62	1.899	1.899	(0.355)	718997	44.0870	8.817
11	Bromomethane	94	2.206	2.206	(0.412)	133499	43.3589	8.672
12	Chloroethane	64	2.301	2.301	(0.430)	263571	47.4767	9.495
13	Trichlorofluoromethane	101	2.502	2.514	(0.467)	552118	52.3894	10.478
15	Acrolein	56	2.822	2.822	(0.527)	304780	146.821	29.364
16	Acetone	43	2.952	2.952	(0.551)	526799	108.124	21.625
17	1,1-Dichloroethene	96	2.976	2.964	(0.556)	477102	50.0005	10.000
18	Freon-113	151	2.976	2.976	(0.556)	244638	57.1664	11.433
19	Iodomethane	142	3.106	3.106	(0.580)	457917	51.3703	10.274
20	Carbon Disulfide	76	3.165	3.165	(0.591)	1338890	53.9634	10.793
21	Methylene Chloride	84	3.366	3.366	(0.629)	468200	42.3500	8.470

22 Acetonitrile	41	3.189	3.177 (0.596)	204735	113.855	22.771
23 Acrylonitrile	53	3.520	3.508 (0.657)	740163	130.562	26.112

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1173.D
Report Date: 01-Aug-2010 18:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
24	Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1568942	48.4638	9.693
25	trans-1,2-Dichloroethene	96	3.555	3.555	(0.664)	540229	48.7698	9.754
26	Hexane	86	3.792	3.792	(0.708)	173534	56.5238	11.305
27	Vinyl acetate	43	3.946	3.934	(0.737)	2575769	100.590	20.118
28	1,1-Dichloroethane	63	3.910	3.910	(0.730)	1159043	48.6467	9.729
29	tert-Butyl Alcohol	59	3.402	3.390	(0.635)	524764	701.613	140.32
30	2-Butanone	43	4.384	4.384	(0.819)	664922	84.1571	16.831
M 31	1,2-Dichloroethene (total)	96				1103636	96.5516	19.310
32	cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	563407	47.7819	9.556
33	2,2-Dichloropropane	77	4.395	4.396	(0.821)	412593	46.7151	9.343
34	Bromochloromethane	128	4.585	4.585	(0.856)	234876	47.8899	9.578
35	Chloroform	83	4.644	4.644	(0.867)	1022416	48.9496	9.790
36	Tetrahydrofuran	42	4.632	4.632	(0.865)	210505	39.6817	7.936
37	1,1,1-Trichloroethane	97	4.821	4.822	(0.901)	638329	49.8721	9.974
38	1,1-Dichloropropene	75	4.952	4.952	(0.925)	902495	48.9810	9.796
39	Carbon Tetrachloride	117	4.963	4.964	(0.927)	574642	51.9670	10.393
40	1,2-Dichloroethane	62	5.129	5.129	(0.958)	962944	47.8391	9.568
41	Benzene	78	5.129	5.129	(0.958)	2452060	46.4275	9.286
42	Trichloroethene	130	5.673	5.673	(1.060)	490401	47.8550	9.571
43	1,2-Dichloropropane	63	5.863	5.851	(1.095)	674510	48.3010	9.660
44	1,4-Dioxane	88	5.969	5.957	(1.115)	1523	16.7220	3.344
45	Dibromomethane	93	5.957	5.957	(1.113)	340607	49.6479	9.930
46	Bromodichloromethane	83	6.076	6.076	(1.135)	715154	50.0370	10.007
47	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
48	cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	833793	45.0507	9.010
49	4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1298370	93.6623	18.732
50	Toluene	91	6.786	6.786	(0.844)	2481185	48.3151	9.663
51	trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	830484	49.3909	9.878
52	Ethyl Methacrylate	69	Compound Not Detected.					
53	1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	449219	44.9349	8.987
54	1,3-Dichloropropane	76	7.283	7.283	(0.906)	985054	47.0158	9.403
55	Tetrachloroethene	164	7.283	7.283	(0.906)	378557	47.5353	9.507
56	2-Hexanone	43	7.342	7.342	(0.913)	869256	94.0913	18.818
57	Dibromochloromethane	129	7.496	7.496	(0.932)	427209	50.5161	10.103
58	1,2-Dibromoethane	107	7.614	7.614	(0.947)	458225	48.4521	9.690
59	Chlorobenzene	112	8.064	8.064	(1.003)	1403040	46.8922	9.378
60	1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	449423	49.2572	9.851
61	Ethylbenzene	106	8.158	8.158	(1.015)	783716	47.5241	9.505
62	m + p-Xylene	106	8.277	8.265	(1.029)	1944164	94.7148	18.943
M 63	Xylenes (total)	106				2882784	142.636	28.527
64	Xylene-o	106	8.655	8.655	(1.077)	938620	47.9208	9.584
65	Styrene	104	8.655	8.655	(1.077)	1605492	48.3651	9.673
66	Bromoform	173	8.845	8.845	(1.100)	218562	43.4581	8.692
67	Isopropylbenzene	105	8.998	8.999	(1.119)	2479675	48.1497	9.630
68	1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	627383	44.2333	8.847
69	1,4-Dichloro-2-butene	53	9.330	9.318	(0.907)	358696	88.9536	17.791
70	1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	200623	45.6009	9.120
71	Bromobenzene	156	9.306	9.306	(0.905)	529200	45.4134	9.083
72	n-Propylbenzene	120	9.401	9.401	(0.914)	657567	47.6560	9.531
73	2-Chlorotoluene	126	9.495	9.496	(0.923)	535269	45.3311	9.066
74	1,3,5-Trimethylbenzene	105	9.566	9.567	(0.930)	2062779	46.9498	9.390
75	4-Chlorotoluene	126	9.602	9.590	(0.933)	575488	45.7239	9.145

76 tert-Butylbenzene	119	9.898	9.898 (0.962)	1634820	44.7855	8.957
77 1,2,4-Trimethylbenzene	105	9.933	9.933 (0.965)	2165360	47.1732	9.435

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1173.D
Report Date: 01-Aug-2010 18:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	2474908	45.6281	9.126
79	4-Isopropyltoluene	119	10.253	10.253	(0.997)	1998239	47.6108	9.522
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1002623	43.9745	8.795
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1062237	45.7575	9.151
82	n-Butylbenzene	91	10.655	10.655	(1.036)	1889567	48.7943	9.759
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	928320	45.1010	9.020
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	47507	47.4819	9.496
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	290309	42.9242	8.585
86	Hexachlorobutadiene	225	12.466	12.466	(1.212)	94961	40.1084	8.022
87	Naphthalene	128	12.537	12.537	(1.219)	819363	39.1816	7.836
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	272025	42.0459	8.409
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.715	2.715	(0.507)	568327	64.5052	12.901
91	3-Chloropropene	76	3.165	3.224	(0.591)	1338890	296.896	59.379
92	Isopropyl Ether	87	3.958	3.958	(0.739)	494654	54.1673	10.833
93	2-Chloro-1,3-butadiene	53	3.792	3.993	(0.708)	29271	2.01527	0.4030
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	4.384	4.431	(0.819)	664922	69.2544	13.851
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.999	4.999	(0.622)	839122	3015.07	603.01
100	Methyl Methacrylate	41	5.851	5.922	(1.093)	1092266	136.465	27.293
101	2-Nitropropane	41	6.466	6.265	(1.208)	7134	3.72556	0.7451
98	Cyclohexane	56	4.881	4.881	(0.912)	1051326	49.0116	9.802
99	n-Butanol	56	5.614	5.555	(0.698)	888	55.4426	11.088
103	Cyclohexanone	55	9.093	9.093	(0.884)	191608	591.893	118.38
143	Methyl Acetate	43	3.236	3.236	(0.604)	606967	46.7981	9.360
144	Methylcyclohexane	83	5.851	5.851	(1.093)	1016979	51.8380	10.368
146	2-Methylnaphthalene	142	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	101250	50.3684	10.074
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	5.129	5.212	(0.958)	43426	1.85335	0.3707(a)
157	1,2,3-Trimethylbenzene	105	10.359	10.359	(1.007)	2148244	56.5178	11.304

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1173.D
Report Date: 01-Aug-2010 18:35

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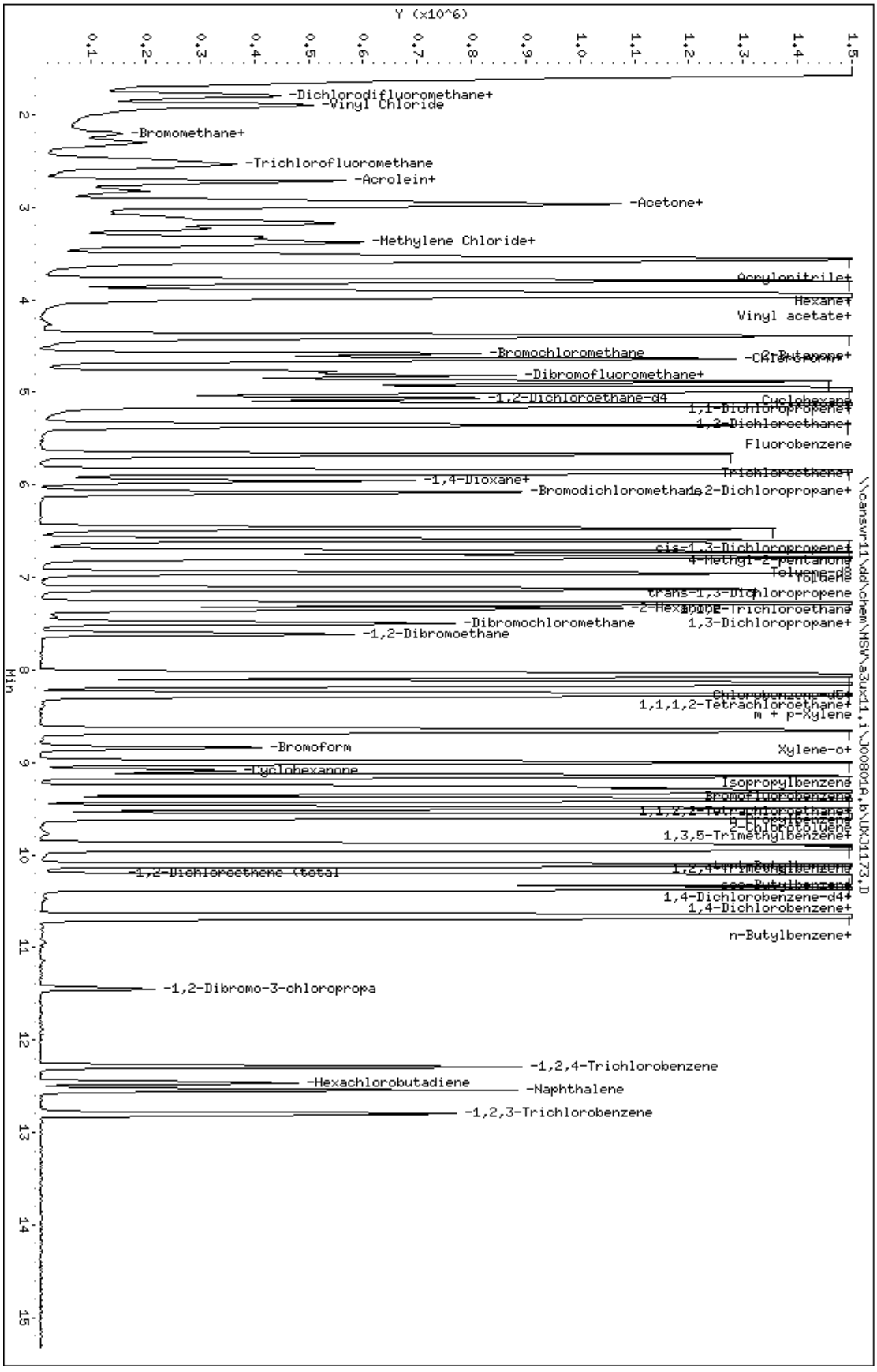
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1173.D
Lab Smp Id: L4K221AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: SW2
Level: LOW
Sample Type: WATER
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582,3,,MS

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1476261	-9.46
2 Chlorobenzene-d5	1193156	596578	2386312	1041752	-12.69
3 1,4-Dichlorobenze	593165	296583	1186330	521051	-12.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1173.D
Date : 01-AUG-2010 18:20
Client ID: SM2
Sample Info: L4K221AC,5ML/5ML
Purge Volume: 5.0
Column phase: DB624

Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18

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Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1174.D
Report Date: 01-Aug-2010 18:58

TestAmerica North Canton

VOLATILE REPORT SW-846 Method 8260A/8260B

Data file : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1174.D
Lab Smp Id: L4K221AD Client Smp ID: SW2
Inj Date : 01-AUG-2010 18:43
Operator : 43582 Inst ID: a3ux11.i
Smp Info : L4K221AD,5ML/5ML
Misc Info : J00801A,8260LLUX11,,43582,3,,MSD
Comment   :
Method   : \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Meth Date : 01-Aug-2010 14:51 a3ux11.i Quant Type: ISTD
Cal Date : 18-JUN-2010 02:01 Cal File: UXJ0107.D
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-8260+IX.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * 1/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample volume
Va	100.000	Injection Volume
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.354	5.354	(1.000)	1499592	50.0000	
*	2 Chlorobenzene-d5	117	8.040	8.040	(1.000)	1074080	50.0000	
*	3 1,4-Dichlorobenzene-d4	152	10.288	10.288	(1.000)	526238	50.0000	
$	4 Dibromofluoromethane	113	4.774	4.774	(0.892)	420935	42.6931	8.539
$	5 1,2-Dichloroethane-d4	65	5.070	5.058	(0.947)	772052	43.8589	8.772
$	6 Toluene-d8	98	6.726	6.727	(0.837)	1900888	43.8999	8.780
$	7 Bromofluorobenzene	95	9.152	9.152	(1.138)	727246	46.3102	9.262
	8 Dichlorodifluoromethane	85	1.638	1.638	(0.306)	572340	46.9086	9.382
	9 Chloromethane	50	1.792	1.792	(0.335)	891298	47.0879	9.418
	10 Vinyl Chloride	62	1.899	1.899	(0.355)	775370	46.8040	9.361
	11 Bromomethane	94	2.206	2.206	(0.412)	144071	45.9353	9.187
	12 Chloroethane	64	2.301	2.301	(0.430)	280060	49.6620	9.932
	13 Trichlorofluoromethane	101	2.514	2.514	(0.470)	560165	52.3286	10.466
	15 Acrolein	56	2.822	2.822	(0.527)	304357	144.337	28.867
	16 Acetone	43	2.952	2.952	(0.551)	443967	88.5586	17.712
	17 1,1-Dichloroethene	96	2.964	2.964	(0.554)	481838	49.7112	9.942
	18 Freon-113	151	2.975	2.976	(0.556)	262992	60.4991	12.100
	19 Iodomethane	142	3.106	3.106	(0.580)	472841	52.2192	10.444
	20 Carbon Disulfide	76	3.165	3.165	(0.591)	1339014	53.1287	10.626
	21 Methylene Chloride	84	3.366	3.366	(0.629)	444291	39.1099	7.822

22 Acetonitrile	41	3.177	3.177 (0.593)	225360	123.375	24.675
23 Acrylonitrile	53	3.520	3.508 (0.657)	767277	133.239	26.648

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1174.D
Report Date: 01-Aug-2010 18:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	24 Methyl tert-butyl ether	73	3.555	3.555	(0.664)	1596210	48.5390	9.708
	25 trans-1,2-Dichloroethene	96	3.567	3.555	(0.666)	539920	47.9835	9.597
	26 Hexane	86	3.792	3.792	(0.708)	176493	56.5932	11.319
	27 Vinyl acetate	43	3.946	3.934	(0.737)	2521127	96.9240	19.385
	28 1,1-Dichloroethane	63	3.910	3.910	(0.730)	1179598	48.7391	9.748
	29 tert-Butyl Alcohol	59	3.390	3.390	(0.633)	637452	839.018	167.80
	30 2-Butanone	43	4.384	4.384	(0.819)	677225	84.3806	16.876
M	31 1,2-Dichloroethene (total)	96				1106591	95.2945	19.059
	32 cis-1,2-dichloroethene	96	4.384	4.384	(0.819)	566671	47.3110	9.462
	33 2,2-Dichloropropane	77	4.395	4.396	(0.821)	419982	46.8119	9.362
	34 Bromochloromethane	128	4.585	4.585	(0.856)	235712	47.3126	9.462
	35 Chloroform	83	4.644	4.644	(0.867)	1018651	48.0106	9.602
	36 Tetrahydrofuran	42	4.632	4.632	(0.865)	217524	40.4259	8.085
	37 1,1,1-Trichloroethane	97	4.821	4.822	(0.901)	638057	49.0752	9.815
	38 1,1-Dichloropropene	75	4.952	4.952	(0.925)	910177	48.6294	9.726
	39 Carbon Tetrachloride	117	4.963	4.964	(0.927)	578888	51.5365	10.307
	40 1,2-Dichloroethane	62	5.129	5.129	(0.958)	965813	47.2351	9.447
	41 Benzene	78	5.129	5.129	(0.958)	2483491	46.2911	9.258
	42 Trichloroethene	130	5.673	5.673	(1.060)	506222	48.6303	9.726
	43 1,2-Dichloropropane	63	5.863	5.851	(1.095)	685757	48.3424	9.668
	44 1,4-Dioxane	88	Compound Not Detected.					
	45 Dibromomethane	93	5.957	5.957	(1.113)	348329	49.9835	9.997
	46 Bromodichloromethane	83	6.076	6.076	(1.135)	722055	49.7339	9.947
	47 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
	48 cis-1,3-Dichloropropene	75	6.466	6.466	(1.208)	851657	45.3000	9.060
	49 4-Methyl-2-pentanone	43	6.596	6.596	(1.232)	1281446	91.0032	18.201
	50 Toluene	91	6.786	6.786	(0.844)	2492316	47.0711	9.414
	51 trans-1,3-Dichloropropene	75	6.951	6.951	(0.865)	837930	48.3338	9.667
	52 Ethyl Methacrylate	69	Compound Not Detected.					
	53 1,1,2-Trichloroethane	97	7.129	7.129	(0.887)	462026	44.8250	8.965
	54 1,3-Dichloropropane	76	7.283	7.283	(0.906)	997469	46.1755	9.235
	55 Tetrachloroethene	164	7.283	7.283	(0.906)	386118	47.0254	9.405
	56 2-Hexanone	43	7.342	7.342	(0.913)	891876	93.6341	18.727
	57 Dibromochloromethane	129	7.496	7.496	(0.932)	432164	49.5639	9.913
	58 1,2-Dibromoethane	107	7.614	7.614	(0.947)	454769	46.6394	9.328
	59 Chlorobenzene	112	8.064	8.064	(1.003)	1424538	46.1777	9.236
	60 1,1,1,2-Tetrachloroethane	131	8.135	8.135	(1.012)	456466	48.5233	9.705
	61 Ethylbenzene	106	8.158	8.158	(1.015)	783603	46.0871	9.217
	62 m + p-Xylene	106	8.277	8.265	(1.029)	1954373	92.3465	18.469
M	63 Xylenes (total)	106				2904987	139.419	27.884
	64 Xylene-o	106	8.655	8.655	(1.077)	950614	47.0724	9.414
	65 Styrene	104	8.655	8.655	(1.077)	1642347	47.9863	9.597
	66 Bromoform	173	8.845	8.845	(1.100)	217560	42.0572	8.411
	67 Isopropylbenzene	105	8.998	8.999	(1.119)	2542632	47.8862	9.577
	68 1,1,2,2-Tetrachloroethane	83	9.271	9.271	(0.901)	629223	43.9258	8.785
	69 1,4-Dichloro-2-butene	53	9.330	9.318	(0.907)	365003	89.6255	17.925
	70 1,2,3-Trichloropropane	110	9.318	9.318	(0.906)	203015	45.6897	9.138
	71 Bromobenzene	156	9.306	9.306	(0.905)	541158	45.9818	9.196
	72 n-Propylbenzene	120	9.401	9.401	(0.914)	659648	47.3356	9.467
	73 2-Chlorotoluene	126	9.495	9.496	(0.923)	546825	45.8533	9.171
	74 1,3,5-Trimethylbenzene	105	9.566	9.567	(0.930)	2099636	47.3177	9.464
	75 4-Chlorotoluene	126	9.590	9.590	(0.932)	578342	45.4977	9.100

76 tert-Butylbenzene	119	9.898	9.898 (0.962)	1673886	45.4037	9.081
77 1,2,4-Trimethylbenzene	105	9.933	9.933 (0.965)	2189495	47.2289	9.446

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1174.D
Report Date: 01-Aug-2010 18:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
78	sec-Butylbenzene	105	10.111	10.111	(0.983)	2499040	45.6189	9.124
79	4-Isopropyltoluene	119	10.253	10.253	(0.997)	2040853	48.1469	9.629
80	1,3-Dichlorobenzene	146	10.229	10.229	(0.994)	1031068	44.7764	8.955
81	1,4-Dichlorobenzene	146	10.312	10.312	(1.002)	1051838	44.8629	8.972
82	n-Butylbenzene	91	10.655	10.655	(1.036)	1924733	49.2125	9.842
83	1,2-Dichlorobenzene	146	10.679	10.679	(1.038)	950001	45.6994	9.140
84	1,2-Dibromo-3-chloropropane	157	11.448	11.448	(1.113)	48941	48.4330	9.687
85	1,2,4-Trichlorobenzene	180	12.288	12.288	(1.194)	289844	42.4330	8.487
86	Hexachlorobutadiene	225	12.465	12.466	(1.212)	99646	41.6723	8.334
87	Naphthalene	128	12.536	12.537	(1.219)	829743	39.2805	7.856
88	1,2,3-Trichlorobenzene	180	12.797	12.797	(1.244)	288940	44.2201	8.844
14	Dichlorofluoromethane	67	Compound Not Detected.					
89	Ethyl Ether	59	2.715	2.715	(0.507)	583691	65.2183	13.044
91	3-Chloropropene	76	3.165	3.224	(0.591)	1339014	292.304	58.461
92	Isopropyl Ether	87	3.958	3.958	(0.739)	499598	53.8575	10.771
93	2-Chloro-1,3-butadiene	53	3.792	3.993	(0.708)	30312	2.05448	0.4109
94	Propionitrile	54	Compound Not Detected.					
95	Ethyl Acetate	43	4.384	4.431	(0.819)	677225	69.4383	13.888
96	Methacrylonitrile	41	Compound Not Detected.					
97	Isobutanol	41	4.999	4.999	(0.622)	966366	3367.77	673.55
100	Methyl Methacrylate	41	5.851	5.922	(1.093)	1099148	135.188	27.038
101	2-Nitropropane	41	6.454	6.265	(1.206)	5151	2.64813	0.5296
98	Cyclohexane	56	4.881	4.881	(0.912)	1092282	50.1287	10.026
99	n-Butanol	56	5.590	5.555	(0.695)	383	53.1579	10.632
103	Cyclohexanone	55	9.093	9.093	(0.884)	259216	786.750	157.35
143	Methyl Acetate	43	3.236	3.236	(0.604)	586262	44.4984	8.900
144	Methylcyclohexane	83	5.851	5.851	(1.093)	1042185	52.2964	10.459
146	2-Methylnaphthalene	142	Compound Not Detected.					
141	1,3,5-Trichlorobenzene	180	Compound Not Detected.					
150	Vinyl Acetate-86	86	3.934	3.934	(0.735)	106441	52.1269	10.425
155	t-Butyl ethyl ether	59	Compound Not Detected.					
156	t-Amyl methyl ether	73	5.129	5.212	(0.958)	47623	2.00085	0.4002(a)
157	1,2,3-Trimethylbenzene	105	10.359	10.359	(1.007)	2131303	55.5626	11.112

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\UXJ1174.D
Report Date: 01-Aug-2010 18:58

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux11.i
Lab File ID: UXJ1174.D
Lab Smp Id: L4K221AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 43582
Method File: \\cansvr11\dd\chem\MSV\a3ux11.i\J00801A.b\8260LLUX11.m
Misc Info: J00801A,8260LLUX11,,43582,3,,MSD

Calibration Date: 01-AUG-2010
Calibration Time: 14:10
Client Smp ID: SW2
Level: LOW
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1630492	815246	3260984	1499592	-8.03
2 Chlorobenzene-d5	1193156	596578	2386312	1074080	-9.98
3 1,4-Dichlorobenze	593165	296583	1186330	526238	-11.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.35	4.85	5.85	5.35	-0.00
2 Chlorobenzene-d5	8.04	7.54	8.54	8.04	-0.00
3 1,4-Dichlorobenze	10.29	9.79	10.79	10.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\cansvr11\dd\chem\MSV\a3ux11.i\J000801A.b\UXJ1174.D
Date : 01-AUG-2010 18:43
Client ID: SM2
Sample Info: L4K2214D,5ML/5ML
Purge Volume: 5.0
Column phase: DB624
Instrument: a3ux11.i
Operator: 43582
Column diameter: 0.18
\\cansvr11\dd\chem\MSV\a3ux11.i\J000801A.b\UXJ1174.D
Y (x10^6)
Min
-Dichlorodifluoromethane+
-Vinyl Chloride
-Bromomethane+
-Trichlorofluoromethane
-Ethyl Ether
-Acrolein
-Acetone+
-Methylene Chloride+
Acrylonitrile+
Hexane+
Vinyl acetate+
-Bromochloromethane
2-Butanone+
-Dibromofluoromethane+
Chloroform+
-1,2-Dichloroethane-d4
Cyclohexane
1,1-Dichloropropene+
1,2-Dichloroethane+
Fluorobenzene
Trichloroethene+
-Dibromomethane
-Bromodichloromethane
1,2-Dichloropropane+
cis-1,3-Dichloropropene+
4-Methyl-2-pentanone
Toluene
trans-1,3-Dichloropropene
2-Hexanone
Tetrachloroethane
-Dibromochloromethane
1,3-Dichloropropane+
-1,2-Dibromoethane
Chlorobenzene-d5+
1,1,1,2-Tetrachloroethane+
m + p-Xylene
-Bromoform
Xylene-o+
-Cyclohexanone
Isopropylbenzene
Bromofluorobenzene
1,1,2,2-Tetrachloroethane+
n-Propylbenzene
2-Chlorotoluene
1,3,5-Trimethylbenzene+
-1,2-Dichloroethene (total
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4+
1,4-Dichlorobenzene+
n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

MISCELLANEOUS DATA

Instr. a3ux11.i

Date: 30-JUL-2010 14:02

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#: V8452	Type: DB624	Method: 8260 624
SS#: V8534	Length: 20 M	Batch:
BFB#: V8538	I.D.: 0.18 mm	Target Batch: J00730B.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
14:02	BFB432.D	air y.	BFB				a
14:26	UXJ1124.D	50NG-CC	CCALIB_4				—
14:49	UXJ1125.D	50NG-A9CC	CCALIB_4				—
15:19	UXJ1126.D	200NG-IC V8460,61,62,63	CALIB_6		J00730		a
15:41	UXJ1127.D	100NG-IC	CALIB_5				a
16:04	UXJ1128.D	50NG-IC	CALIB_4				a
16:27	UXJ1129.D	25NG-IC	CALIB_3				a
16:50	UXJ1130.D	10NG-IC	CALIB_2				a
17:12	UXJ1131.D	5NG-IC	CALIB_1				a
17:35	UXJ1132.D	ICV V8464	METHSPIKE				a
17:58	UXJ1133.D	LCS	METHSPIKE				—
18:20	UXJ1134.D	LCSD	METHSPIKE				—
18:43	UXJ1135.D	VBLK	BLANK				—

Analyst: 1644

Level 2 Review: TB Date: 8/6/10

Page No. #1

Instr. a3ux11.i

Date: 01-AUG-2010 13:43

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

8/3

Standard Codes:	Column	
IS#: V8952	Type: DB624	Method: 8260 624
SS#: V8834	Length: 20 M	Batch: 021427
BFB#: V8538	I.D.: 0.18 mm	Target Batch: J00801A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
13:43	BFB434.D	dilr mg.	BFB				
14:10	UXJ1162.D	50NG-CC V8960,61,62	CCALIB_4		J00730		
14:33	UXJ1163.D	50NG-A9CC V8950,73	CCALIB_4		J00618		
14:55	UXJ1164.D	LCS V8964	METHSPIKE		L40X2		
15:18	UXJ1165.D	LCSD	BLANK				
15:41	UXJ1166.D	VBLK	BLANK				
16:04	UXJ1167.D	L4KX71AA,5ML/5ML	SAMPLE	N		A0G230443	
16:26	UXJ1168.D	L4K1N1AA,5ML/5ML	SAMPLE	N		A0G230443	
16:49	UXJ1169.D	L4K1R1AJ,5ML/5ML	SAMPLE	N		A0G230443	
17:12	UXJ1170.D	L4K~~2~~1AA,5ML/5ML L4K291AA 8/2/10 jr	SAMPLE	N		A0G230443	
17:34	UXJ1171.D	L4K~~2~~T1AJ,5ML/5ML 2	SAMPLE		8/2/10 jr	~~SDGa01304~~ A0G230443	
17:57	UXJ1172.D	L4K221AA,5ML/5ML	SAMPLE	N		A0G230443	
18:20	UXJ1173.D	L4K221AC,5ML/5ML	MS	N		A0G230443	
18:43	UXJ1174.D	L4K221AD,5ML/5ML	MSD	N		A0G230443	
19:05	UXJ1175.D	L4K291AJ,5ML/5ML	SAMPLE	N		A0G230443	
19:28	UXJ1176.D	L4K3C1AA,5ML/5ML	SAMPLE	N		A0G230443	
19:50	UXJ1177.D	L4MLX1AA,5ML/5ML	SAMPLE	N		A0G240436	
20:13	UXJ1178.D	L4ML01AA,5ML/5ML	SAMPLE	N		A0G240436	
20:36	UXJ1179.D	L4ML11AA,5ML/5ML	SAMPLE	N	(m)	A0G240436	
20:59	UXJ1180.D	L4ML21AA,5ML/5ML	SAMPLE	N		A0G240436	
21:22	UXJ1181.D	L4ML31AA,5ML/5ML	SAMPLE	N		A0G240436	
21:44	UXJ1182.D	L4ML41AA,5ML/5ML	SAMPLE	N		A0G240436	
22:07	UXJ1183.D	L4ML51AA,5ML/5ML	SAMPLE	N	Bzme	A0G240436	—
22:30	UXJ1184.D	L4ML61AA,5ML/5ML	SAMPLE	N		A0G240436	
22:53	UXJ1185.D	L4ML81AA,5ML/5ML	SAMPLE	N		A0G240436	

Analyst: 43582

Level 2 Review: TJL Date: 8-3-10

1630492

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a230443 jr 8/4/10

Instr. a3ux11.i

Date: 01-AUG-2010 13:43

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#:	Type: DB624	Method: 8260 624
SS#:	Length: 20 M	Batch:
BFB#:	I.D.: 0.18 mm	Target Batch: J00801A.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
23:15	UXJ1186.D	L4ML91AA,5ML/5ML	SAMPLE	N		A0G240436	
23:38	UXJ1187.D	L4MMA1AA,5ML/5ML	SAMPLE	N		A0G240436	
00:00	UXJ1188.D	L4MMC1AA,5ML/5ML	SAMPLE	N		A0G240436	

Analyst: 43582

Level 2 Review: _____ Date: _____

Page No. #2

Instr. a3ux11.i

Date: 02-AUG-2010 21:56

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

8/5

Standard Codes:	Column		
IS#: V8952	Type: DB624	Method: 8260 624	
SS#: V8834	Length: 20 M	Batch: 0315229	
BFB#: V8538	I.D.: 0.18 mm	Target Batch: J00802B.b	

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
21:56	BFB436.D	BFB436	BFB				
22:18	UXJ1218.D	50NG-CC	CCALIB_4				
22:41	UXJ1219.D	50NG-A9CC	CCALIB_4				
23:03	UXJ1220.D	LCS	METHSPIKE				
23:26	UXJ1221.D	LCSD	METHSPIKE				
23:49	UXJ1222.D	VBLK	BLANK				
00:11	UXJ1223.D	L4JF01AC,5ML/5ML	SAMPLE	N		0G22454	
00:34	UXJ1224.D	L4JF21AC,5ML/5ML	SAMPLE	N		0G22454	
00:56	UXJ1225.D	L4JF31AA,5ML/5ML	SAMPLE	N		0G22454	
01:19	UXJ1226.D	L4JG81AA,0.15ML/5ML	SAMPLE	N		A0G220460	
01:41	UXJ1227.D	L4JHK1AA,5ML/5ML	SAMPLE	N		A0G220460	
02:04	UXJ1228.D	L4JHM1AA,5ML/5ML	SAMPLE	N		A0G220460	
02:27	UXJ1229.D	L4KLN1AG,5ML/5ML	SAMPLE	N		0G22471	
02:49	UXJ1230.D	L4KLP1AG,5ML/5ML	SAMPLE	N		0G22471	
03:12	UXJ1231.D	L4KLQ1AG,5ML/5ML	SAMPLE	N		0G22471	
03:34	UXJ1232.D	L4KLR1AG,5ML/5ML	SAMPLE	N		0G22471	
03:57	UXJ1233.D	L4KLT1AG,5ML/5ML	SAMPLE	N		0G22471	
04:19	UXJ1234.D	L4KLV1AG,5ML/5ML	SAMPLE	N		0G22471	
04:42	UXJ1235.D	L4KLW1AG,5ML/5ML	SAMPLE	N		0G22471	
05:05	UXJ1236.D	L4KLX1AG,5ML/5ML	SAMPLE	N		0G22471	
05:27	UXJ1237.D	L4KL01AG,5ML/5ML	SAMPLE	N		0G22471	
05:50	UXJ1238.D	L4KL11AT,5ML/5ML	SAMPLE	N		0G22471	
06:13	UXJ1239.D	L4KL11AU,5ML/5ML	MS	N		0G22471	
06:36	UXJ1240.D	L4KL11AV,5ML/5ML	MSD	N		0G22471	
06:59	UXJ1241.D	L4KL21AA,5ML/5ML	SAMPLE	N		0G22471	
07:21	UXJ1242.D	L4MK91AA,5ML/5ML	SAMPLE	N		A0G240431	

dw by. V8960,61,62 V8930,73 V8964

J00730 J00618 L4164P archived 8/3/10

Analyst: 43582

1338892

Level 2 Review: TB Date: 8/5/10

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Instr. a3ux11.i

Date: 02-AUG-2010 21:56

TestAmerica - North Canton
GC/MS VOLATILES INJECTION LOG

Standard Codes:	Column	
IS#:	Type: DB624	Method: 8260 624
SS#:	Length: 20 M	Batch:
BFB#:	I.D.: 0.18 mm	Target Batch: J00802B.b

InjTm	Data File	Sample Info	MS/MSD	TIC	Comments	Lot/SDG	QUAL
07:44	UXJ1243.D	L4MX51AA,5ML/5ML	SAMPLE	N		A0G240472	
08:07	UXJ1244.D	L4K1A1AJ,5ML/5ML	SAMPLE	N		A0G230443	

Analyst: 43582

Level 2 Review: _____ Date: _____

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TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG Instr. a3ux14.i

Standard Codes:	Column	Date: 19-JUL-2010 15:57	PSI He
IS#: V8820	Type: DB624	Batch#:	2500 PSI
SS#: V8819	Length: 20 M	Method: 8260 624	
BFB#: V8538 Exp 9/10/10	I.D.: 0.18 mm	Target Batch: R00719B-IC.b	

InjTm	Client ID	Data File	Sample Info	Comments	Lot/SDG	QUAL
15:57	50NGBFB	BFB14484.D	50NG INJECTION OF BFB			Ok
16:20		141239.D	BLANK		SDGa00468	Ok
16:42		141240.D	1000NG-IC V8922, V8911 V8908, V8918			Ok
17:03		141241.D	500NG-IC V8926			Ok
17:25		141242.D	250NG-IC	R00719		Ok
17:46		141243.D	100NG-IC			Ok
18:07		141244.D	50NG-IC			Ok
18:29		141245.D	25NG-IC			Ok
18:50		141246.D	10NG-IC	MI		Ok
19:12		141247.D	5NG-IC			Ok
19:33		141248.D	1000NG-IC V8918			Ok
19:54		141249.D	500NG-IC			Ok
20:16		141250.D	250NG-IC	R00719-Bc		Ok
20:37		141251.D	100NG-IC			Ok
20:59		141252.D	50NG-IC			Ok
21:20		141253.D	25NG-IC			Ok
21:42		141254.D	10NG-IC			Ok
22:03		141255.D	5NG-IC			Ok
22:25		141256.D	ICV	V8855-FAS		Ok
22:46		141257.D	1000NG-A9IC V8916, V8907			Ok
23:07		141258.D	500NG-A9IC V8915			Ok
23:29		141259.D	250NG-A9IC	R00719-A9		Ok
23:50		141260.D	100NG-A9IC			Ok
00:12		141261.D	50NG-A9IC			Ok
00:33		141262.D	25NG-A9IC			Ok
00:54		141263.D	10NG-A9IC			Ok

Analyst: 2807

Level 2 Review: TS Date: 7/27/10

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG Instr. a3ux14.i

Standard Codes:	Column	Date: 19-JUL-2010 15:57
IS#:	Type: DB624	Batch#:
SS#:	Length: 20 M	Method: 8260 624
BFB#:	I.D.: 0.18 mm	Target Batch: R00719B-IC.b

InjTm	Client ID	Data File	Sample Info	Comments	Lot/SDG	QUAL
01:16		141264.D	5NG-A9IC			ok
01:37		141265.D	CHECK	v8910 FAS		ok
01:59		141266.D	CHECKDUP	1 1		ok
02:20		141267.D	VBLK,5G/5ML			ok

Analyst: 2807

Level 2 Review: _____ Date: _____

Page No. #2

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG Instr. a3ux14.i

MS#: 0211065 8/5

Standard Codes:	Column	Date: 29-JUL-2010 10:11
IS#: V8820	Type: DB624	Batch#: 0211125
SS#: V8819	Length: 20 M	Method: (8260) 624
BFB#: V8538 Exp: 9/10/10	I.D.: 0.18 mm	Target Batch: R00729A.b

He Pressi 22.50 PSI

InjTm	Client ID	Data File	Sample Info	Comments	Lot/SDG	QUAL
10:11	50NGBFB	BFB14505.D	50NG INJECTION OF BFB			Ok
10:33		141501.D	BLANK		SDGa00468	Ok
10:55		141502.D	250NG-CC V8959, V8947 V8960	R00719/R00719-BR		Ok
11:16		141503.D	250NG-A9CC V8948, V8950 V8957	R00719-A9		Ok
11:38	L4WK61AC	141504.D	CHECK	250.y V8964 FAS		Ok
11:59	L4WK61AD	141505.D	CHECKDUP			Ok
12:21	L4WK61AA	141506.D	VBLK,5G/5ML			Ok
12:42	SB-12/0-2/072210	141507.D	L4MK41AC,5G/5ML	(E.D.) 8/6	A0G240431	Ok
13:04	SB-13/14-16/07221	141508.D	L4MK51AC,5G/5ML		A0G240431	Ok
13:25	SB-14/2-4/072210	141509.D	L4MK61AC,5G/5ML		A0G240431	Ok
13:47	SB-15/0-2/072210	141510.D	L4MK71AC,5G/5ML		A0G240431	Ok
14:08	SB-17/1.5-3/07221	141511.D	L4MK81AC,5G/5ML	ISL	A0G240431	
14:29	ES-FBTQ-SB001-SB0	141512.D	L4N4C1AM,5.33G/5ML	8/5	A0G260452	Ok
14:51	ES-FBTQ-SB002-SB0	141513.D	L4N4K1AM,5.66G/5ML		A0G260452	Ok
15:12	ES-FBTQ-SB003-SB0	141514.D	L4N4V1AM,5.27G/5ML		A0G260452	Ok
15:34	SED 1	141515.D	L4K1V1AA,5.04G/5ML	(E.D.) 8/6	A0G230443	Ok
15:55	SED DUP	141516.D	L4K2R1AA,3.93G/5ML	ISL	A0G230443	
16:17	SED 2	141517.D	L4K241AA,3.43G/5ML	ISL (X3)	A0G230443	Oh
16:38	SED 2	141518.D	L4K241AF,3.69G/5ML -MS	250y ISL V8964 FAS	A0G230443	Oh
17:00	SED 2	141519.D	L4K241AG,3.65G/5ML -MSD	ISL	A0G230443	Oh
17:21		141520.D	BLANK		SDGa00468	Ok
17:42	ES-FBTQ-SB001-SS-	141521.D	L4N361AF,,2,100UL/5ML,,3.98,5000	Prep 7/27 (0209384) 8/5	A0G260452	Oh
18:04	ES-FBTQ-SB002-SS-	141522.D	L4N4G1A8,,2,100UL/5ML,,4.25,5000	SSLLL (X2)	A0G260452	Oh
18:25	ES-FBTQ-SB002-SS-	141523.D	L4N4G1AE,,2,100UL/5ML,,5.89,5000 +MS	MS#: 0211066 SSLLL (X2)	A0G260452	Oh
18:46	ES-FBTQ-SB002-SS-	141524.D	L4N4G1AH,,2,100UL/5ML,,4.41,5000 +MSD		A0G260452	Oh
19:08	ES-FBTQ-SB003-SS-	141525.D	L4N4R1AM,,2,100UL/5ML,,3.84,5000		A0G260452	Oh

Analyst: 2807

1564159

Level 2 Review: TB Date: 8/5/10

Page No. #1

TestAmerica - North Canton

GC/MS VOLATILES INJECTION LOG Instr. a3ux14.i

Standard Codes:	Column	Date: 29-JUL-2010 10:11
IS#:	Type: DB624	Batch#:
SS#:	Length: 20 M	Method: 8260 624
BFB#:	I.D.: 0.18 mm	Target Batch: R00729A.b

InjTm	Client ID	Data File	Sample Info	Comments	Lot/SDG	QUAL
19:29		141526.D	BLANK		SDGa00468	ok
19:51	SB-17/1.5-3/07221	141527.D	L4MK81AC,5G/5ML	(E.D.) 8/6	A0G240431	ok
20:12	SED DUP	141528.D	L4K2R1AA,4.71G/5ML	(E.D.) 8/6	A0G230443	ok
20:43	XSB-1	141529.D	L4P2P1AC,5G/5ML	8/10	A0G270460	ok
21:04	XSB-2	141530.D	L4P261AD,5G/5ML		A0G270460	ok
21:25	XSB-3	141531.D	L4P291AD,5G/5ML		A0G270460	ok
21:47	XSB-4	141532.D	L4P3C1AD,5G/5ML		A0G270460	ok
22:08	XSB-5	141533.D	L4P3D1AD,5G/5ML		A0G270460	ok

Analyst: 2807

Level 2 Review: _____ Date: _____

Lot: A0G230443

A0G230443

Sample	Work Order	SAC	Client Sample ID	pH	Free Chlorine
1	L4KX7-1AA	XX I 25 QK 01	FIELD BLANK 3	<2	ND
2	L4K1A-1AJ	XX I 25 QK 01	OW25	<2	Y
3	L4K1N-1AA	XX I 25 QK 01	SW1	<2	ND
4	L4K1R-1AJ	XX I 25 QK 01	OW19	<2	ND
6	L4K2Q-1AA	XX I 25 QK 01	SW DUP	<2	ND
8	L4K2T-1AJ	XX I 25 QK 01	OW18	<2	ND
9	L4K22-1AA	XX I 25 QK 01	SW2	<2	ND
11	L4K29-1AJ	XX I 25 QK 01	OW24	<2	ND
12	L4K3C-1AA	XX I 25 QK 01	TRIP BLANK	<2	ND

North Canton

Prep Date/ Preservation Date	Sample Workorder#	High Level Sample wt. (g) Total	Tare	Sample	Low Level Sample wt. (g) Total	Tare	Sample	Low Level Sample wt. (g) Total	Tare	Sample	LL Preserv./ MeOH Added	Time	MeOH QC DATA Batch#	MeOHLot#	Spike	Surr	Analyst	Comments
7/23/10	VBLK	5.0 g										23:30		H46E47		5ULV8942	LM	
7/23/10	LCS	5.0 g												H46E47	100ULV8941	5ULV8942	LM	
7/23/10	LCSD	5.0 g												H46E47	100ULV8941	5ULV8942	LM	
7/23/10	L4K1V	4.87			5.04			4.77			H	23:50		H46E47		5ULV8942	LM	LIGHT EFF
7/23/10	L4K2R	3.78			3.93			4.71			H	23:50		H46E47		5ULV8942	LM	EFF
7/23/10	L4K24	3.10			3.43			3.33			H	23:50		H46E47		5ULV8942	LM	
7/23/10	L4K24MS	3.34			3.69			3.37			H	23:50		H46E47	100ULV8941	5ULV8942	LM	
7/23/10	L4K24MSD	3.14			3.65			3.49			H	23:50		H46E47	100ULV8941	5ULV8942	LM	

*H= 5ml water and freeze
*N = 5ml sodium bisulfate solution

590

Lot/SDG Number: **A0G230443**

Sample Control Chain of Custody - TAL North Canton
GC/MS Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0G230443	1	L4KX71AA	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans
A0G230443	2	L4K1A1AJ	Volatile Organics, GC/MS (8260B)	08/03/10	Laura Evans
A0G230443	3	L4K1N1AA	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans
A0G230443	4	L4K1R1AJ	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans
A0G230443	5	L4K1V1AA	Volatile Organics, GC/MS (8260B)	07/29/10	Steve Macenczak
A0G230443	6	L4K2Q1AA	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans
A0G230443	7	L4K2R1AA	Volatile Organics, GC/MS (8260B)	07/29/10	Steve Macenczak
A0G230443	8	L4K2T1AJ	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans
A0G230443	9	L4K221AA	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans
A0G230443	10	L4K241AA	Volatile Organics, GC/MS (8260B)	07/29/10	Steve Macenczak
A0G230443	11	L4K291AJ	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans
A0G230443	12	L4K3C1AA	Volatile Organics, GC/MS (8260B)	08/01/10	Laura Evans

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

DISSOLVED GASES/RSK DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QC SUMMARY DATA

RSK SOP-175 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Lot #: A0G300000 WO #: L4WE31AC
BATCH: 0211043

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Methane	110	110	101	75- 127	
Ethane	200	210	104	74- 138	
Ethene	190	200	106	73- 140	
Acetylene	180	160	93	70- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G220446 WO #: L4JD31AX
BATCH: 0211043

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Methane	110	0.82	100	91	75- 127	
Ethane	200	ND	190	92	74- 138	
Ethene	190	ND	180	94	73- 140	
Acetylene	180	ND	150	87	70- 130	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Cardinal Resources

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: A0G220446 WO #: L4JD31A0
BATCH: 0211043

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Methane	110	100	91	0.19	30	75- 127	
Ethane	200	190	92	0.37	30	74- 138	
Ethene	190	180	94	0.16	30	73- 140	
Acetylene	180	160	88	1.1	30	70- 130	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 4 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

RSK SOP-175 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: L4WE31AA

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN SDG Number:

Lab File ID: ZF072829. Lot Number: A0G230443

Date Analyzed: 07/29/10 Time Analyzed: 13:20

Matrix: WATER Date Extracted:07/29/10

GC Column: HAYSEP D ID: .32 Extraction Method: RSKSOP-175

Instrument ID: Z Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	L4JD31AW	ZF072836.	07/29/10	17:02
02	LAB MS/MSD	L4JD31AX S	ZF072837.	07/29/10	17:27
03	LAB MS/MSD	L4JD31A0 D	ZF072838.	07/29/10	17:53
04	OW25	L4K1A1AH	ZF072842.	07/29/10	19:34
05	OW19	L4K1R1AH	ZF072843.	07/29/10	19:59
06	OW18	L4K2T1AH	ZF072853.	07/30/10	09:49
07	OW24	L4K291AH	ZF072845.	07/29/10	20:50
08	CHECK SAMPLE	L4WE31AC C	ZF072828.	07/29/10	12:55
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE DATA

Cardinal Resources

Client Sample ID: OW25

GC Volatiles

Lot-Sample #...: A0G230443-002 **Work Order #...:** L4K1A1AH **Matrix.....:** WG
Date Sampled...: 07/22/10 09:10 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	ND	0.50	ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072842.D
Lab Smp Id: L4K1A1AH Client Smp ID: OW25
Inj Date : 29-JUL-2010 19:34
Operator : 042476 Inst ID: zpid.i
Smp Info : L4K1A1AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	Compound Not Detected.					
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072842.D

Date : 29-JUL-2010 19:34

Client ID: OW25

Instrument: zpid.i

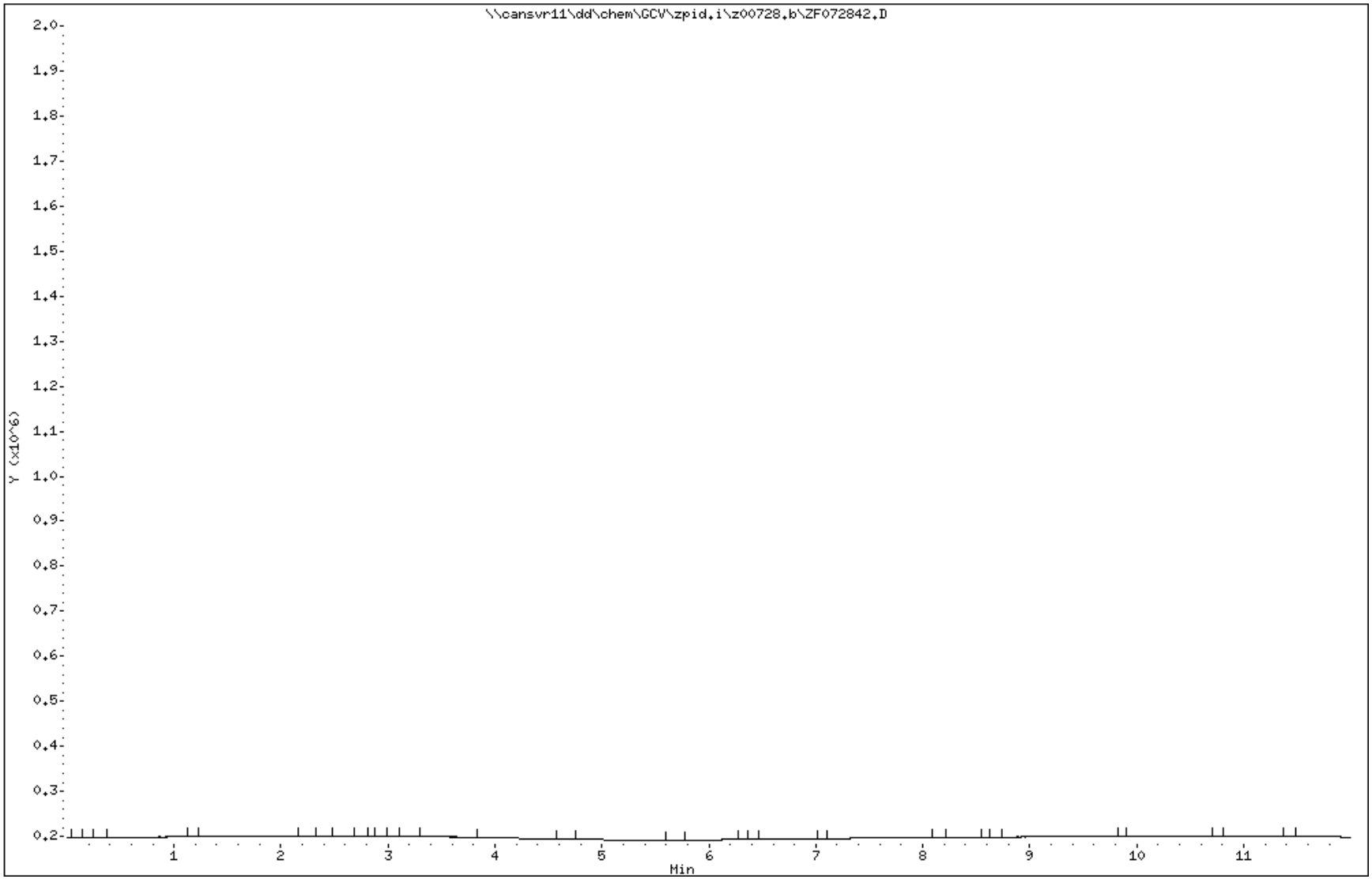
Sample Info: L4K1A1AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 19:34
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072842.D
Lab Sample ID: L4K1A1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	NOT DETECTED	Expected RT =	4.635	
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.768	

Cardinal Resources

Client Sample ID: OW19

GC Volatiles

Lot-Sample #...: A0G230443-004 **Work Order #...:** L4K1R1AH **Matrix.....:** WG
Date Sampled...: 07/22/10 11:15 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 2 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	**0.56 J**	**1.0**	**ug/L**
Ethene	ND	1.0	ug/L
Methane	**1500**	**1.0**	**ug/L**

NOTE(S):

J Estimated result. Result is less than RL.

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072843.D
Lab Smp Id: L4K1R1AH Client Smp ID: OW19
Inj Date : 29-JUL-2010 19:59
Operator : 042476 Inst ID: zpid.i
Smp Info : L4K1R1AH,2
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.617	4.635	-0.018	4433126	761.270	1522
2 Ethene	Compound Not Detected.					
3 Ethane	8.811	8.767	0.044	4393	0.27977	0.5595
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072843.D

Date : 29-JUL-2010 19:59

Client ID: OW19

Instrument: zpid.i

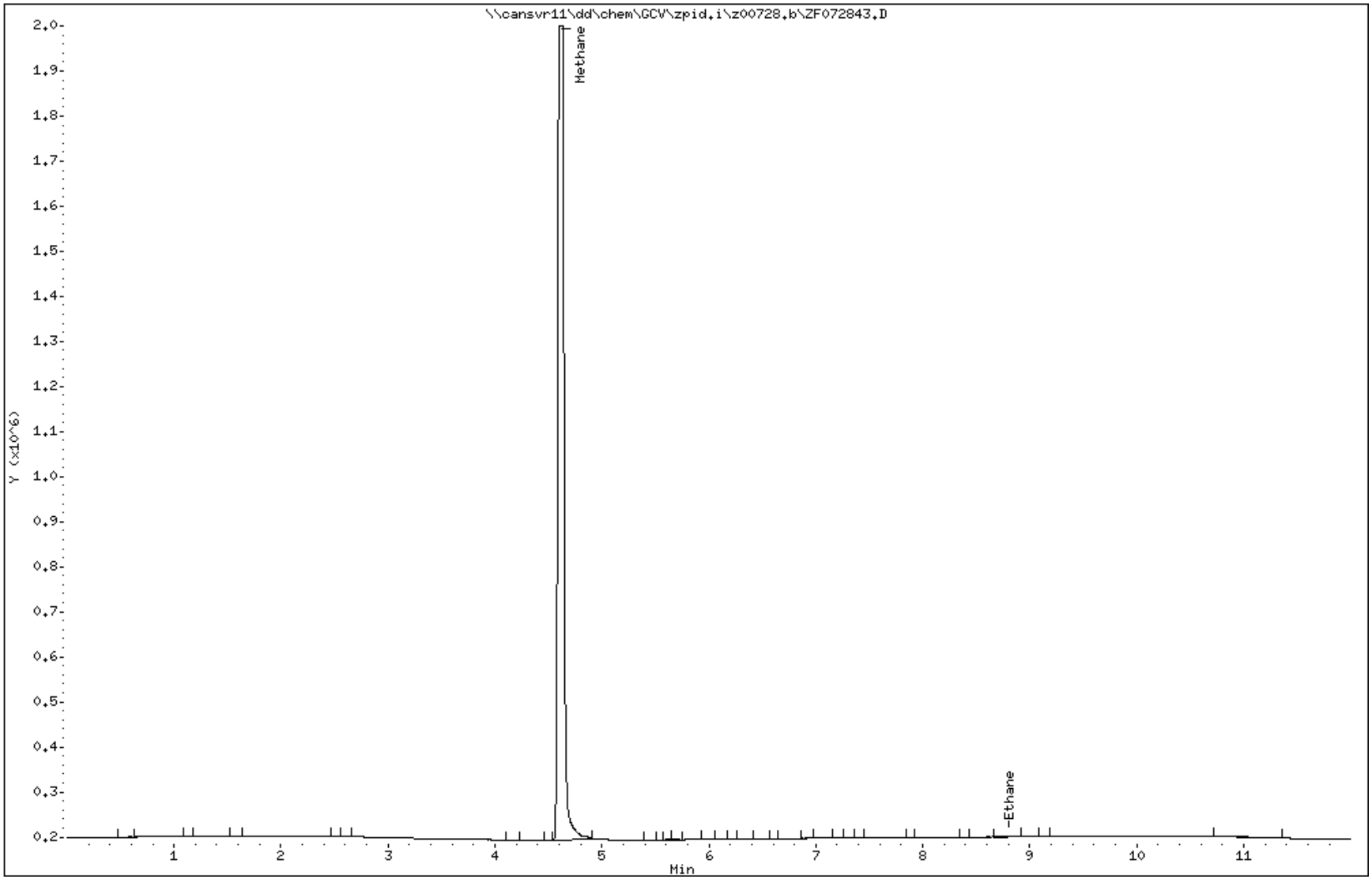
Sample Info: L4K1R1AH,2

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 19:59
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072843.D
Lab Sample ID: L4K1R1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Methane	4.618	11735583	761.270	1522.540 ug/L
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	8.811	4393	0.280	0.560 ug/L

Cardinal Resources

Client Sample ID: OW18

GC Volatiles

Lot-Sample #...: A0G230443-008 **Work Order #...:** L4K2T1AH **Matrix.....:** WG
Date Sampled...: 07/22/10 13:00 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0211043
Dilution Factor: 2 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	1.0	ug/L
Ethene	ND	1.0	ug/L
Methane	**910**	**1.0**	**ug/L**

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072853.D
Lab Smp Id: L4K2T1AH Client Smp ID: OW18
Inj Date : 30-JUL-2010 09:49
Operator : 042476 Inst ID: zpid.i
Smp Info : L4K2T1AH,2
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.605	4.635	-0.030	2639406	453.247	906.5
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072853.D

Date : 30-JUL-2010 09:49

Client ID: OW18

Instrument: zpid.i

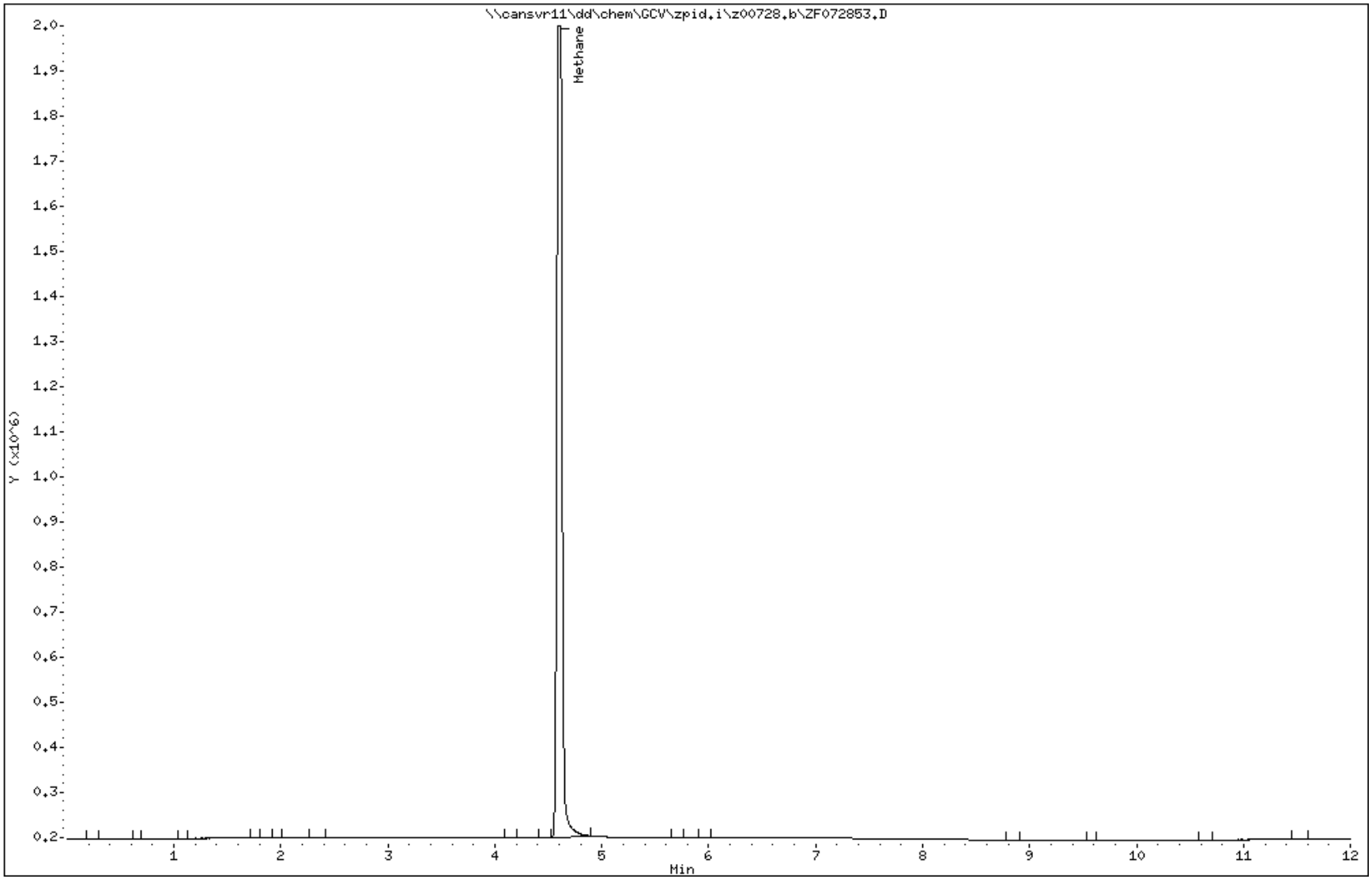
Sample Info: L4K2T1AH,2

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 30-JUL-2010 09:49
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072853.D
Lab Sample ID: L4K2T1AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Methane	4.605	7155060	453.247	906.494 ug/L
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.768	

Cardinal Resources

Client Sample ID: OW24

GC Volatiles

Lot-Sample #...: A0G230443-011 **Work Order #...:** L4K291AH **Matrix.....:** WG
Date Sampled...: 07/22/10 14:20 **Date Received..:** 07/23/10
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL **Final Wgt/Vol..:** 1 mL
Method.....: RSK SOP-175

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	ND	0.50	ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072845.D
Lab Smp Id: L4K291AH Client Smp ID: OW24
Inj Date : 29-JUL-2010 20:50
Operator : 042476 Inst ID: zpid.i
Smp Info : L4K291AH
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANSVR11

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	Compound Not Detected.					
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072845.D

Date : 29-JUL-2010 20:50

Client ID: OW24

Instrument: zpid.i

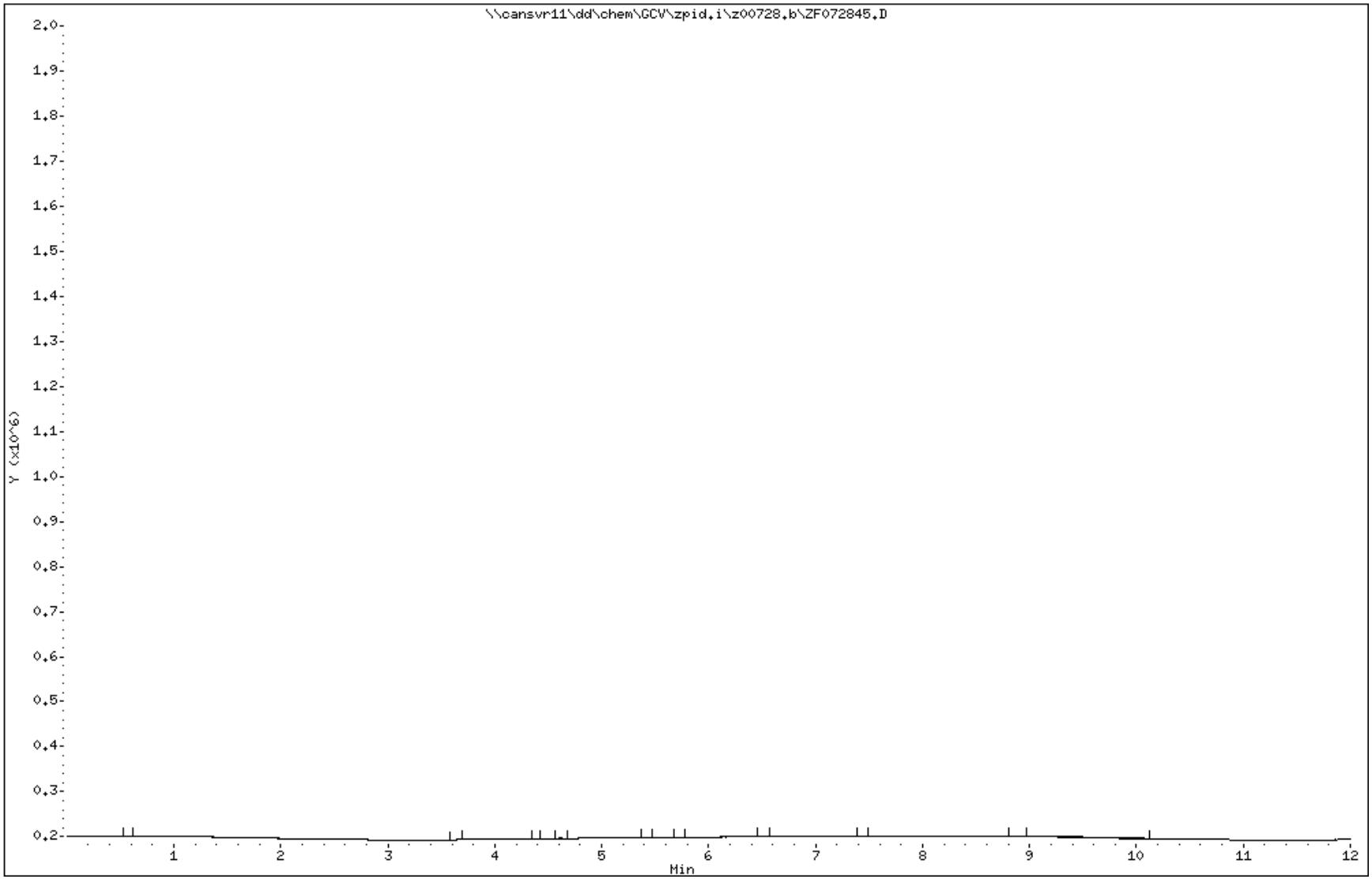
Sample Info: L4K291AH

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 20:50
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072845.D
Lab Sample ID: L4K291AH
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	NOT DETECTED	Expected RT =	4.635	
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.768	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

STANDARD DATA

Report Date: 22-Jun-2010 11:14

Calibration History

Method : \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Start Cal Date: 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Last Cal Level: 9
Last Cal Type : Initial Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.24000		
10-JUN-2010 23:44	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Cal Level: 2 , Cal Amount: 0.91000		
11-JUN-2010 00:09	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Cal Level: 3 , Cal Amount: 3.64000		
11-JUN-2010 00:34	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Cal Level: 4 , Cal Amount: 10.93000		
11-JUN-2010 01:00	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Cal Level: 5 , Cal Amount: 36.44000		
11-JUN-2010 01:25	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Cal Level: 6 , Cal Amount: 109.31000		
11-JUN-2010 01:50	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Cal Level: 7 , Cal Amount: 372.92000		
11-JUN-2010 02:16	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Cal Level: 8 , Cal Amount: 728.71000		

11-JUN-2010 02:41	rsk	
\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D		

Cal Level: 9 , Cal Amount: 1457.42000

11-JUN-2010 03:06	rsk	
\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D		

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

11-JUN-2010 01:50	rsk	
\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D		

TestAmerica - North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Last Edit : 11-Jun-2010 06:52 heakind
Curve Type : Average

Calibration File Names:
Level 1: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Level 2: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Level 3: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Level 4: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Level 5: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Level 6: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Level 7: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Level 8: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D
Level 9: \\Cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Compound	0.24000 Level 1	0.91000 Level 2	3.640 Level 3	10.930 Level 4	36.440 Level 5	109.310 Level 6	___ RRF	% RSD
	372.920 Level 7	728.710 Level 8	1457.420 Level 9					
1 Methane	5350	5395	5965	5964	5659	5669		
	6027	6087	6294				5823	5.537
2 Ethene	13680	13404	14902	14689	14090	14015		
	14581	14309	14613				14254	3.493
3 Ethane	13618	14214	16492	16342	15569	15582		
	16474	16179	16850				15702	7.036
4 Acetylene	5624	6083	5837	5855	5438	5687		
	5904	5873	5670				5775	3.277

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Lab Smp Id: 3770
Inj Date : 10-JUN-2010 23:44
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,1
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 10-JUN-2010 23:44 Cal File: ZF061002.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.631	4.631	0.000	1284	0.24000	0.2400(a)
2 Ethene	7.255	7.255	0.000	5609	0.41000	0.4100(a)
3 Ethane	8.841	8.841	0.000	5992	0.44000	0.4400
4 Acetylene	7.965	7.965	0.000	2137	0.38000	0.3800(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D

Date : 10-JUN-2010 23:44

Client ID:

Instrument: zpid.i

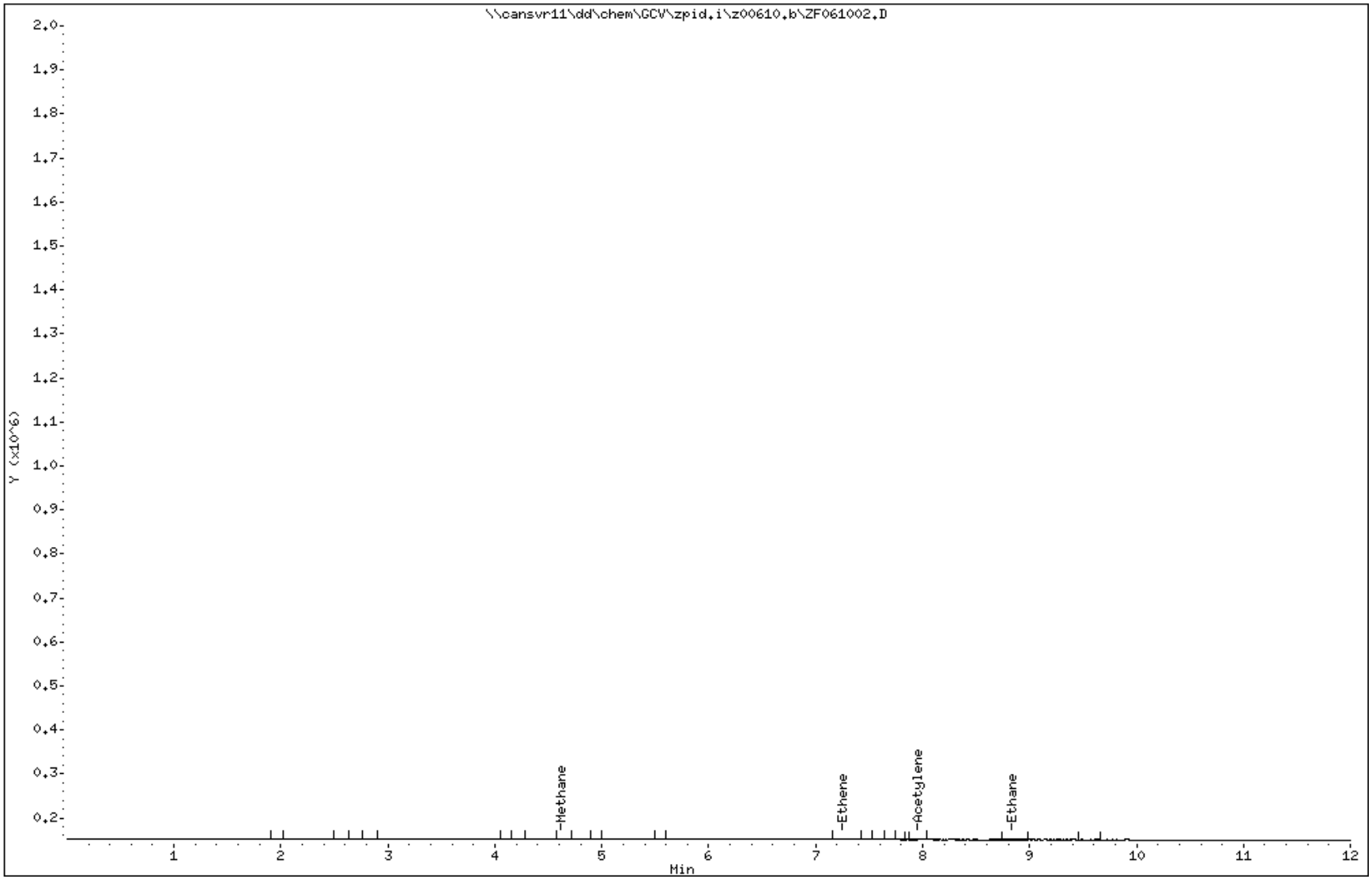
Sample Info: 3770,,1,1

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 10-JUN-2010 23:44
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061002.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.632	4031	0.240	0.240 ug/L
2) Ethene	7.255	5609	0.410	0.410 ug/L
4) Acetylene	7.965	2137	0.380	0.380 ug/L
3) Ethane	8.842	5992	0.440	0.440 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 00:09
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,2
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 00:09 Cal File: ZF061003.D
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.636	4.634	0.002	4909	0.91000	0.9176
2 Ethene	7.273	7.264	0.009	21313	1.59000	1.558
3 Ethane	8.856	8.849	0.007	24306	1.71000	1.785
4 Acetylene	7.963	7.964	-0.001	9003	1.48000	1.601

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D

Date : 11-JUN-2010 00:09

Client ID:

Instrument: zpid.i

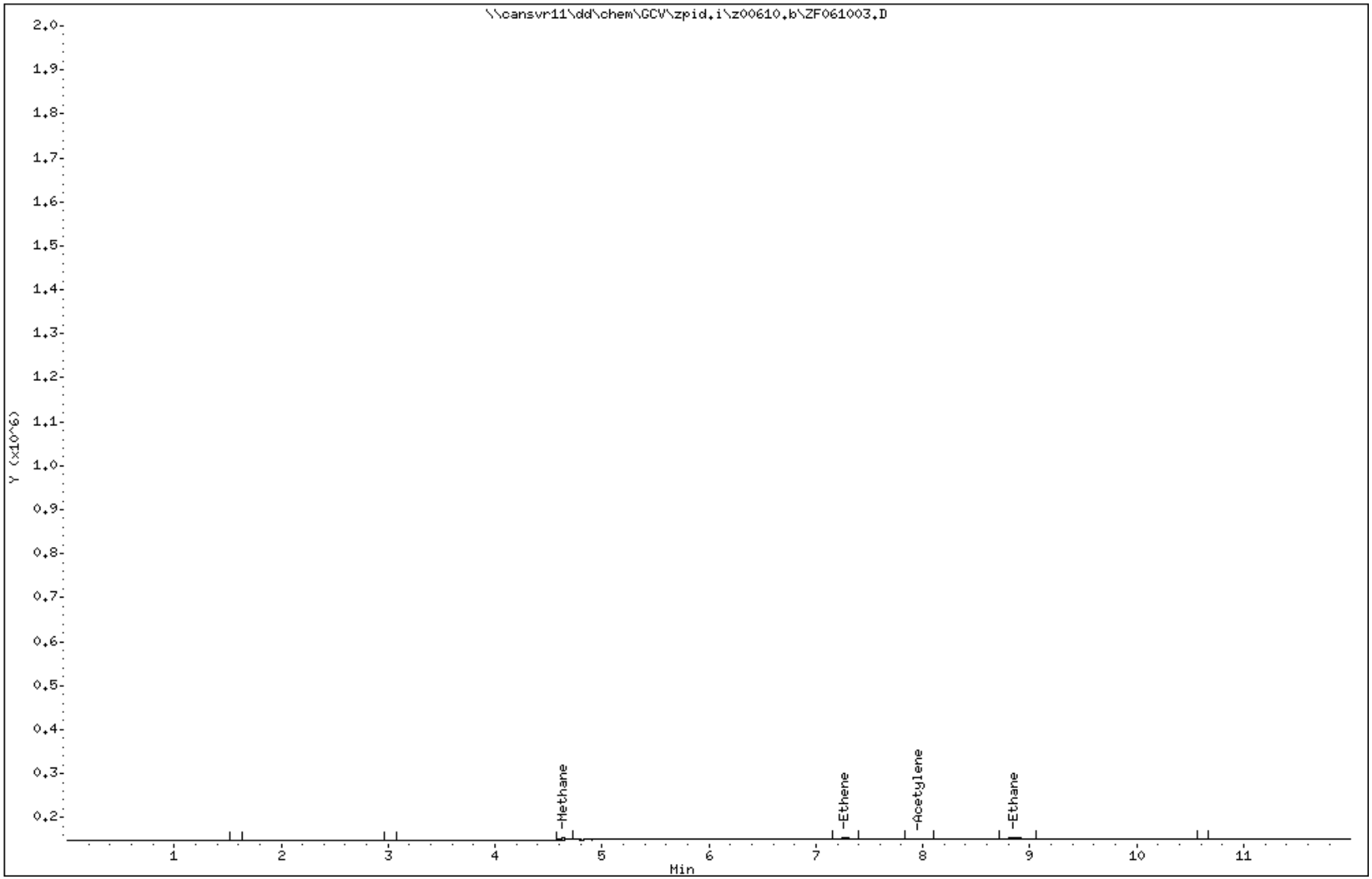
Sample Info: 3770,,1,2

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 00:09
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061003.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.637	13755	0.918	0.918 ug/L
2) Ethene	7.274	21313	1.558	1.558 ug/L
4) Acetylene	7.964	9003	1.601	1.601 ug/L
3) Ethane	8.857	24306	1.785	1.785 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 00:34
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,3
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 00:34 Cal File: ZF061004.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.640	4.636	0.004	21713	3.64000	3.838
2 Ethene	7.273	7.267	0.006	95074	6.38000	6.653
3 Ethane	8.860	8.853	0.007	112643	6.83000	7.482
4 Acetylene	7.970	7.966	0.004	34555	5.92000	6.030

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D

Date : 11-JUN-2010 00:34

Client ID:

Instrument: zpid.i

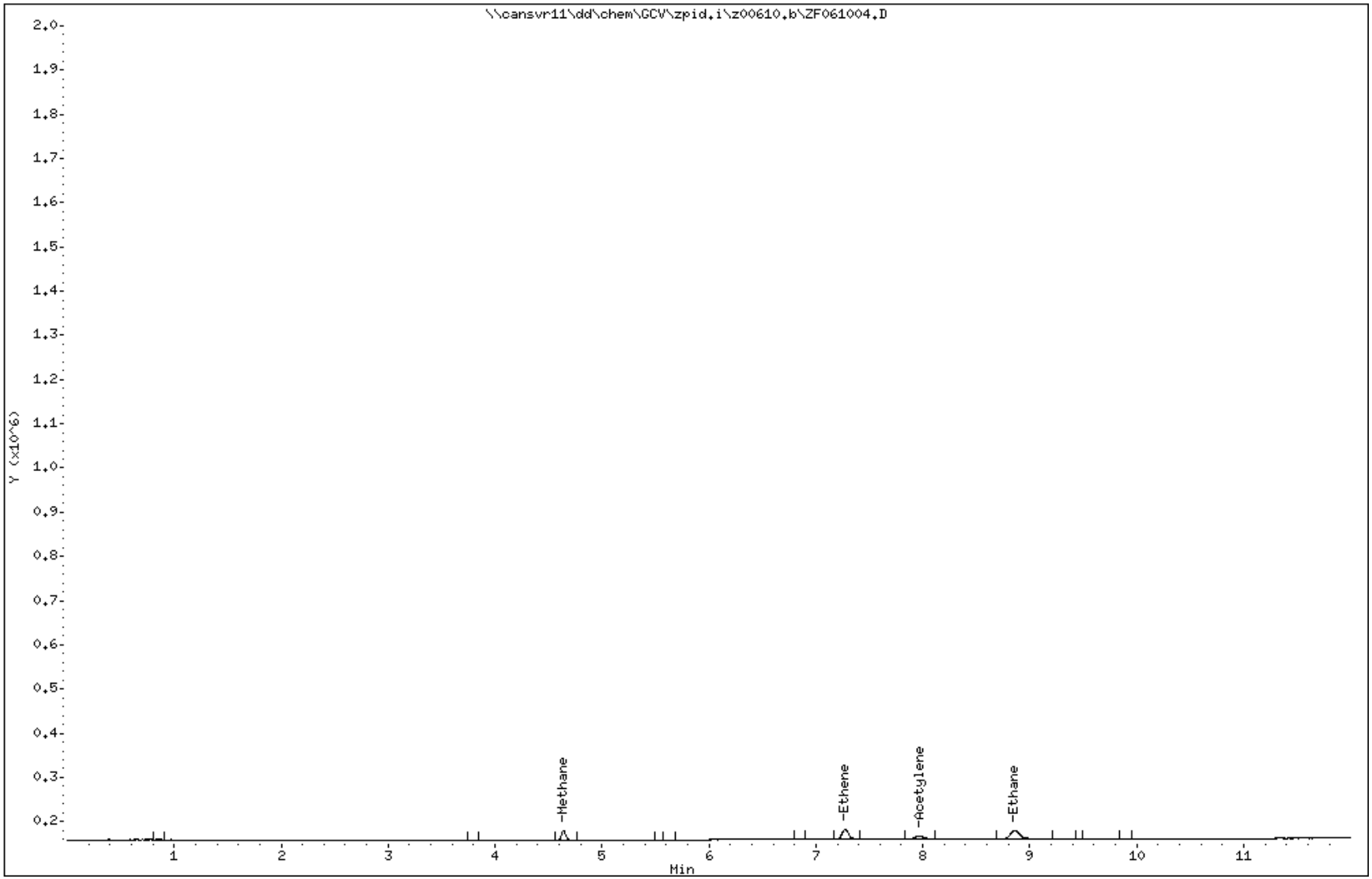
Sample Info: 3770,,1,3

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 00:34
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061004.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	60064	3.838	3.838 ug/L
2) Ethene	7.274	95074	6.653	6.653 ug/L
4) Acetylene	7.970	34555	6.030	6.030 ug/L
3) Ethane	8.860	112643	7.482	7.482 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Lab Smp Id: 3770
Inj Date : 11-JUN-2010 01:00
Operator : 042476 Inst ID: zpid.i
Smp Info : 3770,,1,4
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:00 Cal File: ZF061005.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.640	4.637	0.003	65189	10.9300	11.32
2 Ethene	7.277	7.269	0.008	281006	19.1300	19.48
3 Ethane	8.860	8.854	0.006	335014	20.5000	21.64
4 Acetylene	7.973	7.968	0.005	103983	17.7600	18.02

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D

Page 1

Date : 11-JUN-2010 01:00

Client ID:

Instrument: zpid.i

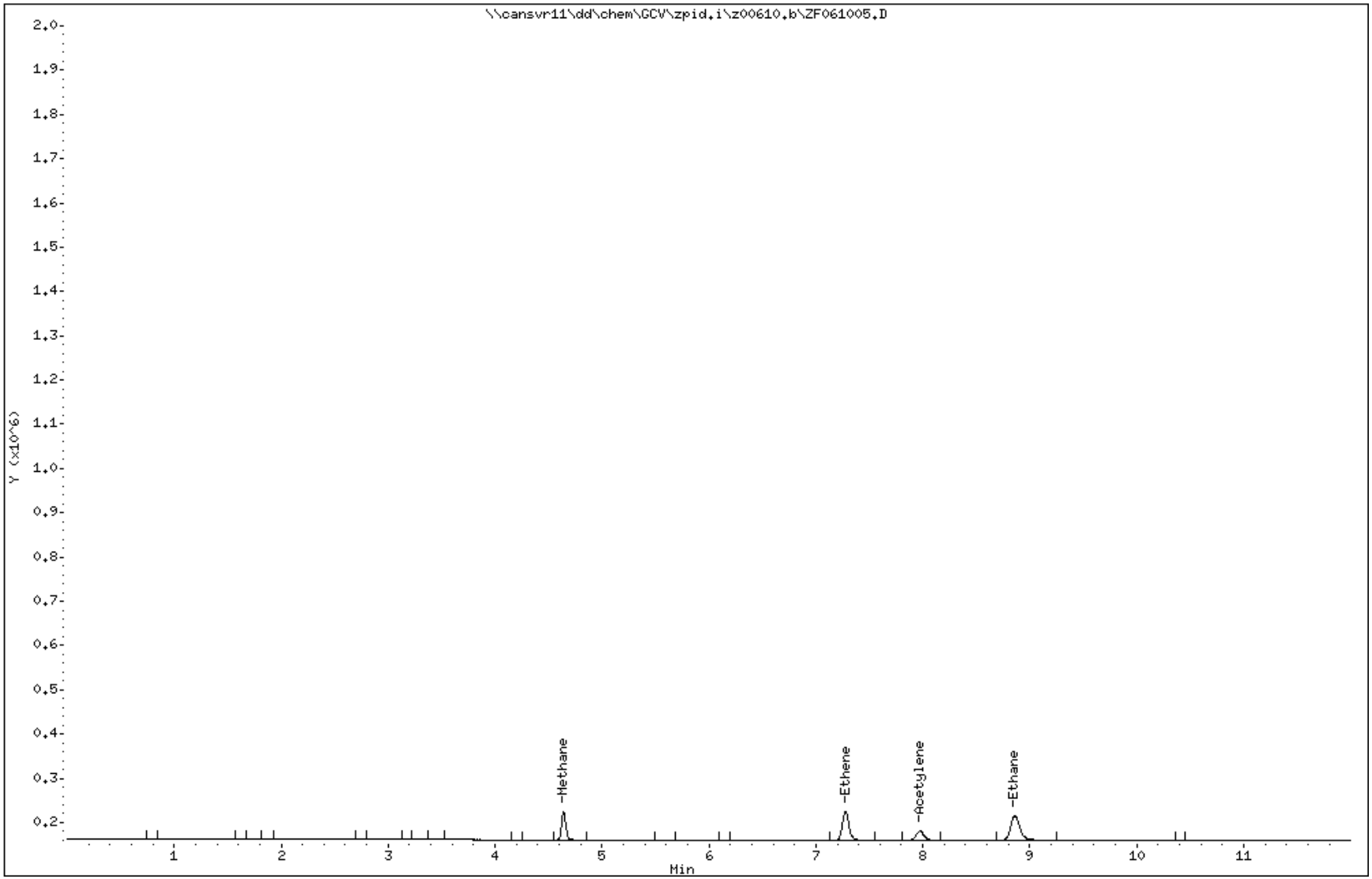
Sample Info: 3770,,1,4

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:00
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061005.D
Lab Sample ID: 3770
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	182732	11.318	11.318 ug/L
2) Ethene	7.277	281006	19.482	19.482 ug/L
4) Acetylene	7.974	103983	18.016	18.016 ug/L
3) Ethane	8.860	335014	21.636	21.636 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 01:25
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,5
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:25 Cal File: ZF061006.D
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.642	4.638	0.004	206211	36.4400	35.96
2 Ethene	7.278	7.271	0.007	898363	63.7600	62.64
3 Ethane	8.858	8.855	0.003	1063672	68.3200	68.60
4 Acetylene	7.972	7.969	0.003	321989	59.2100	56.60

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D

Date : 11-JUN-2010 01:25

Client ID:

Instrument: zpid.i

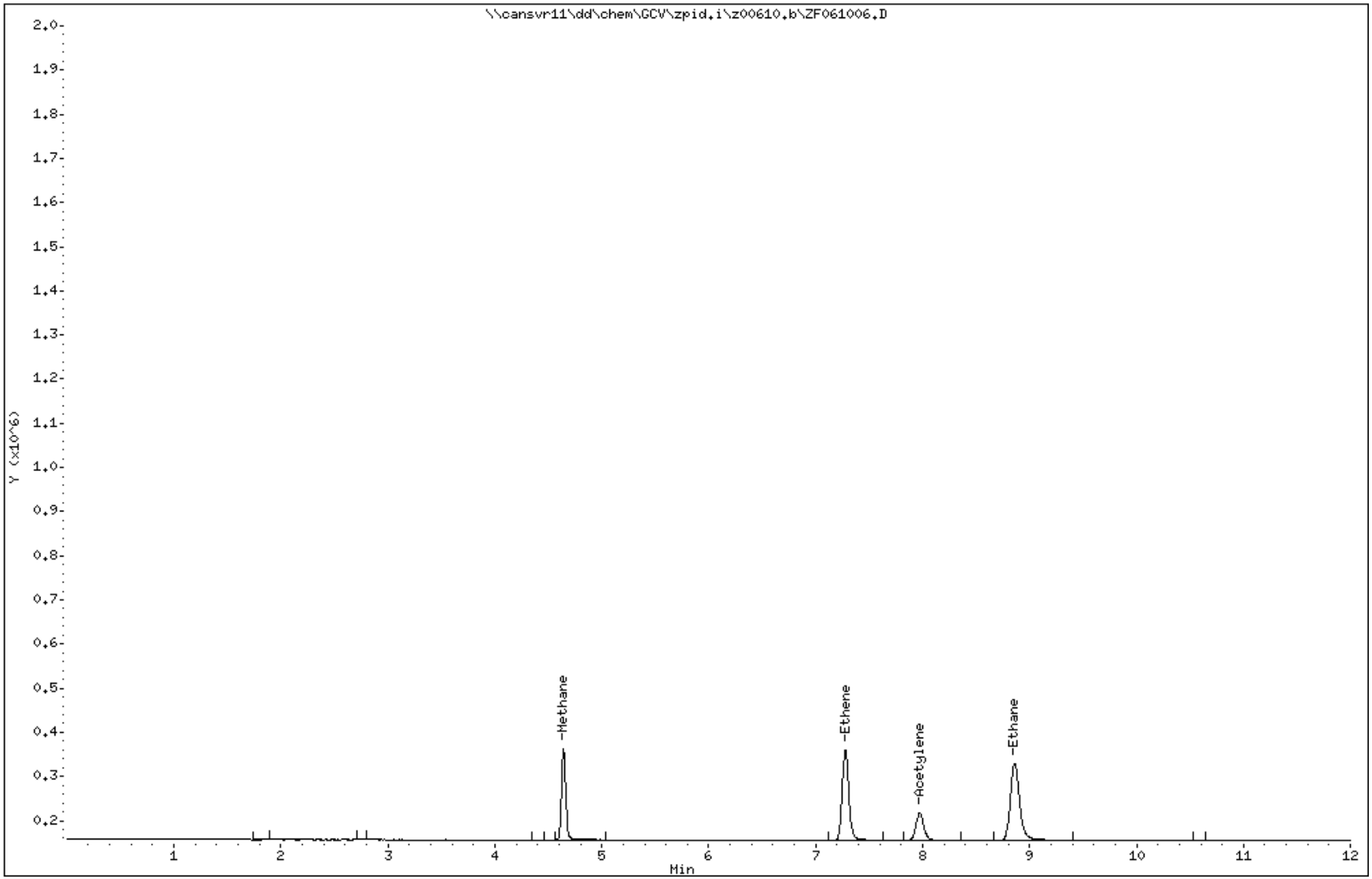
Sample Info: 3771,,1,5

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:25
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061006.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	584368	35.959	35.959 ug/L
2) Ethene	7.279	898363	62.646	62.646 ug/L
4) Acetylene	7.972	321989	56.604	56.604 ug/L
3) Ethane	8.859	1063672	68.600	68.600 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 01:50
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,6
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 01:50 Cal File: ZF061007.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.642	4.638	0.004	619629	109.310	108.3
2 Ethene	7.275	7.272	0.003	2680994	191.290	187.8
3 Ethane	8.858	8.856	0.002	3193571	204.950	205.8
4 Acetylene	7.972	7.969	0.003	1010122	177.620	177.6

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D

Date : 11-JUN-2010 01:50

Client ID:

Instrument: zpid.i

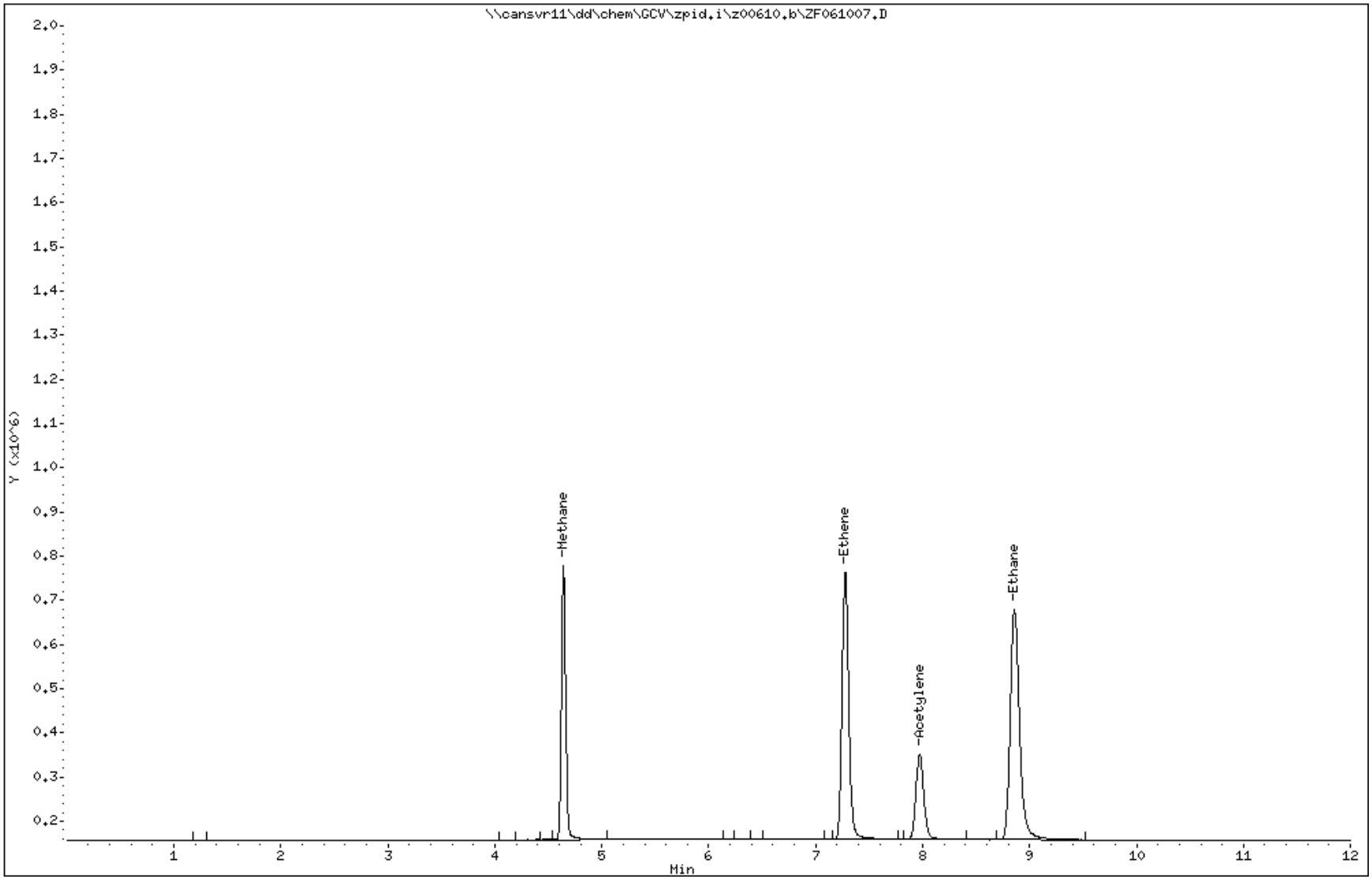
Sample Info: 3771,,1,6

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 01:50
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061007.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	1746876	108.301	108.301 ug/L
2) Ethene	7.275	2680994	187.806	187.806 ug/L
4) Acetylene	7.972	1010122	177.584	177.584 ug/L
3) Ethane	8.859	3193571	205.761	205.761 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 02:16
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,7
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 02:16 Cal File: ZF061008.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.642	4.639	0.003	1976470	327.920	342.4
2 Ethene	7.272	7.272	0.000	8367339	573.860	584.0
3 Ethane	8.848	8.855	-0.007	10129178	614.850	646.0
4 Acetylene	7.972	7.969	0.003	3146082	532.870	549.6

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D

Page 1

Date : 11-JUN-2010 02:16

Client ID:

Instrument: zpid.i

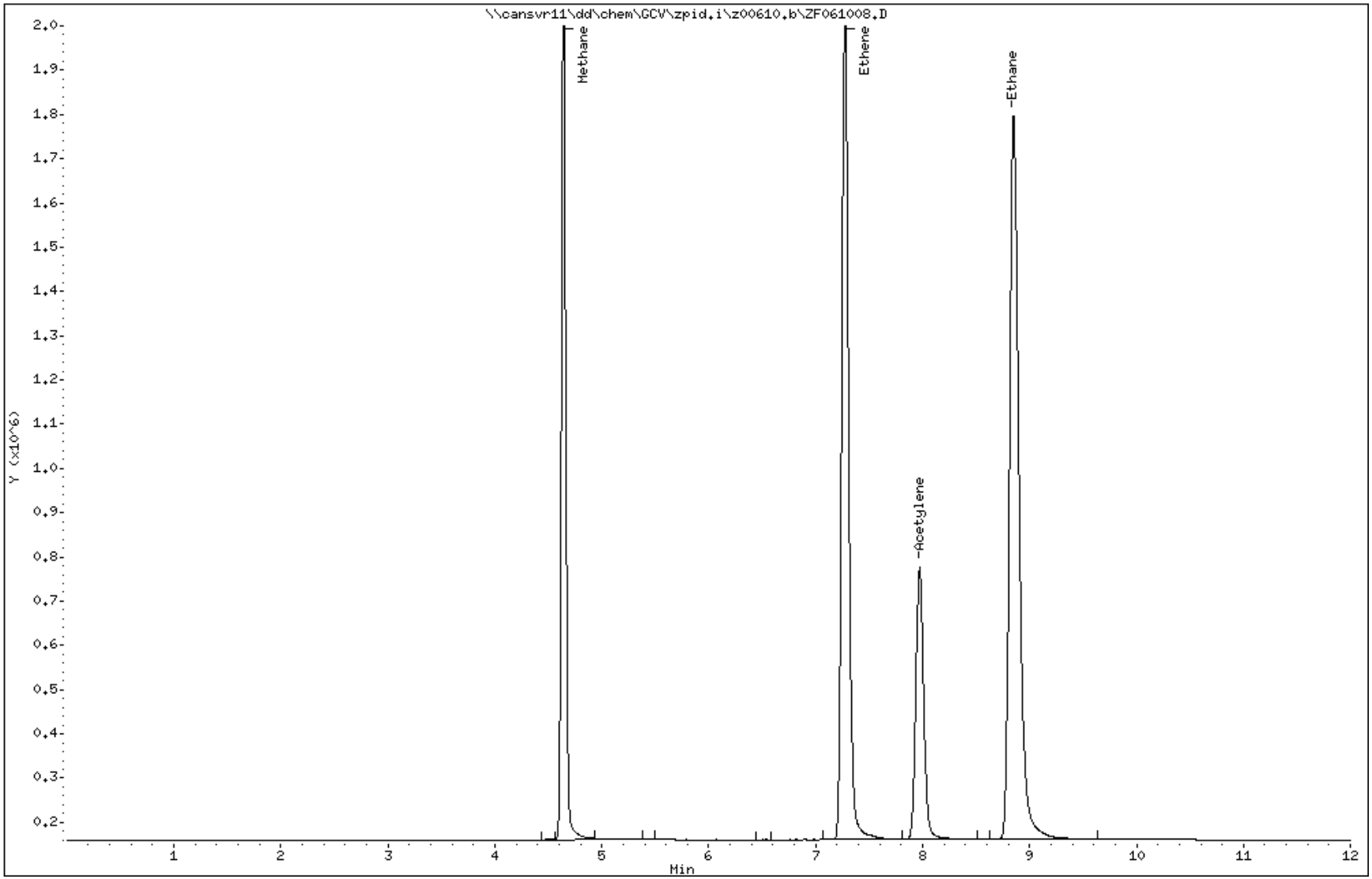
Sample Info: 3771,,1,7

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 02:16
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061008.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	5539138	342.403	342.403 ug/L
2) Ethene	7.272	8367339	584.056	584.056 ug/L
4) Acetylene	7.972	3146082	549.619	549.619 ug/L
3) Ethane	8.849	10129178	646.006	646.006 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 02:41
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,8
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 02:41 Cal File: ZF061009.D
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.640	4.639	0.001	4435737	728.710	762.5
2 Ethene	7.263	7.271	-0.008	18247462	1275.24	1274
3 Ethane	8.833	8.852	-0.019	22105977	1366.33	1403
4 Acetylene	7.967	7.969	-0.002	6954389	1184.16	1210

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D

Page 1

Date : 11-JUN-2010 02:41

Client ID:

Instrument: zpid.i

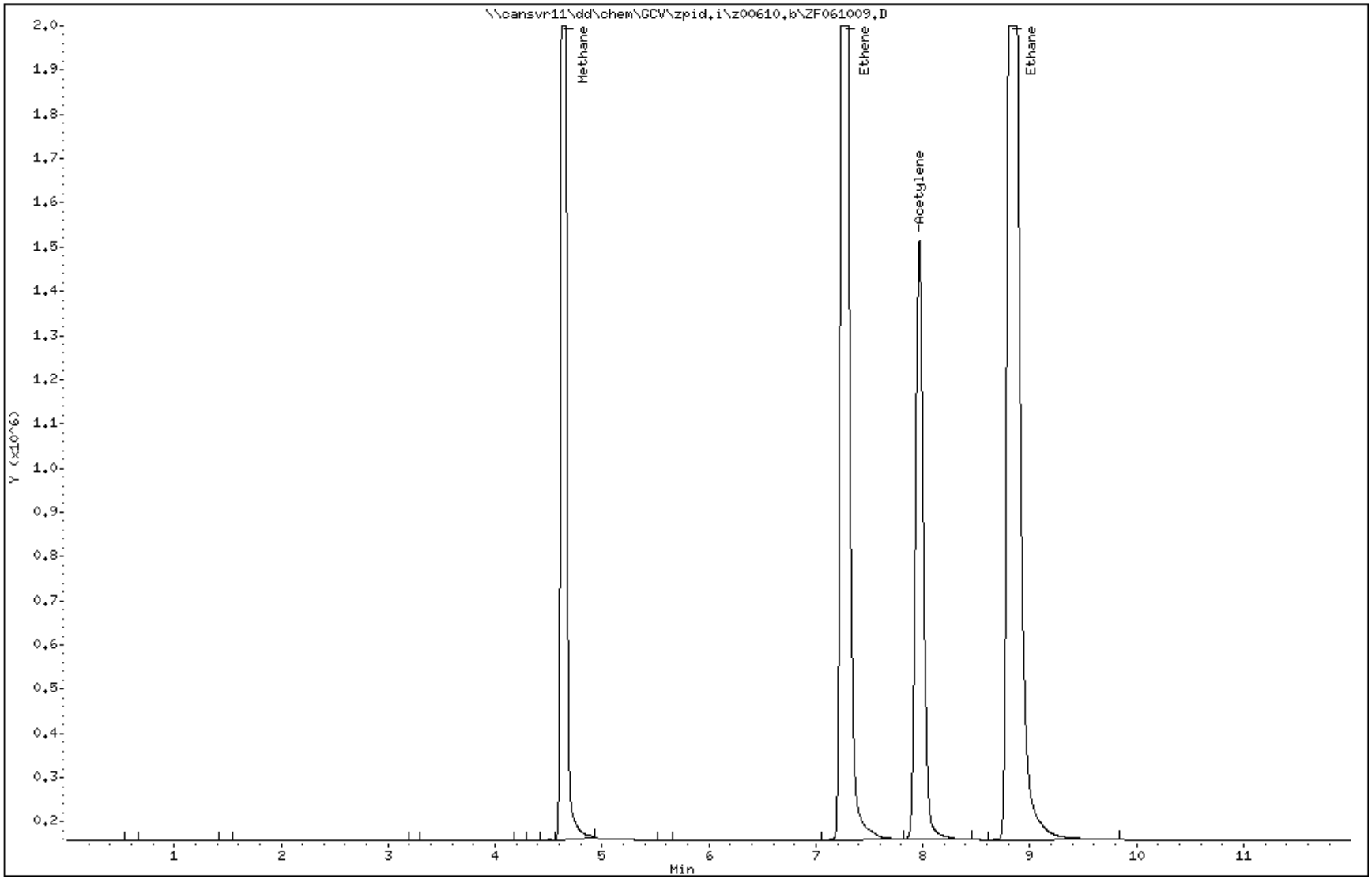
Sample Info: 3771,,1,8

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 02:41
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061009.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.640	12412329	762.506	762.506 ug/L
2) Ethene	7.264	18247462	1273.926	1273.926 ug/L
4) Acetylene	7.967	6954389	1210.436	1210.436 ug/L
3) Ethane	8.834	22105977	1403.462	1403.462 ug/L

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D
Lab Smp Id: 3771
Inj Date : 11-JUN-2010 03:06
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,,1,9
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:50 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/L)
1 Methane	4.637	4.639	-0.002	9173393	1457.42	1561(A)
2 Ethene	7.250	7.268	-0.018	37270596	2550.49	2595(A)
3 Ethane	8.807	8.847	-0.040	46046474	2732.67	2898(A)
4 Acetylene	7.960	7.968	-0.008	13428539	2368.31	2341

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Page 1

Date : 11-JUN-2010 03:06

Client ID:

Instrument: zpid.i

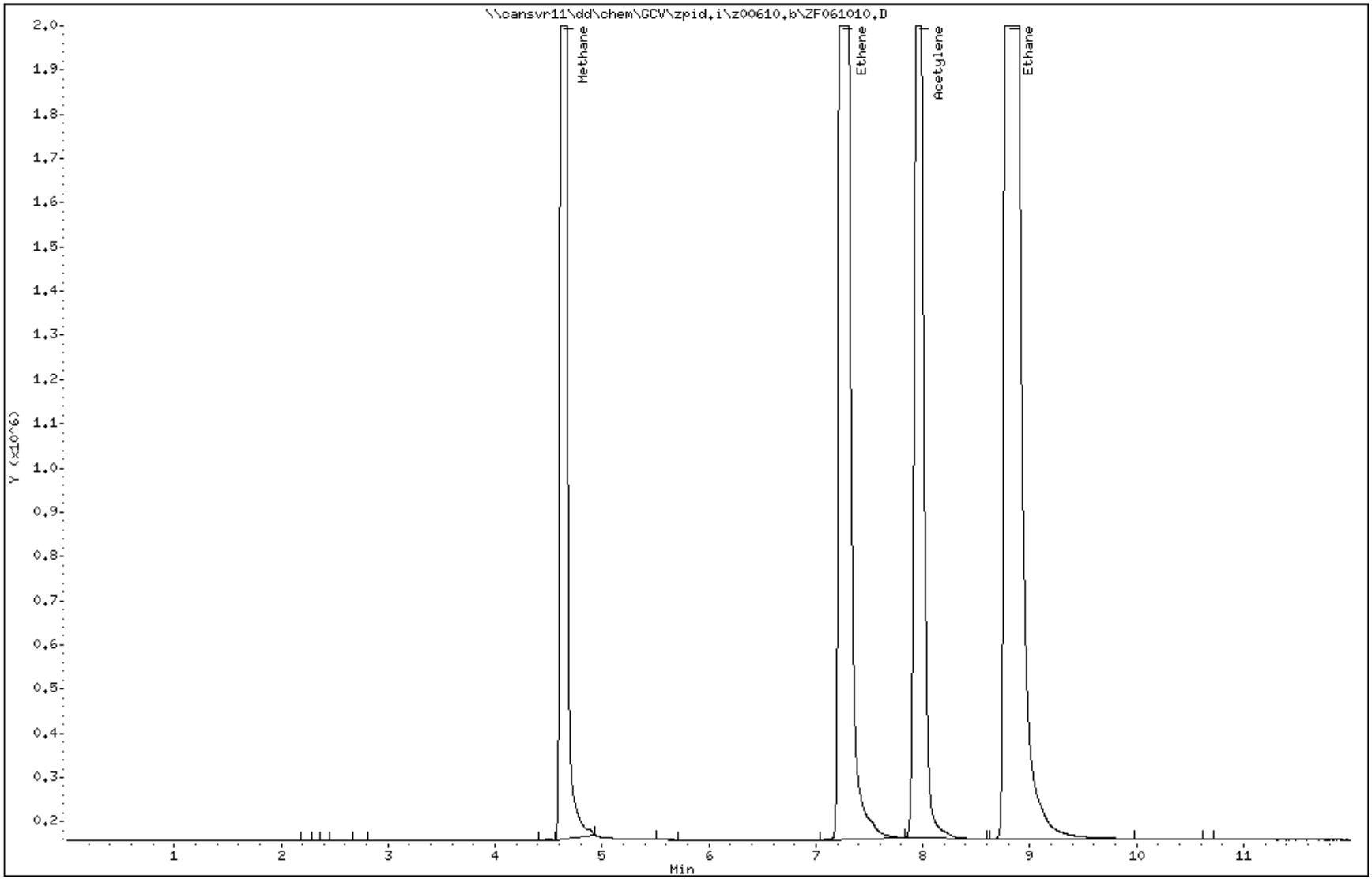
Sample Info: 3771,,1,9

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 03:06
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061010.D
Lab Sample ID: 3771
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.637	25651389	1560.915	1560.915 ug/L
2) Ethene	7.251	37270596	2595.452	2595.452 ug/L
4) Acetylene	7.961	13428539	2341.118	2341.118 ug/L
3) Ethane	8.807	46046474	2898.111	2898.111 ug/L

TestAmerica North Canton

RECOVERY REPORT

Client Name: Client SDG: SDGa00363
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: ICV
Level: LOW Operator: 042476
Data Type: GC DATA SampleType: ICV
SpikeList File: icv.spk Quant Type: ESTD
Sublist File: rsk.sub
Method File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Misc Info: z00610

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Methane	109.3	101.6	93.00	77-142
3 Ethane	205.0	188.5	91.99	70-130
2 Ethene	191.3	174.2	91.06	70-130
4 Acetylene	177.6	150.2	84.59	70-130

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061011.D
Lab Smp Id: ICV
Inj Date : 11-JUN-2010 03:32
Operator : 042476 Inst ID: zpid.i
Smp Info : ICV
Misc Info : z00610
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Meth Date : 11-Jun-2010 06:52 heakind Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: ICV
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCSV18

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	4.642	4.639	0.003	591972	101.655	101.6
2 Ethene	7.272	7.269	0.003	2482778	174.184	174.2
3 Ethane	8.852	8.847	0.005	2960408	188.532	188.5
4 Acetylene	7.968	7.969	-0.001	867618	150.249	150.2

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061011.D

Date : 11-JUN-2010 03:32

Client ID:

Instrument: zpid.i

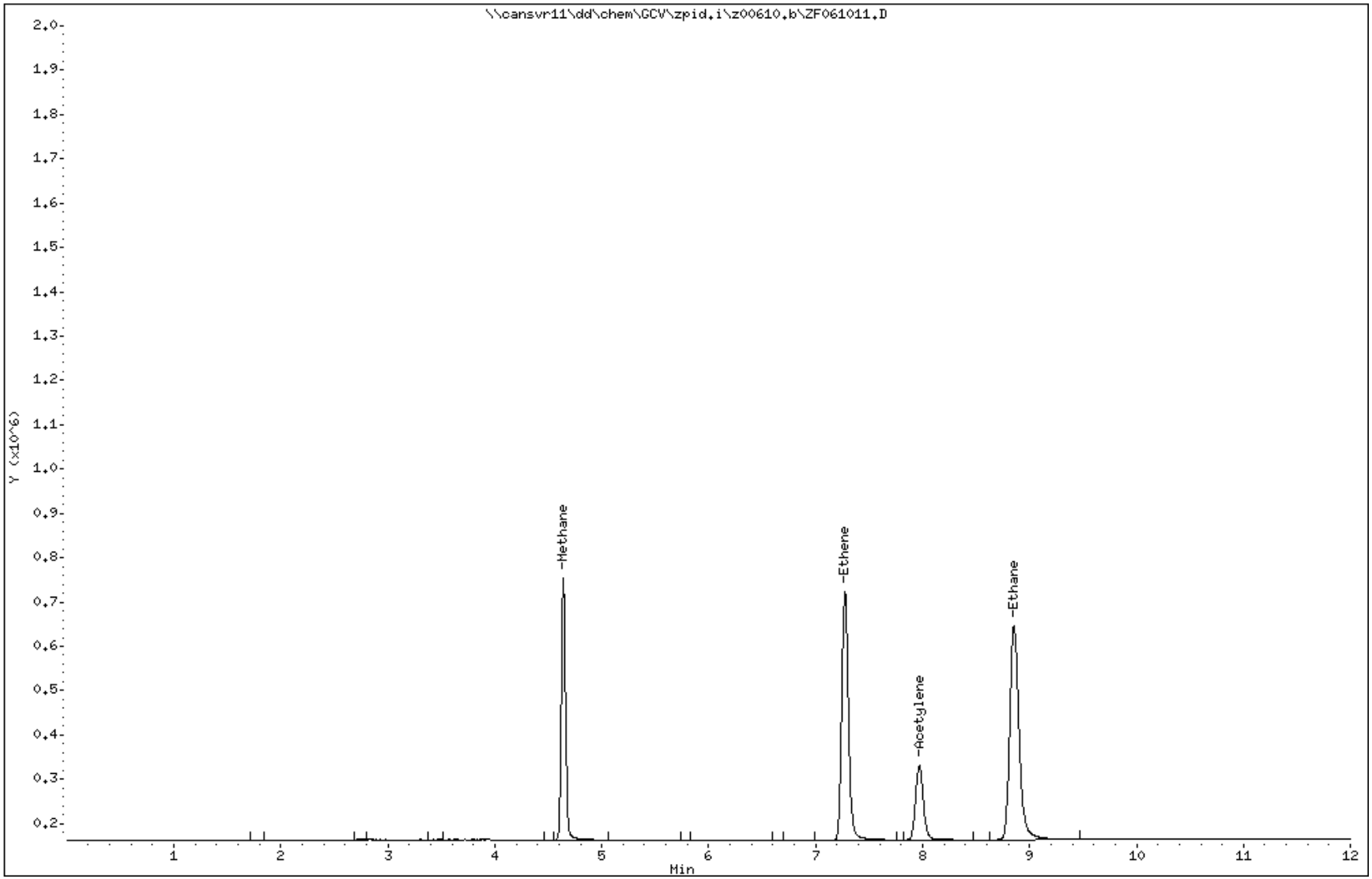
Sample Info: ICV

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 11-JUN-2010 03:32
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00610.b/ZF061011.D
Lab Sample ID: ICV
Misc. Info: z00610
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00610.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.642	1672890	101.655	101.655 ug/L
2) Ethene	7.272	2482778	174.184	174.184 ug/L
4) Acetylene	7.969	867618	150.249	150.249 ug/L
3) Ethane	8.852	2960408	188.532	188.532 ug/L

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: NORTH CANTON Contract:

Lab Code: TACAN Case No.: SAS No.: SDG No.: A0G230443

GC Column: RT-ALUMINA ID: 0.53 (mm) Init. Calib. Date(s): 06/10/10 06/11/10

Instrument ID: ZPID

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		3771	07/29/10	1229		
02	L4WE3CHK	L4WE31AC	07/29/10	1255		
03	L4WE3BLK	L4WE31AA	07/29/10	1320		
04	OW25	L4K1A1AH	07/29/10	1934		
05	OW19	L4K1R1AH	07/29/10	1959		
06	OW24	L4K291AH	07/29/10	2050		
07	OW18	L4K2T1AH	07/30/10	0949		
08						
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32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report Date: 30-Jul-2010 08:07

Calibration History

Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Start Cal Date: 10-JUN-2010 23:44
End Cal Date : 11-JUN-2010 03:06
Last Cal Level: 9
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.24000		
10-JUN-2010 23:44	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061002.D
Cal Level: 2 , Cal Amount: 0.91000		
11-JUN-2010 00:09	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061003.D
Cal Level: 3 , Cal Amount: 3.64000		
11-JUN-2010 00:34	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061004.D
Cal Level: 4 , Cal Amount: 10.93000		
11-JUN-2010 01:00	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061005.D
Cal Level: 5 , Cal Amount: 36.44000		
11-JUN-2010 01:25	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061006.D
Cal Level: 6 , Cal Amount: 109.31000		
11-JUN-2010 01:50	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061007.D
Cal Level: 7 , Cal Amount: 372.92000		
11-JUN-2010 02:16	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061008.D
Cal Level: 8 , Cal Amount: 728.71000		

11-JUN-2010 02:41	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061009.D

Cal Level: 9 , Cal Amount: 1457.42000		
11-JUN-2010 03:06	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00610.b\ZF061010.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

29-JUL-2010 12:29	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072827.D
28-JUL-2010 12:56	rsk	\\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072802.D

Report Date: 29-Jul-2010 13:07

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: zpid.i Injection Date: 29-JUL-2010 12:29
Lab File ID: ZF072827.D Init. Cal. Date(s): 10-JUN-2010 11-JUN-2010
Analysis Type: WATER Init. Cal. Times: 23:44 03:06
Lab Sample ID: 3771 Quant Type: ESTD
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m

COMPOUND	RRF / AMOUNT	RF109	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	5823	6058	0.010	-4.02620	30.00000	Averaged
2 Ethene	14254	15491	0.010	-8.67857	30.00000	Averaged
3 Ethane	15702	16575	0.010	-5.55624	30.00000	Averaged
4 Acetylene	5775	6123	0.010	-6.04013	30.00000	Averaged

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072827.D
Lab Smp Id: 3771
Inj Date : 29-JUL-2010 12:29
Operator : 042476 Inst ID: zpid.i
Smp Info : 3771,2
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 29-Jul-2010 13:07 zpid.i Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14
Processing Host: CANPGCV06

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	4.606	4.635	-0.029	662177	109.310	113.7
2 Ethene	7.213	7.203	0.010	2963238	191.290	207.9
3 Ethane	8.783	8.767	0.016	3397018	204.950	216.3
4 Acetylene	7.906	7.885	0.021	1087623	177.620	188.3

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072827.D

Date : 29-JUL-2010 12:29

Client ID:

Instrument: zpid.i

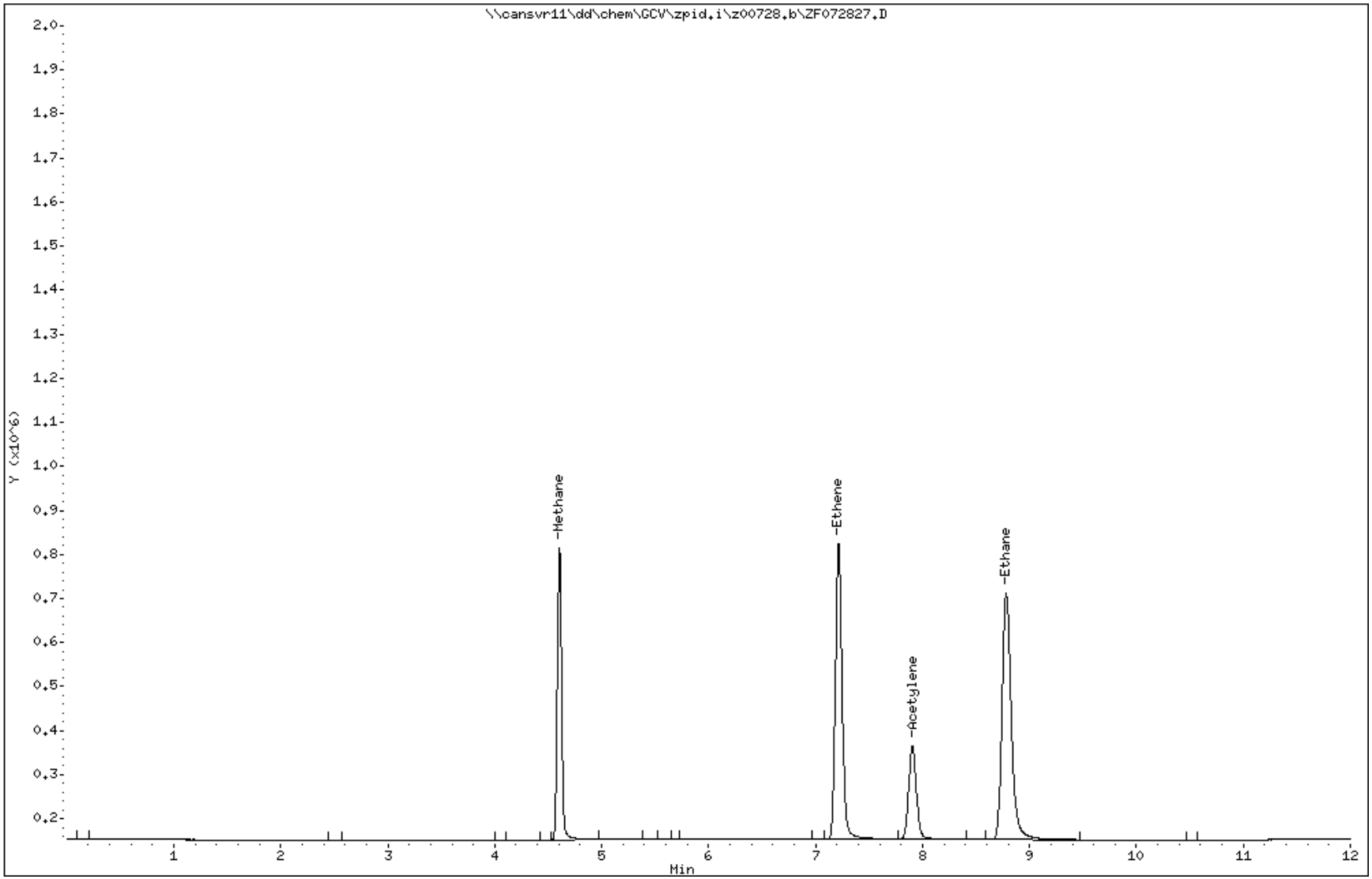
Sample Info: 3771,2

Volume Injected (uL): 1.0

Operator: 042476

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 042476 Date Acquired: 29-JUL-2010 12:29
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072827.D
Lab Sample ID: 3771
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 2

Compound	RT	Area	Amount	Conc
1) Methane	4.606	1857953	113.711	227.422 ug/L
2) Ethene	7.213	2963238	207.891	415.782 ug/L
4) Acetylene	7.906	1087623	188.348	376.697 ug/L
3) Ethane	8.783	3397018	216.338	432.675 ug/L

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WE31AC **Matrix.....:** WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methane	**101**	**(75 - 127)**	**RSK SOP-175**
Ethane	**104**	**(74 - 138)**	**RSK SOP-175**
Ethene	**106**	**(73 - 140)**	**RSK SOP-175**
Acetylene	**93**	**(70 - 130)**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WE31AC **Matrix.....:** WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 **Analysis Date..:** 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methane	**110**	**110**	**ug/L**	**101**	**RSK SOP-175**
Ethane	**200**	**210**	**ug/L**	**104**	**RSK SOP-175**
Ethene	**190**	**200**	**ug/L**	**106**	**RSK SOP-175**
Acetylene	**180**	**160**	**ug/L**	**93**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072828.D
Lab Smp Id: l4we31ac
Inj Date : 29-JUL-2010 12:55
Operator : 01616 Inst ID: zpid.i
Smp Info : l4we31ac
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	4.611	4.635	-0.024	644900	110.744	110.7
2 Ethene	7.224	7.203	0.021	2898927	203.379	203.4
3 Ethane	8.791	8.767	0.024	3352218	213.484	213.5
4 Acetylene	7.914	7.885	0.029	951509	164.777	164.8

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072828.D

Date : 29-JUL-2010 12:55

Client ID:

Instrument: zpid.i

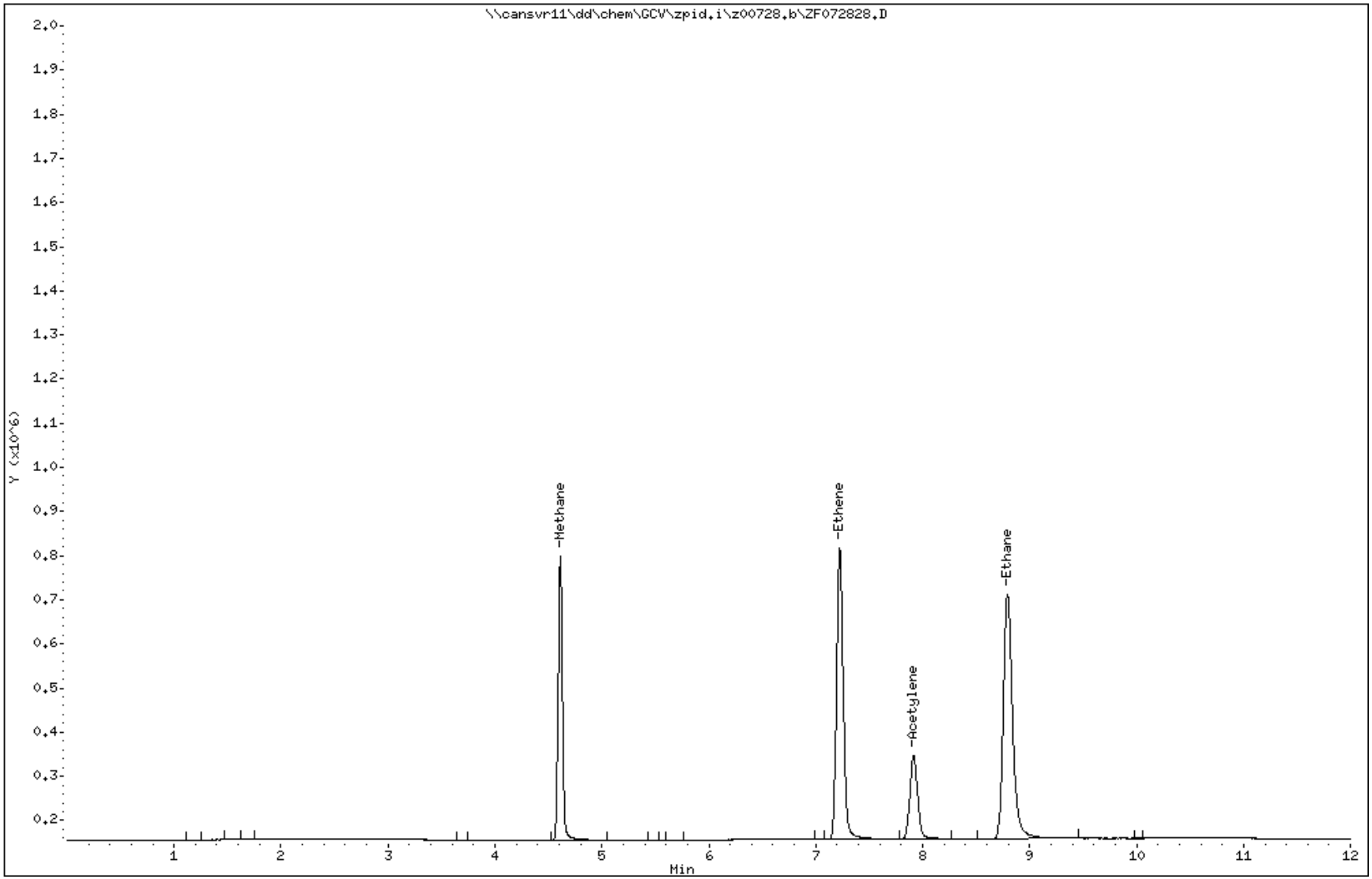
Sample Info: l4we31ac

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 29-JUL-2010 12:55
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072828.D
Lab Sample ID: l4we31ac
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	4.611	1806222	110.744	110.744 ug/L
2) Ethene	7.225	2898927	203.379	203.379 ug/L
4) Acetylene	7.915	951509	164.777	164.777 ug/L
3) Ethane	8.791	3352218	213.484	213.484 ug/L

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WE31AA **Matrix.....:** WATER
MB Lot-Sample #: A0G300000-043

Prep Date.....: 07/29/10 **Final Wgt/Vol..:** 1 mL
Analysis Date..: 07/29/10 **Prep Batch #...:** 0211043
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	0.50	ug/L	RSK SOP-175
Ethane	ND	0.50	ug/L	RSK SOP-175
Ethene	ND	0.50	ug/L	RSK SOP-175

NOTE(S):

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

TestAmerica North Canton

Gas Anaysis

Data file : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072829.D
Lab Smp Id: l4we31aa
Inj Date : 29-JUL-2010 13:20
Operator : 01616 Inst ID: zpid.i
Smp Info : l4we31aa
Misc Info : z00728
Comment :
Method : \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Meth Date : 30-Jul-2010 08:07 fausnigb Quant Type: ESTD
Cal Date : 11-JUN-2010 03:06 Cal File: ZF061010.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: rsk.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	Compound Not Detected.					
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\ZF072829.D

Date : 29-JUL-2010 13:20

Client ID:

Instrument: zpid.i

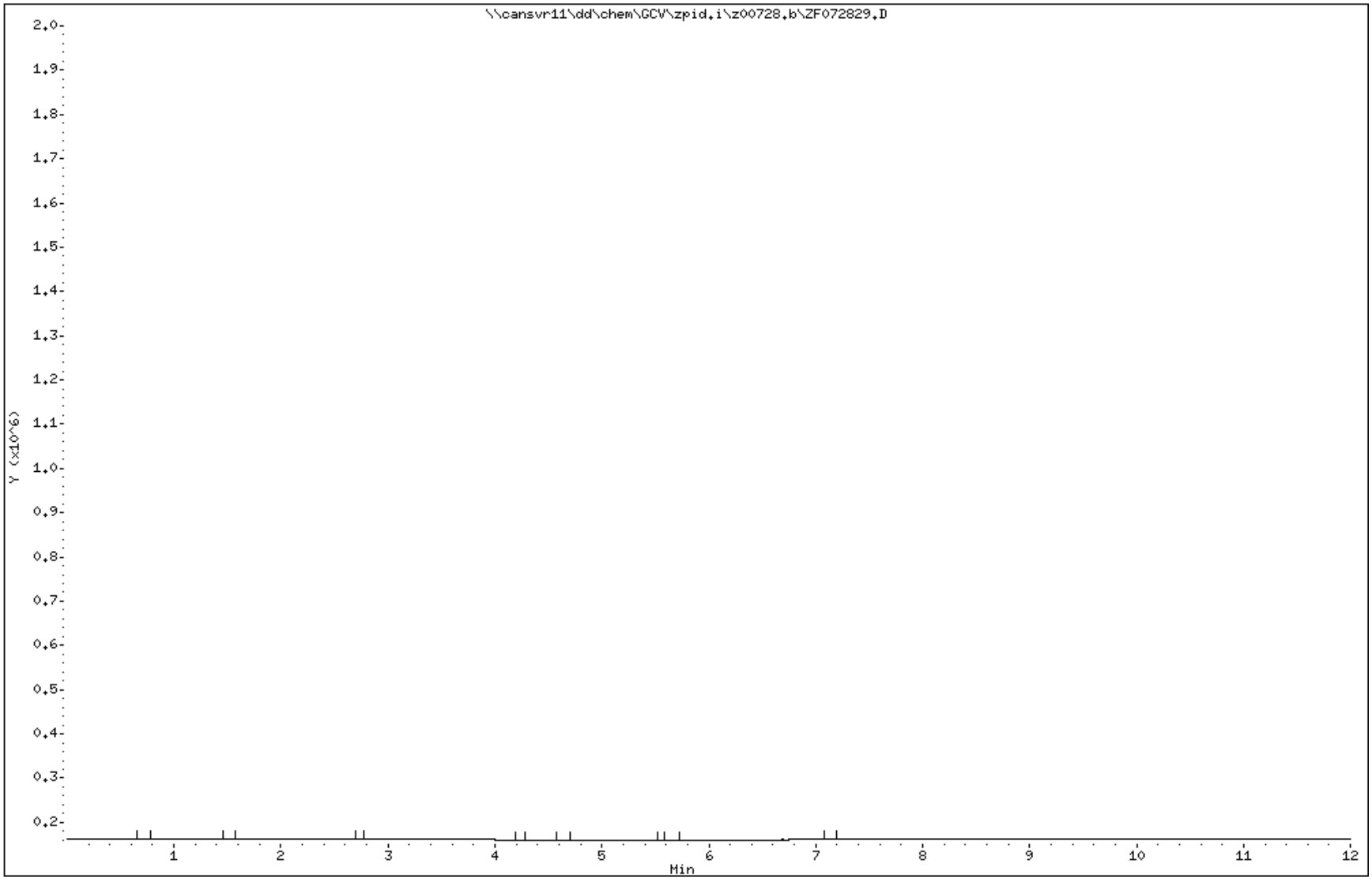
Sample Info: l4we31aa

Volume Injected (uL): 1.0

Operator: 01616

Column phase: Rt-Alumina

Column diameter: 0.53



COMPOUNDS and EXP. RT REPORT

Operator: 01616 Date Acquired: 29-JUL-2010 13:20
Data File: //cansvr11/dd/chem/GCV/zpid.i/z00728.b/ZF072829.D
Lab Sample ID: l4we31aa
Misc. Info: z00728
Instrument: zpid.i
Method: \\cansvr11\dd\chem\GCV\zpid.i\z00728.b\RSK175.m
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Methane	NOT DETECTED	Expected RT =	4.635	
2) Ethene	NOT DETECTED	Expected RT =	7.204	
4) Acetylene	NOT DETECTED	Expected RT =	7.885	
3) Ethane	NOT DETECTED	Expected RT =	8.768	

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MISCELLANEOUS DATA

Sequence: C:\HPCHEM\4\SEQUENCE\Z00610IC.S

Sequence Parameters:

Operator:

Data File Naming:	Prefix/Counter
Signal 1 Prefix:	ZF
Counter:	061001
Signal 2 Prefix:	ZR
Counter:	061001
Data Directory:	C:\HPCHEM\4\DATA\
Data Subdirectory:	Z00610IC
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:

CAL STD#: 3770 / 3771 LCS/MS STD#: 3772 ICV#_____

Level 1 Analyst: [signature] Date: 6/22/10

Level 2 Analyst: [signature] Date: 6/22/10

PDF completed by: [signature] Date:_____

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	PRIMER	RSK175	1	Sample		
2	1	3770,,1,1	RSK175	1	Sample		
3	1	3770,,1,2	RSK175	1	Sample		
4	1	3770,,1,3	RSK175	1	Sample		
5	1	3770,,1,4	RSK175	1	Sample		
6	1	3771,,1,5	RSK175	1	Sample		
7	1	3771,,1,6	RSK175	1	Sample		
8	1	3771,,1,7	RSK175	1	Sample		
9	1	3771,,1,8	RSK175	1	Sample		
10	1	3771,,1,9	RSK175	1	Sample		
11	1	ICV	RSK175	1	Sample		
12	1	LCS	RSK175	1	Sample		
13	1	LCSD	RSK175	1	Sample		
14	1	BLANK	RSK175	1	Sample		
15	1		RSK175	1	Sample		
16	1		RSK175	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00610IC.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
17	1		RSK175	1	Sample		
18	1		RSK175	1	Sample		

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	2	PRIMER	CO2RSK	1	Sample		
2	2	3770,,1,1	CO2RSK	1	Sample		
3	2	3770,,1,2	CO2RSK	1	Sample		
4	2	3770,,1,3	CO2RSK	1	Sample		
5	2	3770,,1,4	CO2RSK	1	Sample		
6	2	3771,,1,5	CO2RSK	1	Sample		
7	2	3771,,1,6	CO2RSK	1	Sample		
8	2	3771,,1,7	CO2RSK	1	Sample		
9	2	3771,,1,8	CO2RSK	1	Sample		
10	2	3771,,1,9	CO2RSK	1	Sample		
11	2	ICV	CO2RSK	1	Sample		
12	2	LCS	CO2RSK	1	Sample		
13	2	LCSD	CO2RSK	1	Sample		
14	2	BLANK	CO2RSK	1	Sample		
15	2		CO2RSK	1	Sample		
16	2		CO2RSK	1	Sample		
17	2		CO2RSK	1	Sample		
18	2		CO2RSK	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00728.S

Sequence Parameters:

Operator:	042476
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	ZF
Counter:	072801
Signal 2 Prefix:	ZR
Counter:	072801
Data Directory:	C:\HPCHEM\4\DATA\
Data Subdirectory:	Z00728
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

due 8-3-10

Sequence Comment:

CAL STD#: 3770 / 3771 LCS/MS STD#: 3772 ICV#_____

Level 1 Analyst: Barbara Tarwright Date: 7-29-10 7/30/10

Level 2 Analyst: Chong Li Date: 7/30/10

PDF completed by: BAF Date: 7-30-10

0210163 L4TXL

0211043 L4WE3

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	BAF 7/28/10 primer	RSK175	1	Sample		
2	1	3771,2 ✓	RSK175	1	Sample		
3	1	LCS ✓	RSK175	1	Sample		
4	1	LCSD ✓	RSK175	1	Sample		
5	1	BLANK ✓	RSK175	1	Sample		
6	1	L4DDL1AE ✓	RSK175	1	Sample		
7	1	L4DDN1AE ✓	RSK175	1	Sample		
8	1	L4ELT1AV ✓	RSK175	1	Sample		
9	1	L4EL11AV ✓	RSK175	1	Sample		
10	1	L4EL21AV ✓	RSK175	1	Sample		
11	1	L4EL31AV ✓	RSK175	1	Sample		
12	1	L4EL41AV ✓	RSK175	1	Sample		
13	1	L4GJG1AH,5 ✓	RSK175	1	Sample		
14	1	L4GJV1AH,5 ✓	RSK175	1	Sample		
15	1	L4GJT1AH ✓	RSK175	1	Sample		
16	1	L4GJ01AH ✓	RSK175	1	Sample		

Sequence: C:\HPCHEM\4\SEQUENCE\Z00728.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
17	1	L4GJ11AH ✓	RSK175	1	Sample		
18	1	L4GHT1CW	RSK175	1	Sample		
19	1	L4GHX1CW	RSK175	1	Sample		
20	1	L4GH41C6 ✓	RSK175	1	Sample		
21	1	L4GEK1AF,5 ✓	RSK175	1	Sample		
22	1	L4GEP1AF	RSK175	1	Sample		
23	1	L4JE11AF,5	RSK175	1	Sample		
24	1	L4JE41AF ✓	RSK175	1	Sample		
25	1	L4JQH1CW ✓	RSK175	1	Sample		
26	1	RINSE	RSK175	1	Sample		
27	1	3771,2 ✓	RSK175	1	Sample		
28	1	LCS ✓ ✓	RSK175	1	Sample		
29	1	BLANK	RSK175	1	Sample		
30	1	~~L4GHT1CW,2~~	RSK175	1	Sample		
31	1	L4GHX1CW,2 ✓	RSK175	1	Sample		
32	1	L4JE11AF,2 ✓	RSK175	1	Sample		
33	1	L4GEP1AF,5 ✓	RSK175	1	Sample		
34	1	L4JDK1AH ✓	RSK175	1	Sample		
35	1	L4JD01AH ✓	RSK175	1	Sample		
36	1	L4JD31AW ✓	RSK175	1	Sample		
37	1	L4JD31AX ✓	RSK175	1	Sample		
38	1	L4JD31A0 ✓	RSK175	1	Sample		
39	1	L4JEC1AH ✓	RSK175	1	Sample		
40	1	L4JED1AH ✓	RSK175	1	Sample		
41	1	L4JEG1AH ✓	RSK175	1	Sample		
42	1	L4K1A1AH ✓	RSK175	1	Sample		
43	1	L4K1R1AH,2 ✓	RSK175	1	Sample		
44	1	L4K2T1AH	RSK175	1	Sample		
45	1	L4K291AH ✓	RSK175	1	Sample		
46	1	L4QQD1AC ✓	RSK175	1	Sample		
47	1	L4QQ31AN ✓	RSK175	1	Sample		
48	1	L4QQ41AN ✓	RSK175	1	Sample		
49	1	L4QQ51AN ✓ ✓	RSK175	1	Sample		
50	1	L4QQ71AN	RSK175	1	Sample		
51	1	~~RINSE~~ L4GHT1CW,2	RSK175	1	Sample		
52	1	Rinse ✓	RSK175	1	Sample		
53	1	L4K2T1AH,2 ✓	RSK175	1	Sample		
54	1	RINSE	RSK175	1	Sample		
55	1		RSK175	1	Sample		
56	1		RSK175	1	Sample		
57	1		RSK175	1	Sample		

— midnight

power off – restart

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	none		CO2RSK	1	Sample		
2	2		CO2RSK	1	Sample		
3	2		CO2RSK	1	Sample		
4	2		CO2RSK	1	Sample		
5	2		CO2RSK	1	Sample		
6	2		CO2RSK	1	Sample		

Lot: A0G230443

A0G230443

Sample	Work Order	SAC	Client Sample ID	pH	Free Chlorine
2	L4K1A-1AH	XX I 2X MM 01	OW25	<2	NA
4	L4K1R-1AH	XX I 2X MM 01	OW19	<2	NA
8	L4K2T-1AH	XX I 2X MM 01	OW18	<2	NA
11	L4K29-1AH	XX I 2X MM 01	OW24	<2	NA

Lot/SDG Number: A0G230443

Sample Control Chain of Custody - TAL North Canton
GC Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0G230443	2	L4K1A1AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight
A0G230443	4	L4K1R1AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight
A0G230443	8	L4K2T1AH	Dissolved Gases in Water - preserved	07/30/10	Barbara Fausnight
A0G230443	11	L4K291AH	Dissolved Gases in Water - preserved	07/29/10	Barbara Fausnight

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GENERAL CHEMISTRY DATA

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SAMPLE DATA

Cardinal Resources

Client Sample ID: OW25

General Chemistry

Lot-Sample #...: A0G230443-002 **Work Order #...:** L4K1A **Matrix.....:** WG
Date Sampled...: 07/22/10 09:10 **Date Received..:** 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**1.5**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207271**
		Dilution Factor: 1				
Nitrate as N	**1.8**	**0.10**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207275**
		Dilution Factor: 1				
Sulfate	**9.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207279**
		Dilution Factor: 1				
Total Alkalinity	**46**	**5.0**	**mg/L**	**MCAWW 310.1**	**08/03/10**	**0217057**
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW19

General Chemistry

Lot-Sample #...: A0G230443-004 **Work Order #...:** L4K1R **Matrix.....:** WG
Date Sampled...: 07/22/10 11:15 **Date Received..:** 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**5.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207271**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1				
Sulfate	**15.9**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207279**
		Dilution Factor: 1				
Total Alkalinity	**180**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/27/10**	**0208126**
		Dilution Factor: 1				
Total Organic Carbon	**6**	**1**	**mg/L**	**MCAWW 415.1**	**07/26/10**	**0207249**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: SED 1

General Chemistry

Lot-Sample #...: A0G230443-005 **Work Order #...:** L4K1V **Matrix.....:** SO
Date Sampled...: 07/22/10 11:20 **Date Received..:** 07/23/10
% Moisture.....: 32

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**67.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**08/02-08/03/10**	**0214278**

Dilution Factor: 1

Cardinal Resources

Client Sample ID: SED DUP

General Chemistry

Lot-Sample #...: A0G230443-007 **Work Order #...:** L4K2R **Matrix.....:** SO
Date Sampled...: 07/22/10 **Date Received..:** 07/23/10
% Moisture.....: 66

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**34.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**08/02-08/03/10**	**0214278**

Dilution Factor: 1

Cardinal Resources

Client Sample ID: OW18

General Chemistry

Lot-Sample #...: A0G230443-008 **Work Order #...:** L4K2T **Matrix.....:** WG
Date Sampled...: 07/22/10 13:00 **Date Received..:** 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**7.9**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207272**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1				
Sulfate	**3.5**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207279**
		Dilution Factor: 1				
Total Alkalinity	**320**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/28/10**	**0210221**
		Dilution Factor: 1				
Total Organic Carbon	**10**	**1**	**mg/L**	**MCAWW 415.1**	**07/26/10**	**0207249**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: SED 2

General Chemistry

Lot-Sample #...: A0G230443-010 **Work Order #...:** L4K24 **Matrix.....:** SO
Date Sampled...: 07/22/10 14:30 **Date Received..:** 07/23/10
% Moisture.....: 55

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**45.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**08/02-08/03/10**	**0214278**

Dilution Factor: 1

Cardinal Resources

Client Sample ID: OW24

General Chemistry

Lot-Sample #...: A0G230443-011 **Work Order #...:** L4K29 **Matrix.....:** WG
Date Sampled...: 07/22/10 14:20 **Date Received..:** 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**1.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207272**
		Dilution Factor: 1				
Nitrate as N	**0.21**	**0.10**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207275**
		Dilution Factor: 1				
Sulfate	**12.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/23/10**	**0207279**
		Dilution Factor: 1				
Total Alkalinity	**110**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/28/10**	**0210221**
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: L4NR61AA		MB Lot-Sample #:	A0G260000-271	
	ND	1.0	mg/L	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1				
Chloride		Work Order #: L4NTC1AA		MB Lot-Sample #:	A0G260000-272	
	ND	1.0	mg/L	MCAWW 300.0A	07/23/10	0207272
		Dilution Factor: 1				
Nitrate as N		Work Order #: L4NTL1AA		MB Lot-Sample #:	A0G260000-275	
	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1				
Sulfate		Work Order #: L4NTR1AA		MB Lot-Sample #:	A0G260000-279	
	ND	1.0	mg/L	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4PKP1AA		MB Lot-Sample #:	A0G270000-126	
	ND	5.0	mg/L	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4VD91AA		MB Lot-Sample #:	A0G290000-221	
	ND	5.0	mg/L	MCAWW 310.1	07/28/10	0210221
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L445J1AA		MB Lot-Sample #:	A0H050000-057	
	ND	5.0	mg/L	MCAWW 310.1	08/03/10	0217057
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: L4NMC1AA		MB Lot-Sample #:	A0G260000-249	
	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide		Work Order #: L4R1C1AA		MB Lot-Sample #:	A0G280000-262	
	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: L40441AA		MB Lot-Sample #:	A0H020000-278	
	ND	10.0	%	MCAWW 160.3 MOD	08/02-08/03/10	0214278
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A0G230443 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4NR61AC-LCS/L4NR61AD-LCSD LCS Lot-Sample#: A0G260000-271					
	105	(90 - 110)			MCAWW 300.0A	07/23/10	0207271
	105	(90 - 110)	0.01	(0-20)	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1					
Chloride		WO#:L4NTC1AC-LCS/L4NTC1AD-LCSD LCS Lot-Sample#: A0G260000-272					
	106	(90 - 110)			MCAWW 300.0A	07/23/10	0207272
	106	(90 - 110)	0.03	(0-20)	MCAWW 300.0A	07/23/10	0207272
		Dilution Factor: 1					
Nitrate as N		WO#:L4NTL1AC-LCS/L4NTL1AD-LCSD LCS Lot-Sample#: A0G260000-275					
	97	(90 - 110)			MCAWW 300.0A	07/23/10	0207275
	97	(90 - 110)	0.74	(0-20)	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1					
Sulfate		WO#:L4NTR1AC-LCS/L4NTR1AD-LCSD LCS Lot-Sample#: A0G260000-279					
	100	(90 - 110)			MCAWW 300.0A	07/23/10	0207279
	101	(90 - 110)	0.83	(0-20)	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: A0G230443 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4NR61AC-LCS/L4NR61AD-LCSD		LCS Lot-Sample#: A0G260000-271				
	50.0	52.5	mg/L	105		MCAWW 300.0A	07/23/10	0207271
	50.0	52.5	mg/L	105	0.01	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1						
Chloride		WO#:L4NTC1AC-LCS/L4NTC1AD-LCSD		LCS Lot-Sample#: A0G260000-272				
	50.0	53.0	mg/L	106		MCAWW 300.0A	07/23/10	0207272
	50.0	53.0	mg/L	106	0.03	MCAWW 300.0A	07/23/10	0207272
		Dilution Factor: 1						
Nitrate as N		WO#:L4NTL1AC-LCS/L4NTL1AD-LCSD		LCS Lot-Sample#: A0G260000-275				
	2.5	2.4	mg/L	97		MCAWW 300.0A	07/23/10	0207275
	2.5	2.4	mg/L	97	0.74	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1						
Sulfate		WO#:L4NTR1AC-LCS/L4NTR1AD-LCSD		LCS Lot-Sample#: A0G260000-279				
	50.0	50.1	mg/L	100		MCAWW 300.0A	07/23/10	0207279
	50.0	50.5	mg/L	101	0.83	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1						

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4PKP1AC	LCS Lot-Sample#: A0G270000-126		
	108	(90 - 127)	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1			
Total Alkalinity		Work Order #: L4VD91AC	LCS Lot-Sample#: A0G290000-221		
	99	(90 - 127)	MCAWW 310.1	07/28/10	0210221
		Dilution Factor: 1			
Total Alkalinity		Work Order #: L445J1AC	LCS Lot-Sample#: A0H050000-057		
	98	(90 - 127)	MCAWW 310.1	08/03/10	0217057
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: L4NMC1AC	LCS Lot-Sample#: A0G260000-249		
	93	(88 - 115)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1			
Total Sulfide		Work Order #: L4R1C1AC	LCS Lot-Sample#: A0G280000-262		
	101	(79 - 104)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4PKP1AC		LCS Lot-Sample#: A0G270000-126			
	110	120	mg/L	108	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1					
Total Alkalinity		Work Order #: L4VD91AC		LCS Lot-Sample#: A0G290000-221			
	110	110	mg/L	99	MCAWW 310.1	07/28/10	0210221
		Dilution Factor: 1					
Total Alkalinity		Work Order #: L445J1AC		LCS Lot-Sample#: A0H050000-057			
	110	110	mg/L	98	MCAWW 310.1	08/03/10	0217057
		Dilution Factor: 1					
Total Organic Carbon		Work Order #: L4NMC1AC		LCS Lot-Sample#: A0G260000-249			
	69	65	mg/L	93	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1					
Total Sulfide		Work Order #: L4R1C1AC		LCS Lot-Sample#: A0G280000-262			
	15	15	mg/L	101	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** WATER
Date Sampled...: 07/21/10 11:00 **Date Received..:** 07/27/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #: A0G220446-005	
	84	(10 - 160)			MCAWW 310.1	07/27/10	0208126
	83	(10 - 160)	0.68	(0-24)	MCAWW 310.1	07/27/10	0208126
		Dilution Factor: 1					
Total Alkalinity		WO#: L4QJM1AM-MS/L4QJM1AN-MSD				MS Lot-Sample #: A0G270492-006	
	82	(10 - 160)			MCAWW 310.1	07/28/10	0210221
	87	(10 - 160)	3.2	(0-24)	MCAWW 310.1	07/28/10	0210221
		Dilution Factor: 1					
Total Organic Carbon		WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #: A0G220446-005	
	96	(72 - 136)			MCAWW 415.1	07/26/10	0207249
	102	(72 - 136)	5.5	(0-20)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1					
Total Sulfide		WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #: A0G220446-005	
	96	(75 - 107)			MCAWW 376.1	07/28/10	0209262
	94	(75 - 107)	2.3	(0-20)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** WATER
Date Sampled...: 07/21/10 11:00 **Date Received..:** 07/27/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #: A0G220446-005		
	100	500	520	mg/L	84		MCAWW 310.1	07/27/10	0208126
	100	500	520	mg/L	83	0.68	MCAWW 310.1	07/27/10	0208126
			Dilution Factor: 1						
Total Alkalinity			WO#: L4QJM1AM-MS/L4QJM1AN-MSD				MS Lot-Sample #: A0G270492-006		
	320	500	730	mg/L	82		MCAWW 310.1	07/28/10	0210221
	320	500	750	mg/L	87	3.2	MCAWW 310.1	07/28/10	0210221
			Dilution Factor: 1						
Total Organic Carbon			WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #: A0G220446-005		
	1	25	25	mg/L	96		MCAWW 415.1	07/26/10	0207249
	1	25	26	mg/L	102	5.5	MCAWW 415.1	07/26/10	0207249
			Dilution Factor: 1						
Total Sulfide			WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #: A0G220446-005		
	ND	15	15	mg/L	96		MCAWW 376.1	07/28/10	0209262
	ND	15	14	mg/L	94	2.3	MCAWW 376.1	07/28/10	0209262
			Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** WG
Date Sampled...: 07/22/10 09:10 **Date Received..:** 07/23/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#: L4K1A1AK-MS/L4K1A1AL-MSD				MS Lot-Sample #: A0G230443-002	
	99	(10 - 160)			MCAWW 310.1	08/03/10	0217057
	97	(10 - 160)	1.6	(0-24)	MCAWW 310.1	08/03/10	0217057

Dilution Factor: 1

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G230443 **Matrix.....:** WG
Date Sampled...: 07/22/10 09:10 **Date Received..:** 07/23/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity	WO#: L4K1A1AK-MS/L4K1A1AL-MSD						MS Lot-Sample #: A0G230443-002		
	46	500	540	mg/L	99		MCAWW 310.1	08/03/10	0217057
	46	500	530	mg/L	97	1.6	MCAWW 310.1	08/03/10	0217057
			Dilution Factor: 1						

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 **Work Order #...:** L4K24-SMP **Matrix.....:** SO
L4K24-DUP
Date Sampled...: 07/22/10 14:30 **Date Received..:** 07/23/10
% Moisture.....: 55

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0G230443-010		
	45.2	39.4	%	14	(0-20)	MCAWW 160.3 MOD	08/02-08/03/10	0214278

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 **Work Order #...:** L4LXL-SMP **Matrix.....:** SOLID
L4LXL-DUP
Date Sampled...: 07/22/10 10:00 **Date Received..:** 07/23/10
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0G230545-005		
	82.9	80.6	%	2.8	(0-20)	MCAWW 160.3 MOD	08/02-08/03/10	0214278

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SUPPORTIVE RAW DATA

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): TOC

Batch(es): 0207246.8, 9

Method #/SOP#: 5310C 415.1

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓			✓		
2. Calibration curve consist of the minimum number of calibration standards?	✓			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓			✓		
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?	✓			✓		
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			✓
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓			✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			✓
E. Titrant						
1. Titrant standardized?			✓			✓
2. If no, standardization expires _____			✓			
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			✓
2. Calculations checked for error ?	✓			✓		
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?	✓			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			✓
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓			✓		
10. All reagent and standard numbers recorded in logbook?	✓		✓	✓		
11. Edits dated and initialed				✓		

Comment on any "NO" response(s): _____

Level I reviewer: Tom Hargman **Date:** 7/27/10

Level II Reviewer: QC **Date:** 7/28/10

N:\Inorganics\spreadsheets2\Use This Wet Chem_Level I.doc
Corporate Policy, QA-012
Revision date: 08/25/00

0207246.8.9
5310C 4501

****
** OI Analytical Model 1010 TOC **
** RUN SETUP **
****

Operator: Unknown
Data Path: C:\PROGRA~1\OIANAL~2\TOCREP~1\DATA10\072610A
WinTOC Version: 5.2 Firmware Version: 5.2
WinTOC Revision: rev 241 Firmware Revision: rev 364

Report To File: Enabled Naming Mode: Automatic
Prefix: 0726 Index: 0

****
** CONFIGURATION **
****

Analysis Mode: TOC Spl Intro: Autosampler 53
Remote Start : OFF

Loop Size: 1 mL Actual Volume 1mL 5mL 10mL 25mL

Loop A (uL):	1000	5000	10000	25000
Loop B (uL):	1000	5000	10000	25000

Tray Type: 53 Vial Vial Option: Septum Piercing
Needle Depth: 95 % Preacid Volume (uL): 200
Wash Needle Depth: 94 % Preacid Purge Time (min:sec): 0:30

TIC TOC TC
Blank ---- ---- ---- Linearization Coeff: 61000
Average: 300 866 260

Sample Transfer Times (sec)

	Initial Fill			Loop Fill			Sample Inject
	Non-AS	AS	AS w/Sep	Non-AS	AS	AS w/Sep	(all)
1mL:	6.0	4.5	4.0	1.2	1.2	1.2	4.5
5mL:	8.1	7.2	6.8	5.1	5.1	4.2	9.3
10mL:	14.2	12.2	11.0	10.5	10.5	11.0	16.5
25mL:	35.0	35.0	32.0	n/a	n/a	n/a	38.0

Analog Concentration Signal indicates TOC
Analog Conc. Signal Timer is OFF, Timer duration (h:m:s): 00:00:00
Min Signal Range: 0.000 ppmC, Max Signal Range: 0.000 ppmC

Alarms DISABLED
Alarm Relay Timer is OFF, Timer duration (h:m:s): 00:00:00
Conc. Alarm Setpoints (ppm C)

	Low	High
TIC:	0.000	0.000
TOC:	0.000	0.000
TC:	0.000	0.000

****
** CALIBRATION **
****

061610 Fri Jun 18 08:16:43 2010

phosphoric Acid WR000451
Sodium persulfate WR000452
LCS P153-516
CCV TC0045

Std. #	Used	Conc. (ppm)	Volume (mL)		
1	Yes	0.050	2.000	RF (ugC/k-cts):	1.374
2	Yes	5.000	2.000	R-Squared:	0.9959
3	Yes	10.000	2.000	Offset (cts):	-726
4	Yes	25.000	2.000	Offset (ugC):	0.999
5	Yes	50.000	2.000	Calibration Mode:	TOC
				Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	808	4625	15692	33601	72696	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

****
** METHODS **
****

TOC Thu Jul 01 10:32:27 2010
Acid Volume: 200 uL Rinse Volume (mL): 20
Oxidant Volume: 1000 uL Rinses Per Rep: 1
Auto-Repeat Time: 00:00:00 (hr:min:sec) Rinses Per Sample: 1

	TIC	TOC	TC
React: (min:sec):	02:00	02:30	00:30
Detect: (min:sec):	01:15	01:30	00:45

****
** SEQUENCE **
****

072610 Mon Jul 26 07:40:46 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 5

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	ZZZZZ	toc	Sample	1	2.000	0	1.00	No	
2	CCV	toc	Sample	1	2.000	0	1.00	No	TV=25 P
3	CCB	toc	Sample	1	2.000	0	1.00	No	
4	LCS-2X	toc	Sample	1	2.000	0	1.00	No	P153-51
5	LCS2-2X	toc	Sample	1	2.000	0	1.00	No	P153-51

Pos#	Remarks
2	TV=25 PPM Range-90-110%
4	P153-516 TV=69.4 @ 2X
5	P153-516 TV=69.4 @ 2X
6	P153-516 TV=69.4 @ 2X

****
** RESULTS - 072610 **
****

Pos/Vial: 1 Name: ZZZZZ Analyzed: 26Jul2010 08:36
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726000	26Jul2010	08:36	-	-	-	970	0.143	0.072	-	-	-

Pos/Vial: 2 Name: CCV Analyzed: 26Jul2010 08:46
Run ID: 1 Meth: toc Vol (mL): 2.000
Remarks: TV=25 PPM Range-90-110%

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726001	26Jul2010	08:46	-	-	-	35664	47.820	23.910	-	-	-

96 7

Pos/Vial: 3 Name: CCB Analyzed: 26Jul2010 08:57
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726002	26Jul2010	08:57	-	-	-	689	0.000	0.000	-	-	-

0207246

Pos/Vial: 4 Name: LCS-2X Analyzed: 26Jul2010 09:07
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726003	26Jul2010	09:07	-	-	-	50689	68.468	34.234	-	-	-

0207246

68.468

Pos/Vial: 5 Name: LCS2-2X Analyzed: 26Jul2010 09:18
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: P153-516 TV=69.4 @ 2X

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726004	26Jul2010	09:18	-	-	-	47909	64.647	32.324	-	-	-

0207246, 8, 9

64.646

E-Low gas pressure. 26Jul2010 09:20

****
** CALIBRATION **

****

061610 Fri Jun 18 08:16:43 2010

Std. #	Used	Conc. (ppm)	Volume (mL)		
				RF (ugC/k-cts):	1.374
1	Yes	0.050	2.000	R-Squared:	0.9959
2	Yes	5.000	2.000	Offset (cts):	-726
3	Yes	10.000	2.000	Offset (ugC):	0.999
4	Yes	25.000	2.000	Calibration Mode:	TOC
5	Yes	50.000	2.000	Allow Editing:	No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	
1	808	4625	15692	33601	72696	
2	-	-	-	-	-	
3	-	-	-	-	-	
4	-	-	-	-	-	
5	-	-	-	-	-	(* = unused)
6	-	-	-	-	-	
7	-	-	-	-	-	
8	-	-	-	-	-	
9	-	-	-	-	-	
10	-	-	-	-	-	

****
** SEQUENCE **
****

072610A Mon Jul 26 09:20:20 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 8

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4K99	toc	Sample	1	2.000	0	1.00	No	
2	L4K99-MS	toc	Sample	1	2.000	0	1.00	No	
3	L4K99-MSD	toc	Sample	1	2.000	0	1.00	No	
4	L4JD3	toc	Sample	1	2.000	0	1.00	No	
5	L4JD3-MS	toc	Sample	1	2.000	0	1.00	No	
6	L4JD3-MSD	toc	Sample	1	2.000	0	1.00	No	
7	CCV	toc	Sample	1	2.000	0	1.00	No	
8	CCB	toc	Sample	1	2.000	0	1.00	No	

****
** RESULTS - 072610A **
****

Pos/Vial: 1 Name: L4K99 Analyzed: 26Jul2010 09:34
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726005	26Jul2010 09:34	-	-	-	7400	8.979	4.490	-	-	-

Pos/Vial: 2 Name: L4K99-MS Analyzed: 26Jul2010 09:44
Run ID: 1 Meth: toc Vol (mL): 2.000

Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726006	26Jul2010 09:44	-	-	-	22088	29.164	14.582	-	-	-

L4K99-MS 29.164

Pos/Vial: 3 Name: L4K99-MSD Analyzed: 26Jul2010 09:55
Run ID: 2 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726007	26Jul2010 09:55	-	-	-	22357	29.533	14.767	-	-	-

29.534

Pos/Vial: 4 Name: L4JD3 Analyzed: 26Jul2010 10:06
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726008	26Jul2010 10:06	-	-	-	2366	2.061	1.031	-	-	-

Pos/Vial: 5 Name: L4JD3-MS Analyzed: 26Jul2010 10:16
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726009	26Jul2010 10:16	-	-	-	19096	25.052	12.526	-	-	-

25.052

Pos/Vial: 6 Name: L4JD3-MSD Analyzed: 26Jul2010 10:27
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726010	26Jul2010 10:27	-	-	-	20133	26.477	13.238	-	-	-

26.476

Pos/Vial: 7 Name: CCV Analyzed: 26Jul2010 10:37
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

CCV 967

1 0726011 26Jul2010 10:37 - - - 35873 48.107 24.054 - - -

Pos/Vial: 8 Name: CCB Analyzed: 26Jul2010 10:48
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
SAMPLES												
1	0726012	26Jul2010	10:48	-	-	-	659	0.000	0.000	-	-	-

02072489

****
** CALIBRATION **
****

061610 Fri Jun 18 08:16:43 2010

Std. #	Used	Conc. (ppm)	Volume (mL)
1	Yes	0.050	2.000
2	Yes	5.000	2.000
3	Yes	10.000	2.000
4	Yes	25.000	2.000
5	Yes	50.000	2.000

RF (ugC/k-cts): 1.374
R-Squared: 0.9959
Offset (cts): -726
Offset (ugC): 0.999
Calibration Mode: TOC
Allow Editing: No

Rep	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5
1	808	4625	15692	33601	72696
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-

(* = unused)

****
** SEQUENCE **
****

072610B Mon Jul 26 10:59:47 2010

Start Pos/Vial #: 1, Stop Pos/Vial #: 36

Pos/ Vial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Dil Fact	Ovr Rng	Remarks
1	L4J6L	toc	Sample	1	2.000	0	1.00	No	
2	L4J6N	toc	Sample	1	2.000	0	1.00	No	
3	L4JQW	toc	Sample	1	2.000	0	1.00	No	
4	L4JQ3	toc	Sample	1	2.000	0	1.00	No	
5	L4J1P	toc	Sample	1	2.000	0	1.00	No	
6	L4J14	toc	Sample	1	2.000	0	1.00	No	
7	L4J15	toc	Sample	1	2.000	0	1.00	No	
8	L4J16	toc	Sample	1	2.000	0	1.00	No	
9	L4J2C	toc	Sample	1	2.000	0	1.00	No	
10	L4J2L	toc	Sample	1	2.000	0	1.00	No	
11	CCV	toc	Sample	1	2.000	0	1.00	No	

```
12 CCB        toc      Sample  1  2.000   0 1.00 No
13 L4J2X      toc      Sample  1  2.000   0 1.00 No
14 L4J28      toc      Sample  1  2.000   0 1.00 No
15 L4J3D      toc      Sample  1  2.000   0 1.00 No
16 L4J7L      toc      Sample  1  2.000   0 1.00 No
17 L4J7R      toc      Sample  1  2.000   0 1.00 No
18 L4K7R      toc      Sample  1  2.000   0 1.00 No
19 L4K9A      toc      Sample  1  2.000   0 1.00 No
20 L4K9T      toc      Sample  1  2.000   0 1.00 No
21 L4K91      toc      Sample  1  2.000   0 1.00 No
22 L4LAK      toc      Sample  1  2.000   0 1.00 No
23 CCV        toc      Sample  1  2.000   0 1.00 No
24 CCB        toc      Sample  1  2.000   0 1.00 No
25 L4LAQ      toc      Sample  1  2.000   0 1.00 No
26 L4JDK      toc      Sample  1  2.000   0 1.00 No
27 L4JD0      toc      Sample  1  2.000   0 1.00 No
28 L4JEC      toc      Sample  1  2.000   0 1.00 No
29 L4JED      toc      Sample  1  2.000   0 1.00 No
30 L4JEG      toc      Sample  1  2.000   0 1.00 No
31 L4K1A      toc      Sample  1  2.000   0 1.00 No
32 L4K1R      toc      Sample  1  2.000   0 1.00 No
33 L4K2T      toc      Sample  1  2.000   0 1.00 No
34 L4K29      toc      Sample  1  2.000   0 1.00 No
35 CCV        toc      Sample  1  2.000   0 1.00 No
36 CCB        toc      Sample  1  2.000   0 1.00 No

**********************************************************************
**              RESULTS - 072610B                   **
**********************************************************************

Pos/Vial:  1   Name: L4J6L        Analyzed:  26Jul2010 11:11
Run ID:    8   Meth: toc          Vol (mL):  2.000
Remarks: <none>

SAMPLES                TIC   TIC     TIC    TOC   TOC     TOC    TC    TC      TC
                     Area  Mass    Conc   Area  Mass    Conc  Area  Mass    Conc
Rep Datafile  Date  Time (cts) (ugC)   (ppm) (cts) (ugC)   (ppm) (cts) (ugC)   (ppm)
--- -------- --------- ----- ------- ------- ---------- ------- ------- ---------- ------- ------- ----------

 1 0726013  26Jul2010 11:11    -       -       -   34182  45.783  22.892    -       -       -

Pos/Vial:  2   Name: L4J6N        Analyzed:  26Jul2010 11:21
Run ID:    1   Meth: toc          Vol (mL):  2.000
Remarks: <none>

SAMPLES                TIC   TIC     TIC    TOC   TOC     TOC    TC    TC      TC
                     Area  Mass    Conc   Area  Mass    Conc  Area  Mass    Conc
Rep Datafile  Date  Time (cts) (ugC)   (ppm) (cts) (ugC)   (ppm) (cts) (ugC)   (ppm)
--- -------- --------- ----- ------- ------- ---------- ------- ------- ---------- ------- ------- ----------

 1 0726014  26Jul2010 11:21    -       -       -   31638  42.287  21.144    -       -       -

Pos/Vial:  3   Name: L4JQW        Analyzed:  26Jul2010 11:32
Run ID:    2   Meth: toc          Vol (mL):  2.000
Remarks: <none>

SAMPLES                TIC   TIC     TIC    TOC   TOC     TOC    TC    TC      TC
                     Area  Mass    Conc   Area  Mass    Conc  Area  Mass    Conc
Rep Datafile  Date  Time (cts) (ugC)   (ppm) (cts) (ugC)   (ppm) (cts) (ugC)   (ppm)
--- -------- --------- ----- ------- ------- ---------- ------- ------- ---------- ------- ------- ----------

 1 0726015  26Jul2010 11:32    -       -       -    1711   1.161   0.581    -       -       -
```

Pos/Vial: 4 Name: L4JQ3 Analyzed: 26Jul2010 11:42
Run ID: 3 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726016	26Jul2010	11:42	-	-	-	2235	1.881	0.941	-	-	-

Pos/Vial: 5 Name: L4J1P Analyzed: 26Jul2010 11:53
Run ID: 4 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726017	26Jul2010	11:53	-	-	-	2879	2.766	1.383	-	-	-

Pos/Vial: 6 Name: L4J14 Analyzed: 26Jul2010 12:03
Run ID: 5 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726018	26Jul2010	12:03	-	-	-	3123	3.102	1.551	-	-	-

Pos/Vial: 7 Name: L4J15 Analyzed: 26Jul2010 12:14
Run ID: 6 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726019	26Jul2010	12:14	-	-	-	2582	2.358	1.179	-	-	-

Pos/Vial: 8 Name: L4J16 Analyzed: 26Jul2010 12:24
Run ID: 7 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726020	26Jul2010	12:24	-	-	-	2939	2.849	1.424	-	-	-

Pos/Vial: 9 Name: L4J2C Analyzed: 26Jul2010 12:35
Run ID: 8 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
				Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726021	26Jul2010	12:35	-	-	-	1023	0.216	0.108	-	-	-

L4J2C

Pos/Vial: 10 Name: L4J2L Analyzed: 26Jul2010 12:45
Run ID: 9 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726022	26Jul2010	12:45	-	-	-	2977	2.901	1.451	-	-	-

Pos/Vial: 11 Name: CCV Analyzed: 26Jul2010 12:56
Run ID: 10 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726023	26Jul2010	12:56	-	-	-	36476	48.936	24.468	-	-	-

98%

Pos/Vial: 12 Name: CCB Analyzed: 26Jul2010 13:06
Run ID: 11 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726024	26Jul2010	13:06	-	-	-	1923	1.453	0.726	-	-	-

Pos/Vial: 13 Name: L4J2X Analyzed: 26Jul2010 13:17
Run ID: 12 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726025	26Jul2010	13:17	-	-	-	4685	5.248	2.624	-	-	-

Pos/Vial: 14 Name: L4J28 Analyzed: 26Jul2010 13:27
Run ID: 13 Meth: toc Vol (mL): 2.000
Remarks: <none>

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726026	26Jul2010	13:27	-	-	-	2630	2.424	1.212	-	-	-

Pos/Vial: 15 Name: L4J3D Analyzed: 26Jul2010 13:38
Run ID: 14 Meth: toc Vol (mL): 2.000

Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726027	26Jul2010 13:38	-	-	-	2434	2.155	1.077	-	-	-

L4J3D

Pos/Vial: 16 Name: L4J7L Analyzed: 26Jul2010 13:48
Run ID: 15 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726028	26Jul2010 13:48	-	-	-	10393	13.092	6.546	-	-	-

Pos/Vial: 17 Name: L4J7R Analyzed: 26Jul2010 13:59
Run ID: 16 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726029	26Jul2010 13:59	-	-	-	12269	15.670	7.835	-	-	-

Pos/Vial: 18 Name: L4K7R Analyzed: 26Jul2010 14:09
Run ID: 17 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726030	26Jul2010 14:09	-	-	-	2933	2.841	1.420	-	-	-

Pos/Vial: 19 Name: L4K9A Analyzed: 26Jul2010 14:20
Run ID: 18 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726031	26Jul2010 14:20	-	-	-	2875	2.761	1.380	-	-	-

Pos/Vial: 20 Name: L4K9T Analyzed: 26Jul2010 14:30
Run ID: 19 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)

L4K9T

1 0726032 26Jul2010 14:30 - - - 2802 2.660 1.330 - - -

Pos/Vial: 21 Name: L4K91 Analyzed: 26Jul2010 14:41
Run ID: 20 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726033	26Jul2010 14:41	-	-	-	2437	2.159	1.079	-	-	-

Pos/Vial: 22 Name: L4LAK Analyzed: 26Jul2010 14:51
Run ID: 21 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726034	26Jul2010 14:51	-	-	-	8073	9.904	4.952	-	-	-

Pos/Vial: 23 Name: CCV Analyzed: 26Jul2010 15:02
Run ID: 22 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726035	26Jul2010 15:02	-	-	-	35279	47.291	23.645	-	-	-

95 ?

Pos/Vial: 24 Name: CCB Analyzed: 26Jul2010 15:12
Run ID: 23 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726036	26Jul2010 15:12	-	-	-	684	0.000	0.000	-	-	-

Pos/Vial: 25 Name: L4LAQ Analyzed: 26Jul2010 15:23
Run ID: 24 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC
			Area	Mass	Conc	Area	Mass	Conc	Area	Mass	Conc
Rep	Datafile	Date Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
---	---	---	---	---	---	---	---	---	---	---	---
1	0726037	26Jul2010 15:23	-	-	-	987	0.166	0.083	-	-	-

Pos/Vial: 26 Name: L4JDK Analyzed: 26Jul2010 15:33
Run ID: 25 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES			TIC	TIC	TIC	TOC	TOC	TOC	TC	TC	TC

L4JDK

Rep	Datafile	Date	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (ppm)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (ppm)	TC Area (cts)	TC Mass (ugC)	TC Conc (ppm)
1	0726038	26Jul2010	15:33	-	-	-	5596	6.500	3.250	-	-	-

Pos/Vial: 27 Name: L4JD0 Analyzed: 26Jul2010 15:44
Run ID: 26 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726039	26Jul2010	15:44	-	-	-	5547	6.433	3.216	-	-	-

Pos/Vial: 28 Name: L4JEC Analyzed: 26Jul2010 15:55
Run ID: 27 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726040	26Jul2010	15:55	-	-	-	1695	1.139	0.570	-	-	-

Pos/Vial: 29 Name: L4JED Analyzed: 26Jul2010 16:05
Run ID: 28 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726041	26Jul2010	16:05	-	-	-	1771	1.244	0.622	-	-	-

Pos/Vial: 30 Name: L4JEG Analyzed: 26Jul2010 16:16
Run ID: 29 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726042	26Jul2010	16:16	-	-	-	2428	2.147	1.073	-	-	-

Pos/Vial: 31 Name: L4K1A Analyzed: 26Jul2010 16:26
Run ID: 30 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726043	26Jul2010	16:26	-	-	-	1795	1.277	0.638	-	-	-

Pos/Vial: 32 Name: L4K1R Analyzed: 26Jul2010 16:37

Run ID: 31 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726044	26Jul2010	16:37	-	-	-	9811	12.292	6.146	-	-	-

L4K1R

Pos/Vial: 33 Name: L4K2T Analyzed: 26Jul2010 16:47
Run ID: 32 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726045	26Jul2010	16:47	-	-	-	15960	20.742	10.371	-	-	-

Pos/Vial: 34 Name: L4K29 Analyzed: 26Jul2010 16:58
Run ID: 33 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726046	26Jul2010	16:58	-	-	-	1472	0.833	0.416	-	-	-

Pos/Vial: 35 Name: CCV Analyzed: 26Jul2010 17:08
Run ID: 34 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726047	26Jul2010	17:08	-	-	-	35100	47.045	23.522	-	-	-

94 %

Pos/Vial: 36 Name: CCB Analyzed: 26Jul2010 17:19
Run ID: 35 Meth: toc Vol (mL): 2.000
Remarks: <none>

SAMPLES				TIC Area	TIC Mass	TIC Conc	TOC Area	TOC Mass	TOC Conc	TC Area	TC Mass	TC Conc
Rep	Datafile	Date	Time	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)	(cts)	(ugC)	(ppm)
1	0726048	26Jul2010	17:19	-	-	-	570	0.000	0.000	-	-	-

Method: 300, 9056

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SEQUENCE: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m Instrument : ic120.i LEVEL 1 JB DATE: 7/26/10 Date Analyzed: 7/23/2010

LEVEL 2 CL/CC DATE: 7/26/10 Units: mg/L or mg/Kg

	Inj. Date	Sample ID	Matrix	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
					RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
		RLs:>>			0.1		1		0.1		0.2		0.1		0.1		1	
Injec	7-Jul-10	Highest Cal Std conc & area			10	101242718	200	1.945E+09	10	144268622	40	125641377	10	177415257	10	86187007	200	1.264E+09
1	7/23/2010 9:30	CE	L	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.21	1	ND
2	7/23/2010 9:47	RINSE	L	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	ND	1	ND
3	7/23/2010 10:03	CCV	L	1	P 95%	2.37	P 106%	52.80	P 100%	2.50	P 98%	9.79	P 97%	2.43	P 97%	2.42	P 100%	49.95
4	7/23/2010 10:19	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	ND	P< 1	ND
5	7/23/2010 10:36	LCS	L	1	P 97%	2.42	P 105%	52.47	P 103%	2.57	P 96%	9.64	P 97%	2.41	P 100%	2.49	P 99%	49.58
6	7/23/2010 10:52	LCS DUP	L	1	P 98%	2.45	P 105%	52.48	P 103%	2.58	P 96%	9.64	P 97%	2.43	P 101%	2.51	P 100%	49.81
7	7/23/2010 11:09	L30R5	L	5	0.5 G	0.1388 B	5	184.30	0.5 G	ND	1	2.34	0.5 G	ND	0.5	0.76	5	102.00
8	7/23/2010 11:25	L38D0	L	1	0.1	2.88	1	42.14	0.1	0.19	0.2	ND	0.1	1.52	0.1	2.65	1	Dil 2X
9	7/23/2010 11:41	L38DD ORG	L	1	0.1	1.11	1	28.48	0.1	ND	0.2	ND	0.1	ND	0.1	2.48	1	Dil 5X
10	7/23/2010 11:58	L38DD MS	L	1	P 120%	4.12	P 144%	100.50	P 126%	3.15	P 124%	12.43	P 121%	3.03	P 145%	6.11	P 82%	Dil 5X
11	7/23/2010 12:14	CCV	L	1	P 101%	2.52	P 106%	53.13	P 101%	2.53	P 97%	9.72	P 98%	2.45	P 110%	2.75	P 101%	50.36
12	7/23/2010 12:31	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.0346 B	P< 1	ND
13	7/23/2010 15:37	L4K1A JB 7/26/10	L	1	0.1	0.0296 B	1	1.50	0.1	ND	0.2	ND	0.1	1.85	0.1	0.46	1	9.24
14	7/23/2010 15:54	L4K1R	L	1	0.1	0.0535 B	1	5.78	0.1	ND	0.2	ND	0.1	ND	0.1	0.32	1	15.89
15	7/23/2010 16:10	L4K2T	L	1	0.1	0.0336 B	1	7.86	0.1	ND	0.2	22.24	0.1	ND	0.1	0.17	1	3.48
16	7/23/2010 16:26	L4K29 ORG	L	1	0.1	0.0526 B	1	1.77	0.1	ND	0.2	ND	0.1	0.21	0.1	0.15	1	12.59
17	7/23/2010 16:43	L4K29 MS	L	1	P 204%	5.16	P 200%	101.80	P 123%	3.07	P 181%	18.15	P 182%	4.75	P 285%	7.27	P 209%	117.20
18	7/23/2010 16:59	L37MD	L	5	0.5	0.68	5	162.30	0.5	0.91	1 G	ND	0.5	0.70	0.5	2.02	5	618.00
19	7/23/2010 17:16	L37MN	L	1	0.1	1.30	1	53.90	0.1	ND	0.2	0.124 B	0.1	ND	0.1	0.40	1	137.70
20	7/23/2010 17:32	L37MR	L	50	5 G	ND	50	4200.00	5 G	ND	10 G	ND	5 G	ND	5	5.73	50	921.10
21	7/23/2010 17:49	L37MT ORG	L	50	5 G	ND	50	Dil 200X	5 G	ND	10	22.81	5 G	ND	5	7.67	50	329.30
22	7/23/2010 18:05	L37MT MS	L	50	P 0%	ND	Out - 2740%	Dil 200X	P 0%	ND	P 415%	64.26	P 143%	3.58	Out -39%	6.70	P 37%	348.00
23	7/23/2010 18:21	CCV	L	1	P 101%	2.53	P 107%	53.49	P 102%	2.55	P 98%	9.78	P 99%	2.46	P 101%	2.54	P 101%	50.55
24	7/23/2010 18:38	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	ND	P< 1	ND
25	7/23/2010 18:54	L37MT MSD	L	50	Orig??	ND	Orig??	Dil 200X	Orig??	ND	Orig??	23.78	Orig??	ND	Orig??	6.85	Orig??	324.30

G - diluted for another analyte or matrix
B - estimated result, < RL

DX-120 Spreadsheet.xls
VER . 2000 09 05

North Canton

Method: 300, 9056

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0 SEQUENCE: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m Instrument : ic120.i LEVEL 1_____ DATE:_____ Date Analyzed: 7/23/2010

0 LEVEL 2_____ DATE:_____ Units: mg/L or mg/Kg

0	Inj. Date	Sample ID	Matrix	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
0					RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
0		RLs:>>			0.1		1		0.1		0.2		0.1		0.1		1	
Injec	7-Jul-10	Highest Cal Std conc & area			10	101242718	200	1.945E+09	10	144268622	40	125641377	10	177415257	10	86187007	200	1.264E+09
26	7/23/2010 19:11	L4JL9	L	50	5 G	ND	50	8546.00	5 G	ND	10	26.19	5 G	ND	5 G	ND	50	159.30
27	7/23/2010 19:27	L37M1	L	20	2 G	ND	20	2593.00	2 G	ND	4 G	3.594 B	2 G	ND	2 G	ND	20	774.50
28	7/23/2010 19:43	L37M3	L	5	0.5 G	0.3017 B	5	272.00	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	ND	5	190.30
29	7/23/2010 20:00	L37M5	L	10	1 G	0.5208 B	10	418.80	1 G	ND	2 G	ND	1 G	ND	1 G	ND	10	1425.00
30	7/23/2010 20:16	L37M6	L	20	2 G	ND	20	Dil 20X	2 G	ND	4 G	2.544 B	2 G	ND	2 G	ND	20	350.40
31	7/23/2010 20:33	L37M7	L	5	0.5 G	0.2924 B	5	353.80	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	ND	5	241.70
32	7/23/2010 20:49	L37NC	L	1	0.1	0.0829 B	1	7.69	0.1	ND	0.2	ND	0.1	0.20	0.1	ND	1	15.24
33	7/23/2010 21:05	L37N0 ORG	L	1	0.1	0.10	1	9.91	0.1	ND	0.2	ND	0.1	0.21	0.1	ND	1	16.14
34	7/23/2010 21:22	L37N0 MS	L	1	P 193%	4.92	P 196%	107.70	P 114%	2.86	P 164%	16.38	P 167%	4.39	P 271%	6.78	P 200%	115.90
35	7/23/2010 21:38	CCV	L	1	P 102%	2.55	P 107%	53.33	P 102%	2.54	P 97%	9.74	P 98%	2.45	P 110%	2.75	P 101%	50.28
36	7/23/2010 21:55	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.2001 B	P< 1	ND
37	7/23/2010 22:11	L37N2	L	1	0.1	0.0842 B	1	7.81	0.1	ND	0.2	ND	0.1	0.20	0.1	0.22	1	15.82
38	7/23/2010 22:28	L37N7	L	20	2 G	ND	20	Dil 20X	2 G	ND	4	4.91	2 G	ND	2	2.00	20	886.90
39	7/23/2010 22:44	L37N9	L	1	0.1	0.0801 B	1	7.72	0.1	ND	0.2	ND	0.1	0.20	0.1	0.15	1	15.28
40	7/23/2010 23:00	L38FH	L	1	0.1	0.14	1	116.90	0.1	ND	0.2	15.28	0.1	ND	0.1	0.0851 B	1	66.39
41	7/23/2010 23:17	LCS	L	1	P 102%	2.55	P 106%	52.99	P 105%	2.62	P 97%	9.70	P 97%	2.44	P 100%	2.49	P 100%	50.06
42	7/23/2010 23:33	LCS DUP	L	1	P 102%	2.56	P 106%	52.97	P 105%	2.62	P 97%	9.73	P 98%	2.45	P 101%	2.53	P 101%	50.48
43	7/23/2010 23:50	L39TV	L	20	2 G	1.04 B	20 G	9.798 B	2 G	ND	4 G	ND	2 G	ND	2 G	ND	20	46.34
44	7/24/2010 0:06	L39TX ORG	L	1	0.1	1.79	1	18.81	0.1	ND	0.2	ND	0.1	ND	0.1	0.13	1	68.34
45	7/24/2010 0:22	L39TX MS	L	1	P 160%	5.79	P 155%	96.21	P 117%	2.92	P 134%	13.37	P 135%	3.37	P 228%	5.82	P 185%	160.60
46	7/24/2010 0:39	L39T1	L	5	0.5	0.79	5	221.30	0.5	0.60	1	1.63	0.5 G	ND	0.5	2.14	5	458.00
47	7/24/2010 0:55	CCV	L	1	P 101%	2.53	P 106%	53.08	P 101%	2.53	P 97%	9.68	P 98%	2.44	P 103%	2.58	P 100%	49.85
48	7/24/2010 1:12	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.1555 B	P< 1	ND
49	7/24/2010 1:28	L39T2	L	5	0.5	0.76	5	430.10	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	0.4537 B	5	201.40
50	7/24/2010 1:44	L39T3	L	5	0.5	0.72	5	120.00	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	0.3582 B	5	207.40

G - diluted for another analyte or matrix
B - estimated result, < RL

DX-120 Spreadsheet.xls
VER . 2000 09 05

Method: 300, 9056

TestAmerica
North Canton
Ion Chromatography

0 SEQUENCE: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m Instrument : ic120.i LEVEL 1_____ DATE:_____ Date Analyzed: 7/23/2010

0 LEVEL 2_____ DATE:_____ Units: mg/L or mg/Kg

0	Inj. Date	Sample ID	Matrix	Dil	FLUORIDE		CHLORIDE		NITRITE		BROMIDE		NITRATE-N		O-PHOS-P		SULFATE	
0					RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
0		RLs:>>			0.1		1		0.1		0.2		0.1		0.1		1	
Injec	7-Jul-10	Highest Cal Std conc & area			10	101242718	200	1.945E+09	10	144268622	40	125641377	10	177415257	10	86187007	200	1.264E+09
51	7/24/2010 2:01	L39T4	L	5	0.5	0.59	5	61.43	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	ND	5	546.60
52	7/24/2010 2:17	L39T5	L	5	0.5	0.76	5	438.90	0.5 G	ND	1 G	ND	0.5 G	ND	0.5 G	ND	5	206.80
53	7/24/2010 2:34	L39T6 ORG	L	1	0.1	ND	1	ND	0.1	ND	0.2	ND	0.1	ND	0.1	0.14	1	ND
54	7/24/2010 2:50	L39T6 MS	L	1	P 216%	5.41	P 198%	98.90	P 116%	2.91	P 179%	17.92	P 182%	4.56	P 284%	7.23	P 232%	116.10
55	7/24/2010 3:06	CCV	L	1	P 102%	2.56	P 107%	53.47	P 102%	2.55	P 98%	9.76	P 98%	2.46	P 108%	2.70	P 101%	50.36
56	7/24/2010 3:23	CCB	L	1	P< 1	ND	P< 1	ND	P< 0.5	ND	P< 0.5	ND	P< 0.1	ND	P< 0.5	0.1822 B	P< 1	ND
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!
0	1/0/1900 0:00	0		0	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!	Unknown Matrix	#VALUE!

G - diluted for another analyte or matrix
B - estimated result, < RL

DX-120 Spreadsheet.xls
VER . 2000 09 05

Sequence: 072310
Operator: wetchemnc
Printed: 7/26/2010 10:39:37 AM

Title:
Datasource: D2NJR9B1_local
Location: IC120\DX120 DATA 2010\DX120 JULY 2010
Timebase: IC120
#Samples: 57

Created: 7/23/2010 9:29:48 AM by wetchemnc
Last Update: 7/23/2010 5:30:28 PM by wetchemnc

No.	Name	Type	Program	Status	Inj. Date/Time	Comment
1	CE	Unknown	DX120_14min	Finished	7/23/2010 9:30:39 AM	
2	RINSE	Unknown	DX120_14min	Finished	7/23/2010 9:47:04 AM	ELUENT=WR00685
3	CCV,,2	Unknown	DX120_14min	Finished	7/23/2010 10:03:28 AM	CCV=IC0350
4	CCB	Unknown	DX120_14min	Finished	7/23/2010 10:19:53 AM	LCS=IC0349
5	LCS,,3	Spiked	DX120_14min	Finished	7/23/2010 10:36:17 AM	
6	LCS DUP,,3	Spiked	DX120_14min	Finished	7/23/2010 10:52:42 AM	
7	L30R5,5	Unknown	DX120_14min	Finished	7/23/2010 11:09:07 AM	
8	L38D0	Unknown	DX120_14min	Finished	7/23/2010 11:25:32 AM	
9	L38DD ORG	Unknown	DX120_14min	Finished	7/23/2010 11:41:56 AM	
10	L38DD MS,,3	Unknown	DX120_14min	Finished	7/23/2010 11:58:21 AM	
11	CCV,,2	Unknown	DX120_14min	Finished	7/23/2010 12:14:46 PM	
12	CCB	Unknown	DX120_14min	Finished	7/23/2010 12:31:10 PM	
13	L1K1A	Unknown	DX120_14min	Finished	7/23/2010 3:37:43 PM	
14	L4K1R	Unknown	DX120_14min	Finished	7/23/2010 3:54:09 PM	
15	L4K2T	Unknown	DX120_14min	Finished	7/23/2010 4:10:34 PM	
16	L4K29 ORG	Unknown	DX120_14min	Finished	7/23/2010 4:26:59 PM	
17	L4K29 MS,,3	Unknown	DX120_14min	Finished	7/23/2010 4:43:23 PM	
18	L37MD,5	Unknown	DX120_14min	Finished	7/23/2010 4:59:48 PM	
19	L37MN	Unknown	DX120_14min	Finished	7/23/2010 5:16:13 PM	
20	L37MR,50	Unknown	DX120_14min	Finished	7/23/2010 5:32:37 PM	
21	L37MT ORG,50	Unknown	DX120_14min	Finished	7/23/2010 5:49:02 PM	
22	L37MT MS,50,3	Unknown	DX120_14min	Finished	7/23/2010 6:05:26 PM	
23	CCV,,2	Unknown	DX120_14min	Finished	7/23/2010 6:21:51 PM	
24	CCB	Unknown	DX120_14min	Finished	7/23/2010 6:38:15 PM	
25	L37MT MSD,50,3	Unknown	DX120_14min	Finished	7/23/2010 6:54:39 PM	
26	L4JL9,50	Unknown	DX120_14min	Finished	7/23/2010 7:11:04 PM	
27	L37M1,20	Unknown	DX120_14min	Finished	7/23/2010 7:27:29 PM	
28	L37M3,5	Unknown	DX120_14min	Finished	7/23/2010 7:43:53 PM	
29	L37M5,10	Unknown	DX120_14min	Finished	7/23/2010 8:00:18 PM	
30	L37M6,20	Unknown	DX120_14min	Finished	7/23/2010 8:16:43 PM	
31	L37M7,5	Unknown	DX120_14min	Finished	7/23/2010 8:33:08 PM	
32	L37NC	Unknown	DX120_14min	Finished	7/23/2010 8:49:32 PM	
33	L37N0 ORG	Unknown	DX120_14min	Finished	7/23/2010 9:05:57 PM	
34	L37N0 MS,,3	Unknown	DX120_14min	Finished	7/23/2010 9:22:21 PM	
35	CCV,,2	Unknown	DX120_14min	Finished	7/23/2010 9:38:46 PM	
36	CCB	Unknown	DX120_14min	Finished	7/23/2010 9:55:11 PM	
37	L37N2	Unknown	DX120_14min	Finished	7/23/2010 10:11:36 PM	
38	L37N7,20	Unknown	DX120_14min	Finished	7/23/2010 10:28:00 PM	
39	L37N9	Unknown	DX120_14min	Finished	7/23/2010 10:44:25 PM	
40	L38FH	Unknown	DX120_14min	Finished	7/23/2010 11:00:49 PM	
41	LCS,,3	Unknown	DX120_14min	Finished	7/23/2010 11:17:13 PM	
42	LCS DUP,,3	Unknown	DX120_14min	Finished	7/23/2010 11:33:38 PM	

Sequence: 072310
Operator: wetchemnc
Printed: 7/26/2010 10:39:37 AM

Title:
Datasource: D2NJR9B1_local
Location: IC120\DX120 DATA 2010\DX120 JULY 2010
Timebase: IC120
#Samples: 57

Created: 7/23/2010 9:29:48 AM by wetchemnc
Last Update: 7/23/2010 5:30:28 PM by wetchemnc

No.	Name	Type	Program	Status	Inj. Date/Time	Comment
43	L39TV,20 ✓	Unknown	DX120_14min	Finished	7/23/2010 11:50:03 PM	
44	L39TX ORG ✓	Unknown	DX120_14min	Finished	7/24/2010 12:06:28 AM	
45	L39TX MS,,3 ✓	Unknown	DX120_14min	Finished	7/24/2010 12:22:52 AM	
46	L39T1,5 ✓	Unknown	DX120_14min	Finished	7/24/2010 12:39:17 AM	
47	CCV,,2 ✓	Unknown	DX120_14min	Finished	7/24/2010 12:55:42 AM	
48	CCB ✓	Unknown	DX120_14min	Finished	7/24/2010 1:12:06 AM	
49	L39T2,5 ✓	Unknown	DX120_14min	Finished	7/24/2010 1:28:31 AM	
50	L39T3,5 ✓	Unknown	DX120_14min	Finished	7/24/2010 1:44:56 AM	
51	L39T4,5 ✓	Unknown	DX120_14min	Finished	7/24/2010 2:01:20 AM	
52	L39T5,5 ✓	Unknown	DX120_14min	Finished	7/24/2010 2:17:45 AM	
53	L39T6 ORG ✓	Unknown	DX120_14min	Finished	7/24/2010 2:34:09 AM	
54	L39T6 MS,,3 ✓	Unknown	DX120_14min	Finished	7/24/2010 2:50:33 AM	
55	CCV,,3 ✓	Unknown	DX120_14min	Finished	7/24/2010 3:06:58 AM	
56	CCB ✓	Unknown	DX120_14min	Finished	7/24/2010 3:23:22 AM	
57	Halt	Unknown	DX120_Halt	Finished	7/24/2010 3:39:47 AM	

VJB 7/26/10

Chromeleon © Dionex Corporation, Version 6.80 Build 2212

Report Date : 26-Jul-2010 11:01

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Last Edit : 26-Jul-2010 10:45 scotts

Calibration File Names:
Level 1: \\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Level 2: \\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Level 3: \\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Level 4: \\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Level 5: \\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Level 6: \\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Level 7: \\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Level 8: \\cansvr11\chem\WET\ic120.i\070710.b\0011.d
Level 9: \\cansvr11\chem\WET\ic120.i\070710.b\0012.d

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
1 Fluoride	836700	854244	878036	884284	945480	979205					
	995521	1064923	1092411				AVRG		947867		9.71921
2 Chloride	6216747	6596759	6748861	7314895	8374022	8858271					
	9115105	9515664	9723584				AVRG		8051545		16.74847
3 Nitrite	10310100	11919216	12493856	12568694	13215152	13343137					
	13612873	13813577	14426862				AVRG		12855941		9.48554

Report Date : 26-Jul-2010 11:01

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Last Edit : 26-Jul-2010 10:45 scotts

Compound	0.0500000 Level 1	0.2500000 Level 2	0.5000000 Level 3	1.0000 Level 4	2.5000 Level 5	4.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	5.0000 Level 7	7.5000 Level 8	10.0000 Level 9								
4 Bromide	2652945	2796529	2643142	2720608	2851080	2893656					
	2943225	2967847	3141034				AVRG		2845563		5.69687
5 Nitrate	16950260	14930548	14814542	15157385	15821698	16167655					
	16489167	16826702	17741526				AVRG		16099942		6.24514
6 Phosphate	57713	73425	151121	314418	774597	1254441					
	1590391	2521439	3684311				QUAD	0.000e+000	3.442e-006	-1.955e-01	0.99979
7 Sulfate	4575817	4672672	4670676	4805781	5166870	5499371					
	5666959	6068592	6319704				AVRG		5271827		12.31838

Report Date : 26-Jul-2010 11:01

TestAmerica North Canton

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Last Edit : 26-Jul-2010 10:45 scotts

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date: 26-Jul-2010 11:01

Calibration History

Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Start Cal Date: 07-JUL-2010 12:52
End Cal Date : 07-JUL-2010 15:03
Last Cal Level: 9
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
07-JUL-2010 12:52	all	\\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Cal Level: 2 , Cal Amount: 0.25000		
07-JUL-2010 13:08	all	\\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Cal Level: 3 , Cal Amount: 0.50000		
07-JUL-2010 13:25	all	\\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Cal Level: 4 , Cal Amount: 1.00000		
07-JUL-2010 13:41	all	\\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Cal Level: 5 , Cal Amount: 2.50000		
07-JUL-2010 13:58	all	\\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Cal Level: 6 , Cal Amount: 4.00000		
07-JUL-2010 14:14	all	\\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Cal Level: 7 , Cal Amount: 5.00000		
07-JUL-2010 14:30	all	\\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Cal Level: 8 , Cal Amount: 7.50000		

07-JUL-2010 14:47	all	\\cansvr11\chem\WET\ic120.i\070710.b\0011.d

Cal Level: 9 , Cal Amount: 10.00000		
07-JUL-2010 15:03	all	\\cansvr11\chem\WET\ic120.i\070710.b\0012.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

24-JUL-2010 00:55	all	\\cansvr11\chem\WET\ic120.i\072310.b\0047.d
23-JUL-2010 21:38	all	\\cansvr11\chem\WET\ic120.i\072310.b\0035.d
23-JUL-2010 18:21	all	\\cansvr11\chem\WET\ic120.i\072310.b\0023.d
23-JUL-2010 12:14	all	\\cansvr11\chem\WET\ic120.i\072310.b\0011.d
23-JUL-2010 10:03	all	\\cansvr11\chem\WET\ic120.i\072310.b\0003.d

Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0004.d
Lab Smp Id: CAL 1
Inj Date : 07-JUL-2010 12:52
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0332
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

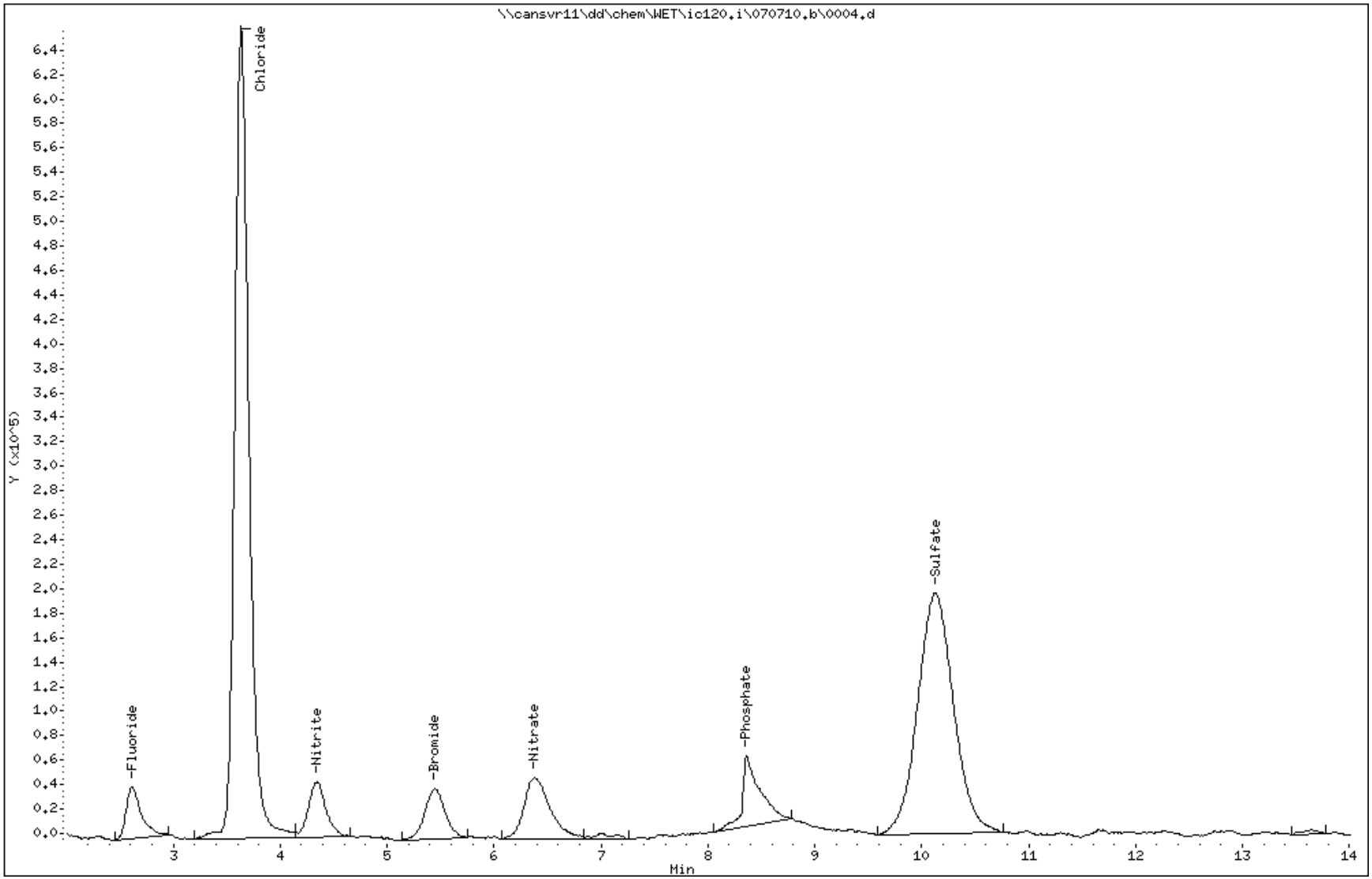
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.616	0.000	41835	0.05000	0.04414(a)
2 Chloride	3.633	3.633	0.000	6216747	1.00000	0.7721(a)
3 Nitrite	4.341	4.341	0.000	515505	0.05000	0.04010(a)
4 Bromide	5.450	5.450	0.000	530589	0.20000	0.1865(a)
5 Nitrate	6.383	6.383	0.000	847513	0.05000	0.05264(a)
6 Phosphate	8.358	8.358	0.000	57713	0.05000	0.1980
7 Sulfate	10.133	10.133	0.000	4575817	1.00000	0.8680(a)

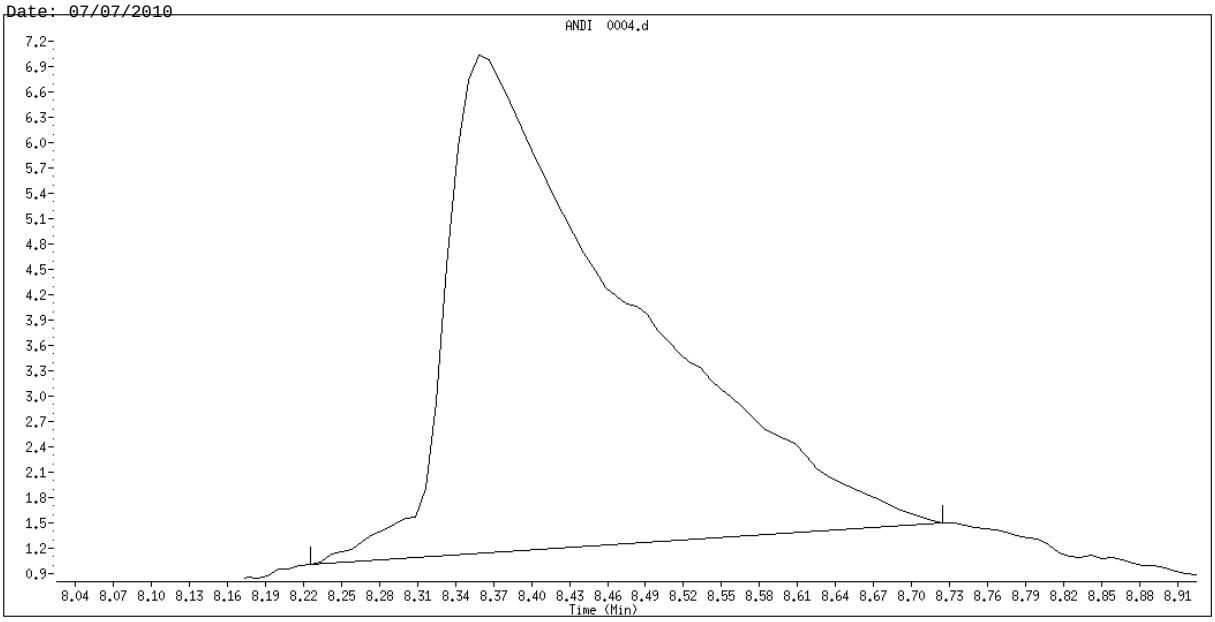
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

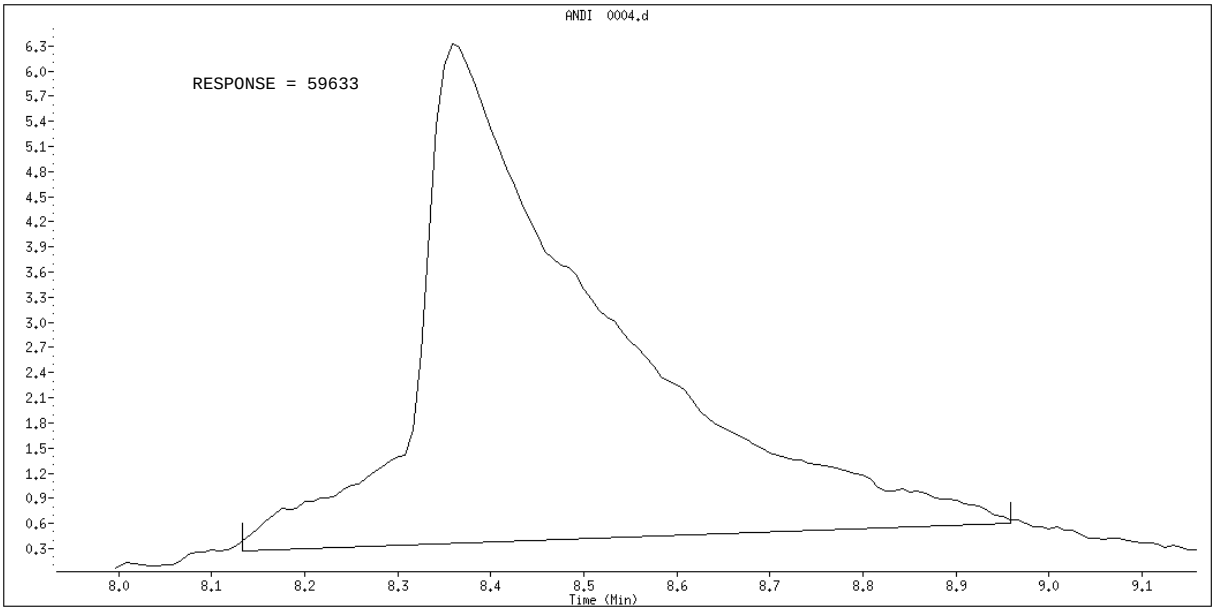
Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0004.d
Date : 07-JUL-2010 12:52
Client ID:
Instrument: ic120.i
Sample Info: IC0332
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0004.d
Inj. Date and Time: 07-JUL-2010 12:52
Instrument ID: ic120.i
Client ID:
Compound Name: Phosphate
CAS #: Q551
Report Date: 07/07/2010



Original Integration



Manual Integration

Manually Integrated By: lic
Manual Integration Reason: Unknown

Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0005.d
Lab Smp Id: CAL 2
Inj Date : 07-JUL-2010 13:08
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0331
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 12:52 Cal File: 0004.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

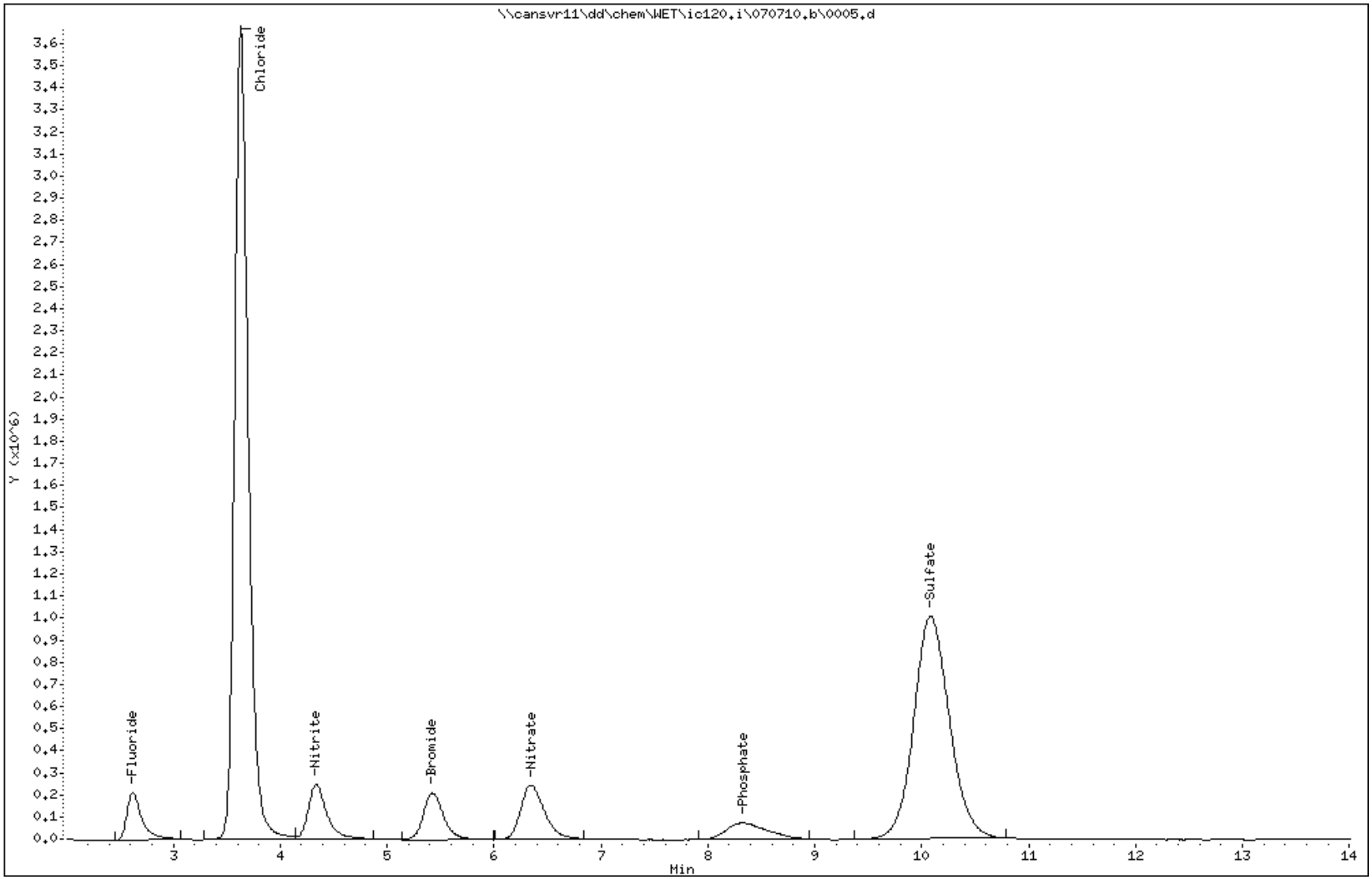
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.625	2.625	0.000	213561	0.25000	0.2253
2 Chloride	3.633	3.633	0.000	32983794	5.00000	4.096
3 Nitrite	4.333	4.333	0.000	2979804	0.25000	0.2318
4 Bromide	5.425	5.425	0.000	2796529	1.00000	0.9828
5 Nitrate	6.350	6.350	0.000	3732637	0.25000	0.2318
6 Phosphate	8.333	8.333	0.000	73425	0.25000	0.2517
7 Sulfate	10.083	10.083	0.000	23363359	5.00000	4.432

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0005.d
Date : 07-JUL-2010 13:08
Client ID:
Sample Info: IC0331
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

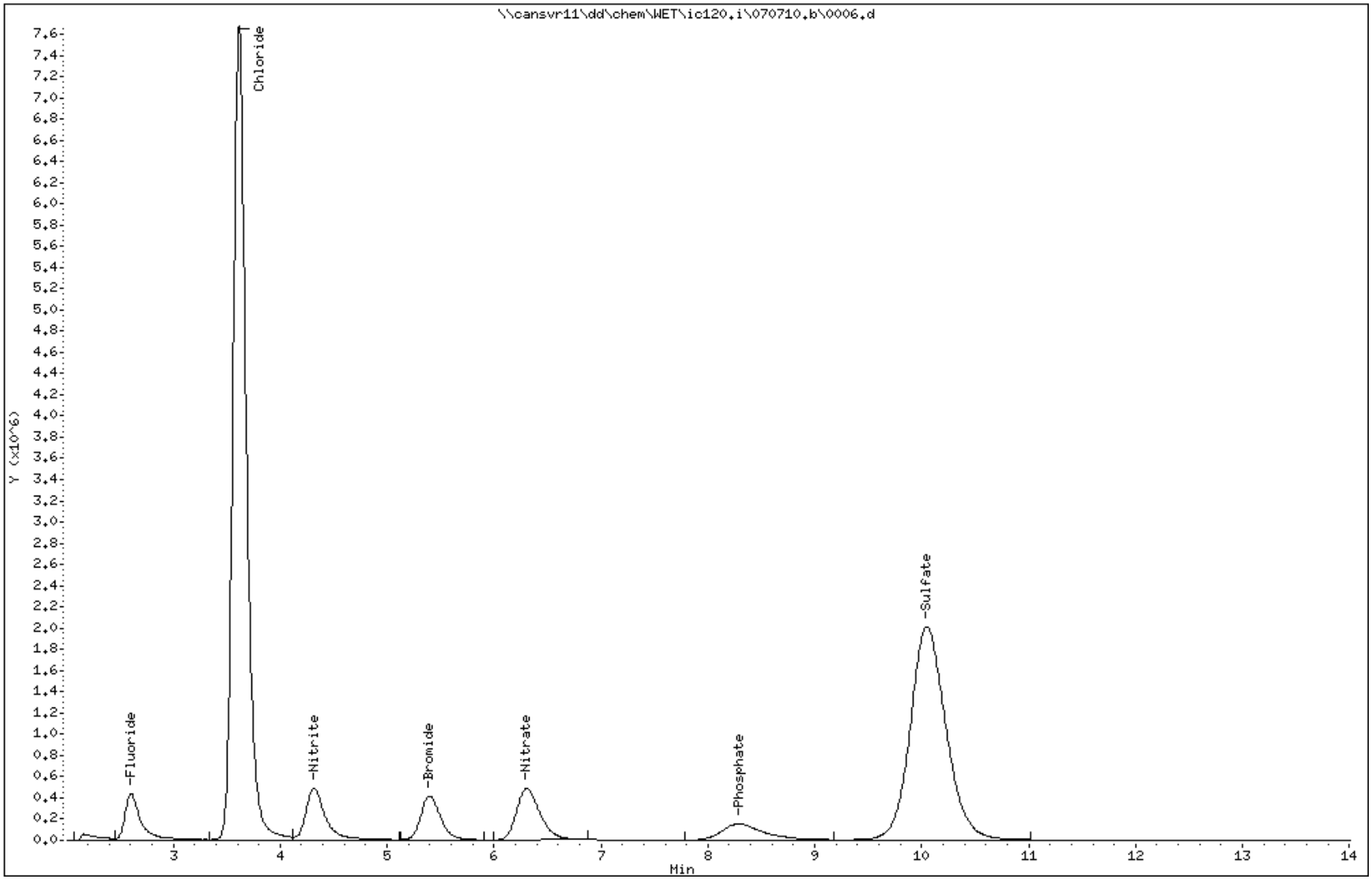
Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0006.d
Lab Smp Id: CAL 3
Inj Date : 07-JUL-2010 13:25
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0330
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:08 Cal File: 0005.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.608	2.608	0.000	439018	0.50000	0.4632
2 Chloride	3.616	3.616	0.000	67488606	10.0000	8.382
3 Nitrite	4.316	4.316	0.000	6246928	0.50000	0.4859
4 Bromide	5.400	5.400	0.000	5286283	2.00000	1.858
5 Nitrate	6.308	6.308	0.000	7407271	0.50000	0.4601
6 Phosphate	8.291	8.291	0.000	151121	0.50000	0.5158
7 Sulfate	10.050	10.050	0.000	46706761	10.0000	8.860

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0006.d
Date : 07-JUL-2010 13:25
Client ID:
Instrument: ic120.i
Sample Info: IC0330
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

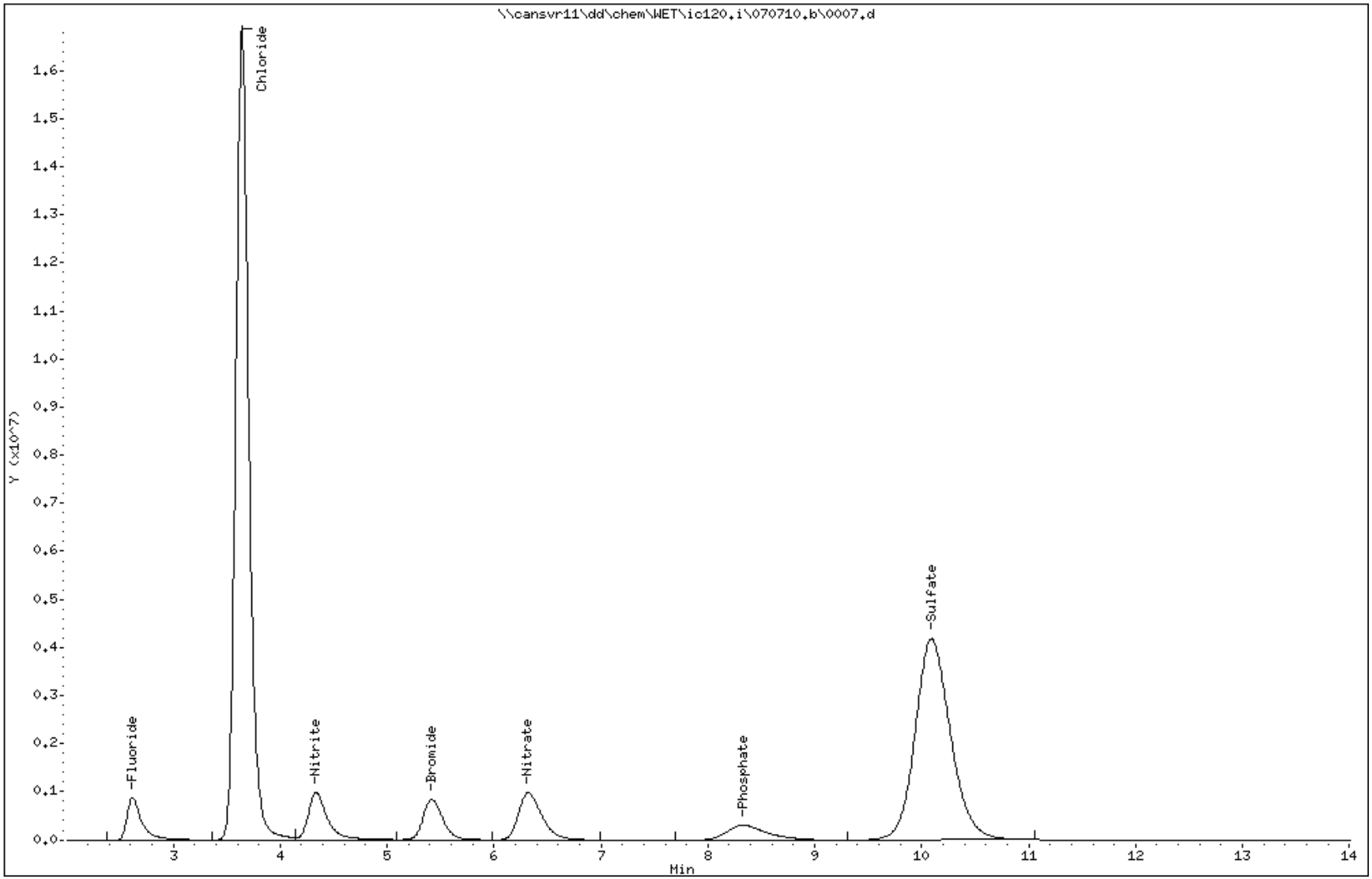
Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0007.d
Lab Smp Id: CAL 4
Inj Date : 07-JUL-2010 13:41
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0329
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:25 Cal File: 0006.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.616	0.000	884284	1.00000	0.9329
2 Chloride	3.641	3.641	0.000	146297906	20.0000	18.17
3 Nitrite	4.333	4.333	0.000	12568694	1.00000	0.9776
4 Bromide	5.416	5.416	0.000	10882433	4.00000	3.824
5 Nitrate	6.316	6.316	0.000	15157385	1.00000	0.9414
6 Phosphate	8.333	8.333	0.000	314418	1.00000	1.063
7 Sulfate	10.091	10.091	0.000	96115611	20.0000	18.23

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0007.d
Date : 07-JUL-2010 13:41
Client ID:
Instrument: ic120.i
Sample Info: IC0329
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

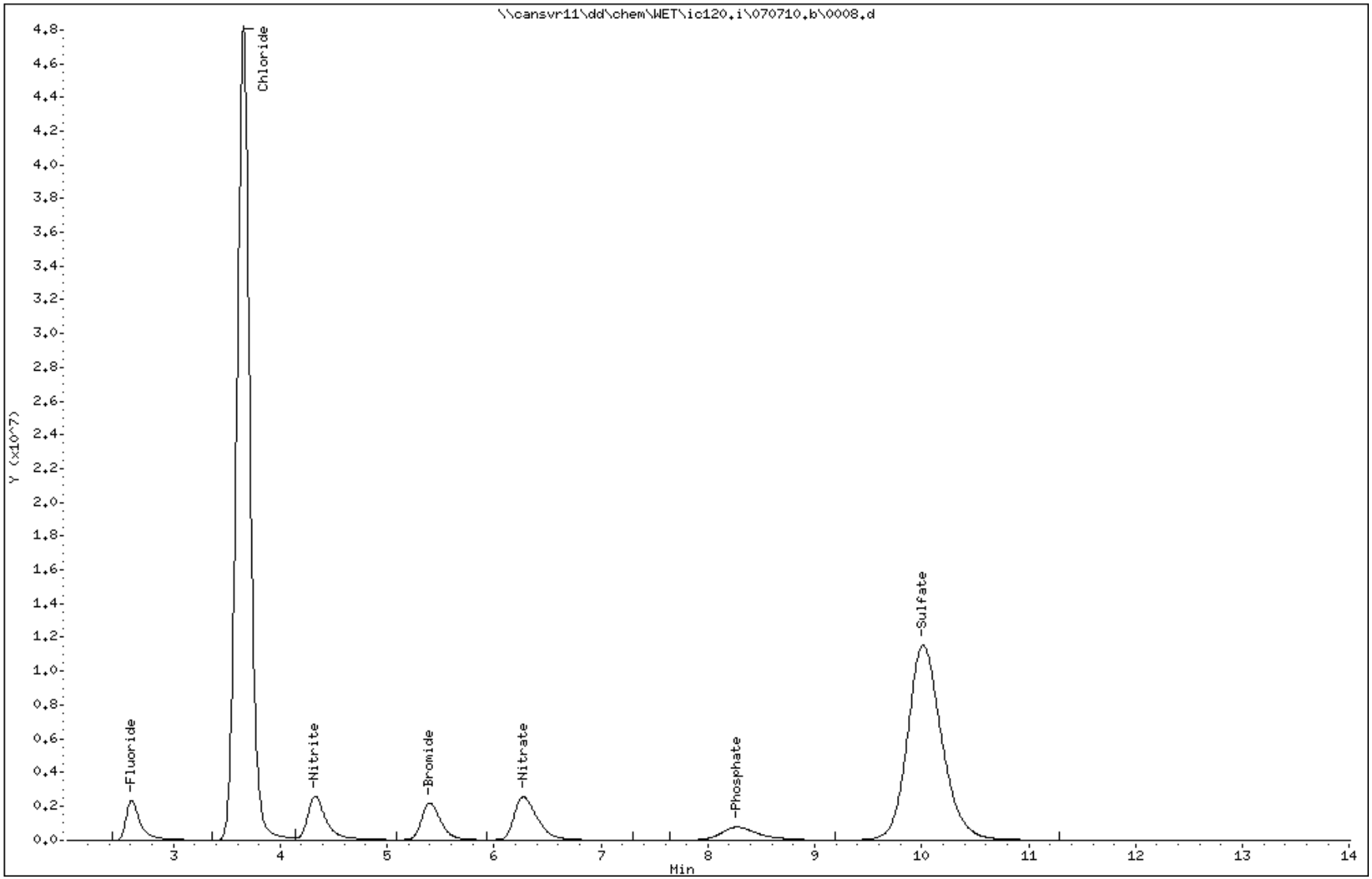
Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0008.d
Lab Smp Id: CAL 5
Inj Date : 07-JUL-2010 13:58
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0328
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:41 Cal File: 0007.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.608	2.608	0.000	2363699	2.50000	2.494
2 Chloride	3.658	3.658	0.000	418701089	50.0000	52.00
3 Nitrite	4.325	4.325	0.000	33037881	2.50000	2.570
4 Bromide	5.400	5.400	0.000	28510798	10.0000	10.02
5 Nitrate	6.275	6.275	0.000	39554244	2.50000	2.457
6 Phosphate	8.275	8.275	0.000	774597	2.50000	2.549
7 Sulfate	10.008	10.008	0.000	258343509	50.0000	49.00

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0008.d
Date : 07-JUL-2010 13:58
Client ID:
Instrument: ic120.i
Sample Info: IC0328
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0009.d
Lab Smp Id: CAL 6
Inj Date : 07-JUL-2010 14:14
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0327
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 13:58 Cal File: 0008.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

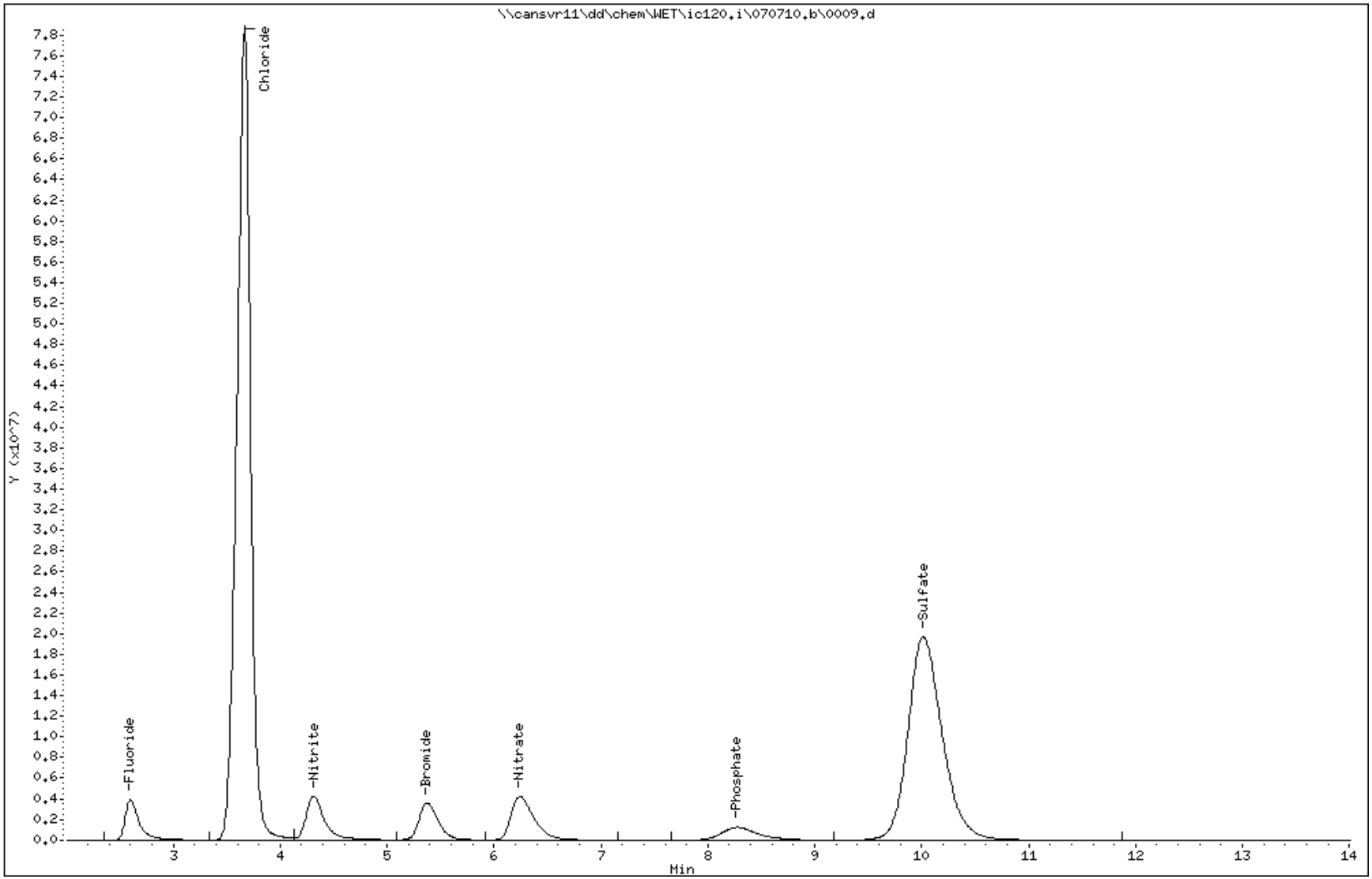
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.600	2.600	0.000	3916818	4.00000	4.132
2 Chloride	3.666	3.666	0.000	708661681	80.0000	88.02
3 Nitrite	4.316	4.316	0.000	53372546	4.00000	4.152
4 Bromide	5.375	5.375	0.000	46298496	16.0000	16.27
5 Nitrate	6.241	6.241	0.000	64670621	4.00000	4.017
6 Phosphate	8.275	8.275	0.000	1254441	4.00000	4.011
7 Sulfate	10.016	10.016	0.000	439949712	80.0000	83.45

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0009.d
Date : 07-JUL-2010 14:14
Client ID:
Sample Info: IC0327
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0010.d
Lab Smp Id: CAL 7
Inj Date : 07-JUL-2010 14:30
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0326
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 14:14 Cal File: 0009.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

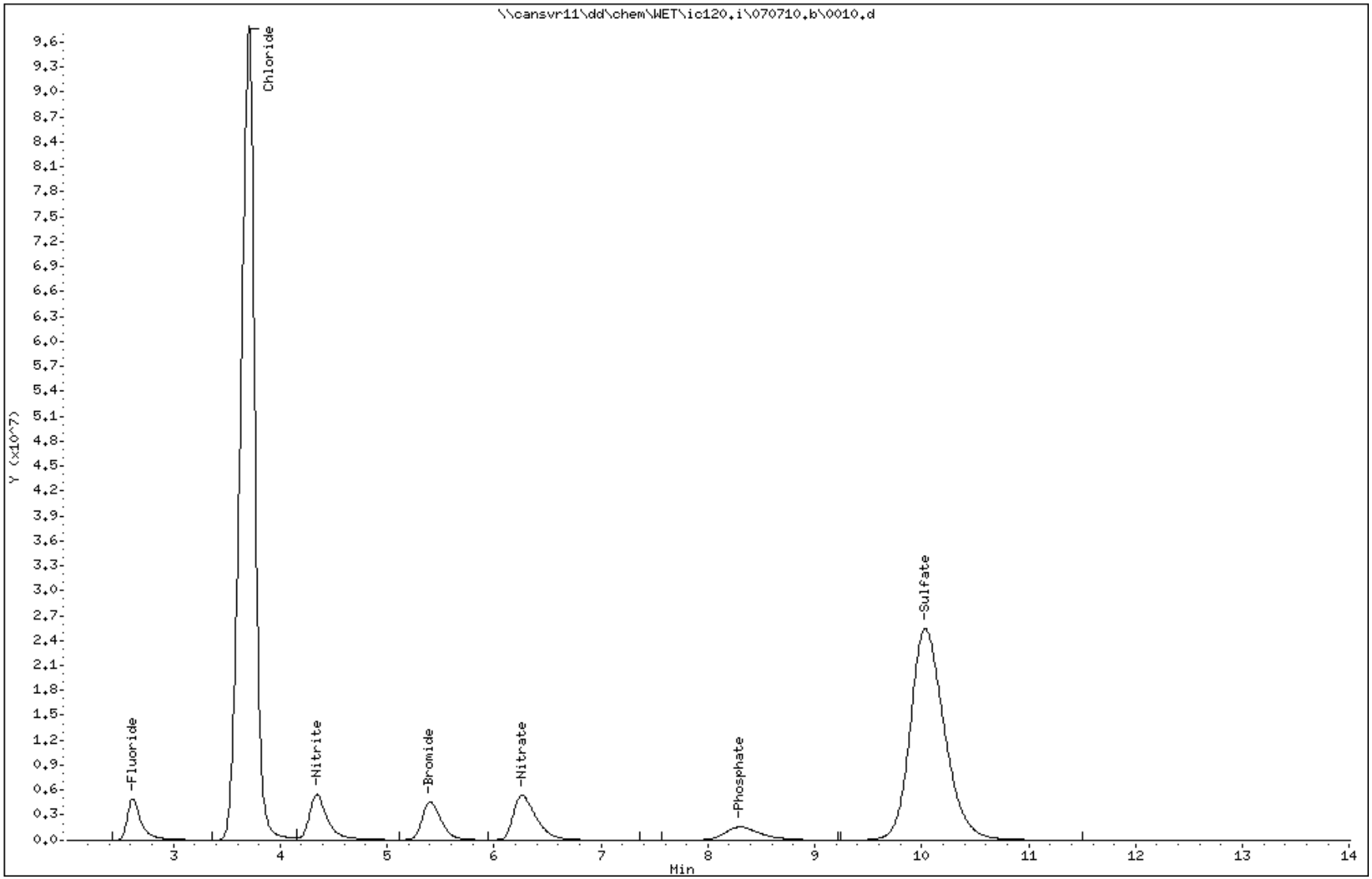
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.625	2.625	0.000	4977606	5.00000	5.251
2 Chloride	3.708	3.708	0.000	911510480	100.000	113.2
3 Nitrite	4.341	4.341	0.000	68064365	5.00000	5.294
4 Bromide	5.400	5.400	0.000	58864501	20.0000	20.69
5 Nitrate	6.258	6.258	0.000	82445834	5.00000	5.121
6 Phosphate	8.300	8.300	0.000	1590391	5.00000	4.980
7 Sulfate	10.033	10.033	0.000	566695874	100.000	107.5

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0010.d
Date : 07-JUL-2010 14:30
Client ID:
Sample Info: IC0326
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0011.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0011.d
Lab Smp Id: CAL 8
Inj Date : 07-JUL-2010 14:47
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0325
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 14:30 Cal File: 0010.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

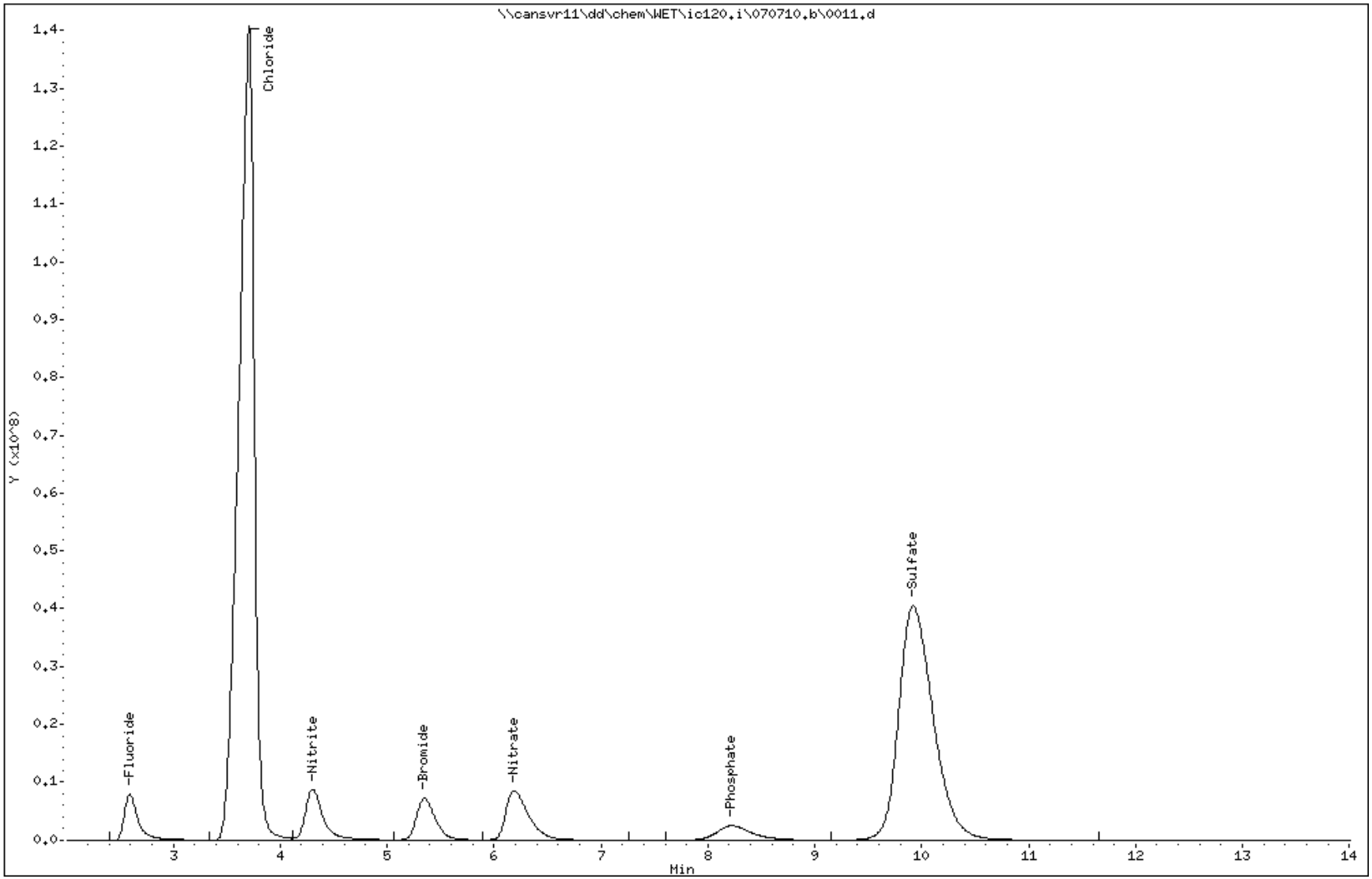
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	7986925	7.50000	8.426
2 Chloride	3.708	3.708	0.000	1427349574	150.000	177.3
3 Nitrite	4.308	4.308	0.000	103601829	7.50000	8.059
4 Bromide	5.350	5.350	0.000	89035396	30.0000	31.29
5 Nitrate	6.191	6.191	0.000	126200265	7.50000	7.838
6 Phosphate	8.225	8.225	0.000	2521439	7.50000	7.437
7 Sulfate	9.925	9.925	0.000	910288772	150.000	172.7

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0011.d
Date : 07-JUL-2010 14:47
Client ID:
Sample Info: IC0325
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\070710.b\0012.d
Report Date: 08-Jul-2010 09:28

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\070710.b\0012.d
Lab Smp Id: CAL9
Inj Date : 07-JUL-2010 15:03
Operator : 001754 Inst ID: ic120.i
Smp Info : IC0324
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\070710.b\DX120.m
Meth Date : 08-Jul-2010 09:28 ic120.i Quant Type: ESTD
Cal Date : 07-JUL-2010 14:47 Cal File: 0011.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

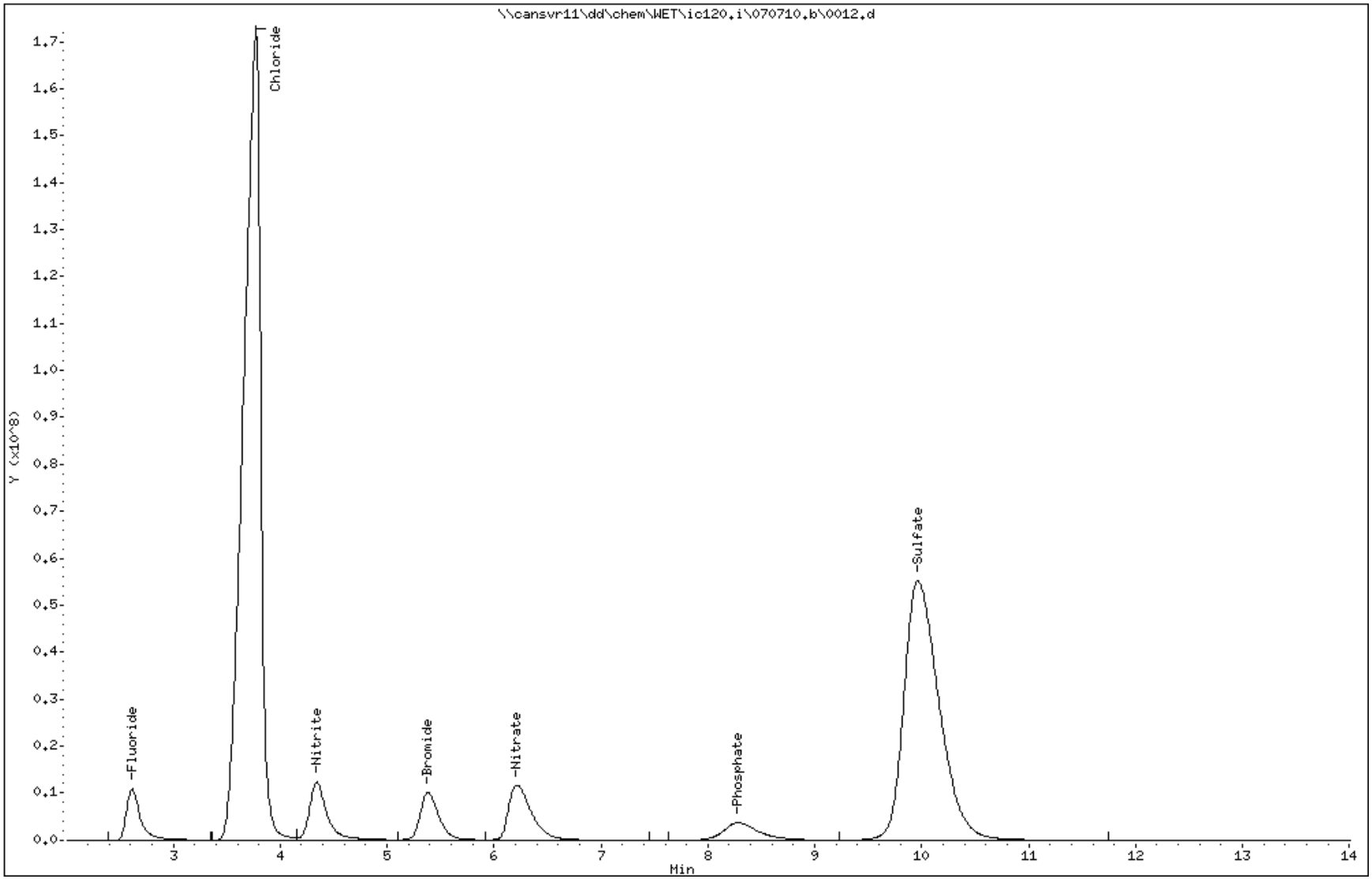
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.616	2.616	0.000	10924112	10.0000	11.52(A)
2 Chloride	3.775	3.775	0.000	1944716861	200.000	241.5(A)
3 Nitrite	4.341	4.341	0.000	144268622	10.0000	11.22(A)
4 Bromide	5.383	5.383	0.000	125641377	40.0000	44.15(A)
5 Nitrate	6.216	6.216	0.000	177415257	10.0000	11.02(A)
6 Phosphate	8.283	8.283	0.000	3684311	10.0000	10.03(A)
7 Sulfate	9.966	9.966	0.000	1263940876	200.000	239.8(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\070710.b\0012.d
Date : 07-JUL-2010 15:03
Client ID:
Sample Info: IC0324
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0001.d
Report Date: 23-Jul-2010 11:50

TestAmerica North Canton

ION CHROMATOGRAPHY

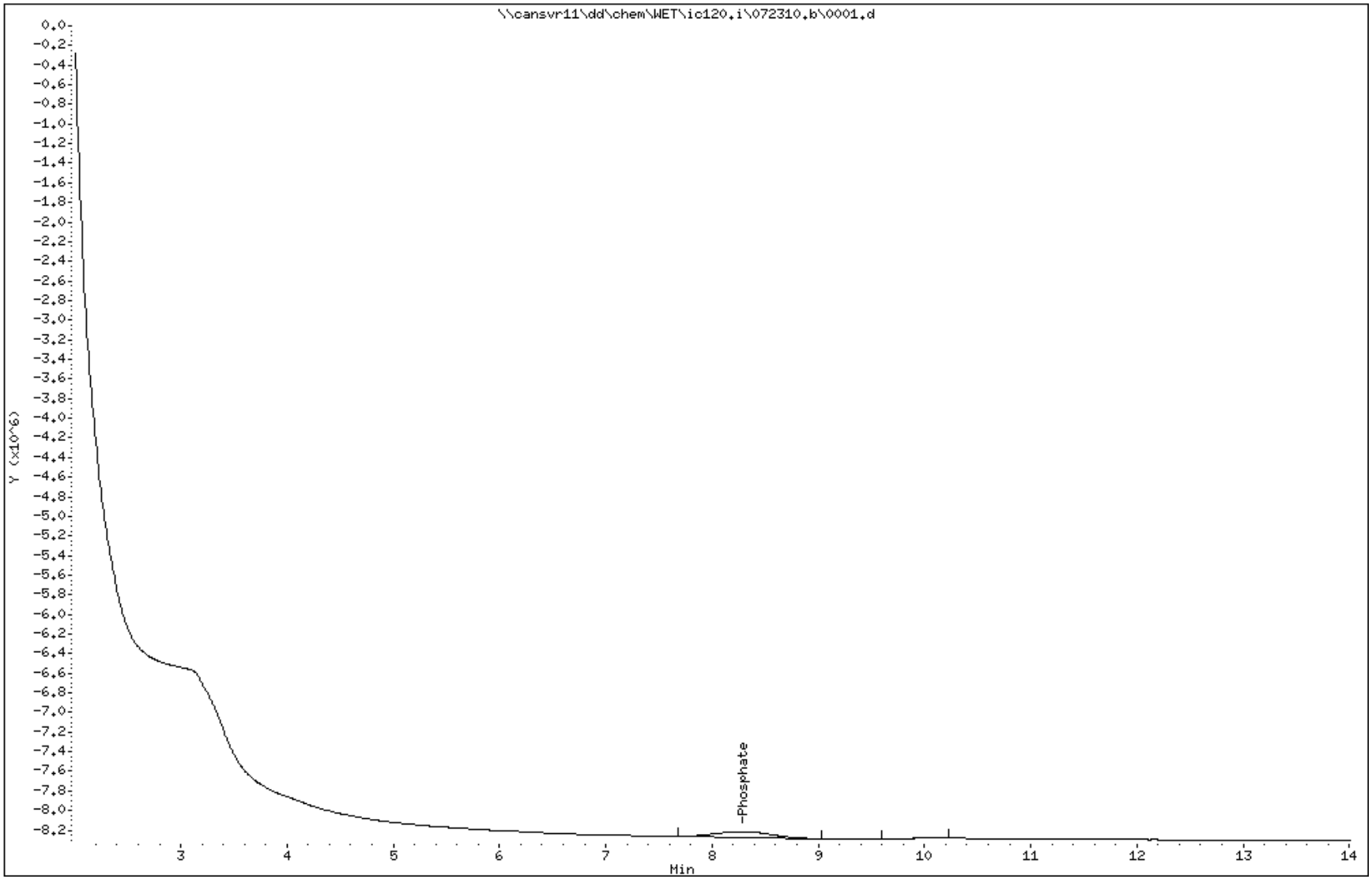
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0001.d
Lab Smp Id: CE
Inj Date : 23-JUL-2010 09:30
Operator : 001754 Inst ID: ic120.i
Smp Info : CE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 08-Jul-2010 09:28 Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.291	8.300	-0.009	61295	0.21027	0.2103
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0001.d
Date : 23-JUL-2010 09:30
Client ID:
Instrument: ic120.i
Sample Info: CE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0002.d
Report Date: 23-Jul-2010 11:50

TestAmerica North Canton

ION CHROMATOGRAPHY

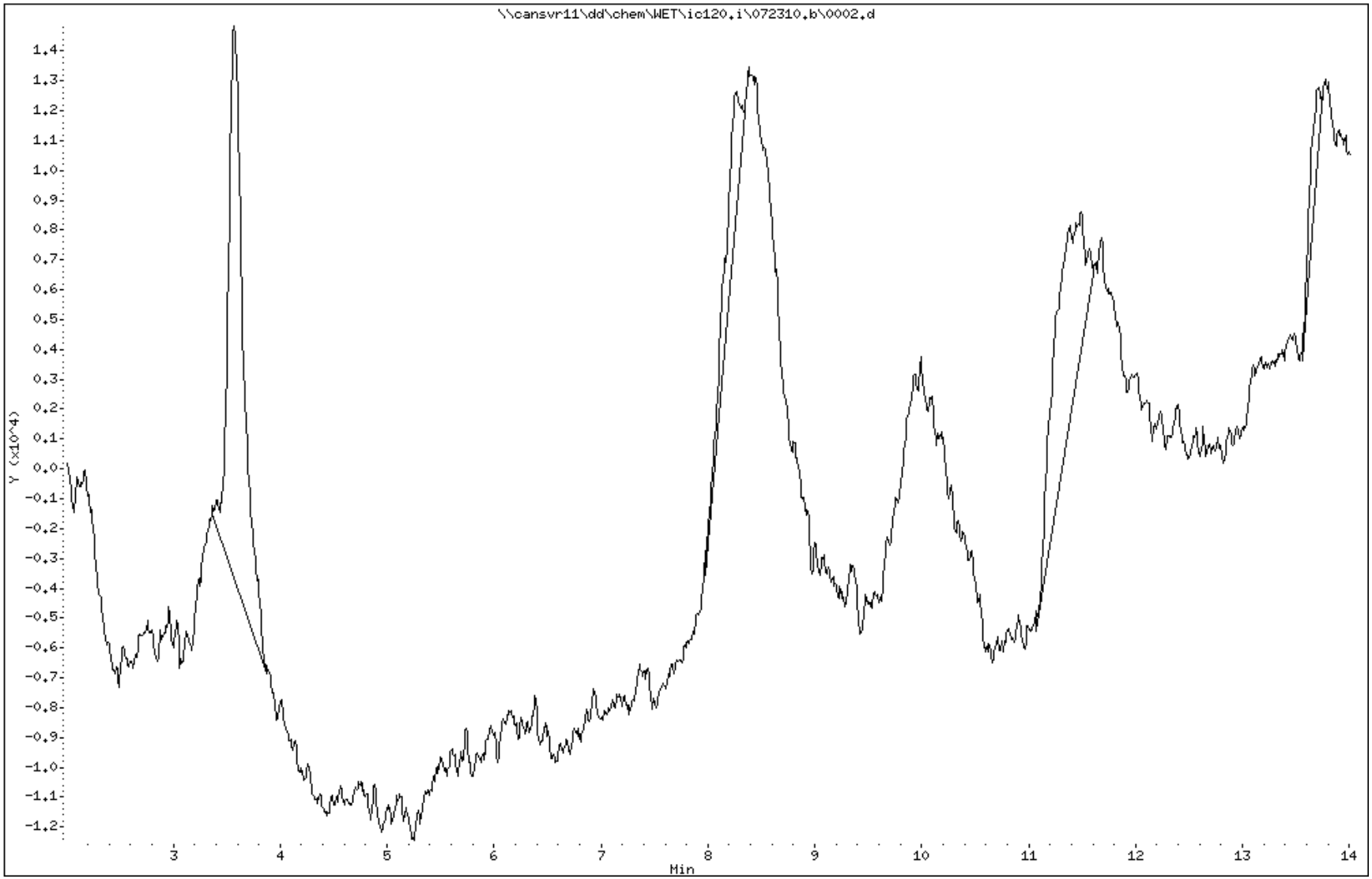
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0002.d
Lab Smp Id: RINSE
Inj Date : 23-JUL-2010 09:47
Operator : 001754 Inst ID: ic120.i
Smp Info : RINSE
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 08-Jul-2010 09:28 Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0002.d
Date : 23-JUL-2010 09:47
Client ID:
Instrument: ic120.i
Sample Info: RINSE
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0003.d
Report Date: 23-Jul-2010 11:50

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 23-JUL-2010 10:03
Lab File ID: 0003.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	898574	898574	0.010	5.20042	10.00000	Averaged
2 Chloride	8051545	8502023	8502023	0.010	-5.59493	10.00000	Averaged
3 Nitrite	12855941	12832127	12832127	0.010	0.18524	10.00000	Averaged
4 Bromide	2845563	2786308	2786308	0.010	2.08236	10.00000	Averaged
5 Nitrate	16099942	15639258	15639258	0.010	2.86141	10.00000	Averaged
6 Phosphate	2.50000	2.42221	293698	0.010	3.11155	10.00000	Quadratic
7 Sulfate	5271827	5266326	5266326	0.010	0.10435	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0003.d
Report Date: 23-Jul-2010 11:50

TestAmerica North Canton

ION CHROMATOGRAPHY

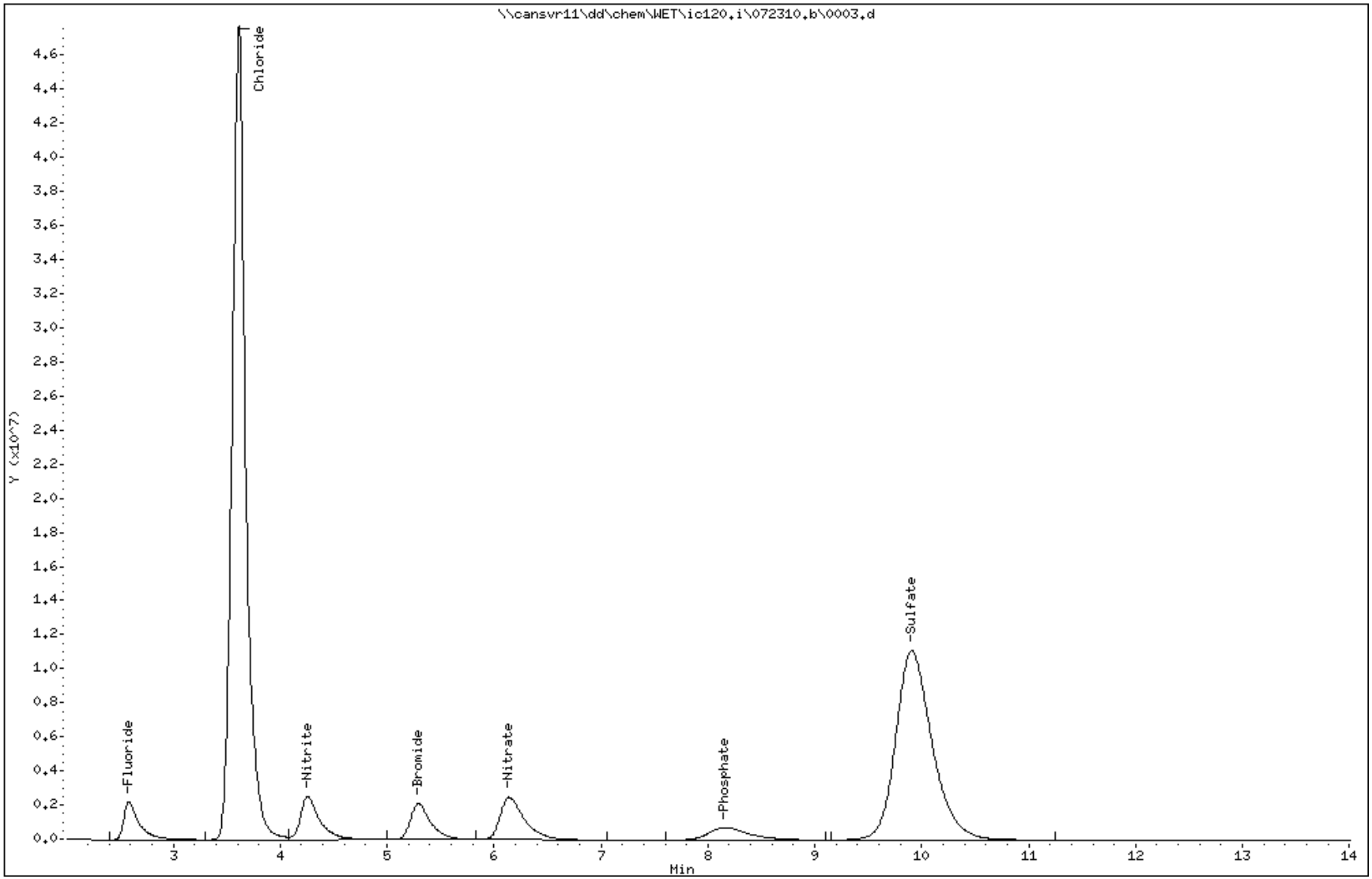
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0003.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 10:03
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.583	2.583	0.000	2246435	2.50000	2.370
2 Chloride	3.616	3.616	0.000	425101174	50.0000	52.80
3 Nitrite	4.258	4.258	0.000	32080317	2.50000	2.495
4 Bromide	5.291	5.291	0.000	27863080	10.0000	9.792
5 Nitrate	6.141	6.141	0.000	39098144	2.50000	2.428
6 Phosphate	8.158	8.158	0.000	734246	2.50000	2.422
7 Sulfate	9.908	9.908	0.000	263316284	50.0000	49.95

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0003.d
Date : 23-JUL-2010 10:03
Client ID:
Instrument: ic120.i
Sample Info: CCV,,2
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0004.d
Report Date: 23-Jul-2010 11:50

TestAmerica North Canton

ION CHROMATOGRAPHY

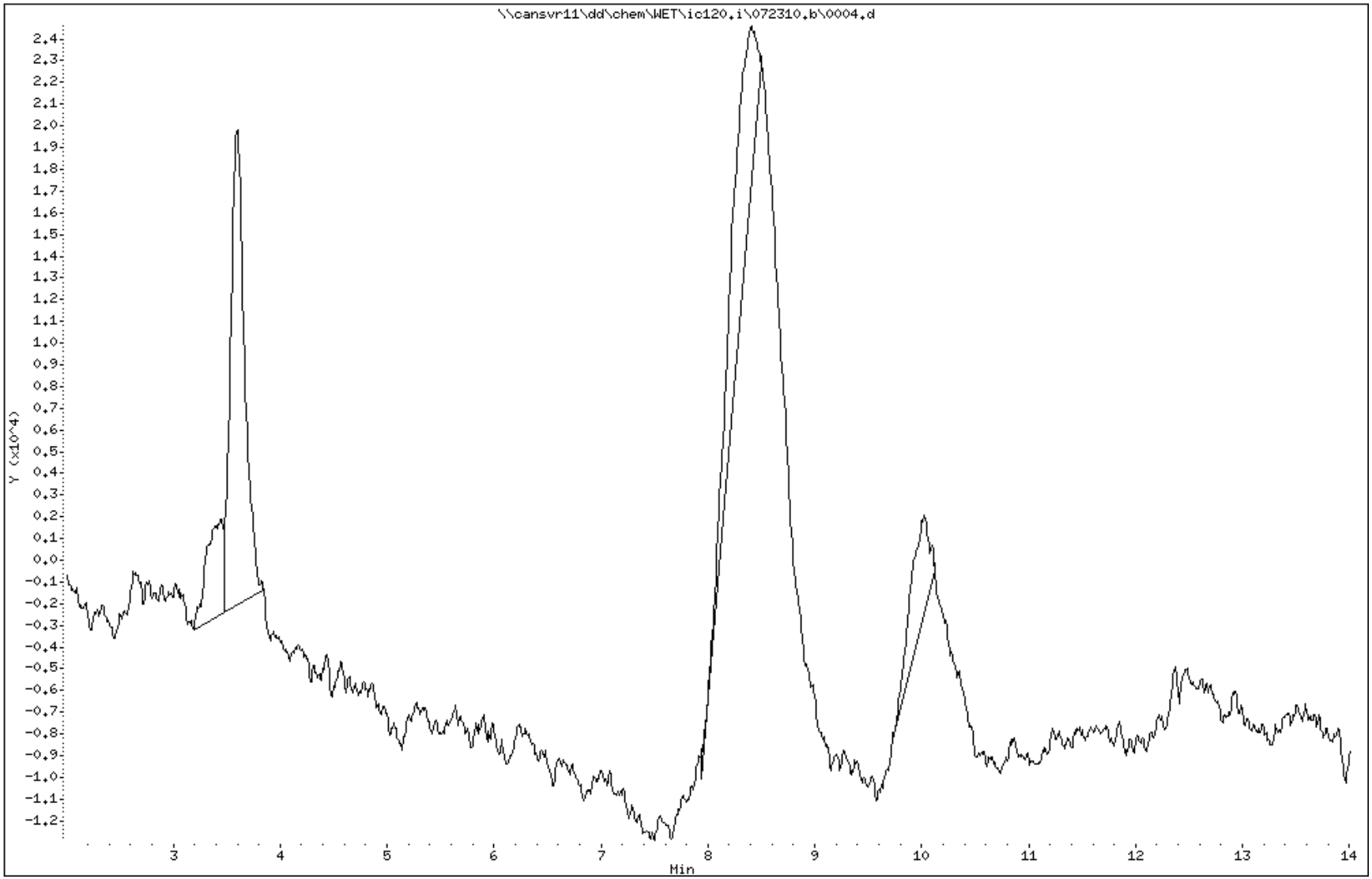
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0004.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 10:19
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0004.d
Date : 23-JUL-2010 10:19
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0005.d
Report Date: 23-Jul-2010 11:50

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0005.d
Lab Smp Id: LCS
Inj Date : 23-JUL-2010 10:36
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

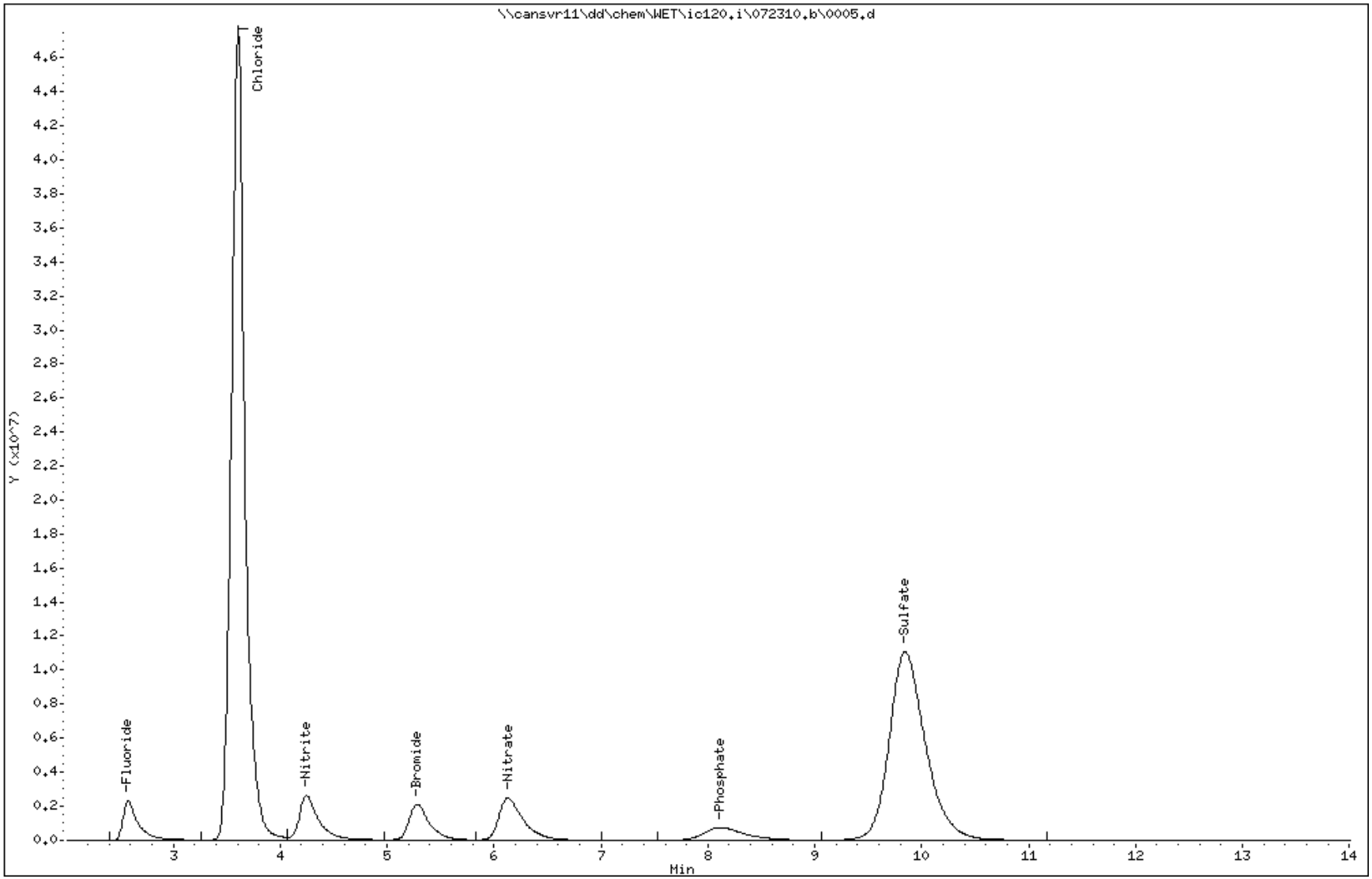
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.575	2.583	-0.008	2297945	2.42433	2.424
2 Chloride	3.608	3.616	-0.008	422488044	52.4729	52.47
3 Nitrite	4.250	4.258	-0.008	32979896	2.56534	2.565
4 Bromide	5.283	5.291	-0.008	27433139	9.64067	9.641
5 Nitrate	6.133	6.141	-0.008	38847043	2.41287	2.413
6 Phosphate	8.116	8.158	-0.042	756457	2.49220	2.492
7 Sulfate	9.841	9.908	-0.067	261376554	49.5799	49.58

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0005.d
Date : 23-JUL-2010 10:36
Client ID:
Sample Info: LCS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0006.d
Report Date: 23-Jul-2010 11:50

TestAmerica North Canton

ION CHROMATOGRAPHY

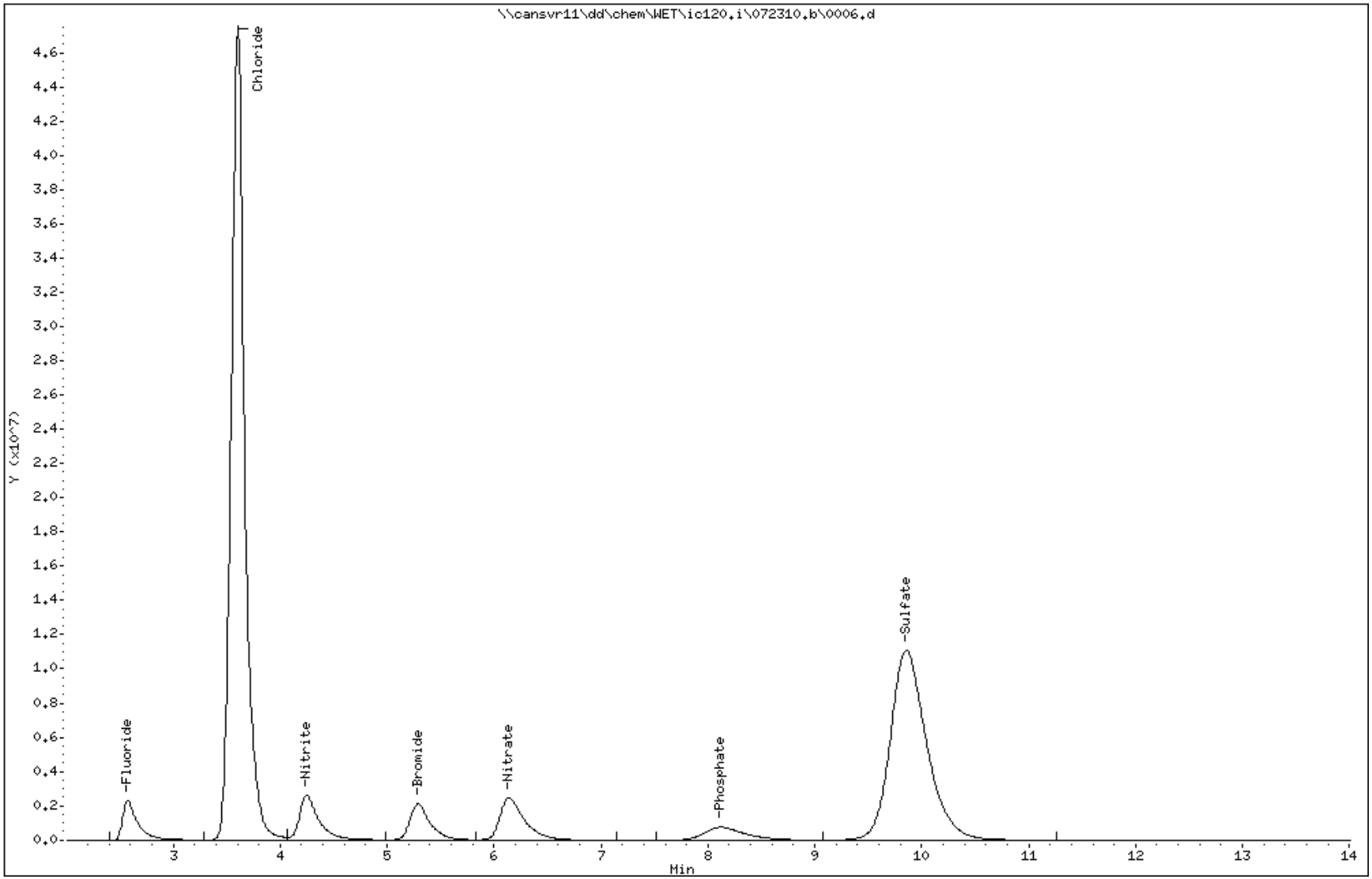
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0006.d
Lab Smp Id: LCS DUP
Inj Date : 23-JUL-2010 10:52
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS DUP,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.575	2.583	-0.008	2325812	2.45373	2.454
2 Chloride	3.600	3.616	-0.016	422514459	52.4762	52.48
3 Nitrite	4.250	4.258	-0.008	33106417	2.57518	2.575
4 Bromide	5.291	5.291	0.000	27439476	9.64290	9.643
5 Nitrate	6.141	6.141	0.000	39140779	2.43111	2.431
6 Phosphate	8.116	8.158	-0.042	763175	2.51333	2.513
7 Sulfate	9.858	9.908	-0.050	262605969	49.8131	49.81

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0006.d
Date : 23-JUL-2010 10:52
Client ID:
Instrument: ic120.i
Sample Info: LCS DUP,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0007.d
Report Date: 23-Jul-2010 13:48

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0007.d
Lab Smp Id: L30R5
Inj Date : 23-JUL-2010 11:09
Operator : 001754 Inst ID: ic120.i
Smp Info : L30R5,5
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

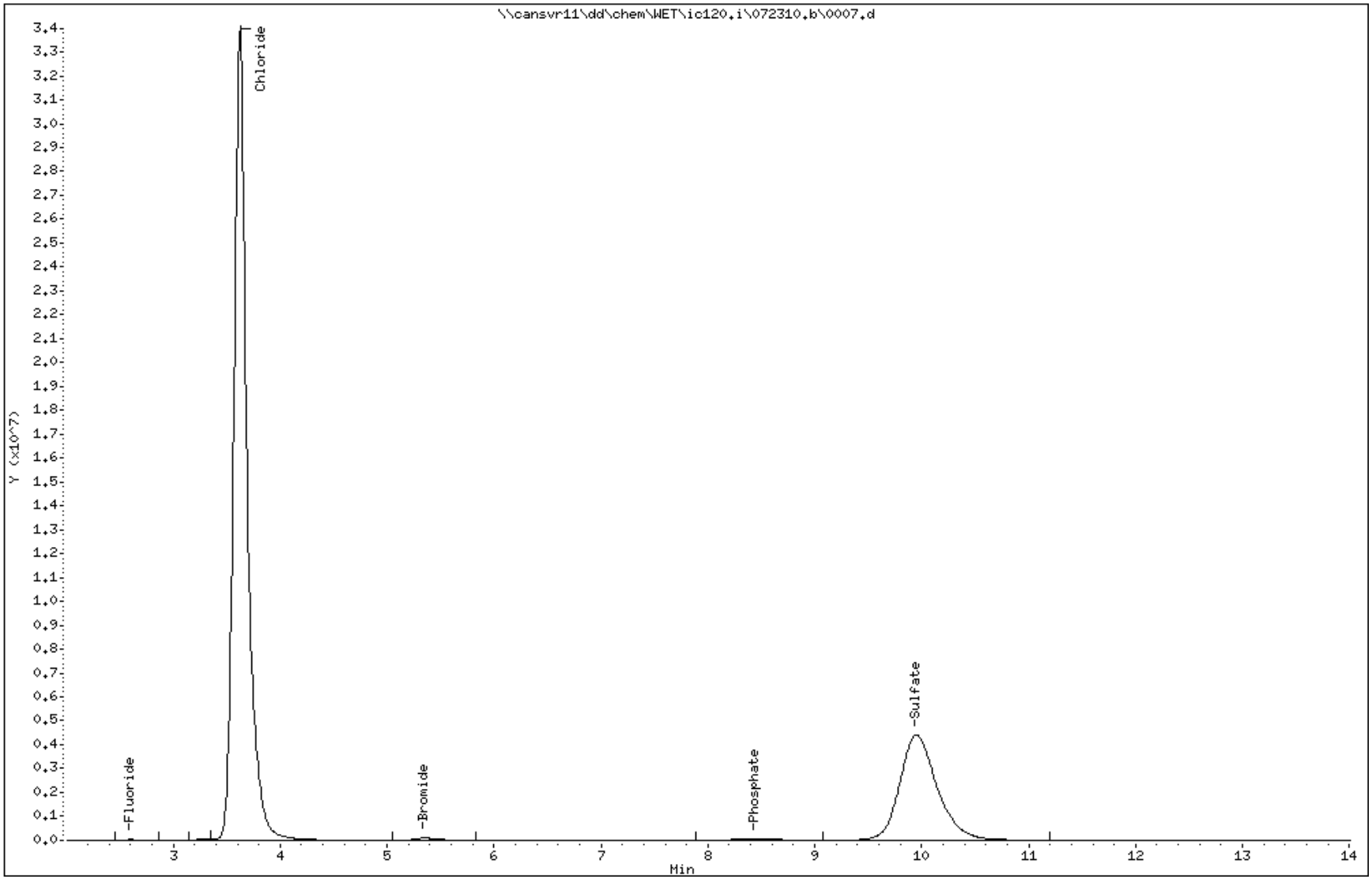
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.600	2.583	0.017	26317		0.02776	0.1388(a)
2 Chloride	3.625	3.616	0.009	296829119		36.8661	184.3
3 Nitrite	Compound Not Detected.						
4 Bromide	5.350	5.291	0.059	1331214		0.46782	2.339
5 Nitrate	Compound Not Detected.						
6 Phosphate	8.441	8.158	0.283	44485		0.15275	0.7638
7 Sulfate	9.950	9.908	0.042	107509546		20.3932	102.0

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0007.d
Date : 23-JUL-2010 11:09
Client ID:
Sample Info: L30R5,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0008.d
Report Date: 23-Jul-2010 13:48

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0008.d
Lab Smp Id: L38D0
Inj Date : 23-JUL-2010 11:25
Operator : 001754 Inst ID: ic120.i
Smp Info : L38D0
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

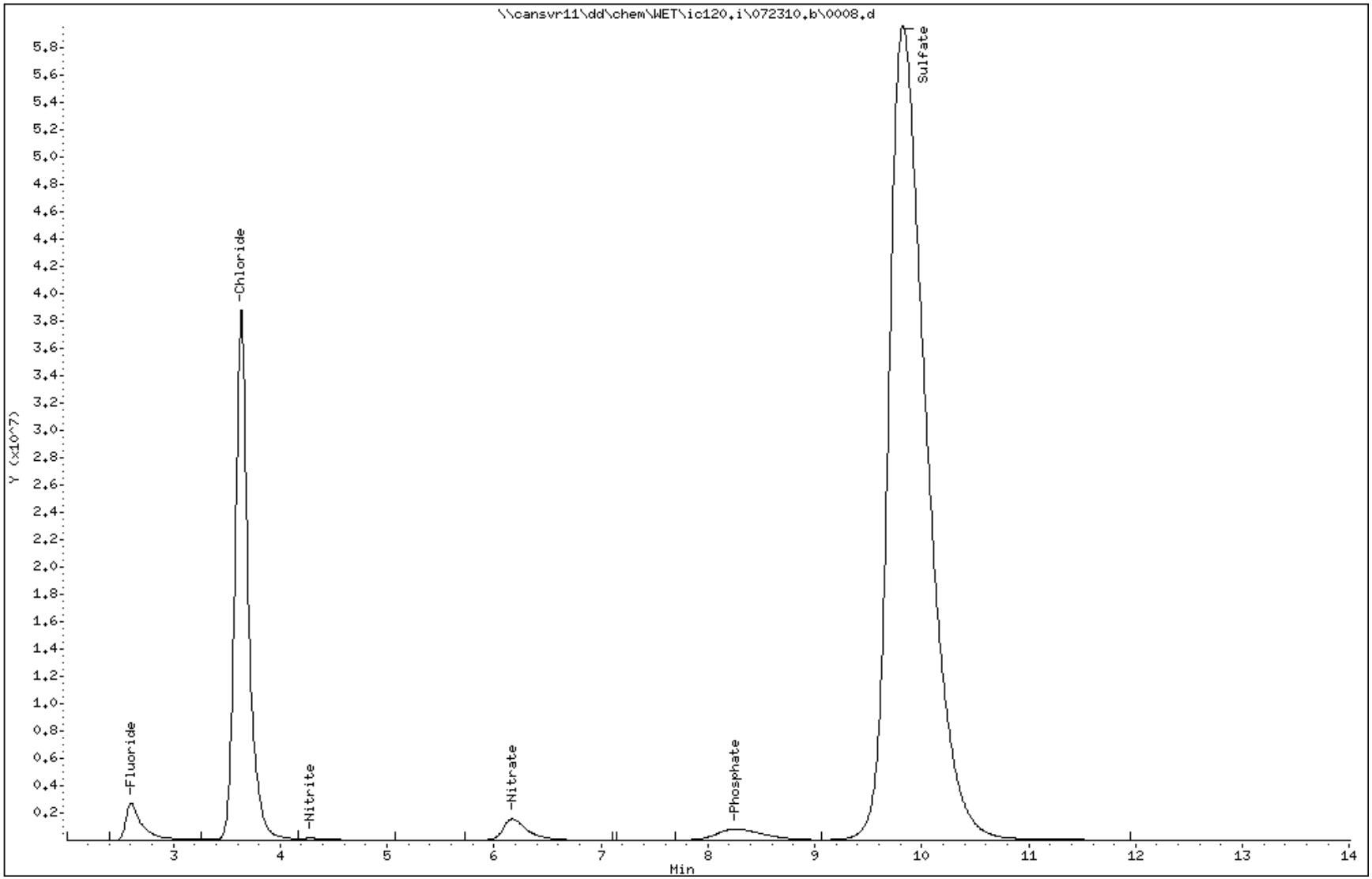
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.608	2.583	0.025	2730824	2.88102	2.881
2 Chloride	3.633	3.616	0.017	339299773	42.1410	42.14
3 Nitrite	4.283	4.258	0.025	2448973	0.19049	0.1905
4 Bromide	Compound Not Detected.					
5 Nitrate	6.175	6.141	0.034	24543198	1.52443	1.524
6 Phosphate	8.258	8.158	0.100	805391	2.64571	2.646
7 Sulfate	9.825	9.908	-0.083	1445778716	274.246	274.2(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0008.d
Date : 23-JUL-2010 11:25
Client ID:
Sample Info: L38D0
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0009.d
Report Date: 23-Jul-2010 13:48

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0009.d
Lab Smp Id: L38DD ORG
Inj Date : 23-JUL-2010 11:41
Operator : 001754 Inst ID: ic120.i
Smp Info : L38DD ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

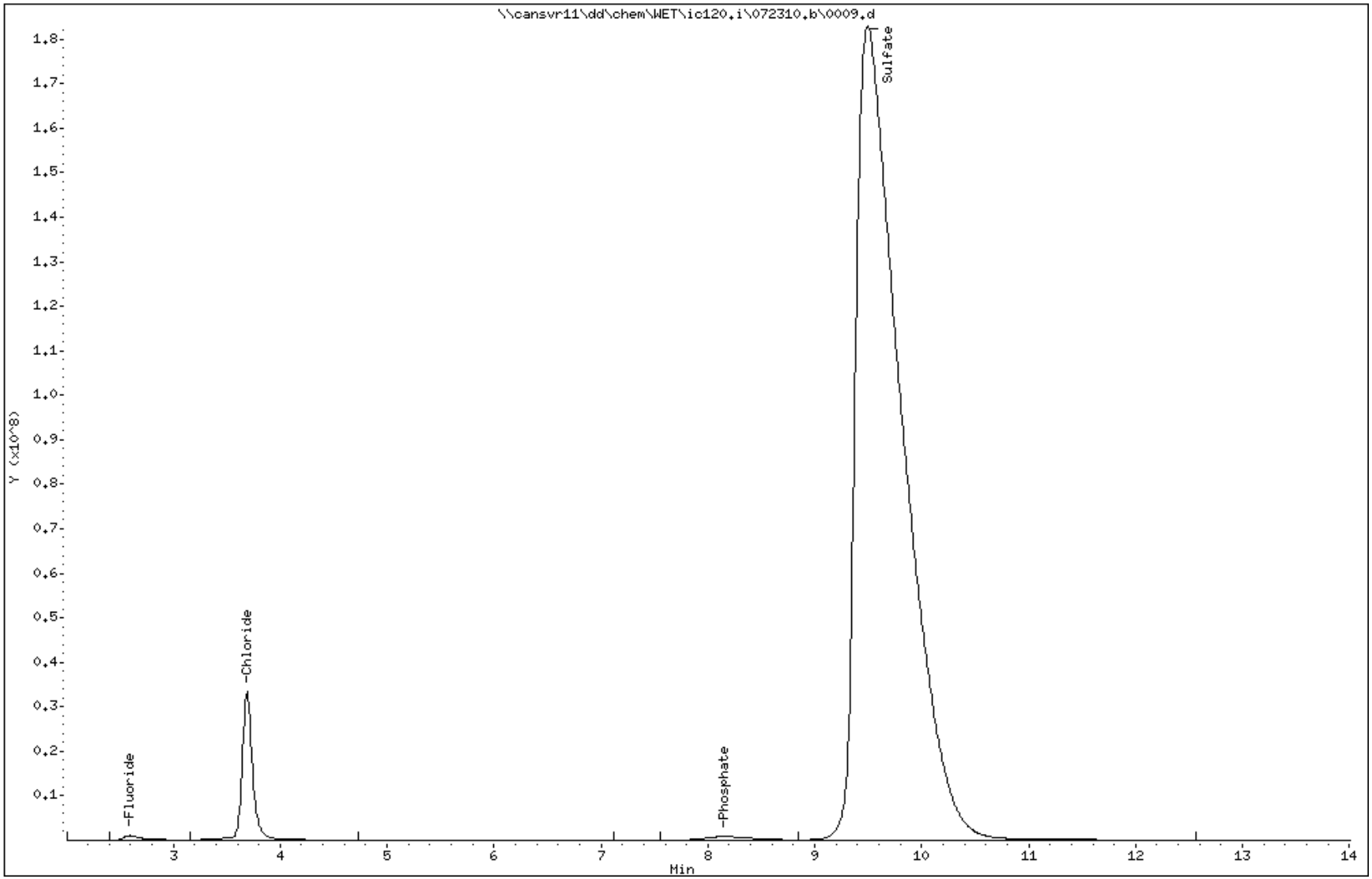
						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.591	2.583	0.008	1056152		1.11424	1.114
2 Chloride	3.691	3.616	0.075	229348401		28.4850	28.48
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	8.150	8.158	-0.008	753398		2.48257	2.482
7 Sulfate	9.491	9.908	-0.417	5470997551		1037.78	1038(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0009.d
Date : 23-JUL-2010 11:41
Client ID:
Sample Info: L38DD ORG
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0010.d
Report Date: 23-Jul-2010 13:50

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0010.d
Lab Smp Id: L38DD MS
Inj Date : 23-JUL-2010 11:58
Operator : 001754 Inst ID: ic120.i
Smp Info : L38DD MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 11:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

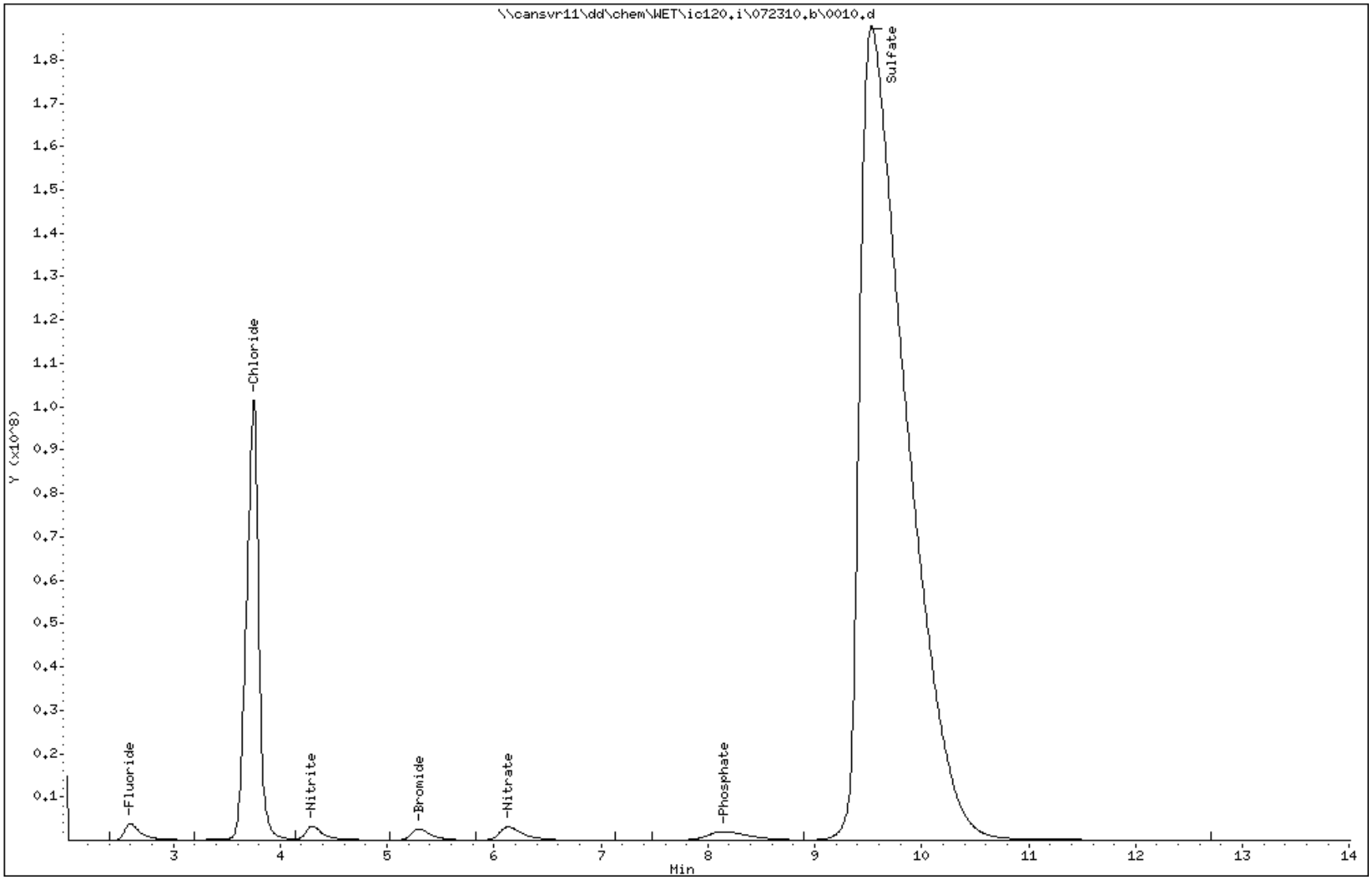
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.600	2.583	0.017	3902119	4.11674	4.117(R)
2 Chloride	3.758	3.616	0.142	809490377	100.539	100.5(R)
3 Nitrite	4.300	4.258	0.042	40510783	3.15113	3.151(R)
4 Bromide	5.300	5.291	0.009	35381133	12.4338	12.43(R)
5 Nitrate	6.133	6.141	-0.008	48796823	3.03087	3.031(R)
6 Phosphate	8.150	8.158	-0.008	2003813	6.11303	6.113(R)
7 Sulfate	9.533	9.908	-0.375	5688495520	1079.04	1079(AR)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0010.d
Date : 23-JUL-2010 11:58
Client ID:
Sample Info: L38DD MS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0011.d
Report Date: 23-Jul-2010 13:50

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 23-JUL-2010 12:14
Lab File ID: 0011.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	954423	954423	0.010	-0.69167	10.00000	Averaged
2 Chloride	8051545	8555003	8555003	0.010	-6.25294	10.00000	Averaged
3 Nitrite	12855941	13020049	13020049	0.010	-1.27651	10.00000	Averaged
4 Bromide	2845563	2765713	2765713	0.010	2.80613	10.00000	Averaged
5 Nitrate	16099942	15788584	15788584	0.010	1.93391	10.00000	Averaged
6 Phosphate	2.50000	2.74580	334983	0.010	-9.83198	10.00000	Quadratic
7 Sulfate	5271827	5310352	5310352	0.010	-0.73078	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0011.d
Report Date: 23-Jul-2010 13:50

TestAmerica North Canton

ION CHROMATOGRAPHY

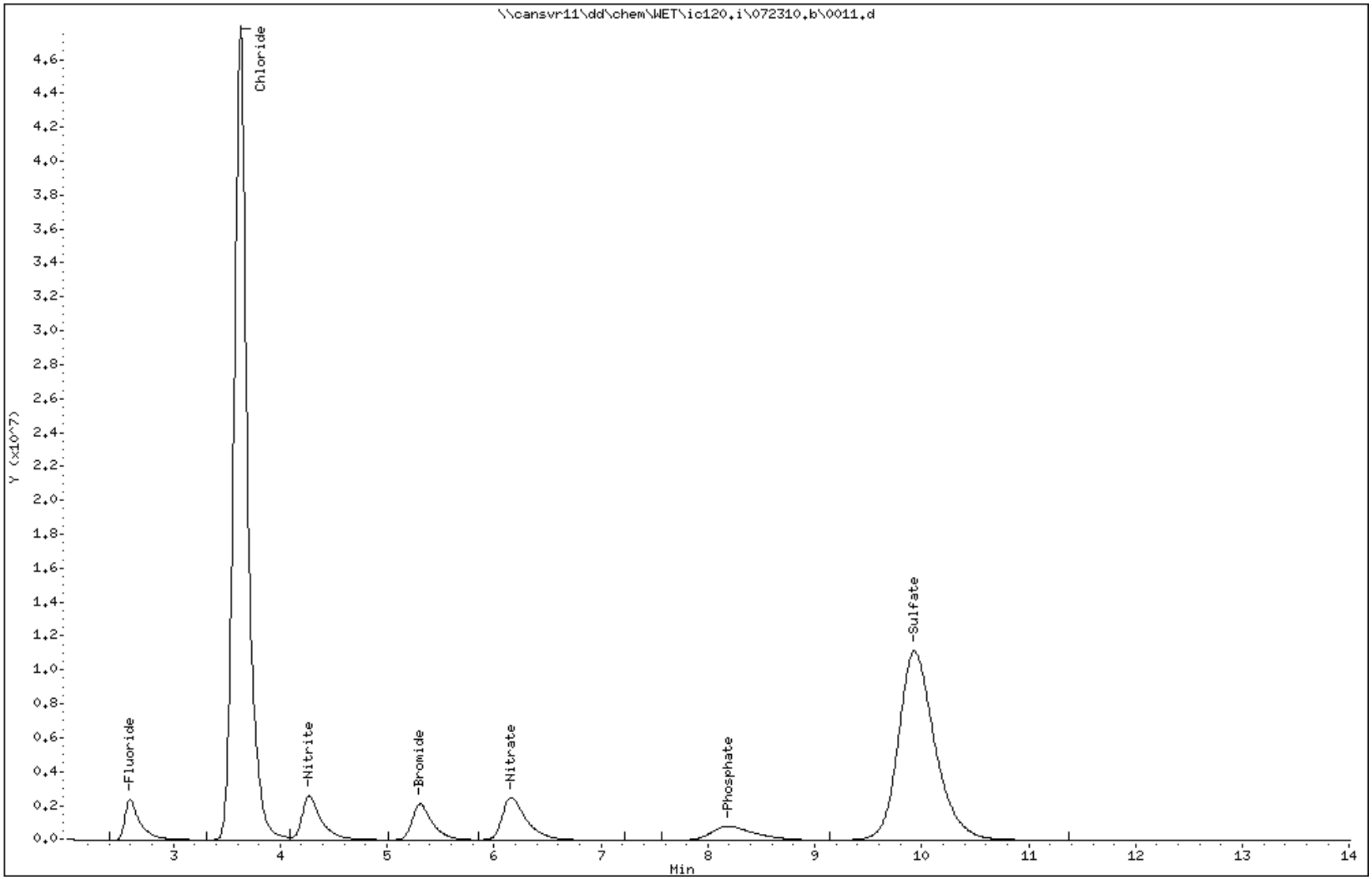
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0011.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 12:14
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 13:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.600	2.600	0.000	2386058	2.50000	2.517
2 Chloride	3.633	3.633	0.000	427750164	50.0000	53.13
3 Nitrite	4.275	4.275	0.000	32550122	2.50000	2.532
4 Bromide	5.308	5.308	0.000	27657127	10.0000	9.719
5 Nitrate	6.158	6.158	0.000	39471459	2.50000	2.452
6 Phosphate	8.191	8.191	0.000	837458	2.50000	2.746
7 Sulfate	9.933	9.933	0.000	265517608	50.0000	50.36

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0011.d
Date : 23-JUL-2010 12:14
Client ID:
Instrument: ic120.i
Sample Info: CCV,,2
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0012.d
Report Date: 23-Jul-2010 13:50

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0012.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 12:31
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 13:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

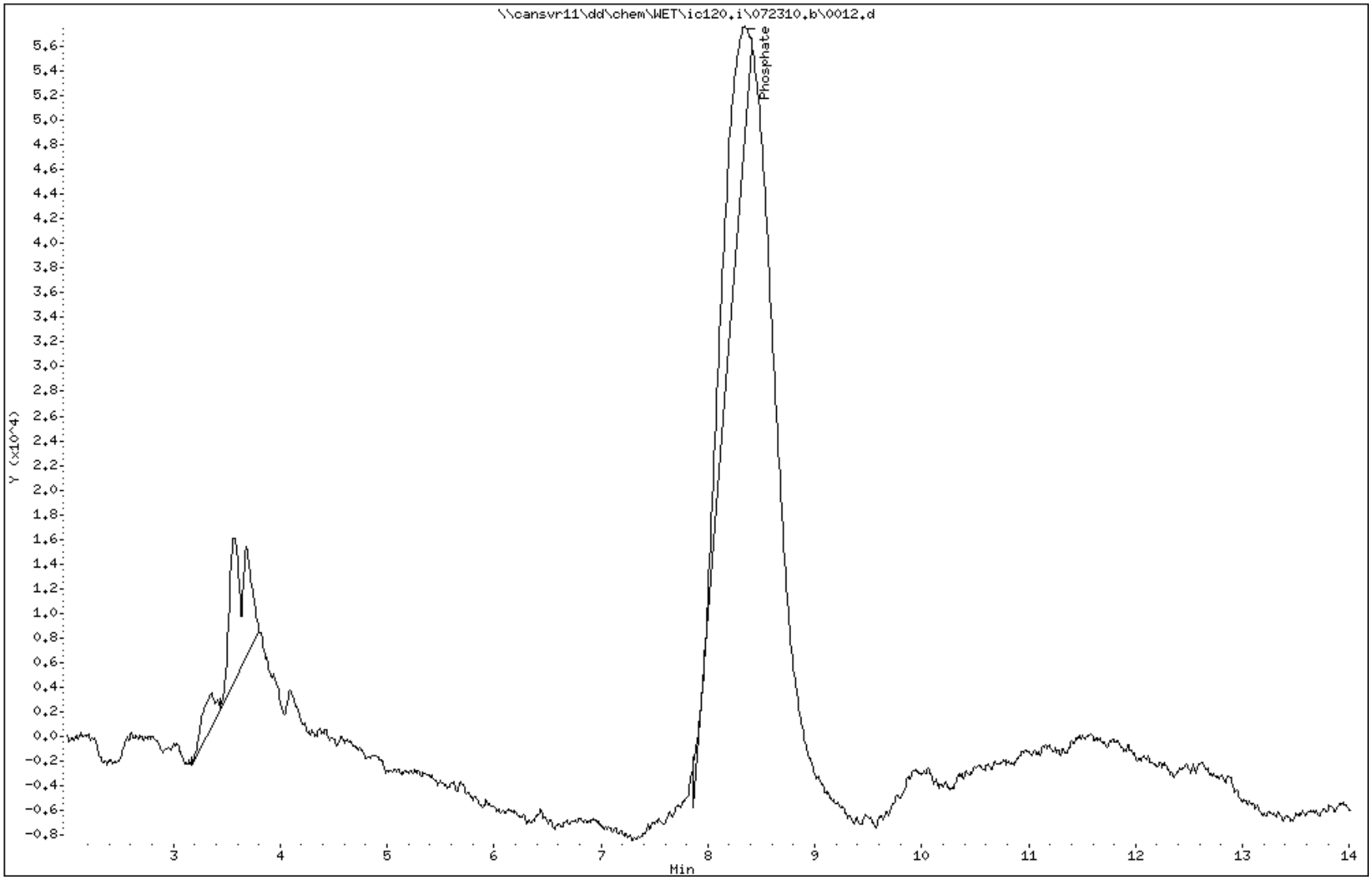
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.341	8.191	0.150	10063	0.03462	0.03462(a)
7 Sulfate	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0012.d
Date : 23-JUL-2010 12:31
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0013.d
Report Date: 26-Jul-2010 13:48

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0013.d
Lab Smp Id: L4K1A
Inj Date : 23-JUL-2010 15:37
Operator : 001754 Inst ID: ic120.i
Smp Info : L4K1A
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic320.i\072410.b\DX320.m
Meth Date : 26-Jul-2010 13:35 scotts Quant Type: ESTD
Cal Date : 09-JUL-2010 16:19 Cal File: 0002.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

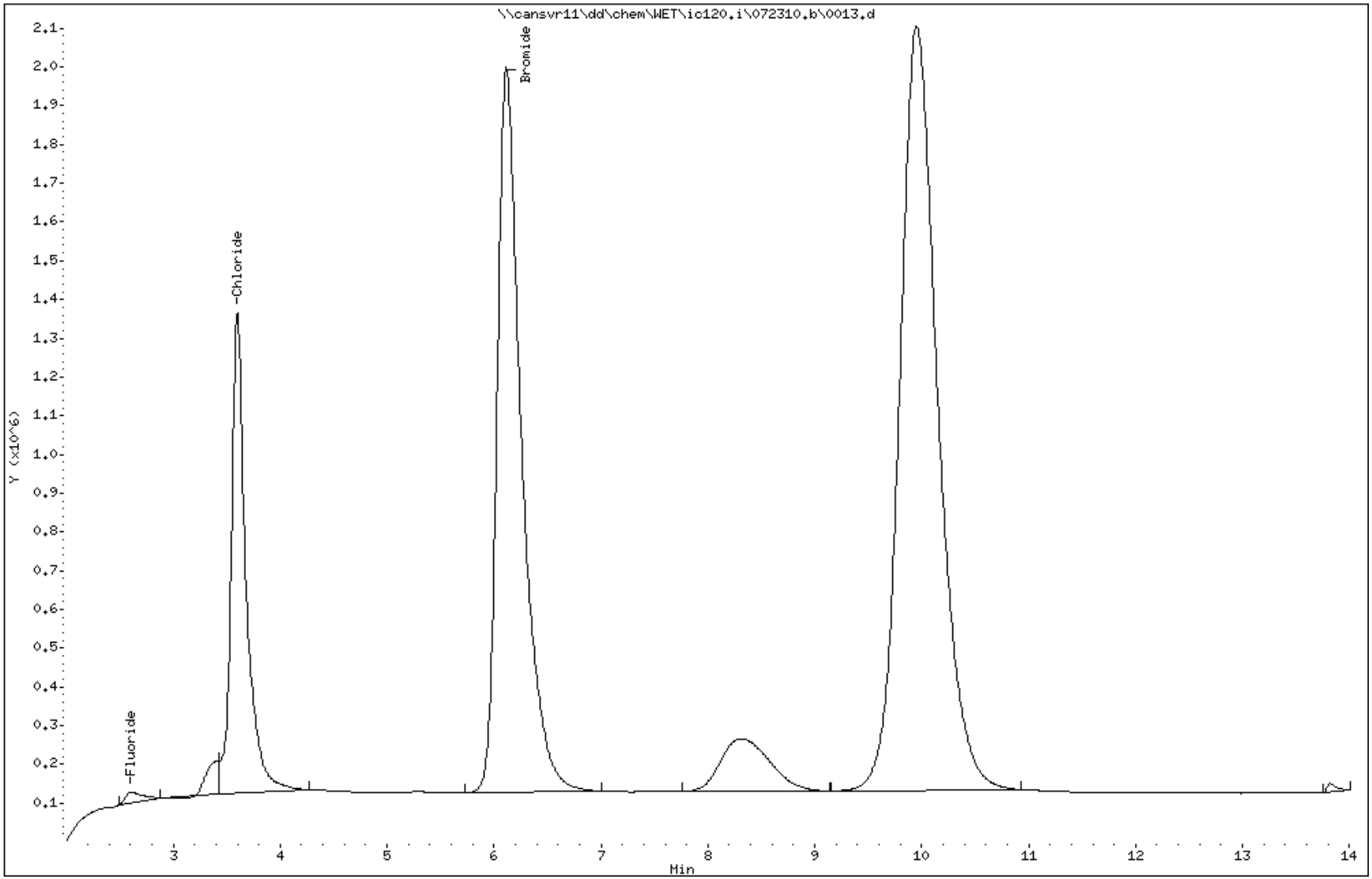
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.608	2.808	-0.200	303350	0.02358	0.02358(aM)
2 Chloride	3.600	3.983	-0.383	12126533	1.18463	1.185(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	6.116	5.866	0.250	29804990	8.16969	8.170
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

QC Flag Legend

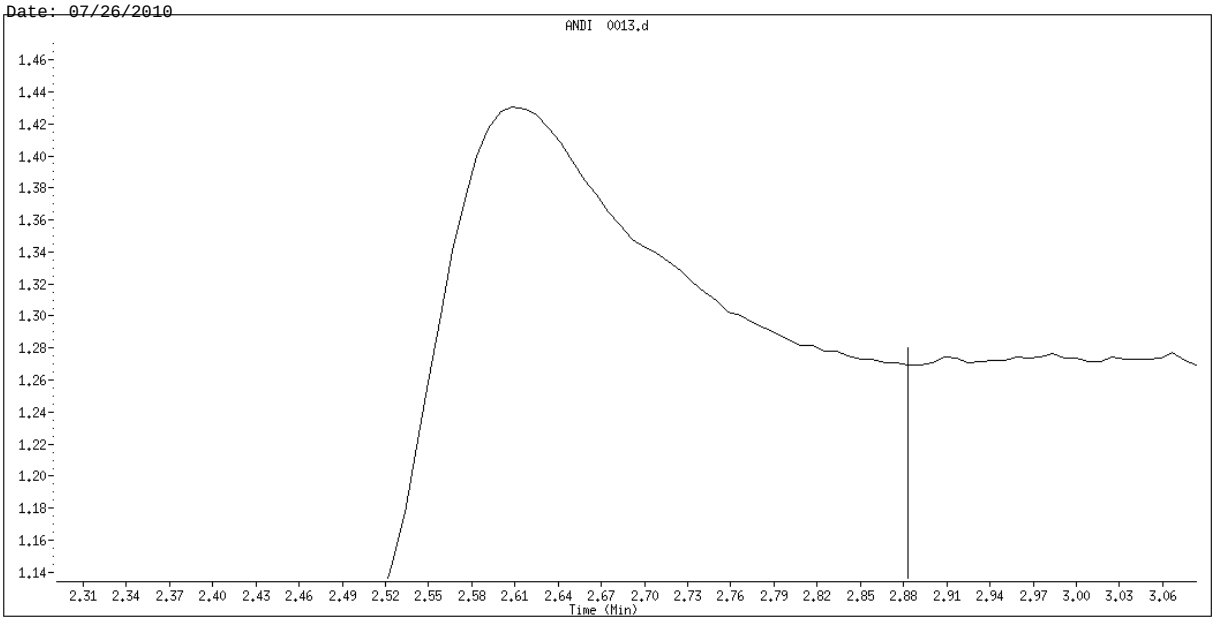
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0013.d
Date : 23-JUL-2010 15:37
Client ID:
Sample Info: L4K1A
Purge Volume: 1.0
Column phase: AS14

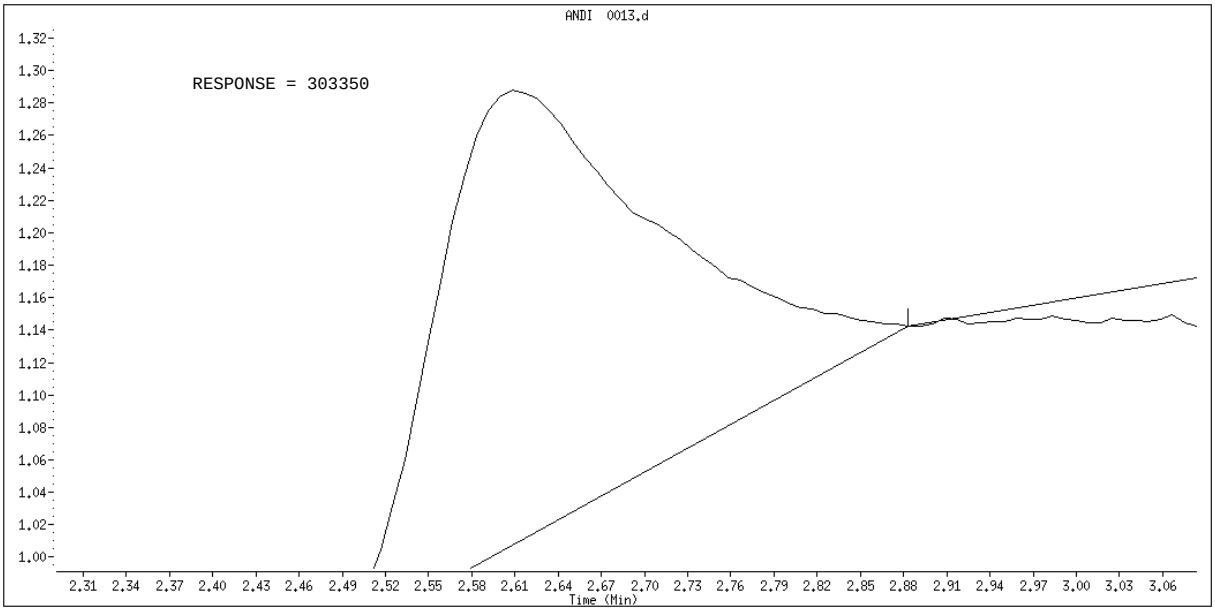
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0013.d
Inj. Date and Time: 23-JUL-2010 15:37
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



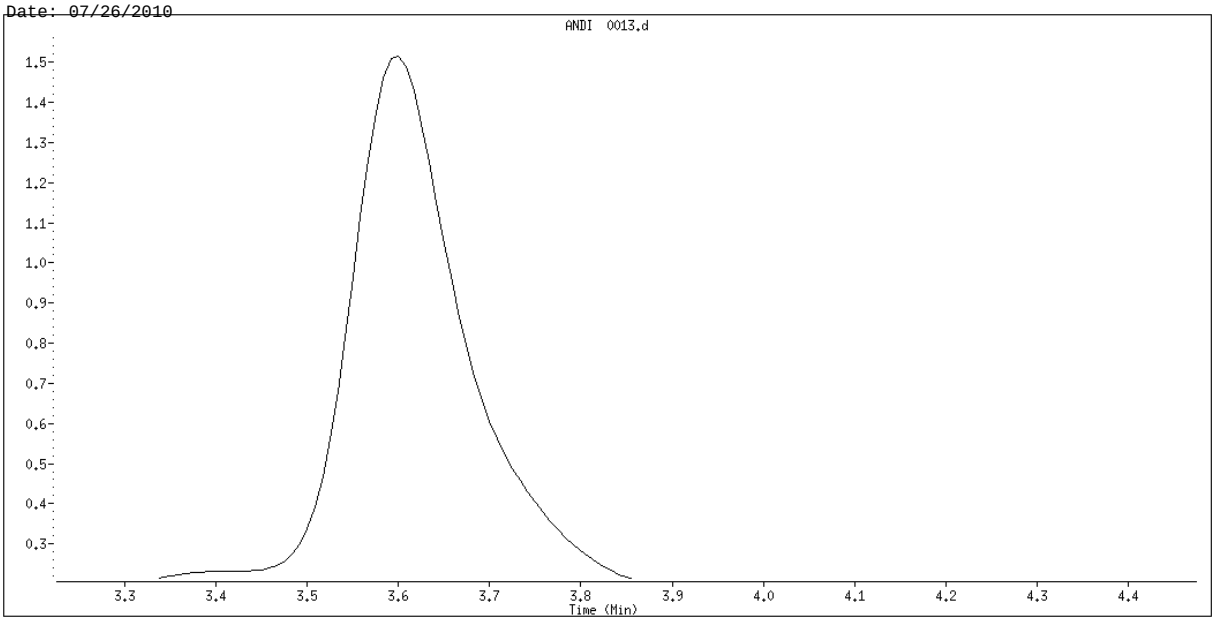
Original Integration



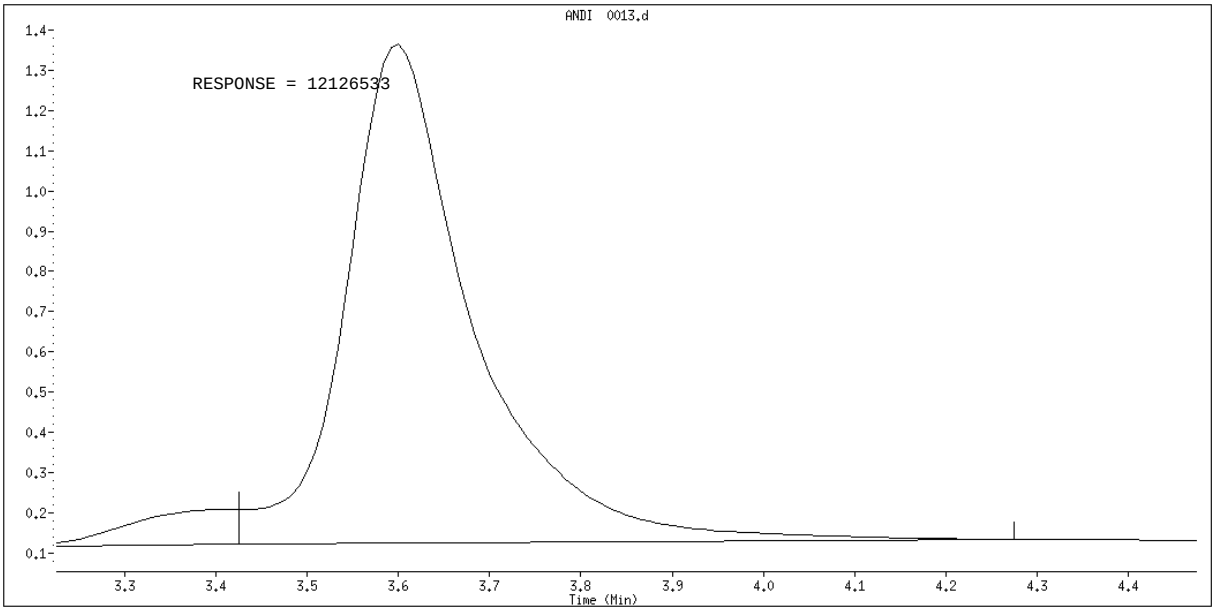
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File Name: 0013.d
Inj. Date and Time: 23-JUL-2010 15:37
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0014.d
Report Date: 26-Jul-2010 10:47

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0014.d
Lab Smp Id: L4K1R
Inj Date : 23-JUL-2010 15:54
Operator : 001754 Inst ID: ic120.i
Smp Info : L4K1R
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

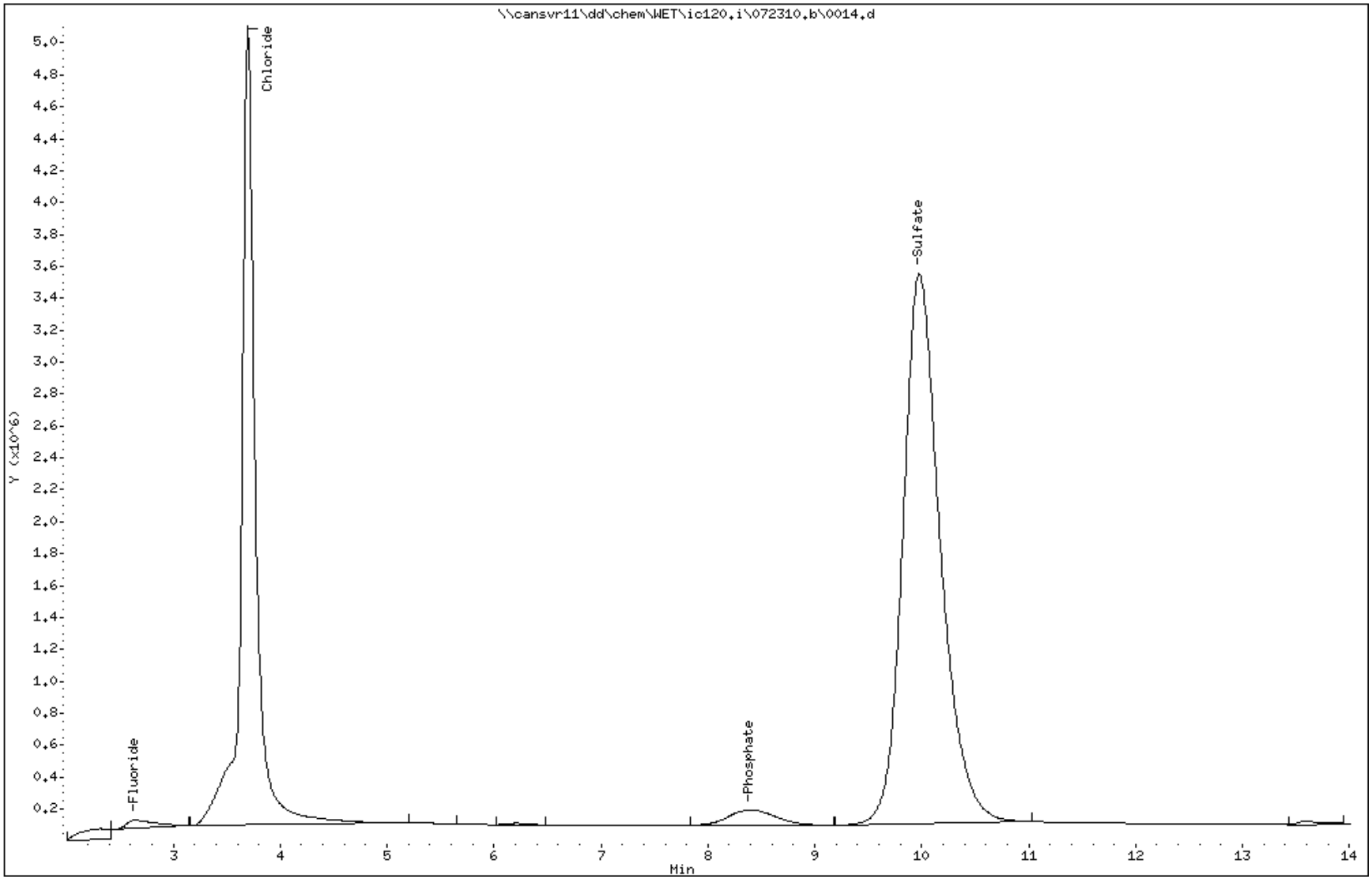
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.633	2.591	0.042	50720	0.05351	0.05351(M)
2 Chloride	3.700	3.616	0.084	46533986	5.77951	5.780(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.391	8.141	0.250	93108	0.31883	0.3188
7 Sulfate	9.975	9.866	0.109	83769670	15.8901	15.89

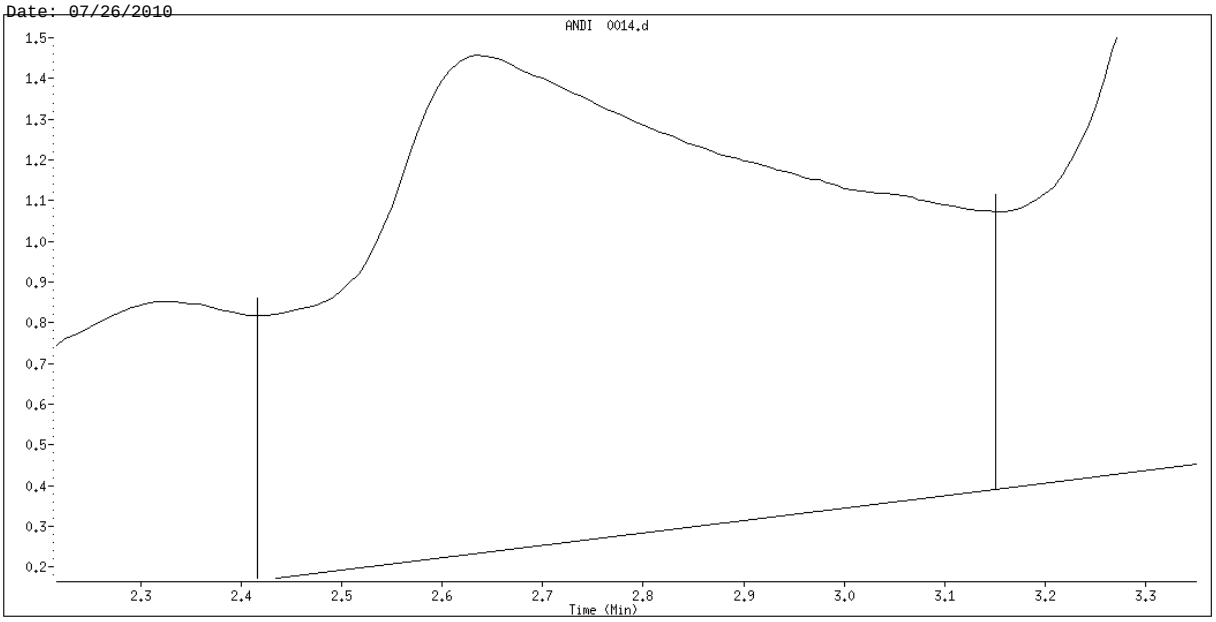
QC Flag Legend

M - Compound response manually integrated.

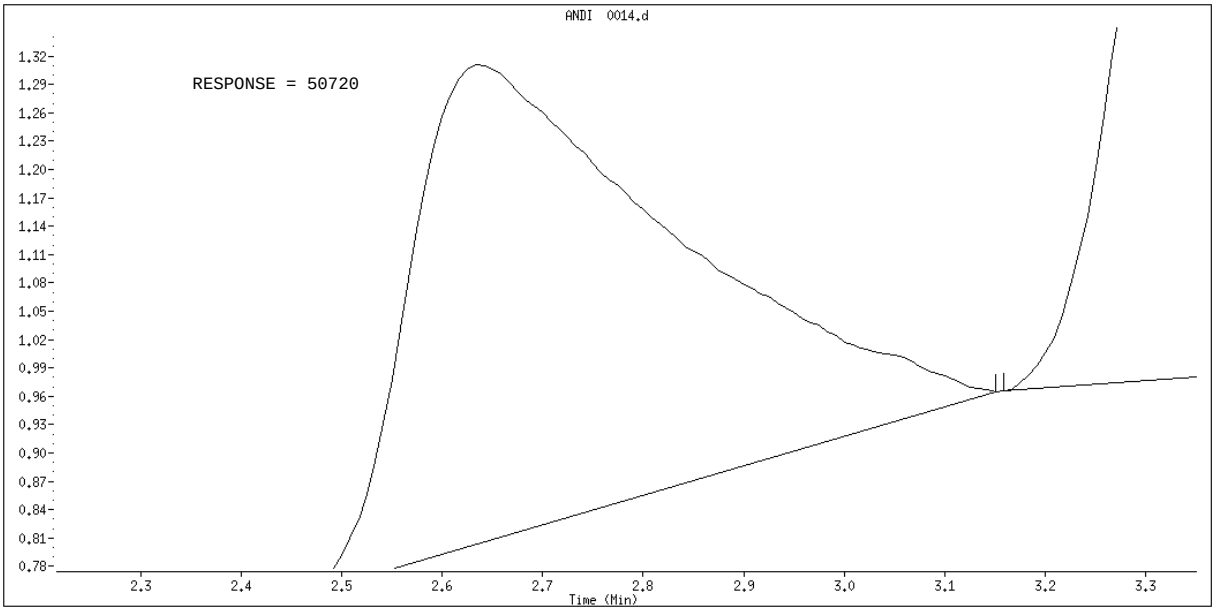
Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0014.d
Date : 23-JUL-2010 15:54
Client ID:
Instrument: ic120.i
Sample Info: L4K1R
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0014.d
Inj. Date and Time: 23-JUL-2010 15:54
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



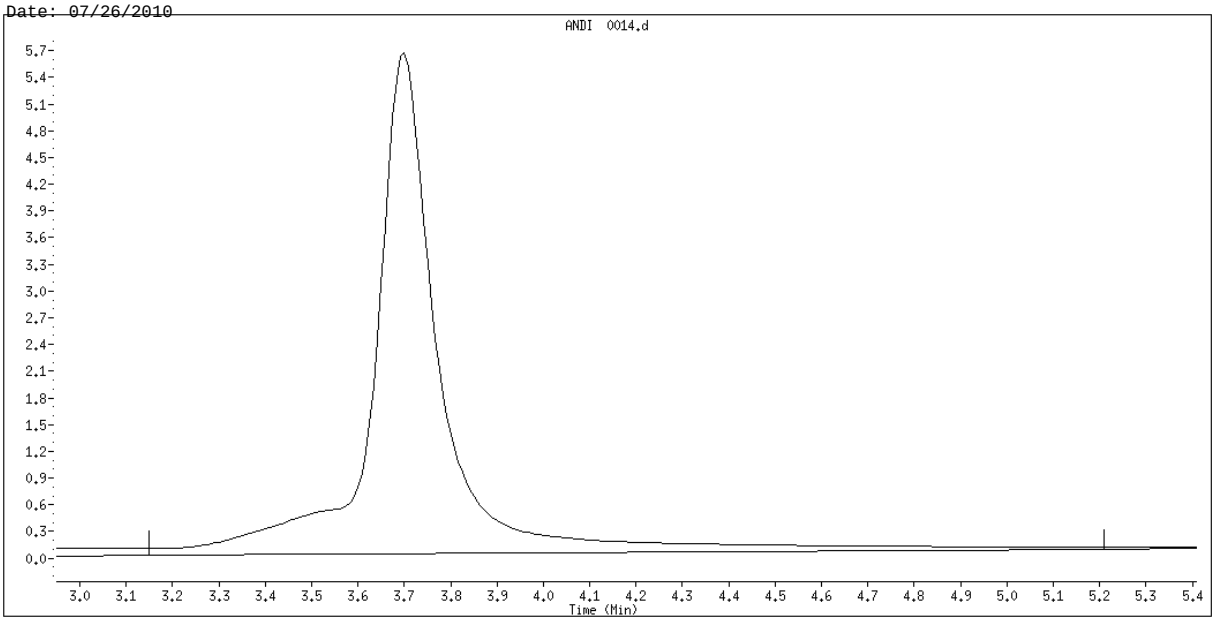
Original Integration



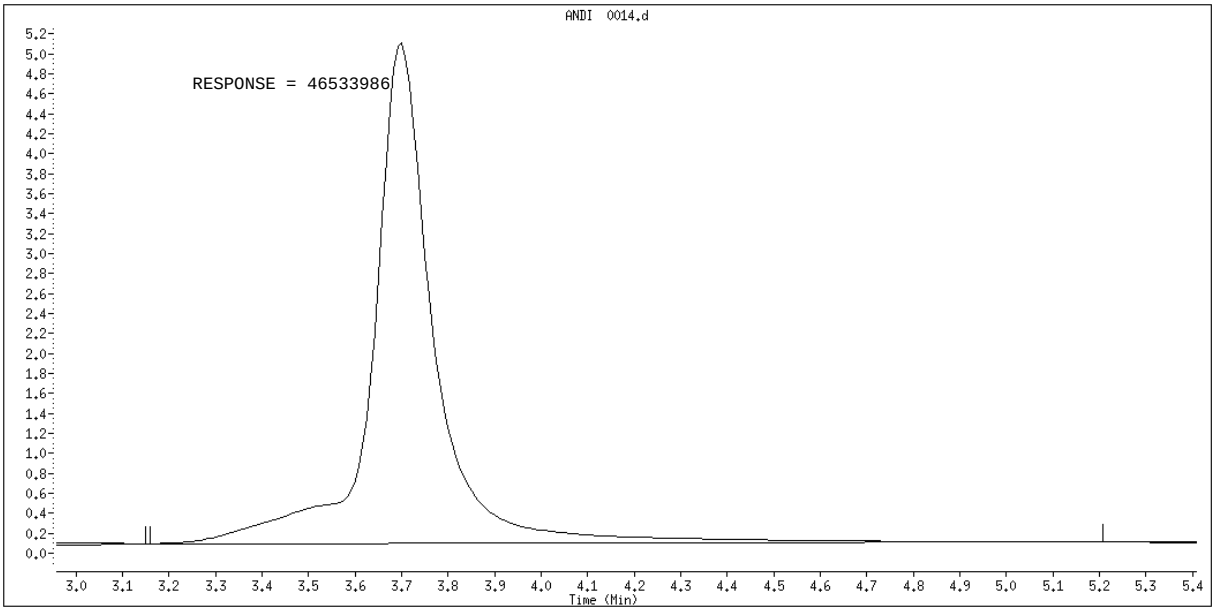
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0014.d
Inj. Date and Time: 23-JUL-2010 15:54
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0015.d
Report Date: 26-Jul-2010 10:48

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0015.d
Lab Smp Id: L4K2T
Inj Date : 23-JUL-2010 16:10
Operator : 001754 Inst ID: ic120.i
Smp Info : L4K2T
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

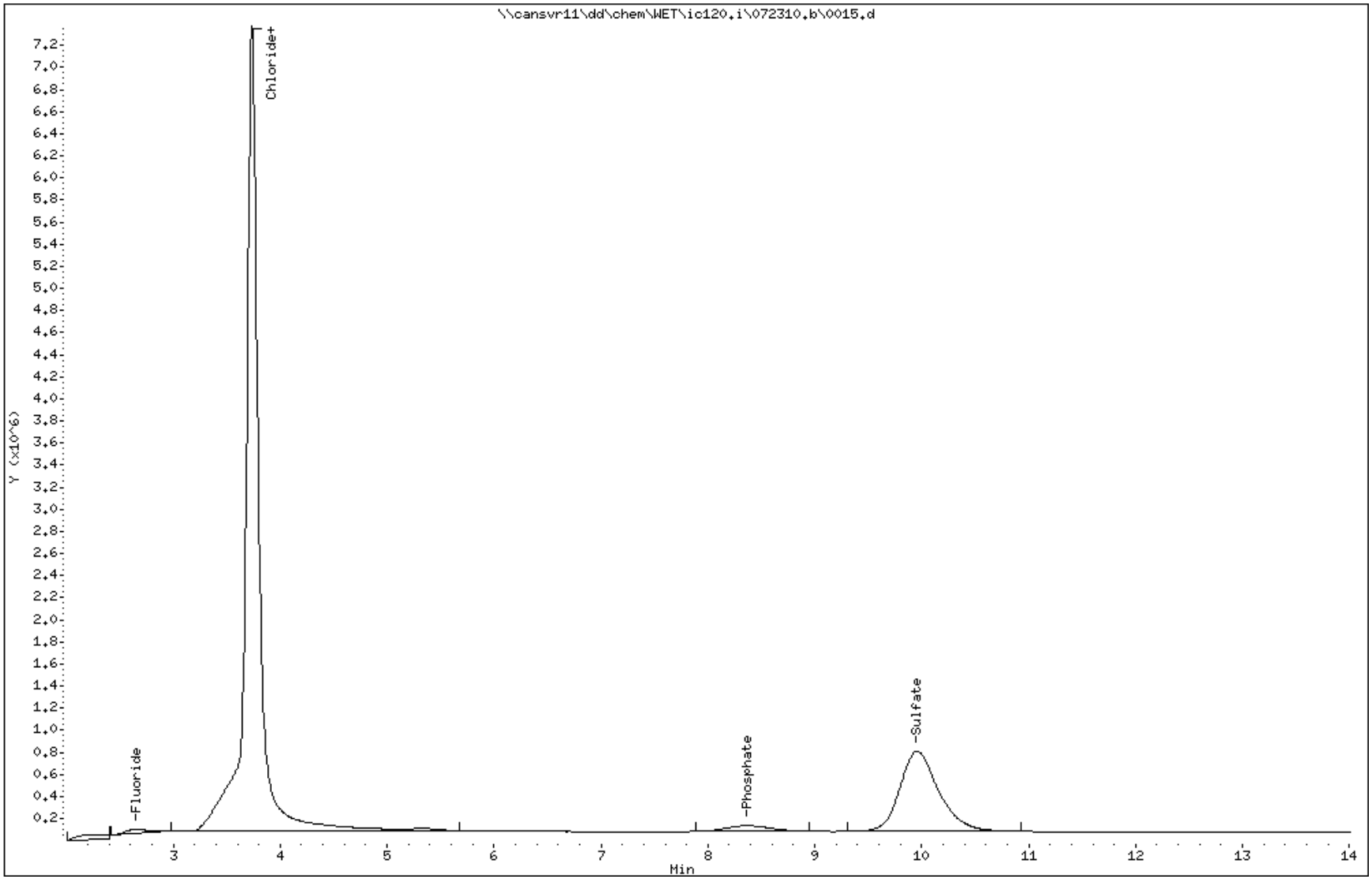
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.658	2.591	0.067	31812	0.03356	0.03356(aM)
2 Chloride	3.733	3.616	0.117	63295638	7.86130	7.861(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	3.733	5.275	-1.542	63295638	22.2436	22.24(M)
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.375	8.141	0.234	49601	0.17027	0.1703
7 Sulfate	9.958	9.866	0.092	18367870	3.48416	3.484

QC Flag Legend

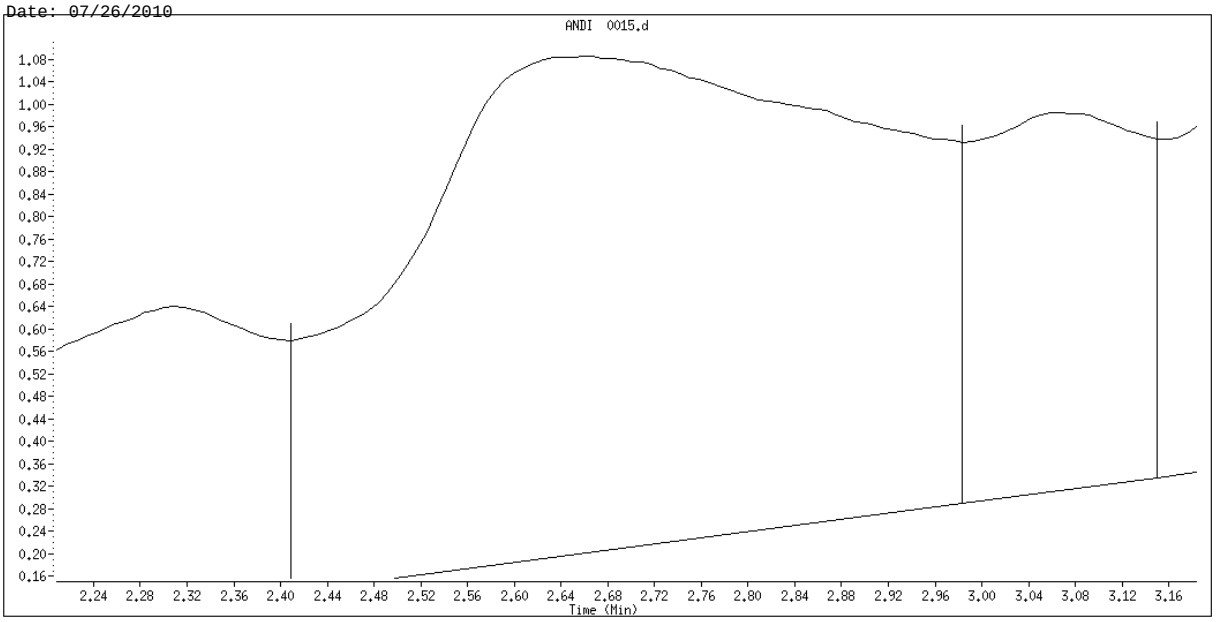
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0015.d
Date : 23-JUL-2010 16:10
Client ID:
Sample Info: L4K2T
Purge Volume: 1.0
Column phase: AS14

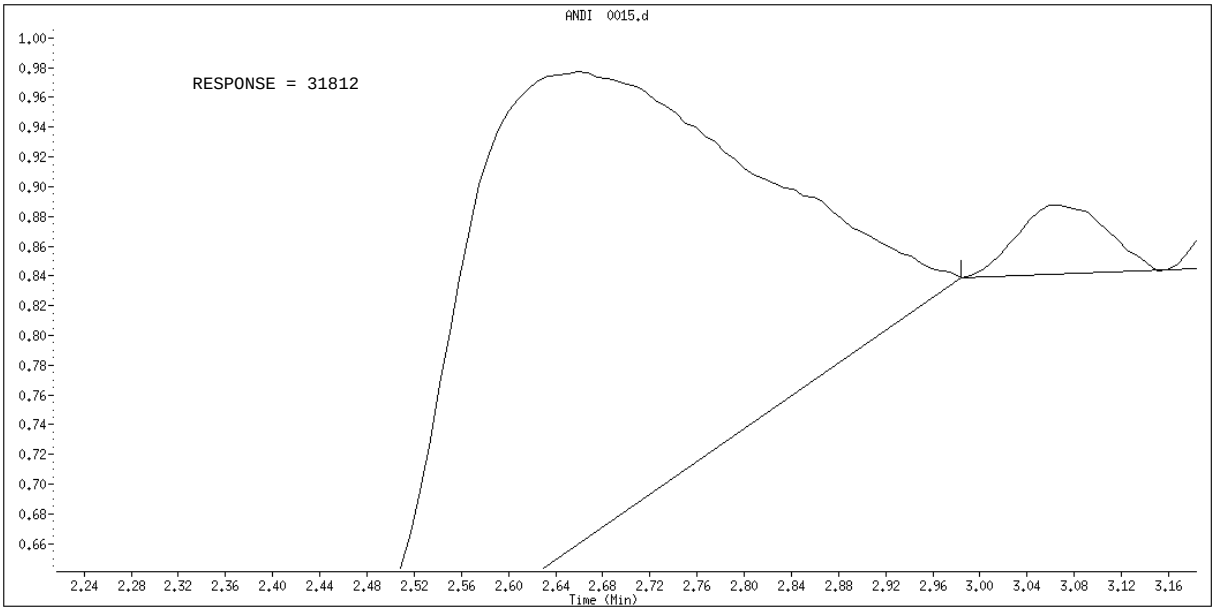
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0015.d
Inj. Date and Time: 23-JUL-2010 16:10
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



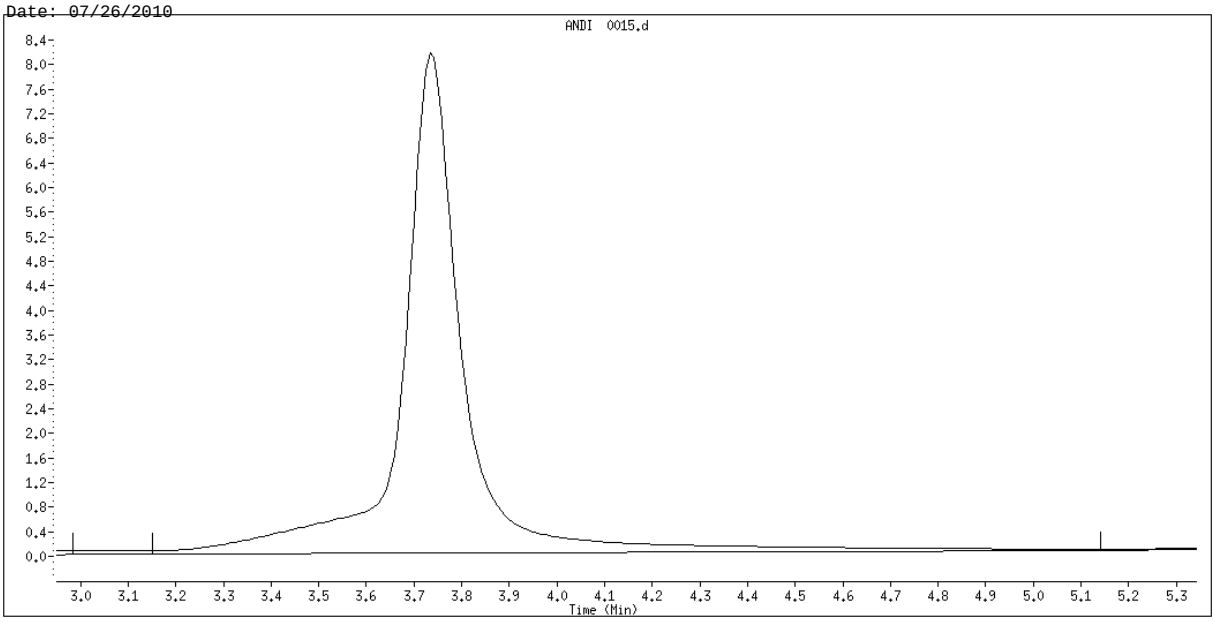
Original Integration



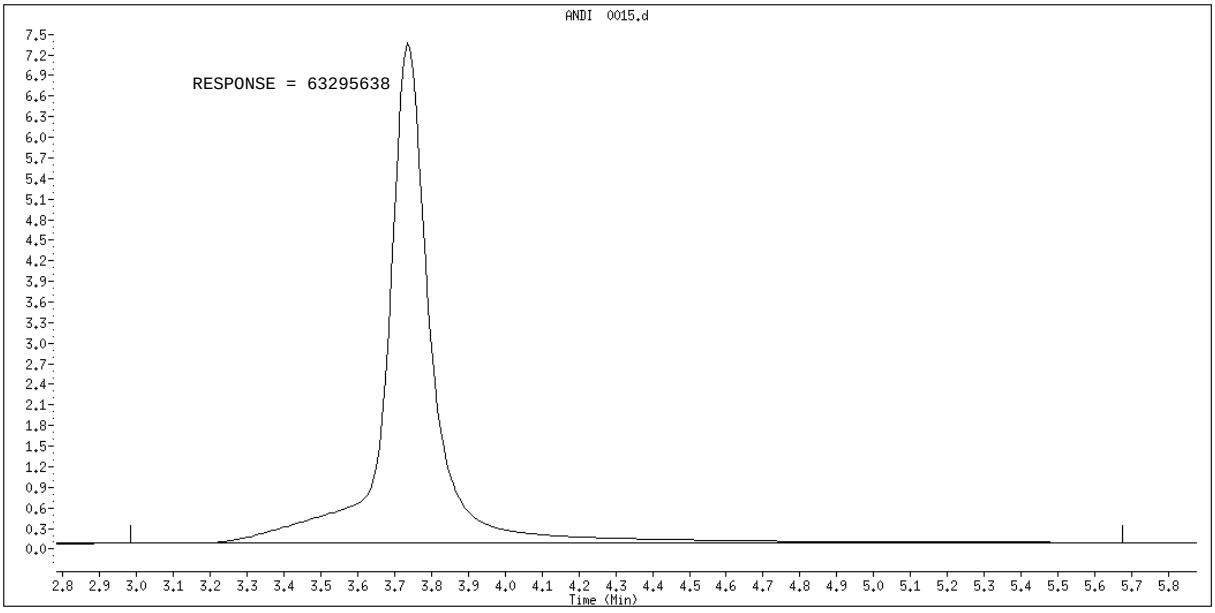
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0015.d
Inj. Date and Time: 23-JUL-2010 16:10
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



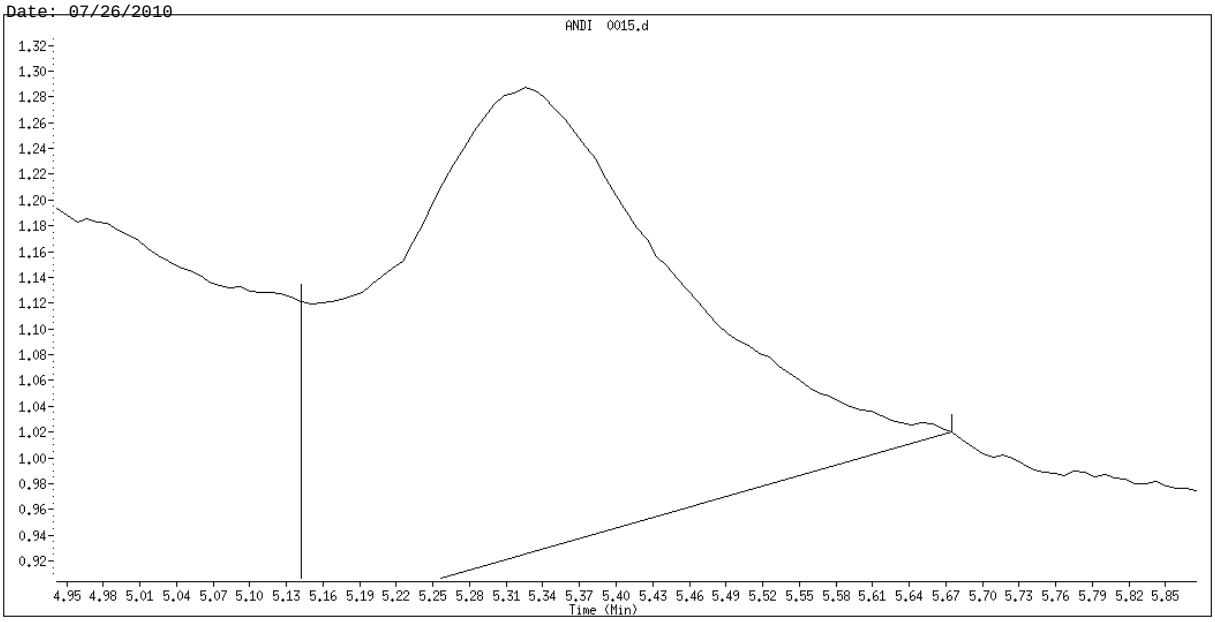
Original Integration



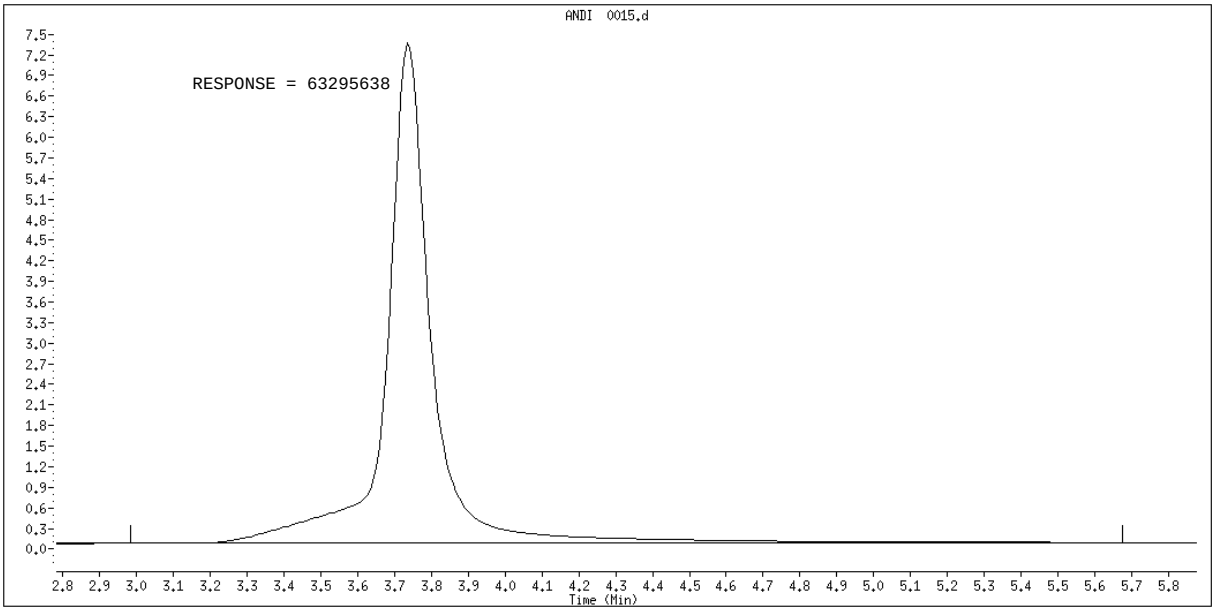
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0015.d
Inj. Date and Time: 23-JUL-2010 16:10
Instrument ID: ic120.i
Client ID:
Compound Name: Bromide
CAS #: Q85
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0016.d
Report Date: 26-Jul-2010 10:49

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0016.d
Lab Smp Id: L4K29 ORG
Inj Date : 23-JUL-2010 16:26
Operator : 001754 Inst ID: ic120.i
Smp Info : L4K29 ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

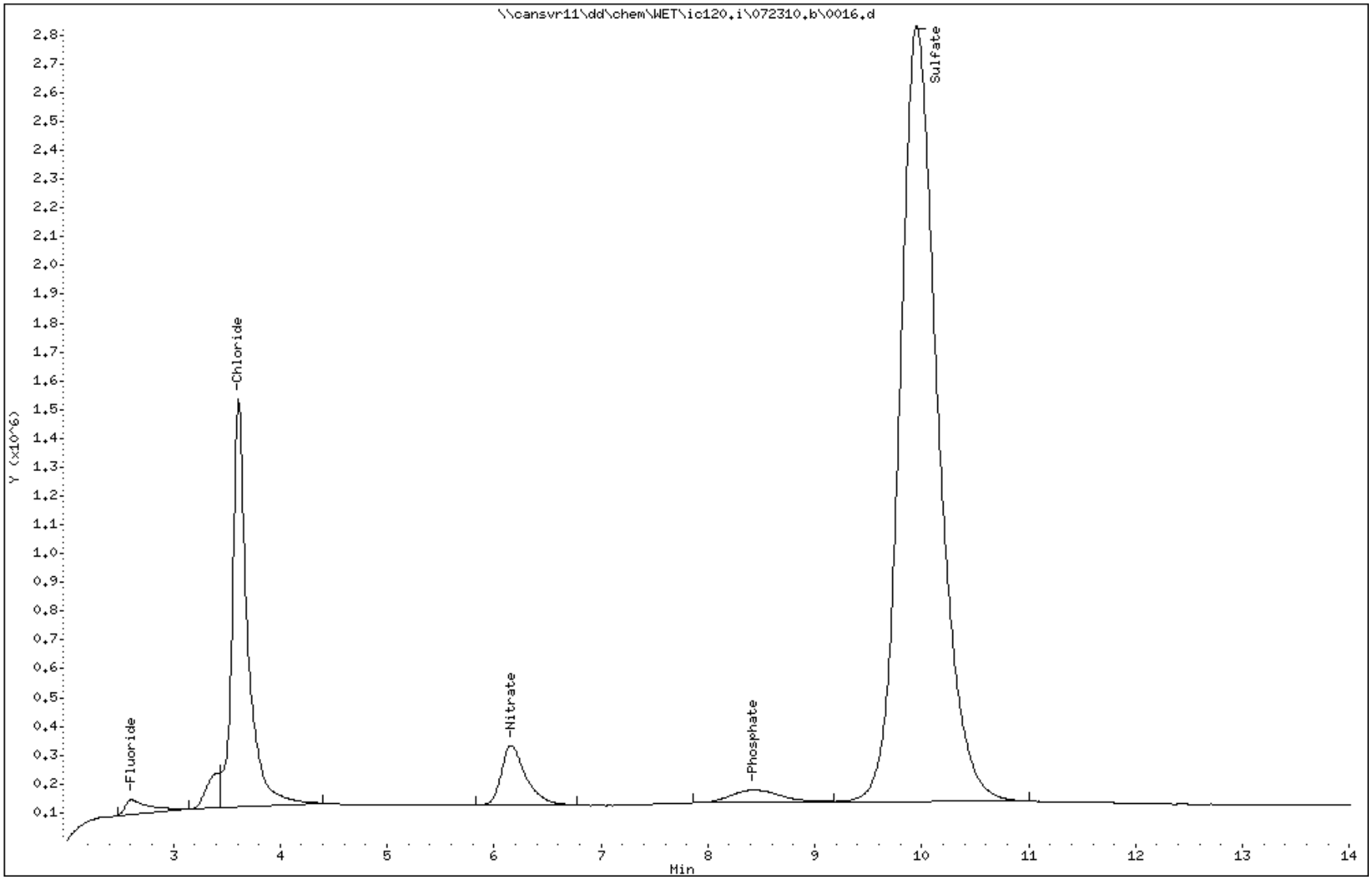
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.608	2.591	0.017	49844	0.05259	0.05258(M)
2 Chloride	3.608	3.616	-0.008	14225048	1.76675	1.767(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.158	6.108	0.050	3304768	0.20527	0.2053
6 Phosphate	8.425	8.141	0.284	43123	0.14809	0.1481
7 Sulfate	9.950	9.866	0.084	66356434	12.5870	12.59

QC Flag Legend

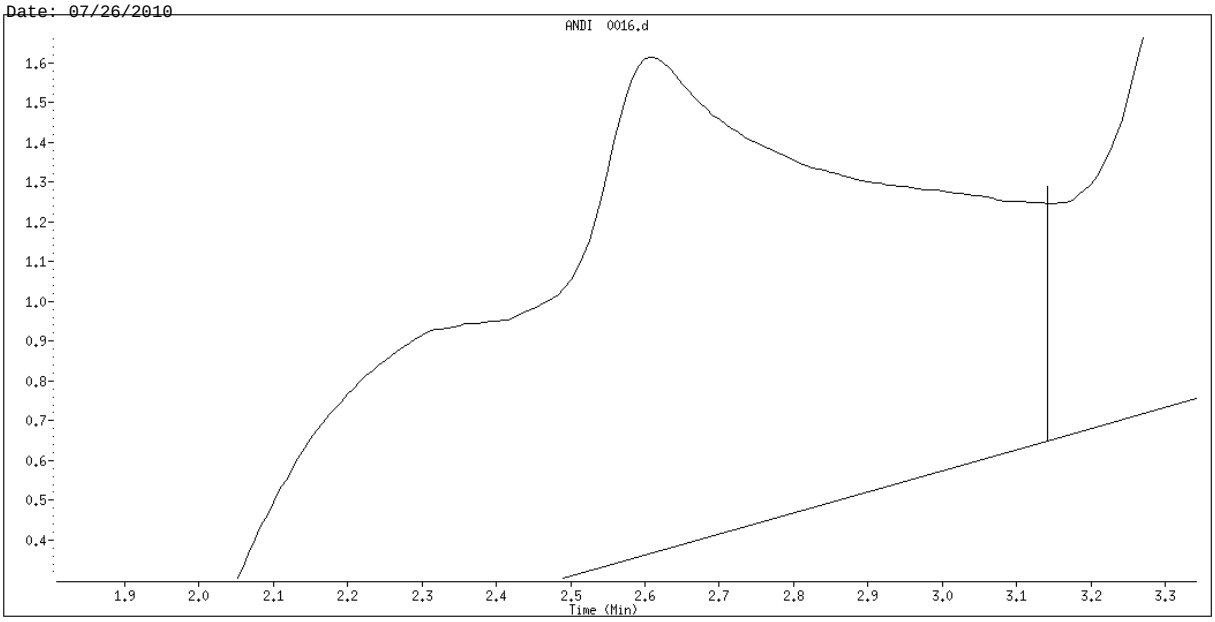
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0016.d
Date : 23-JUL-2010 16:26
Client ID:
Sample Info: L4K29 ORG
Purge Volume: 1.0
Column phase: AS14

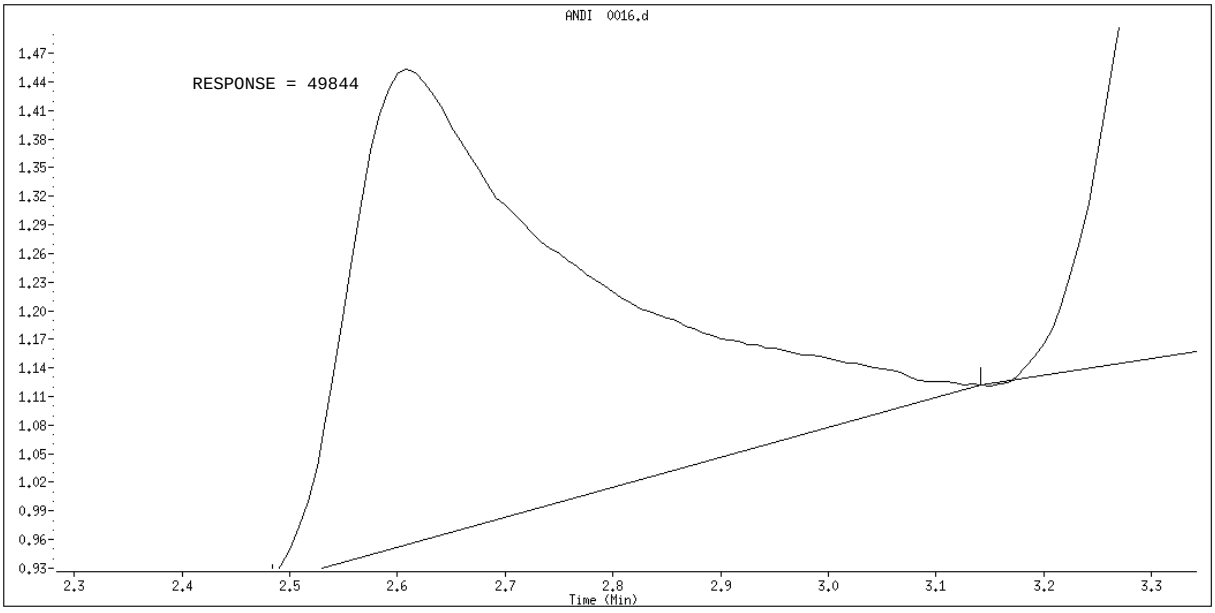
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0016.d
Inj. Date and Time: 23-JUL-2010 16:26
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



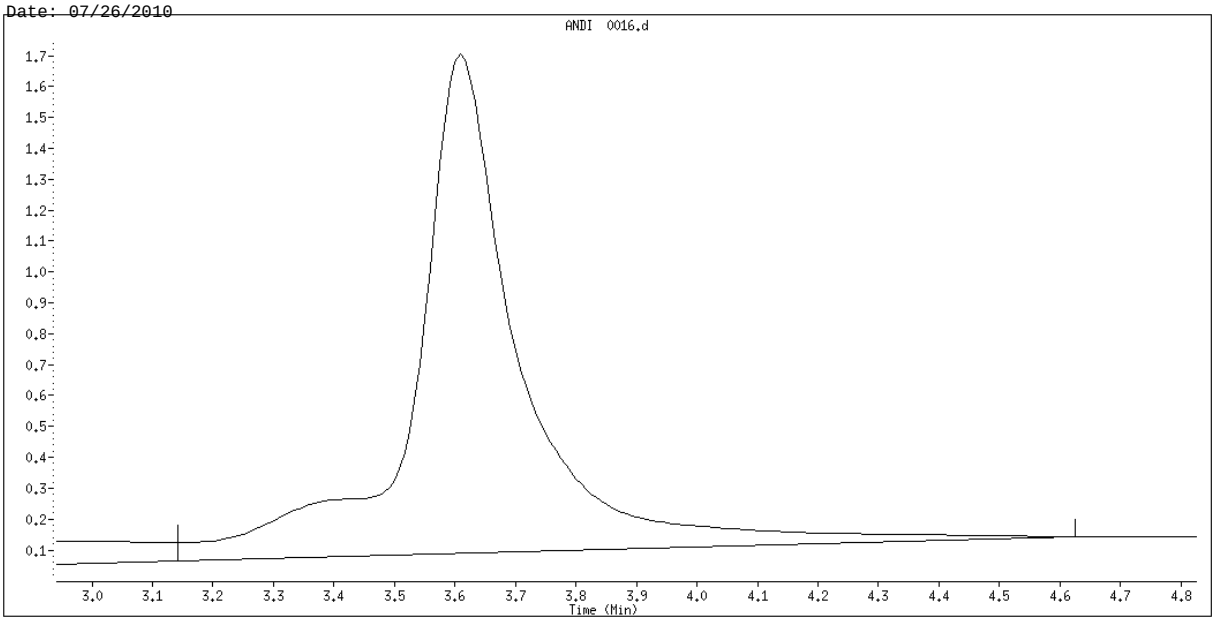
Original Integration



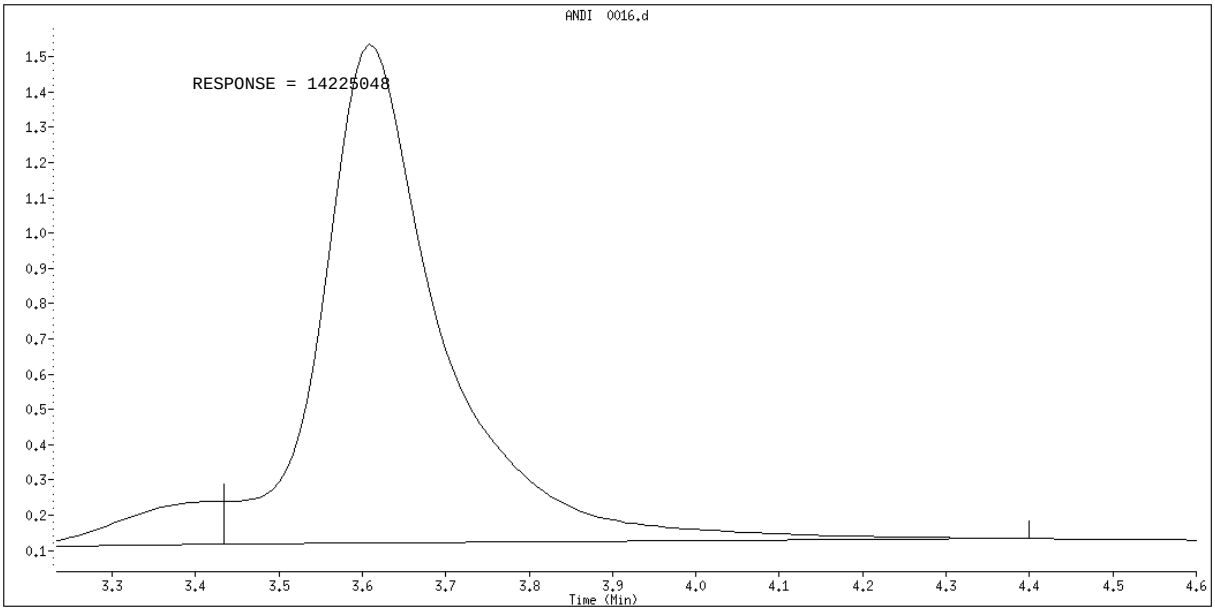
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0016.d
Inj. Date and Time: 23-JUL-2010 16:26
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0017.d
Report Date: 26-Jul-2010 10:44

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0017.d
Lab Smp Id: L4K29 MS
Inj Date : 23-JUL-2010 16:43
Operator : 001754 Inst ID: ic120.i
Smp Info : L4K29 MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 13:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

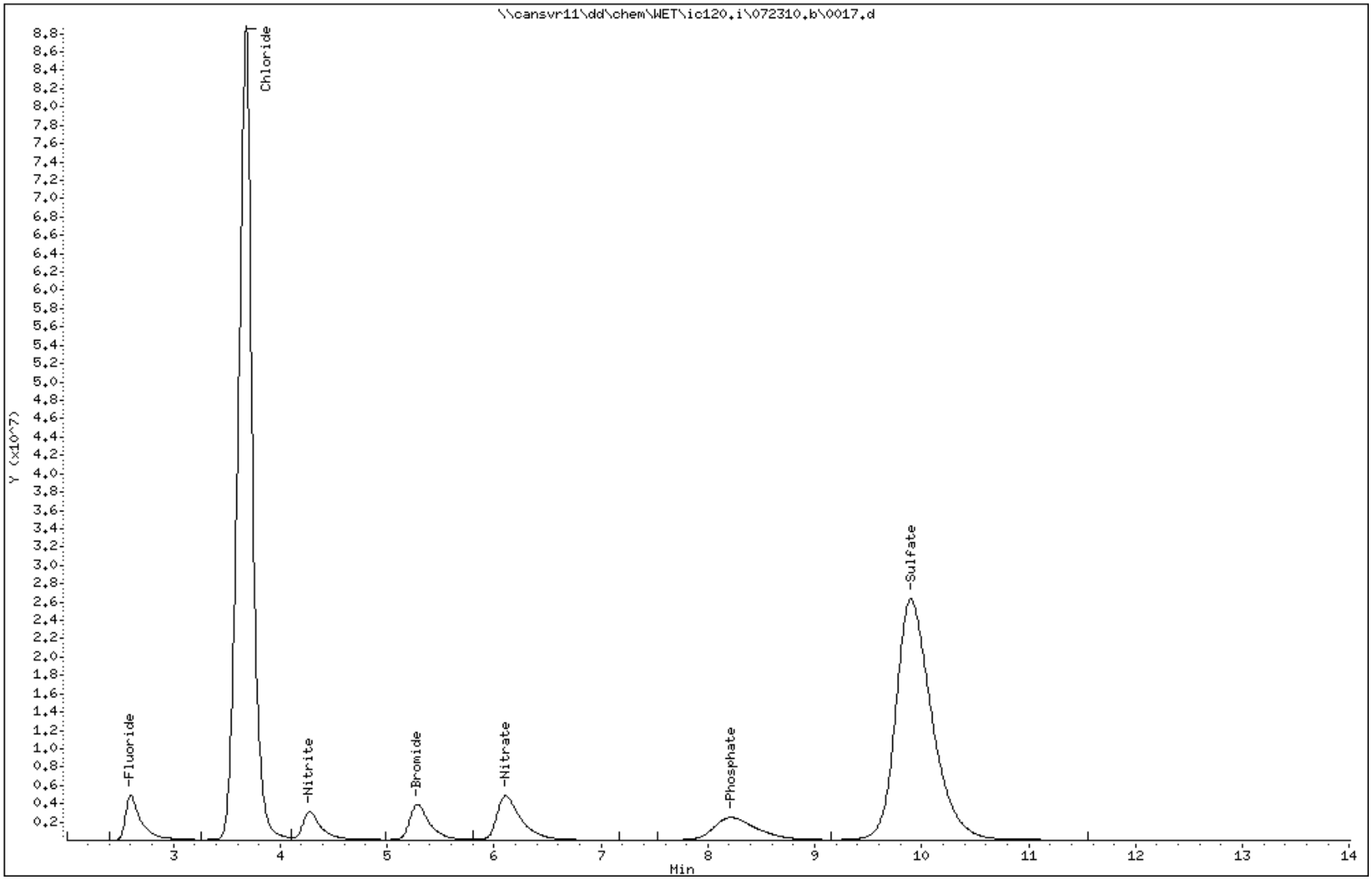
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.600	2.600	0.000	4889512	5.15844	5.158(R)
2 Chloride	3.683	3.633	0.050	820054902	101.851	101.8(R)
3 Nitrite	4.275	4.275	0.000	39422502	3.06648	3.066(R)
4 Bromide	5.283	5.308	-0.025	51655881	18.1531	18.15(R)
5 Nitrate	6.108	6.158	-0.050	76511116	4.75226	4.752(R)
6 Phosphate	8.216	8.191	0.025	2455143	7.27326	7.273(R)
7 Sulfate	9.900	9.933	-0.033	618089568	117.244	117.2(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0017.d
Date : 23-JUL-2010 16:43
Client ID:
Sample Info: L4K29 MS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0018.d
Report Date: 26-Jul-2010 10:44

TestAmerica North Canton

ION CHROMATOGRAPHY

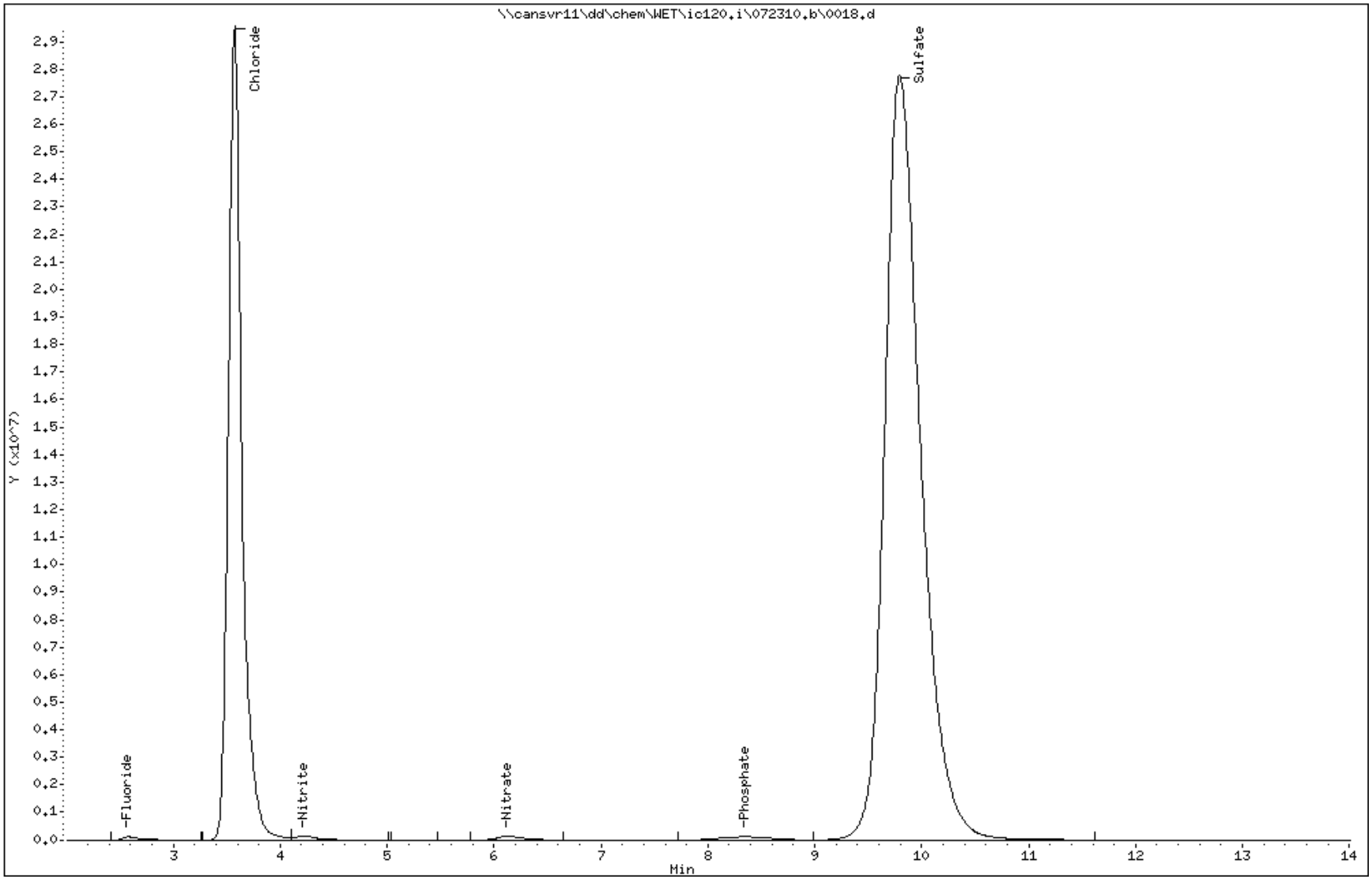
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0018.d
Lab Smp Id: L37MD
Inj Date : 23-JUL-2010 16:59
Operator : 001754 Inst ID: ic120.i
Smp Info : L37MD,5
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 13:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.575	2.600	-0.025	129589	0.13672	0.6836
2 Chloride	3.575	3.633	-0.058	261419759	32.4683	162.3
3 Nitrite	4.225	4.275	-0.050	2346751	0.18254	0.9127
4 Bromide	Compound Not Detected.					
5 Nitrate	6.125	6.158	-0.033	2248743	0.13967	0.6984
6 Phosphate	8.341	8.191	0.150	118240	0.40430	2.022
7 Sulfate	9.791	9.933	-0.142	651569452	123.595	618.0

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0018.d
Date : 23-JUL-2010 16:59
Client ID:
Instrument: ic120.i
Sample Info: L37MD,5
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0019.d
Report Date: 26-Jul-2010 10:44

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0019.d
Lab Smp Id: L37MN
Inj Date : 23-JUL-2010 17:16
Operator : 001754 Inst ID: ic120.i
Smp Info : L37MN
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 13:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

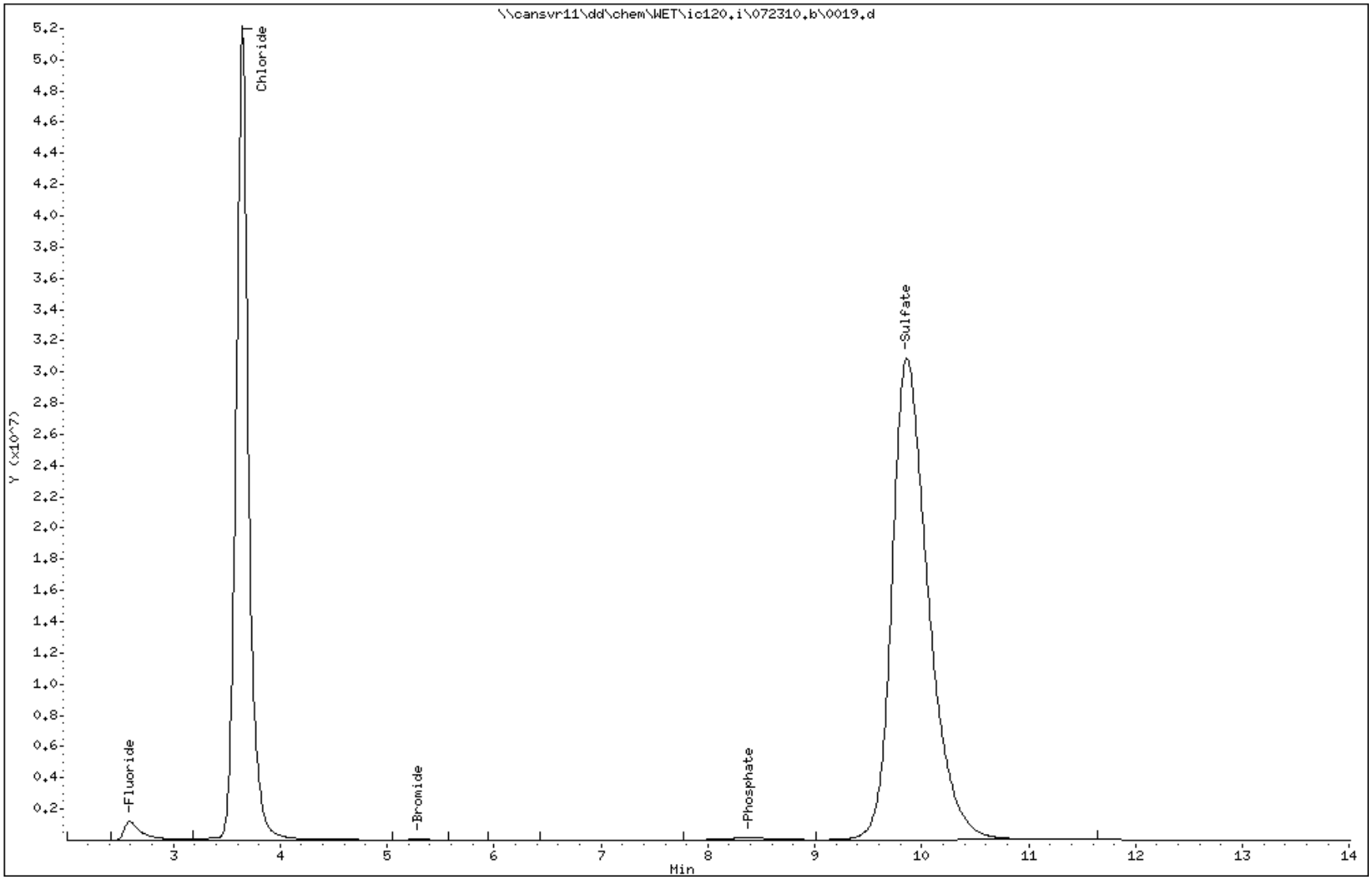
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.591	2.600	-0.009	1227225	1.29472	1.295
2 Chloride	3.650	3.633	0.017	433944967	53.8959	53.90
3 Nitrite	Compound Not Detected.					
4 Bromide	5.291	5.308	-0.017	353009	0.12406	0.1240(a)
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.383	8.191	0.192	117393	0.40143	0.4014
7 Sulfate	9.858	9.933	-0.075	725907818	137.696	137.7

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0019.d
Date : 23-JUL-2010 17:16
Client ID:
Sample Info: L37MN
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0020.d
Report Date: 26-Jul-2010 10:44

TestAmerica North Canton

ION CHROMATOGRAPHY

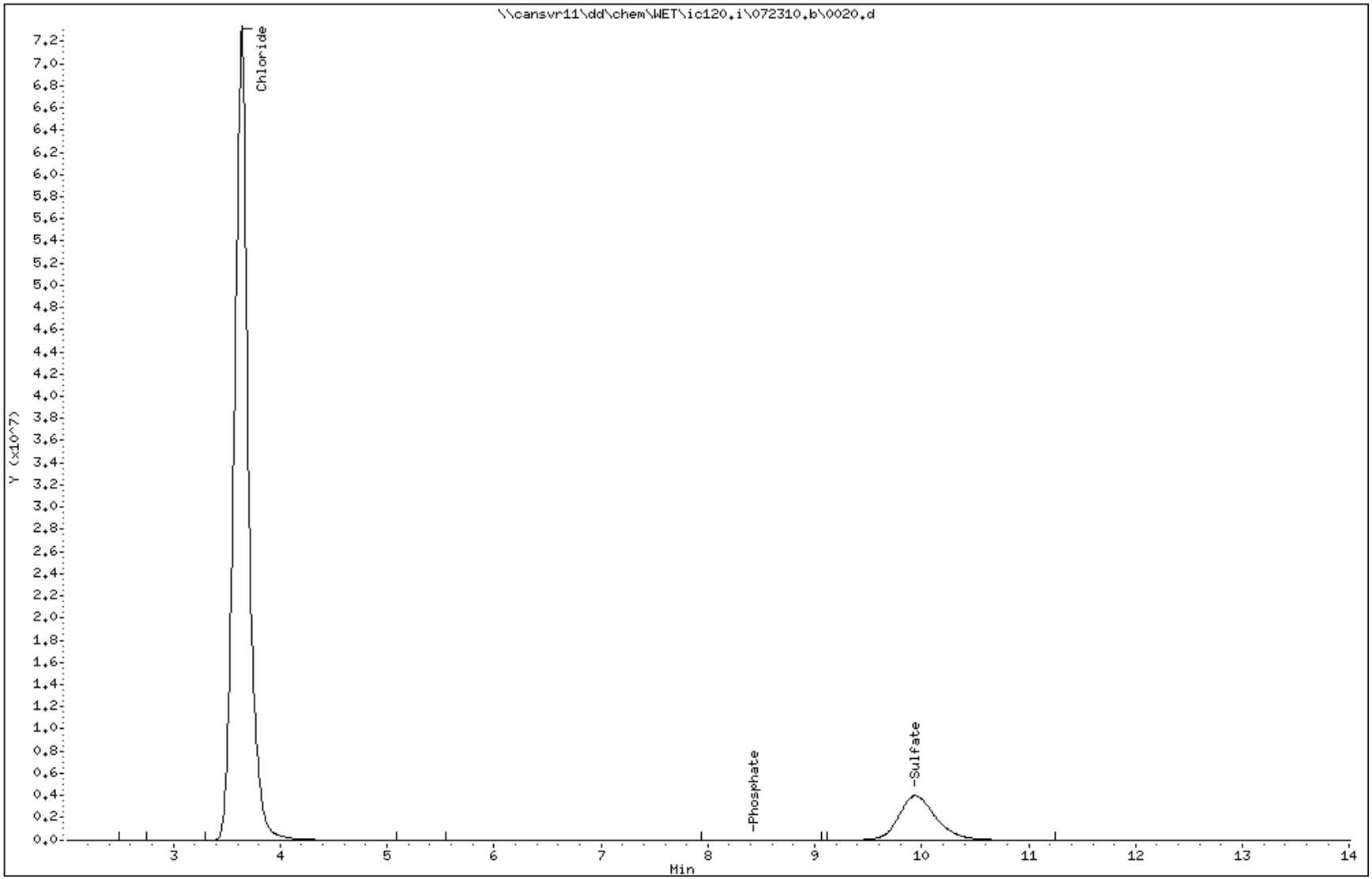
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0020.d
Lab Smp Id: L37MR
Inj Date : 23-JUL-2010 17:32
Operator : 001754 Inst ID: ic120.i
Smp Info : L37MR,50
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 23-Jul-2010 13:50 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
1	Fluoride	Compound Not Detected.					
2	Chloride	3.641	3.633	0.008	676390126	84.0075	4200
3	Nitrite	Compound Not Detected.					
4	Bromide	Compound Not Detected.					
5	Nitrate	Compound Not Detected.					
6	Phosphate	8.441	8.191	0.250	33324	0.11450	5.725
7	Sulfate	9.941	9.933	0.008	97114384	18.4214	921.1

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0020.d
Date : 23-JUL-2010 17:32
Client ID:
Instrument: ic120.i
Sample Info: L37MR,50
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0021.d
Report Date: 26-Jul-2010 10:50

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0021.d
Lab Smp Id: L37MT ORG
Inj Date : 23-JUL-2010 17:49
Operator : 001754 Inst ID: ic120.i
Smp Info : L37MT ORG,50
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

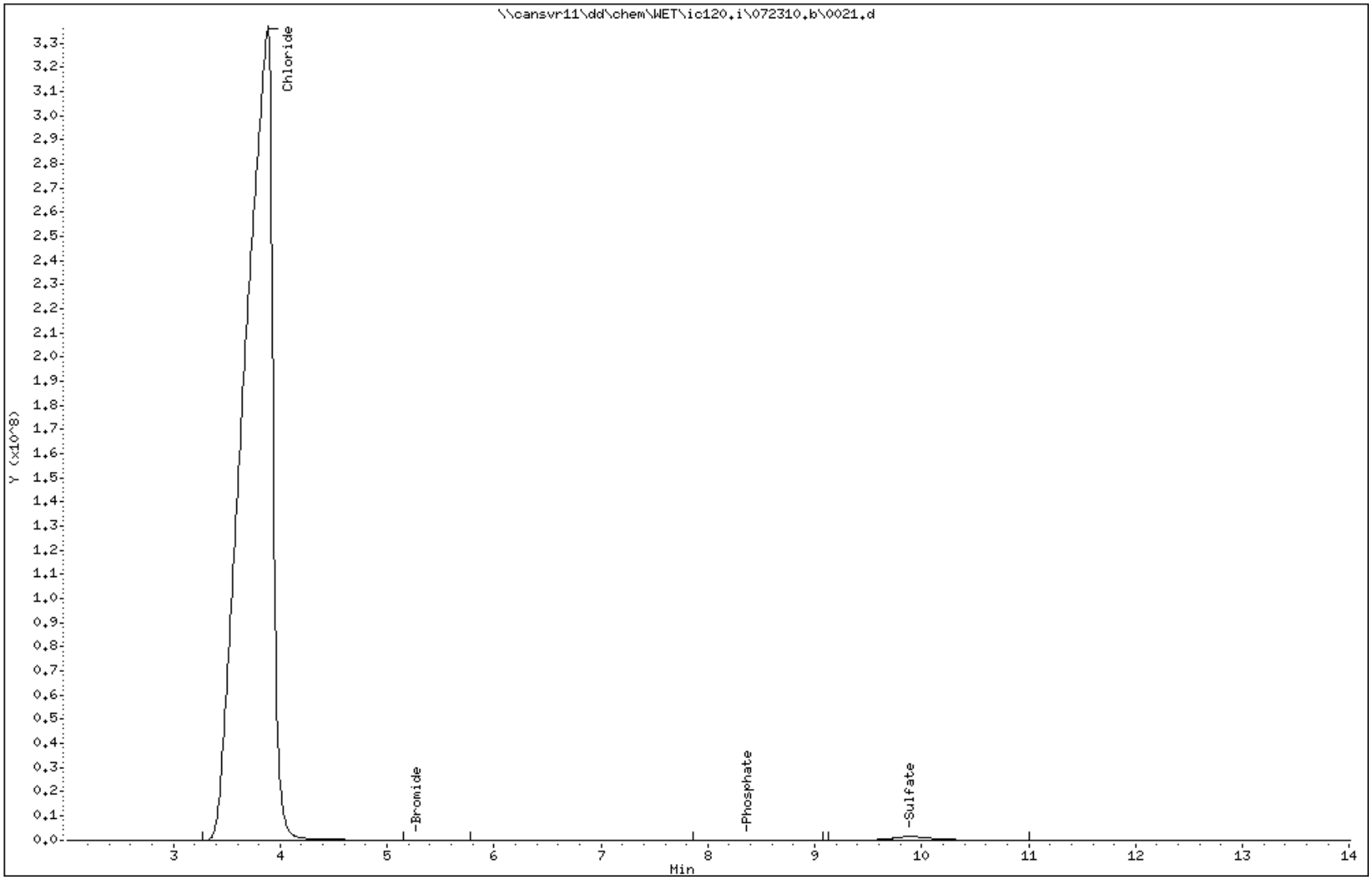
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.891	3.616	0.275	6281837851	780.203	39010(AM)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.275	5.275	0.000	1298105	0.45619	22.81
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.375	8.141	0.234	44701	0.15349	7.674
7 Sulfate	9.891	9.866	0.025	34719534	6.58586	329.3

QC Flag Legend

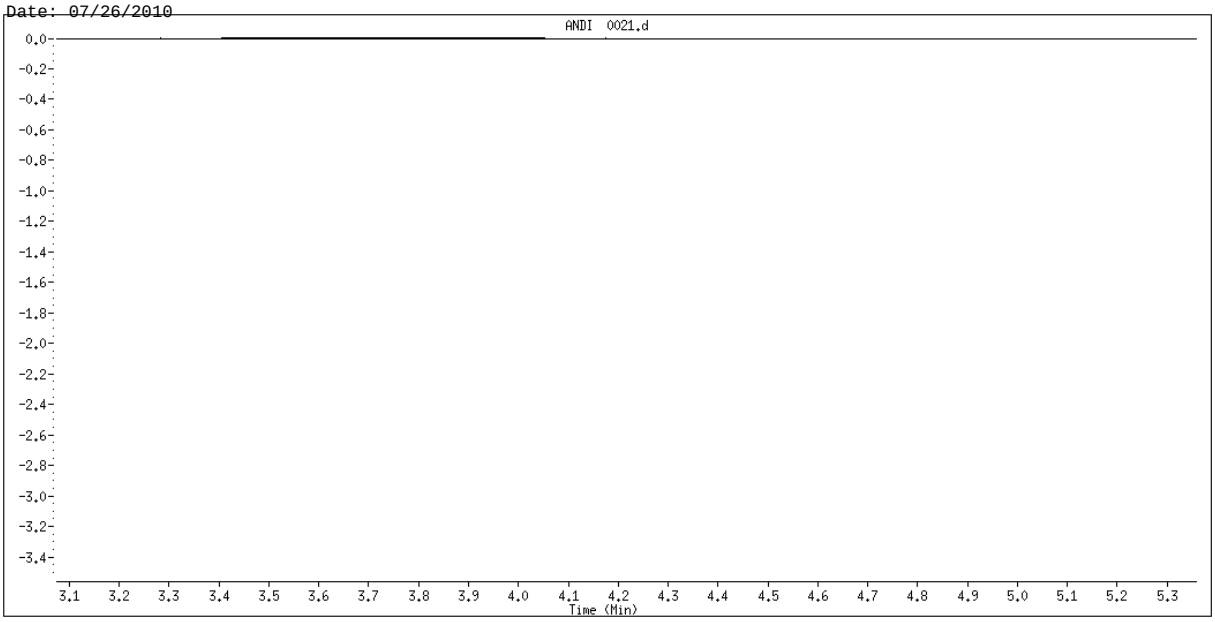
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0021.d
Date : 23-JUL-2010 17:49
Client ID:
Sample Info: L37MT ORG,50
Purge Volume: 1.0
Column phase: AS14

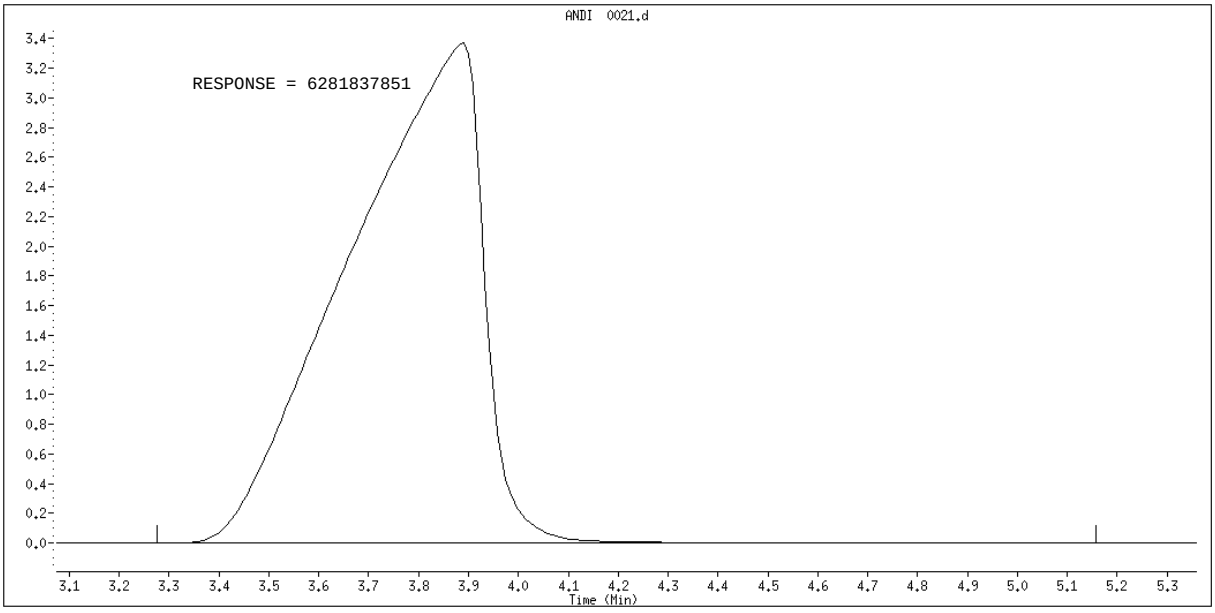
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0021.d
Inj. Date and Time: 23-JUL-2010 17:49
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0022.d
Report Date: 26-Jul-2010 10:50

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0022.d
Lab Smp Id: L37MT MS
Inj Date : 23-JUL-2010 18:05
Operator : 001754 Inst ID: ic120.i
Smp Info : L37MT MS,50,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

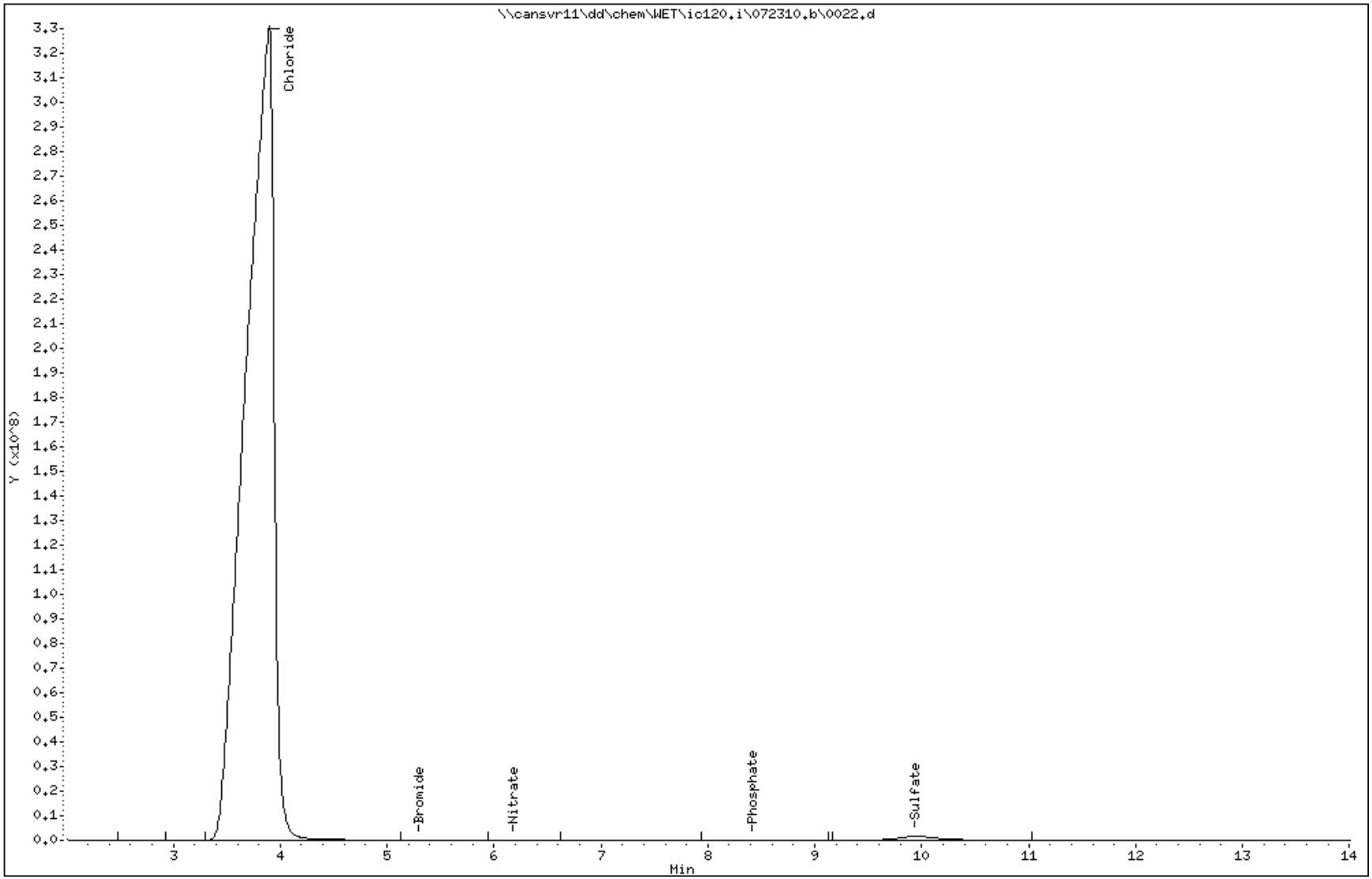
Name	Value	Description
DF	50.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.900	3.616	0.284	6061847516	752.880	37640(ARM)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.308	5.275	0.033	3657017	1.28516	64.26(R)
5 Nitrate	6.191	6.108	0.083	1151720	0.07154	3.577(aR)
6 Phosphate	8.425	8.141	0.284	39012	0.13400	6.700(R)
7 Sulfate	9.950	9.866	0.084	36689227	6.95949	348.0(R)

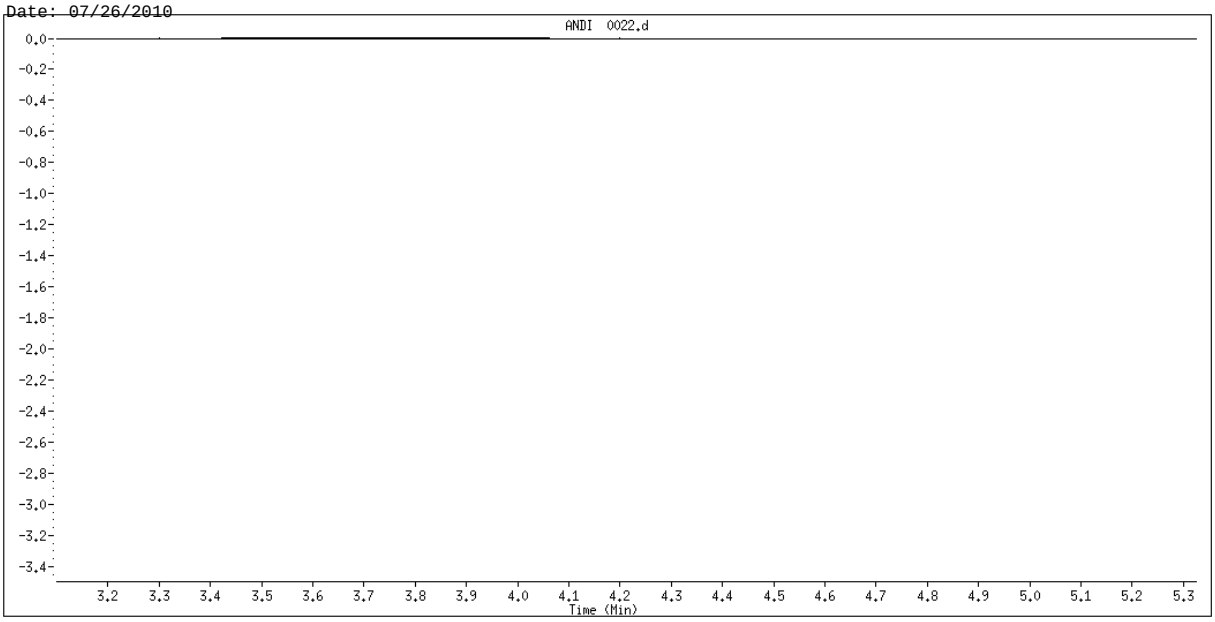
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

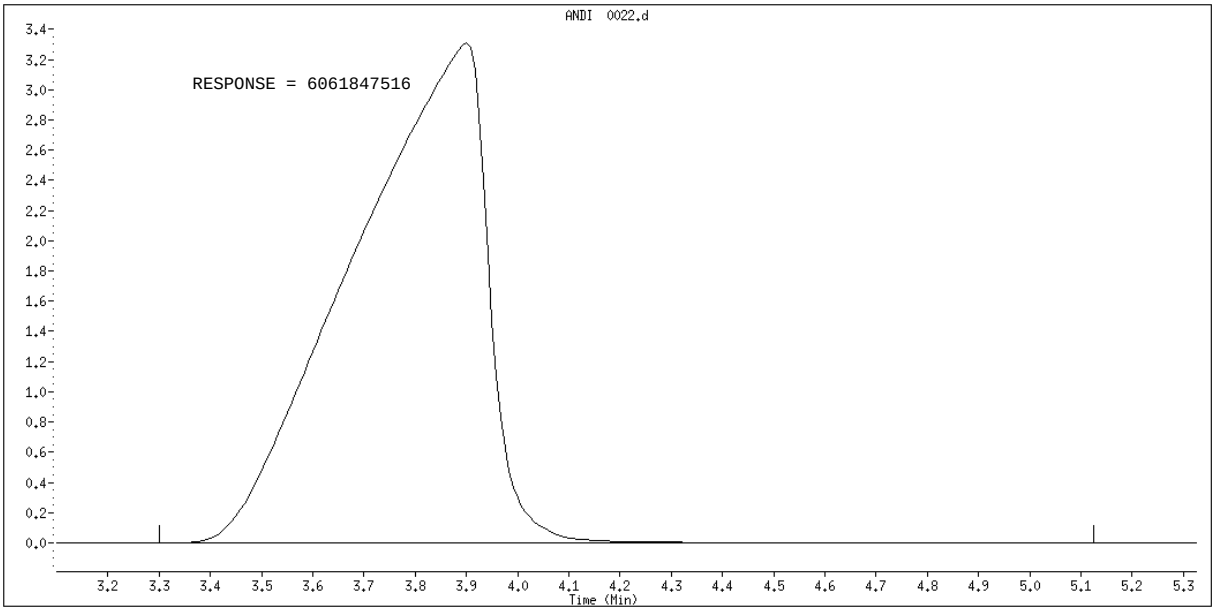
Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0022.d
Date : 23-JUL-2010 18:05
Client ID:
Instrument: ic120.i
Sample Info: L37MT MS,50,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File Name: 0022.d
Inj. Date and Time: 23-JUL-2010 18:05
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0023.d
Report Date: 26-Jul-2010 10:45

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 23-JUL-2010 18:21
Lab File ID: 0023.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	958933	958933	0.010	-1.16743	10.00000	Averaged
2 Chloride	8051545	8613501	8613501	0.010	-6.97948	10.00000	Averaged
3 Nitrite	12855941	13111897	13111897	0.010	-1.99095	10.00000	Averaged
4 Bromide	2845563	2782978	2782978	0.010	2.19938	10.00000	Averaged
5 Nitrate	16099942	15869496	15869496	0.010	1.43135	10.00000	Averaged
6 Phosphate	2.50000	2.53597	308151	0.010	-1.43862	10.00000	Quadratic
7 Sulfate	5271827	5329868	5329868	0.010	-1.10097	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0023.d
Report Date: 26-Jul-2010 10:44

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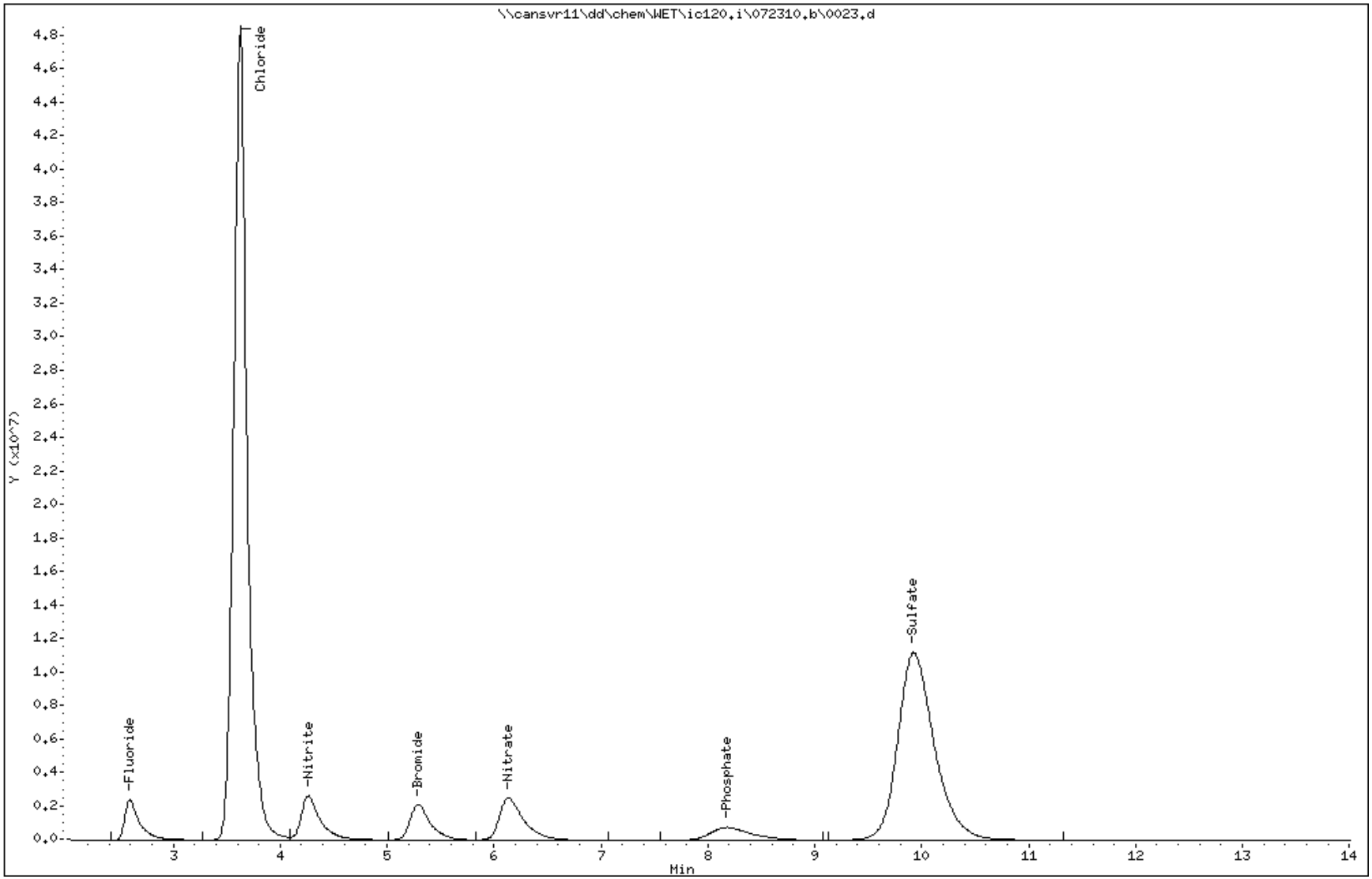
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0023.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 18:21
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	2397332	2.50000	2.529
2 Chloride	3.625	3.625	0.000	430675063	50.0000	53.49
3 Nitrite	4.266	4.266	0.000	32779742	2.50000	2.550
4 Bromide	5.291	5.291	0.000	27829781	10.0000	9.780
5 Nitrate	6.133	6.133	0.000	39673740	2.50000	2.464
6 Phosphate	8.175	8.175	0.000	770378	2.50000	2.536
7 Sulfate	9.925	9.925	0.000	266493414	50.0000	50.55

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0023.d
Date : 23-JUL-2010 18:21
Client ID:
Instrument: ic120.i
Sample Info: CCV,,2
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0024.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

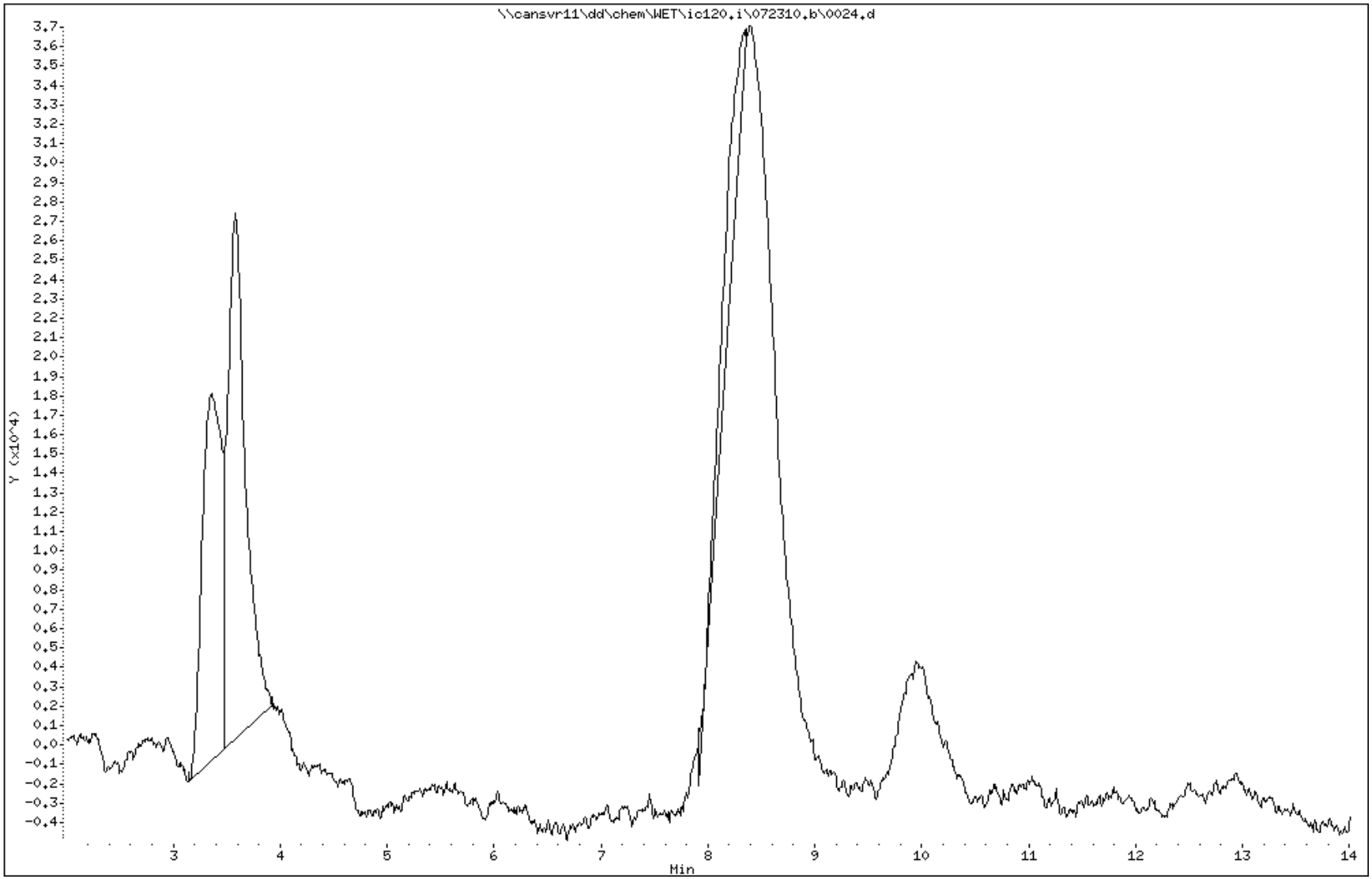
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0024.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 18:38
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0024.d
Date : 23-JUL-2010 18:38
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0025.d
Report Date: 26-Jul-2010 10:50

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0025.d
Lab Smp Id: L37MT MSD
Inj Date : 23-JUL-2010 18:54
Operator : 001754 Inst ID: ic120.i
Smp Info : L37MT MSD,50,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

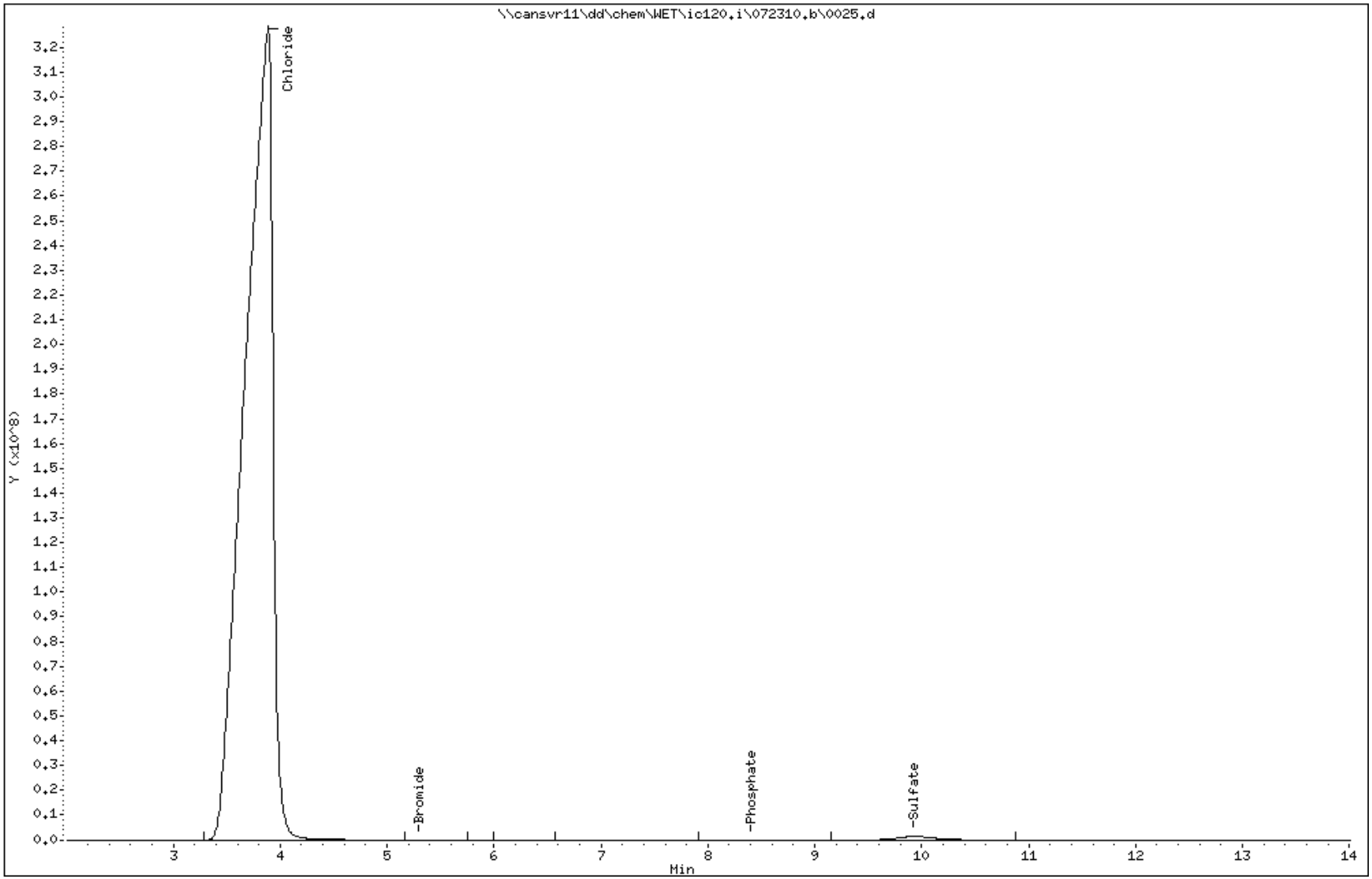
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.891	3.616	0.275	5961963359	740.474	37020(ARM)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.308	5.275	0.033	1353669	0.47571	23.78(R)
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.408	8.141	0.267	39870	0.13694	6.847(R)
7 Sulfate	9.933	9.866	0.067	34197752	6.48689	324.3(R)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

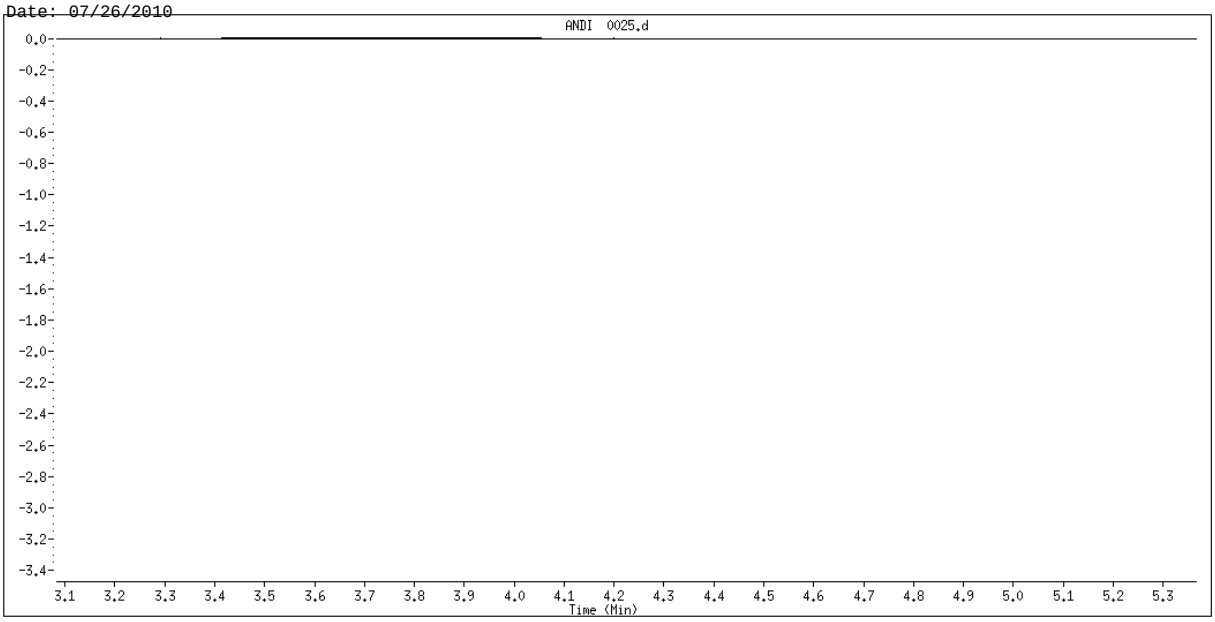
802

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0025.d
Date : 23-JUL-2010 18:54
Client ID:
Instrument: ic120.i
Sample Info: L37MT MSD,50,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00

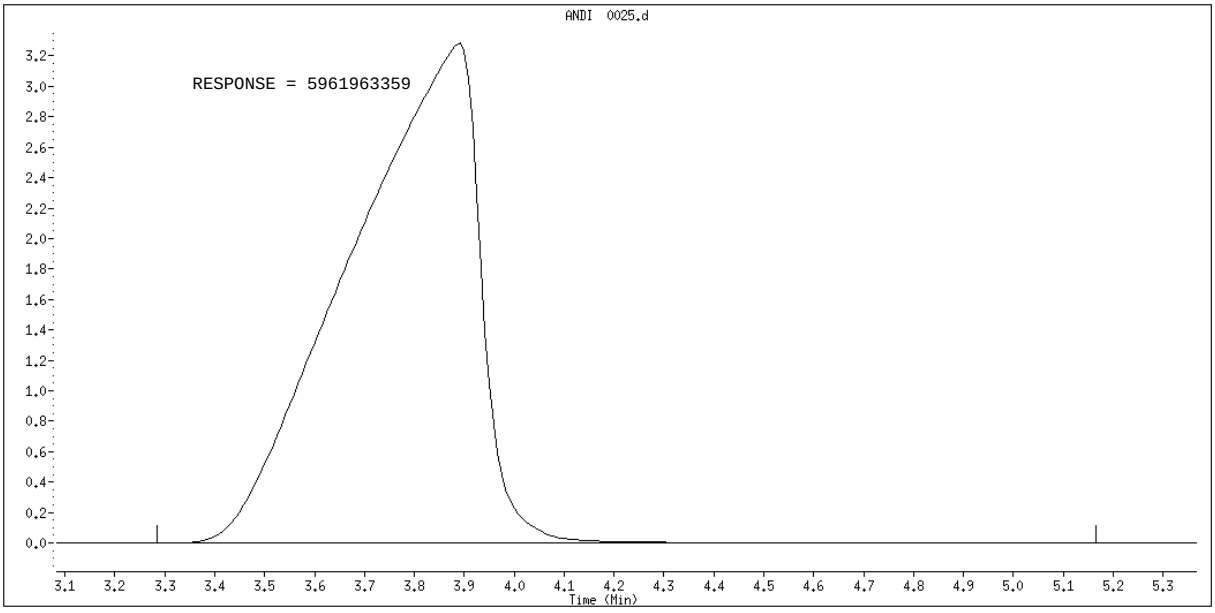


North Canton

Data File Name: 0025.d
Inj. Date and Time: 23-JUL-2010 18:54
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Manually Assigned

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0026.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0026.d
Lab Smp Id: L4JL9
Inj Date : 23-JUL-2010 19:11
Operator : 001754 Inst ID: ic120.i
Smp Info : L4JL9,50
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

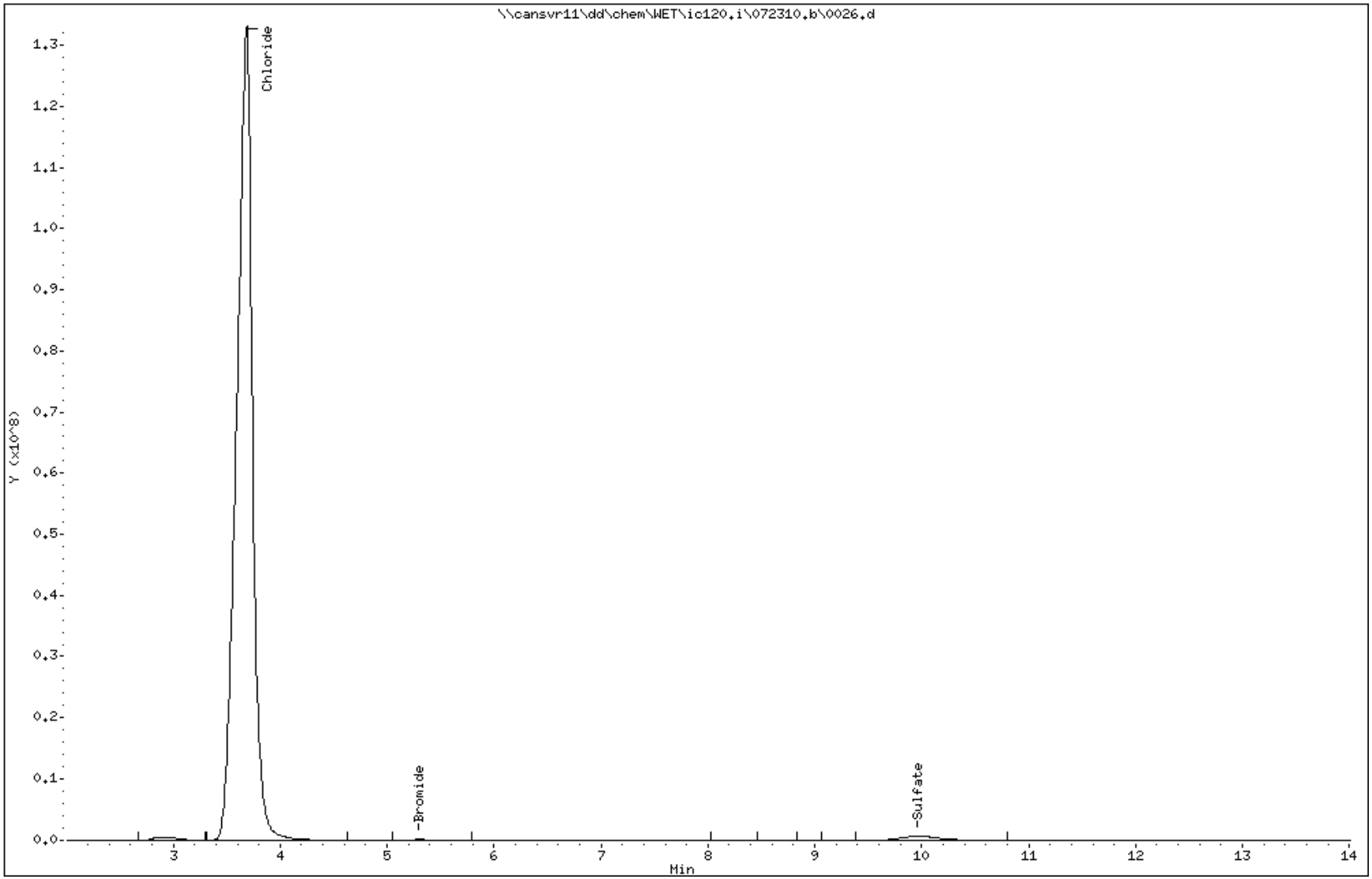
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.691	3.625	0.066	1376175478	170.921	8546
3 Nitrite	Compound Not Detected.					
4 Bromide	5.308	5.291	0.017	1490651	0.52385	26.19
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	9.966	9.925	0.041	16795726	3.18594	159.3

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0026.d
Date : 23-JUL-2010 19:11
Client ID:
Sample Info: L4JL9,50
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0027.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0027.d
Lab Smp Id: L37M1
Inj Date : 23-JUL-2010 19:27
Operator : 001754 Inst ID: ic120.i
Smp Info : L37M1,20
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.650	3.625	0.025	1044038187	129.669	2593
3 Nitrite	Compound Not Detected.					
4 Bromide	5.266	5.291	-0.025	511287	0.17968	3.594(a)
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	9.841	9.925	-0.084	204160433	38.7267	774.5

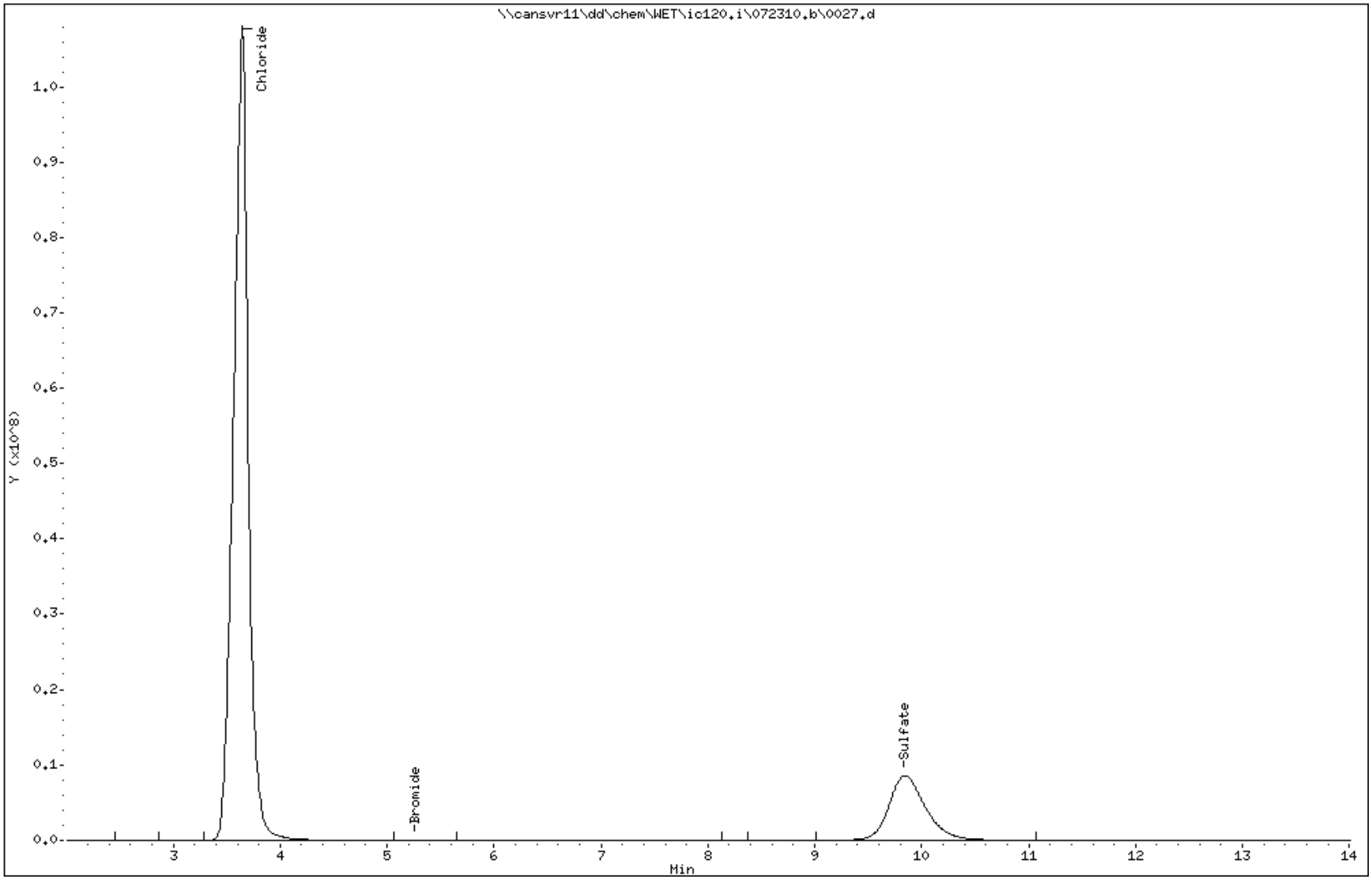
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

807

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0027.d
Date : 23-JUL-2010 19:27
Client ID:
Sample Info: L37M1,20
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



North Canton

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0028.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

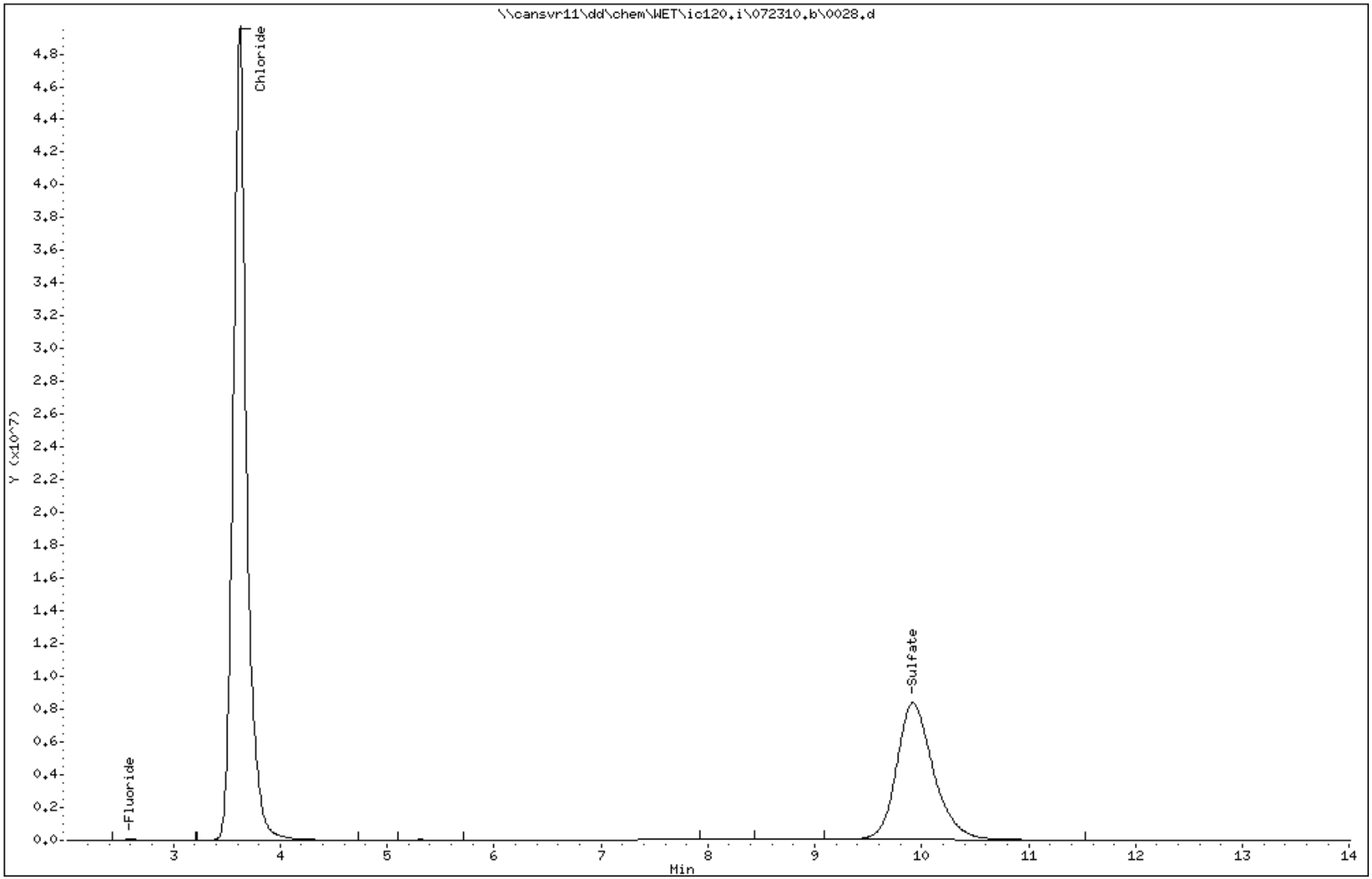
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0028.d
Lab Smp Id: L37M3
Inj Date : 23-JUL-2010 19:43
Operator : 001754 Inst ID: ic120.i
Smp Info : L37M3,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1	Fluoride	2.591	2.591	0.000	57203	0.06035	0.3017
2	Chloride	3.625	3.625	0.000	438013688	54.4012	272.0
3	Nitrite	Compound Not Detected.					
4	Bromide	Compound Not Detected.					
5	Nitrate	Compound Not Detected.					
6	Phosphate	Compound Not Detected.					
7	Sulfate	9.916	9.925	-0.009	200657549	38.0622	190.3

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0028.d
Date : 23-JUL-2010 19:43
Client ID:
Instrument: ic120.i
Sample Info: L37M3,5
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0029.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0029.d
Lab Smp Id: L37M5
Inj Date : 23-JUL-2010 20:00
Operator : 001754 Inst ID: ic120.i
Smp Info : L37M5,10
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

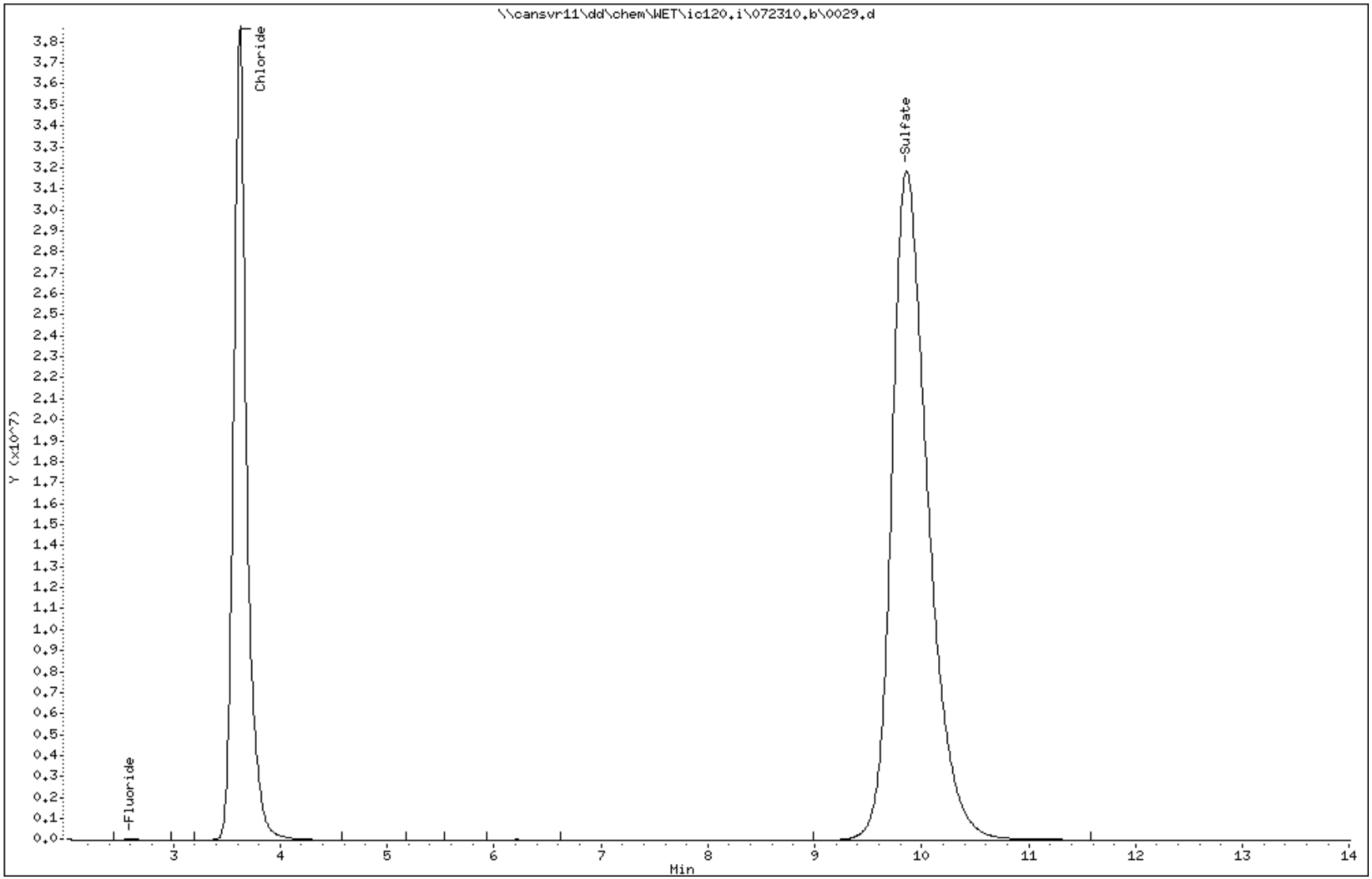
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.600	2.591	0.009	49365		0.05208	0.5208
2 Chloride	3.625	3.625	0.000	337173738		41.8769	418.8
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	Compound Not Detected.						
7 Sulfate	9.858	9.925	-0.067	751112728		142.477	1425

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0029.d
Date : 23-JUL-2010 20:00
Client ID:
Sample Info: L37M5,10
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0030.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0030.d
Lab Smp Id: L37M6
Inj Date : 23-JUL-2010 20:16
Operator : 001754 Inst ID: ic120.i
Smp Info : L37M6,20
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

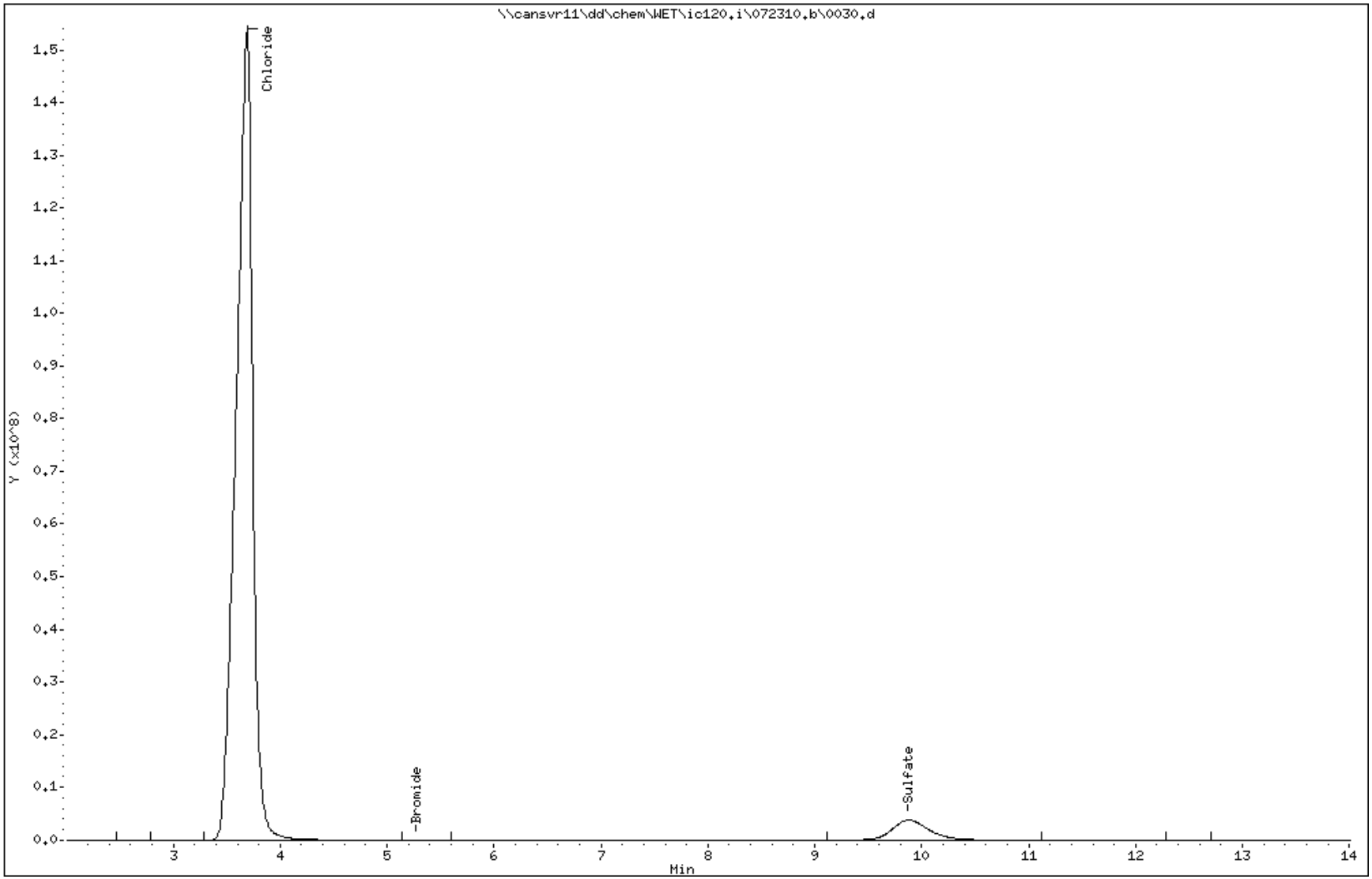
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.691	3.625	0.066	1659358038	206.092	4122(A)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.275	5.291	-0.016	361934	0.12719	2.544(a)
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	9.875	9.925	-0.050	92374986	17.5224	350.4

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0030.d
Date : 23-JUL-2010 20:16
Client ID:
Sample Info: L37M6,20
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0031.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0031.d
Lab Smp Id: L37M7
Inj Date : 23-JUL-2010 20:33
Operator : 001754 Inst ID: ic120.i
Smp Info : L37M7,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

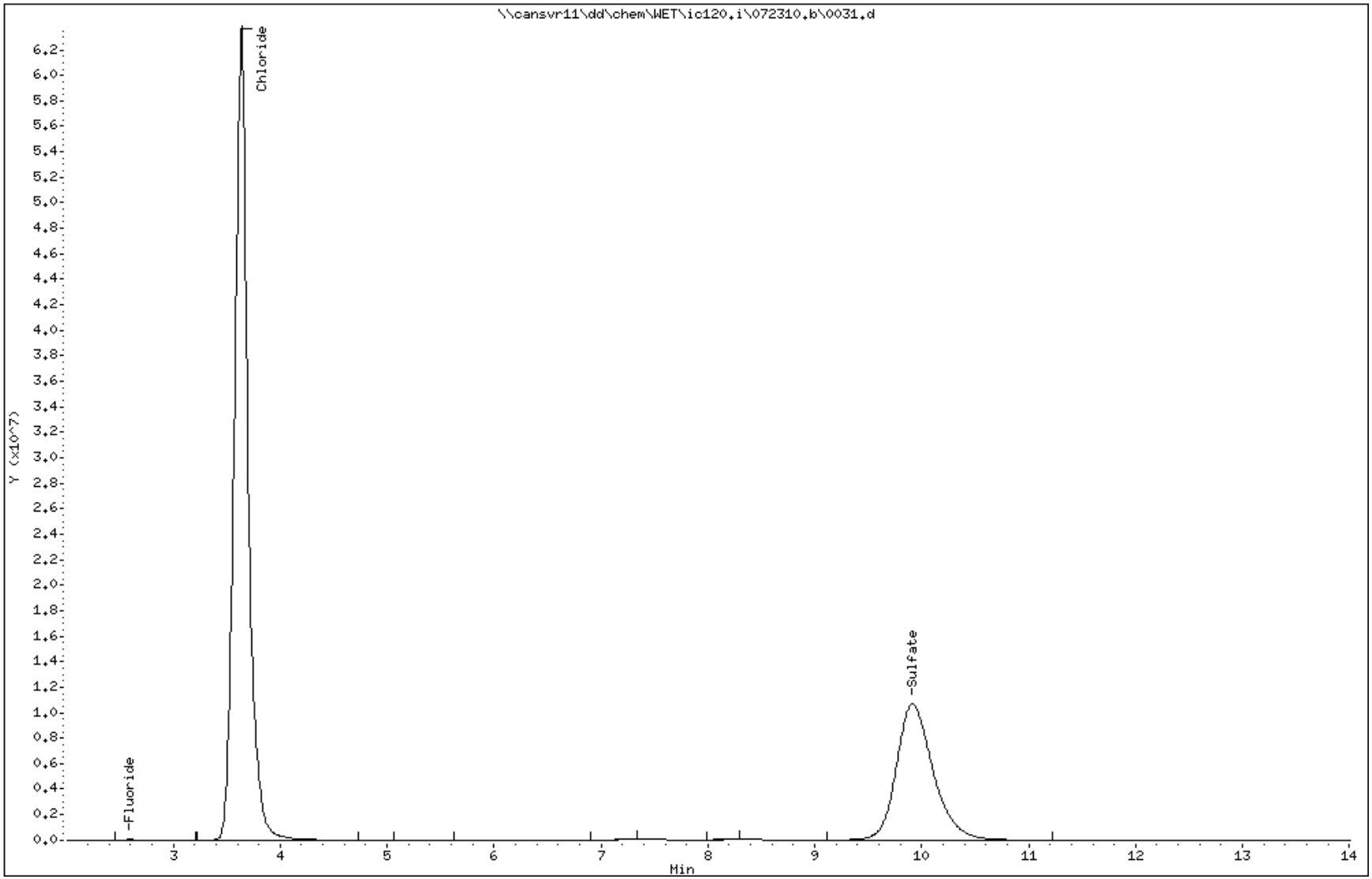
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	55424		0.05847	0.2924
2 Chloride	3.641	3.625	0.016	569729995		70.7603	353.8
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	Compound Not Detected.						
7 Sulfate	9.916	9.925	-0.009	254819261		48.3360	241.7

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0031.d
Date : 23-JUL-2010 20:33
Client ID:
Sample Info: L37M7,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0032.d
Report Date: 26-Jul-2010 10:51

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0032.d
Lab Smp Id: L37NC
Inj Date : 23-JUL-2010 20:49
Operator : 001754 Inst ID: ic120.i
Smp Info : L37NC
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

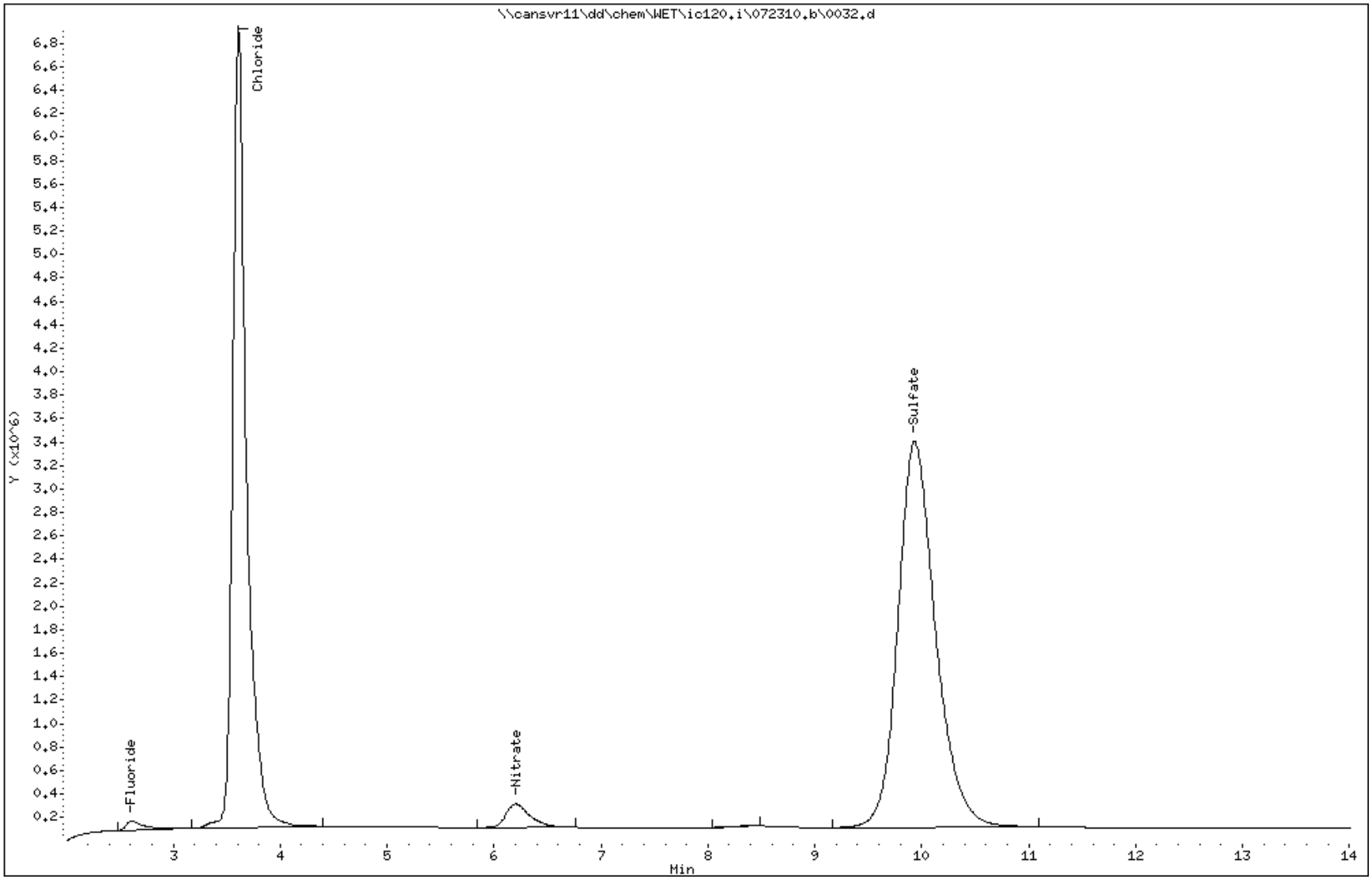
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.608	2.591	0.017	78585	0.08291	0.08291(M)
2 Chloride	3.608	3.616	-0.008	61918156	7.69022	7.690(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.208	6.108	0.100	3173971	0.19714	0.1971
6 Phosphate	Compound Not Detected.					
7 Sulfate	9.933	9.866	0.067	80336383	15.2388	15.24

QC Flag Legend

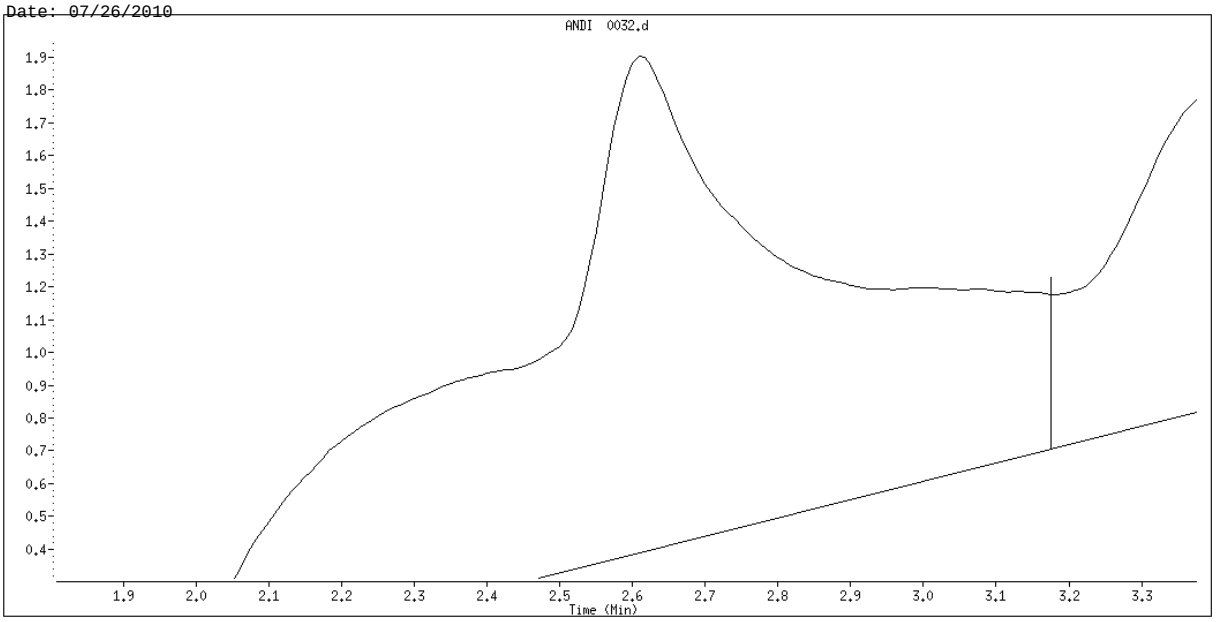
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0032.d
Date : 23-JUL-2010 20:49
Client ID:
Sample Info: L37NC
Purge Volume: 1.0
Column phase: AS14

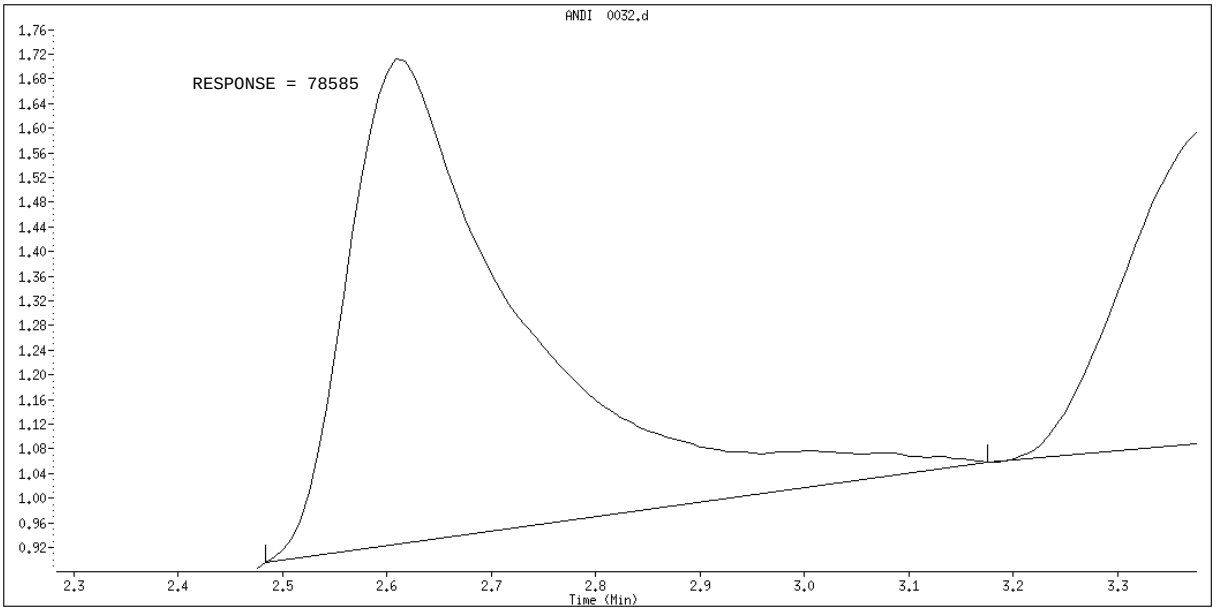
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0032.d
Inj. Date and Time: 23-JUL-2010 20:49
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



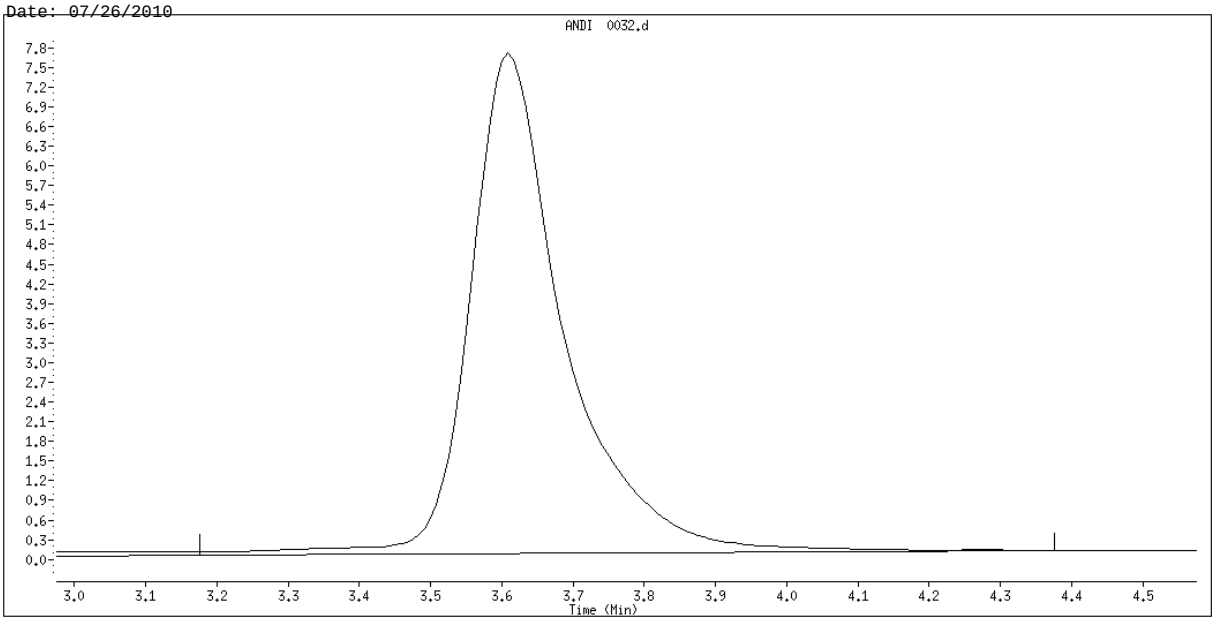
Original Integration



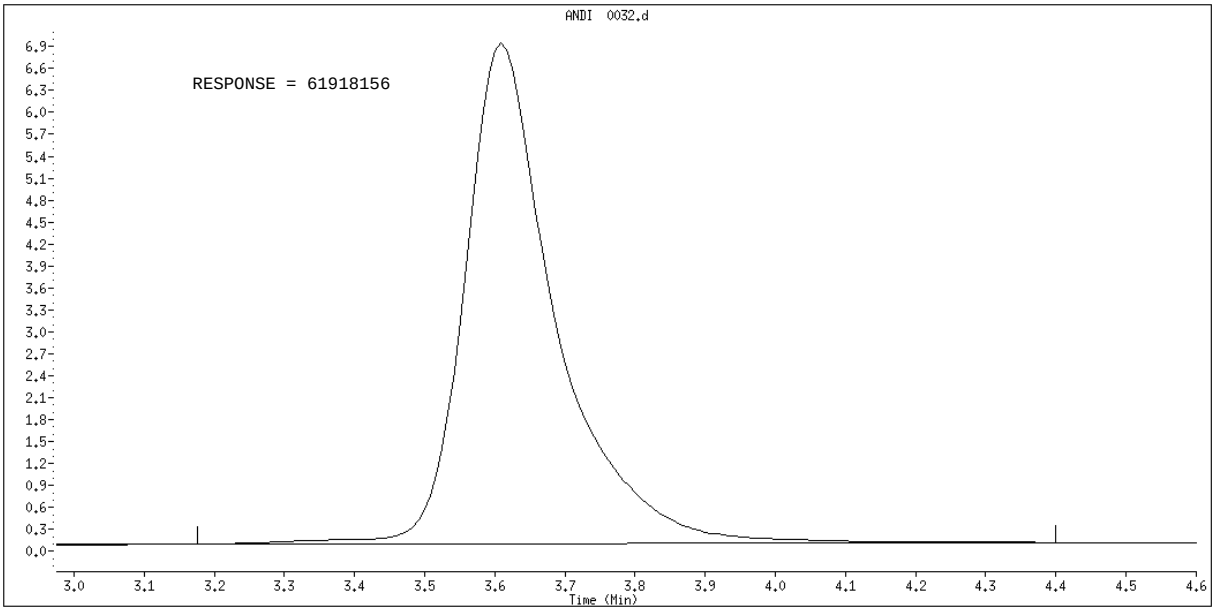
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0032.d
Inj. Date and Time: 23-JUL-2010 20:49
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0033.d
Report Date: 26-Jul-2010 10:52

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0033.d
Lab Smp Id: L37N0 ORG
Inj Date : 23-JUL-2010 21:05
Operator : 001754 Inst ID: ic120.i
Smp Info : L37N0 ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

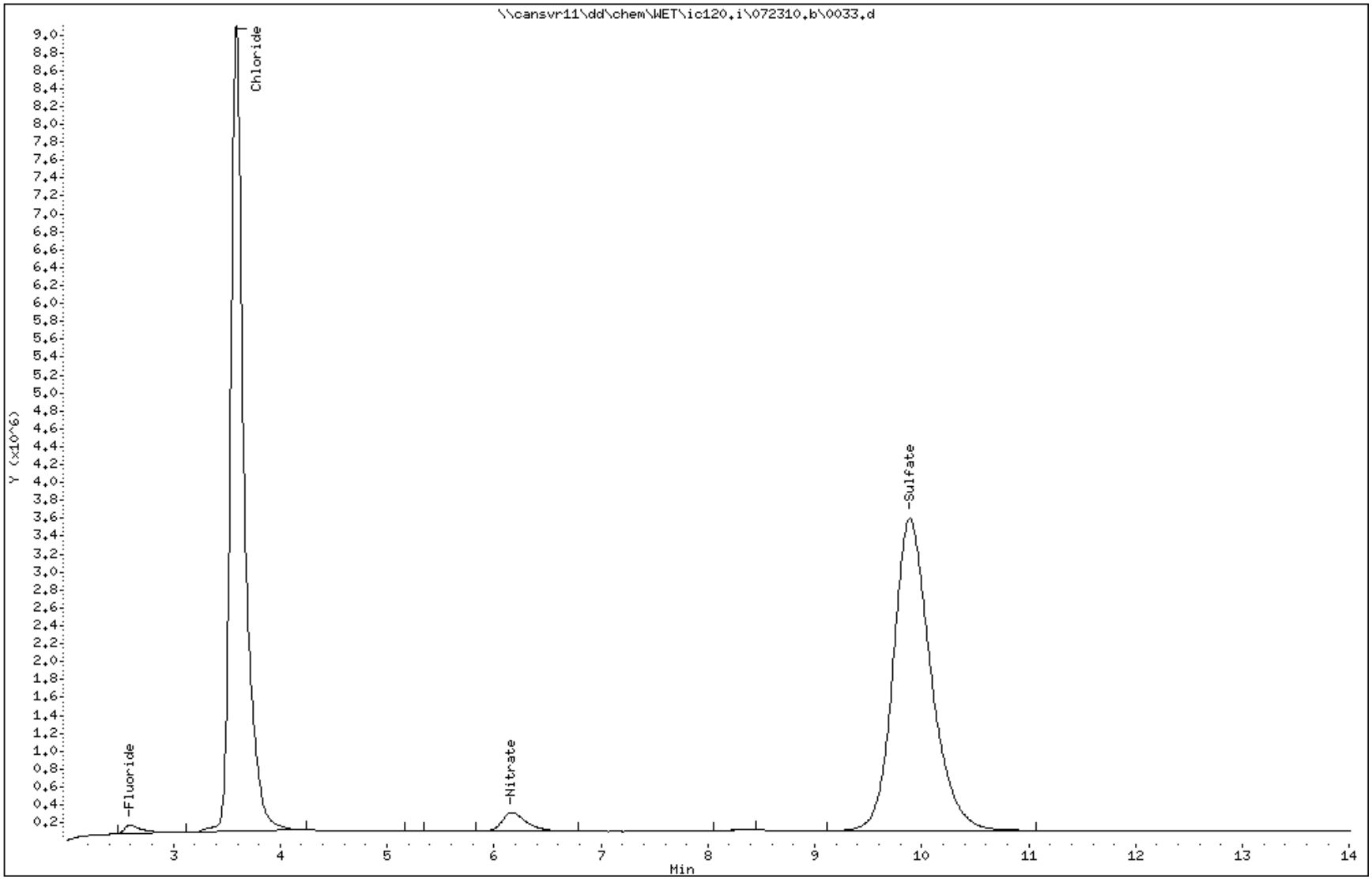
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.591	2.591	0.000	94830	0.10005	0.1000(M)
2 Chloride	3.591	3.616	-0.025	79780498	9.90872	9.909(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.166	6.108	0.058	3374547	0.20960	0.2096
6 Phosphate	Compound Not Detected.					
7 Sulfate	9.891	9.866	0.025	85068430	16.1364	16.14

QC Flag Legend

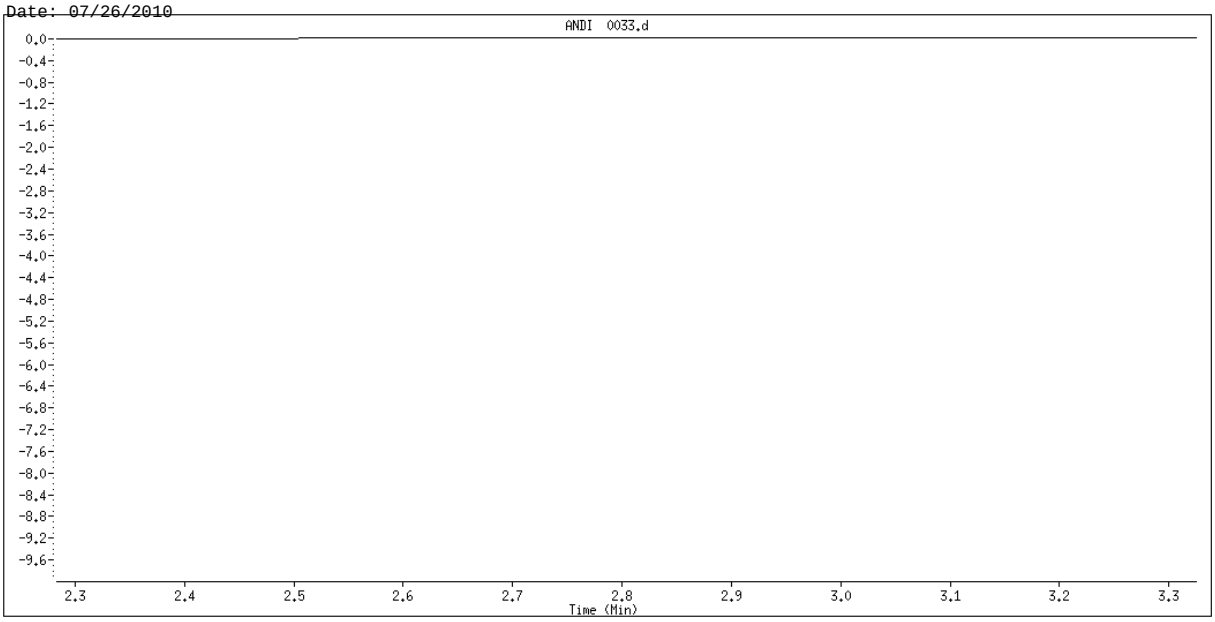
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0033.d
Date : 23-JUL-2010 21:05
Client ID:
Sample Info: L37N0 ORG
Purge Volume: 1.0
Column phase: AS14

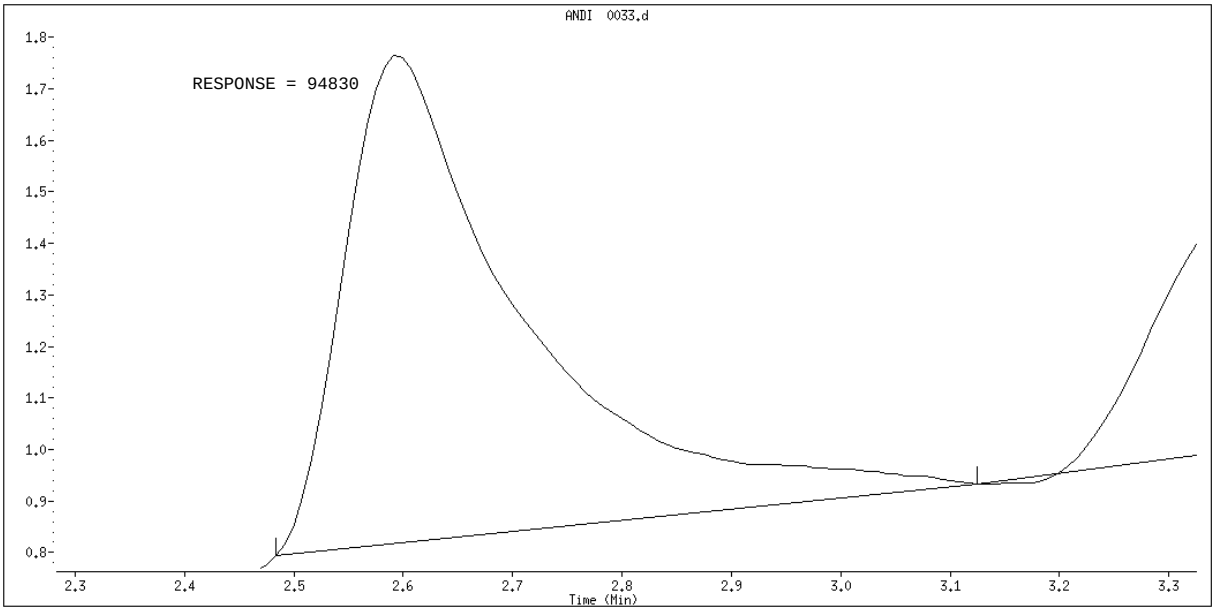
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0033.d
Inj. Date and Time: 23-JUL-2010 21:05
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



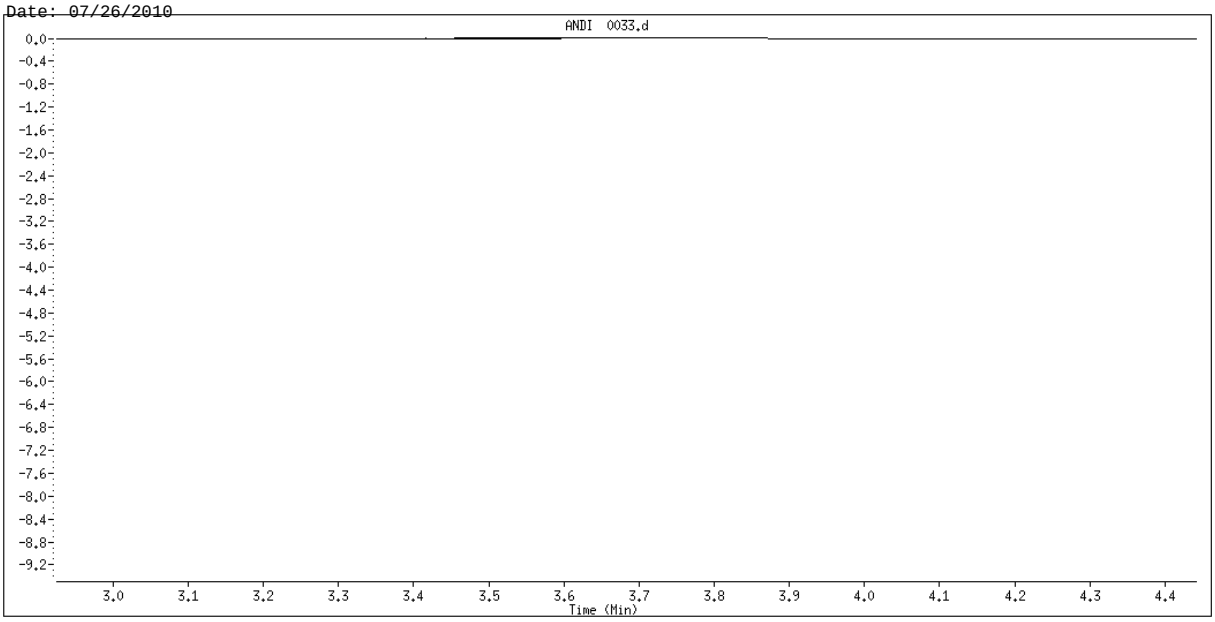
Original Integration



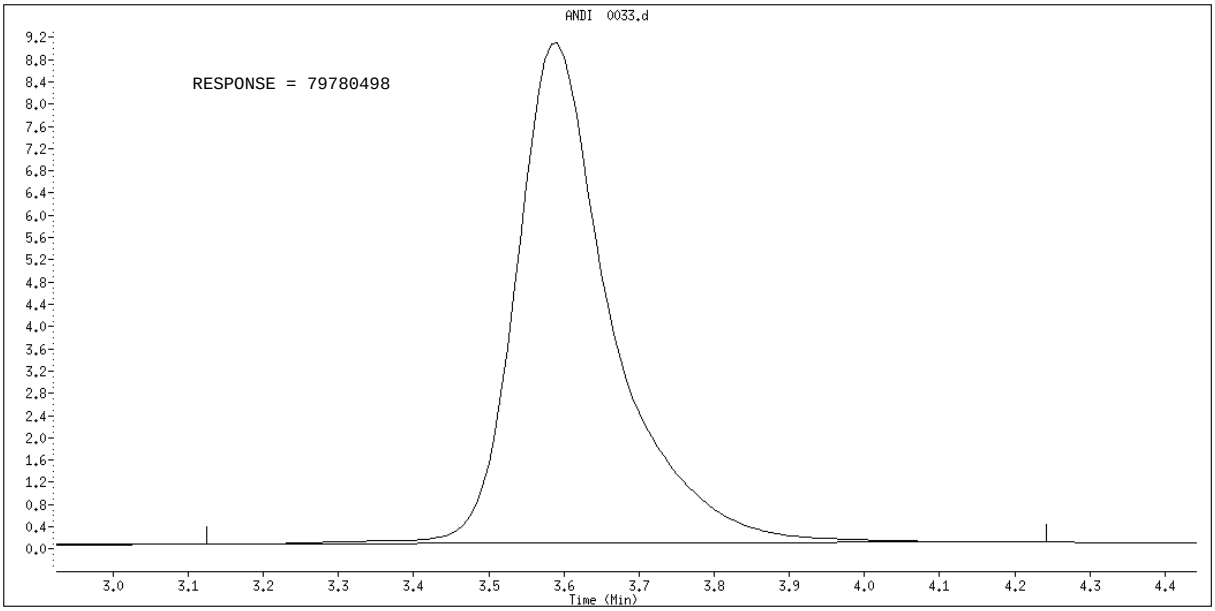
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0033.d
Inj. Date and Time: 23-JUL-2010 21:05
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0034.d
Report Date: 26-Jul-2010 10:45

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ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0034.d
Lab Smp Id: L37N0 MS
Inj Date : 23-JUL-2010 21:22
Operator : 001754 Inst ID: ic120.i
Smp Info : L37N0 MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:44 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

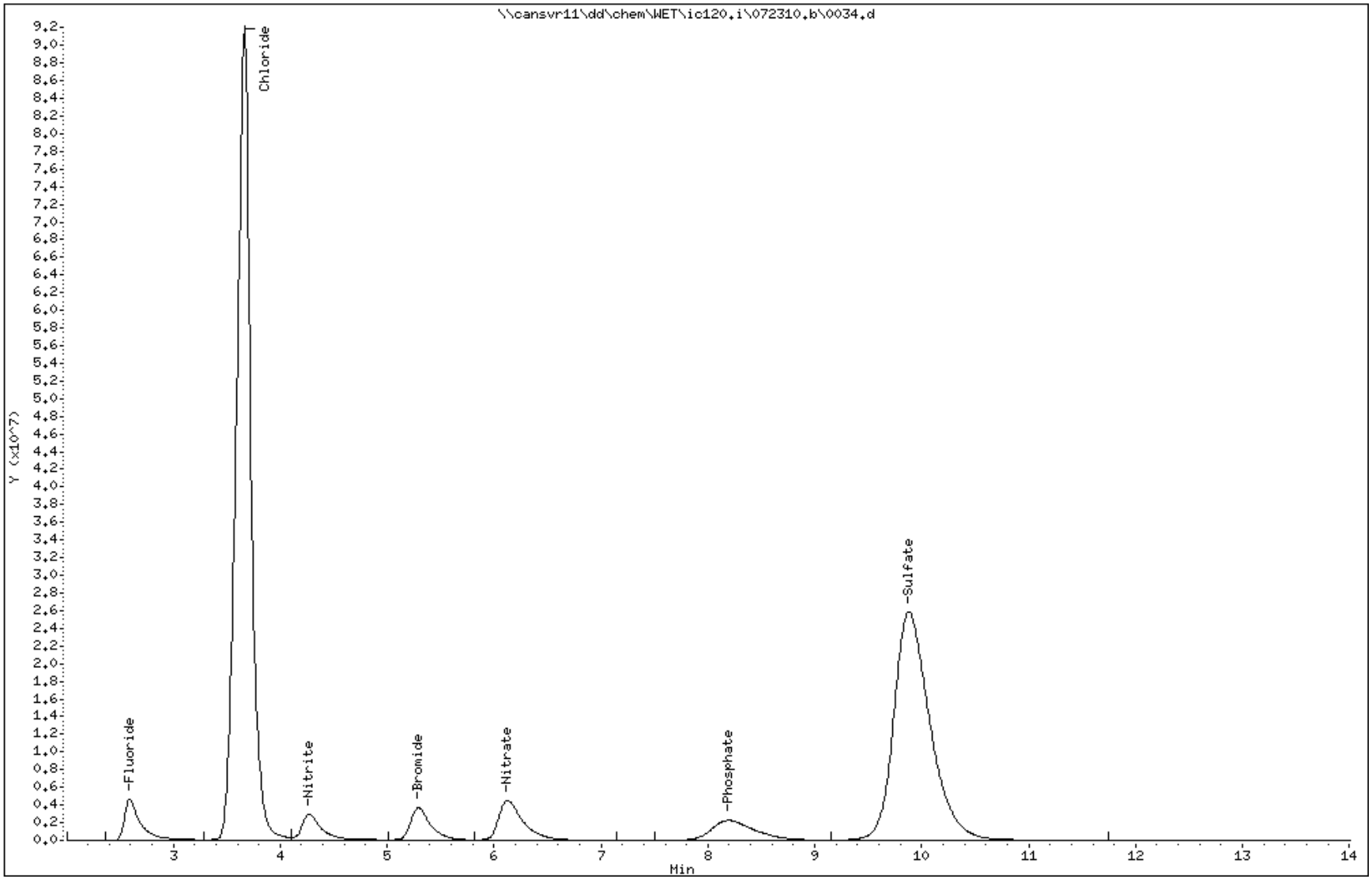
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	4662319	4.91875	4.919(R)
2 Chloride	3.666	3.625	0.041	866899800	107.669	107.7(R)
3 Nitrite	4.275	4.266	0.009	36779523	2.86090	2.861(R)
4 Bromide	5.291	5.291	0.000	46605035	16.3781	16.38(R)
5 Nitrate	6.125	6.133	-0.008	70734969	4.39349	4.393(R)
6 Phosphate	8.191	8.175	0.016	2258197	6.77677	6.777(R)
7 Sulfate	9.883	9.925	-0.042	611133379	115.924	115.9(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0034.d
Date : 23-JUL-2010 21:22
Client ID:
Instrument: ic120.i
Sample Info: L37N0 MS,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0035.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 23-JUL-2010 21:38
Lab File ID: 0035.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	964918	964918	0.010	-1.79891	10.00000	Averaged
2 Chloride	8051545	8587992	8587992	0.010	-6.66266	10.00000	Averaged
3 Nitrite	12855941	13082544	13082544	0.010	-1.76264	10.00000	Averaged
4 Bromide	2845563	2772315	2772315	0.010	2.57411	10.00000	Averaged
5 Nitrate	16099942	15796993	15796993	0.010	1.88168	10.00000	Averaged
6 Phosphate	2.50000	2.74595	335003	0.010	-9.83809	10.00000	Quadratic
7 Sulfate	5271827	5301256	5301256	0.010	-0.55822	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0035.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0035.d
Lab Smp Id: CCV
Inj Date : 23-JUL-2010 21:38
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

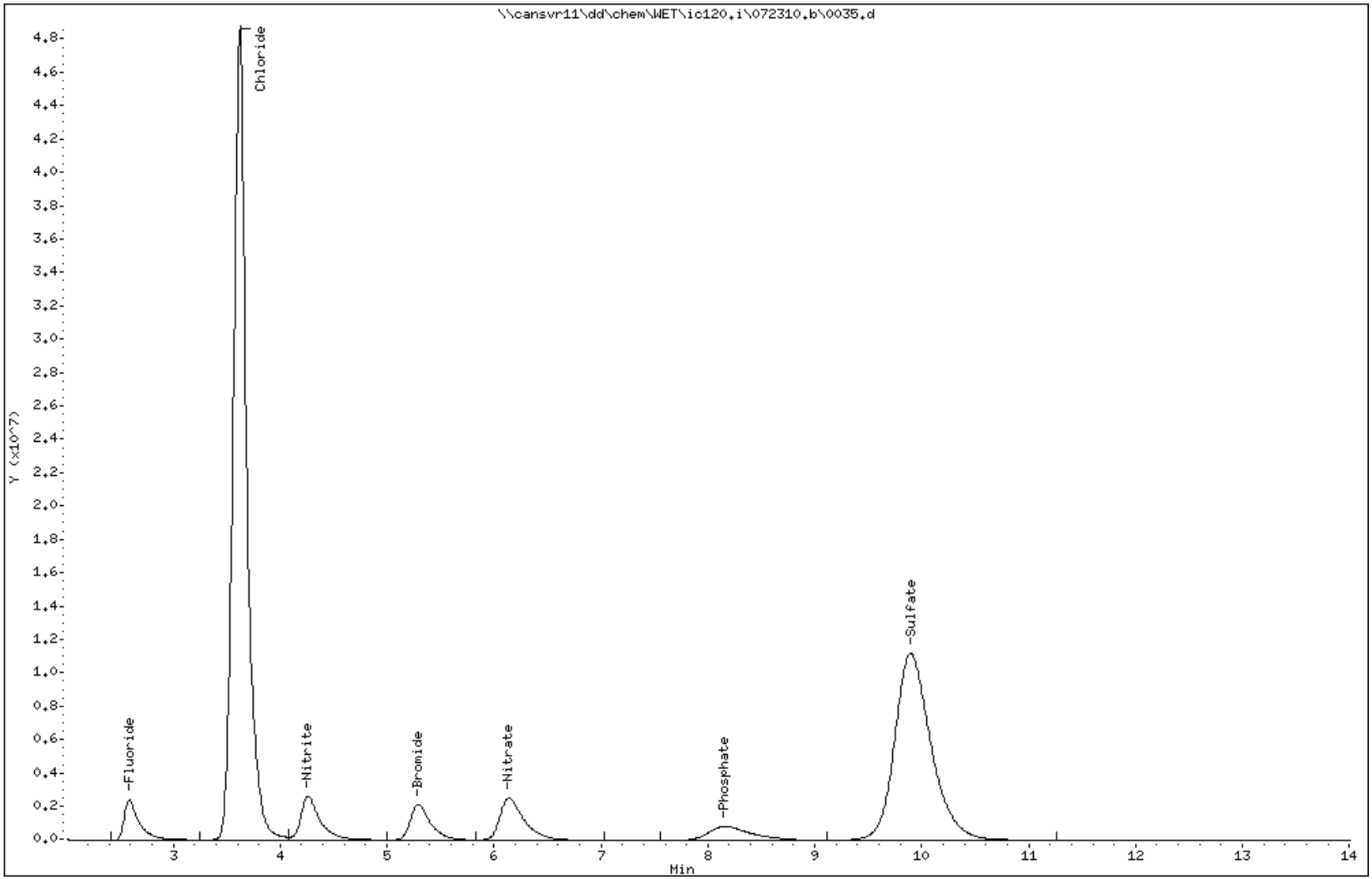
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	2412296	2.50000	2.545
2 Chloride	3.625	3.625	0.000	429399617	50.0000	53.33
3 Nitrite	4.258	4.258	0.000	32706361	2.50000	2.544
4 Bromide	5.291	5.291	0.000	27723149	10.0000	9.742
5 Nitrate	6.141	6.141	0.000	39492483	2.50000	2.453
6 Phosphate	8.158	8.158	0.000	837507	2.50000	2.746
7 Sulfate	9.900	9.900	0.000	265062775	50.0000	50.28

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0035.d
Date : 23-JUL-2010 21:38
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0036.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

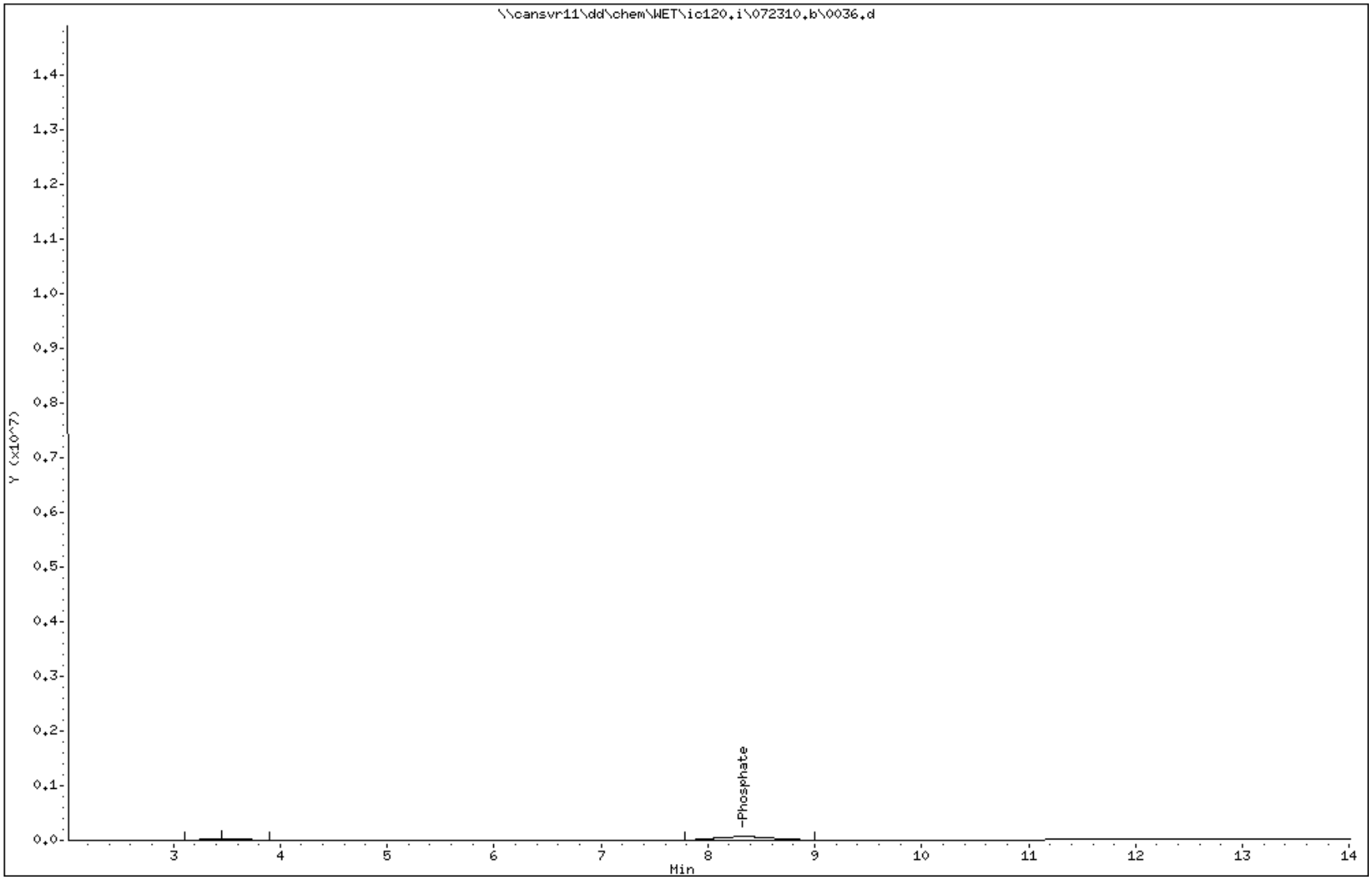
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0036.d
Lab Smp Id: CCB
Inj Date : 23-JUL-2010 21:55
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.333	8.158	0.175	58328	0.20013	0.2001
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0036.d
Date : 23-JUL-2010 21:55
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0037.d
Report Date: 26-Jul-2010 10:53

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0037.d
Lab Smp Id: L37N2
Inj Date : 23-JUL-2010 22:11
Operator : 001754 Inst ID: ic120.i
Smp Info : L37N2
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

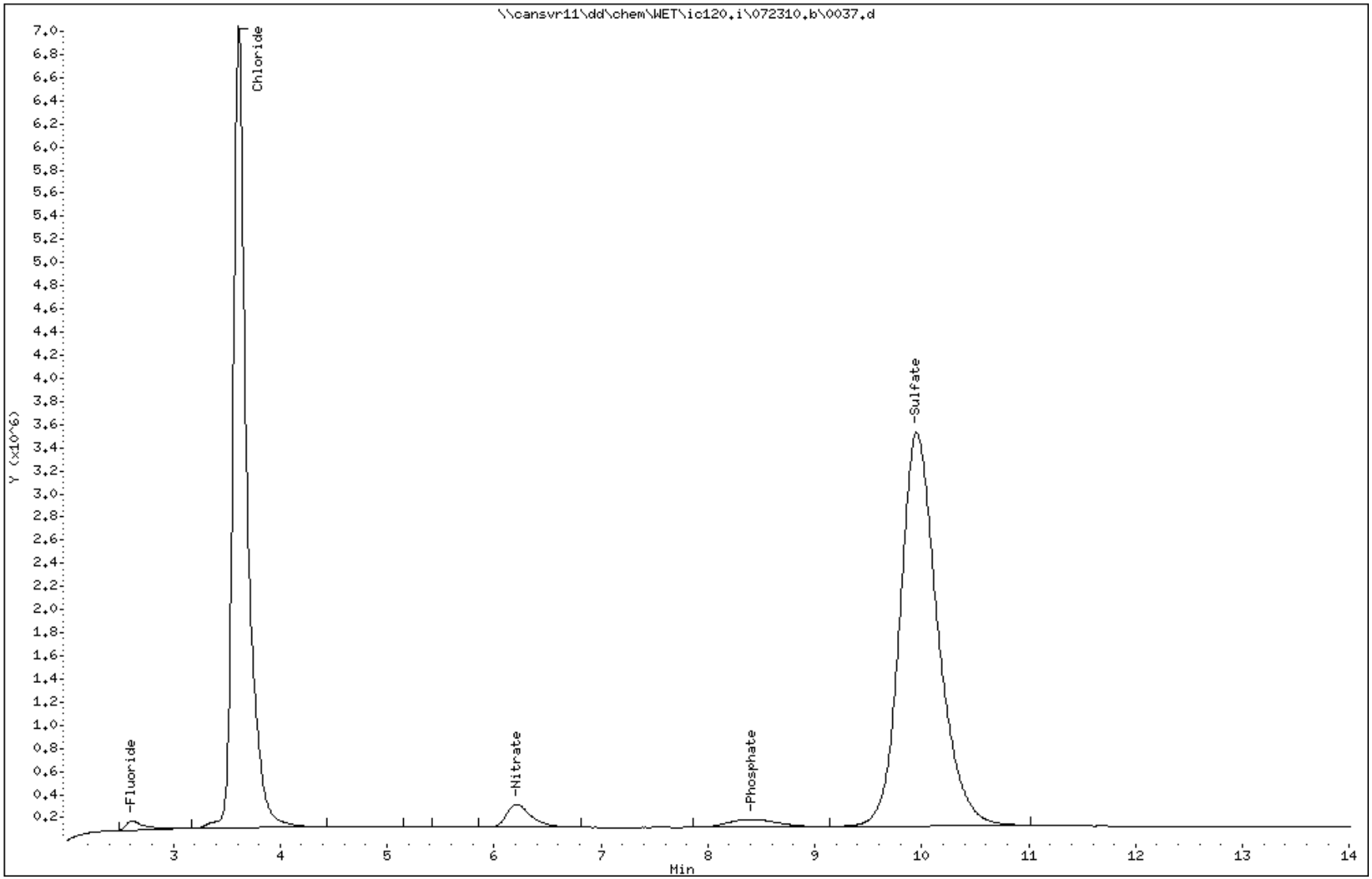
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.608	2.591	0.017	79768	0.08416	0.08416(M)
2 Chloride	3.608	3.616	-0.008	62899314	7.81208	7.812(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.208	6.108	0.100	3174880	0.19720	0.1972
6 Phosphate	8.416	8.141	0.275	64394	0.22086	0.2209
7 Sulfate	9.950	9.866	0.084	83377060	15.8156	15.82

QC Flag Legend

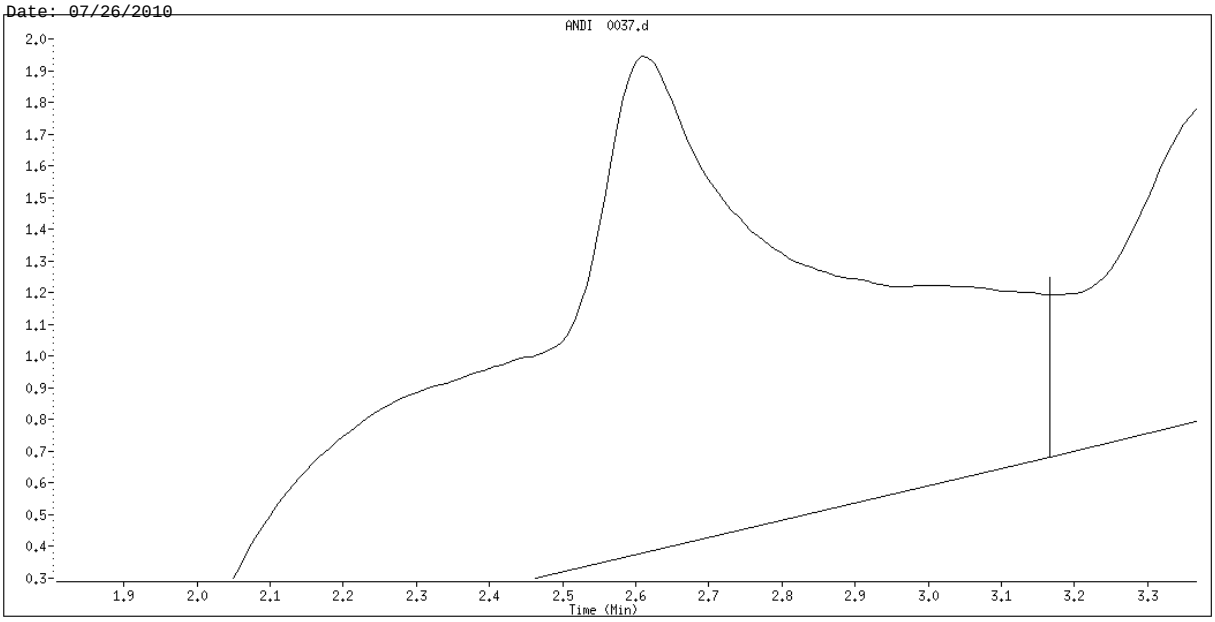
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0037.d
Date : 23-JUL-2010 22:11
Client ID:
Sample Info: L37N2
Purge Volume: 1.0
Column phase: AS14

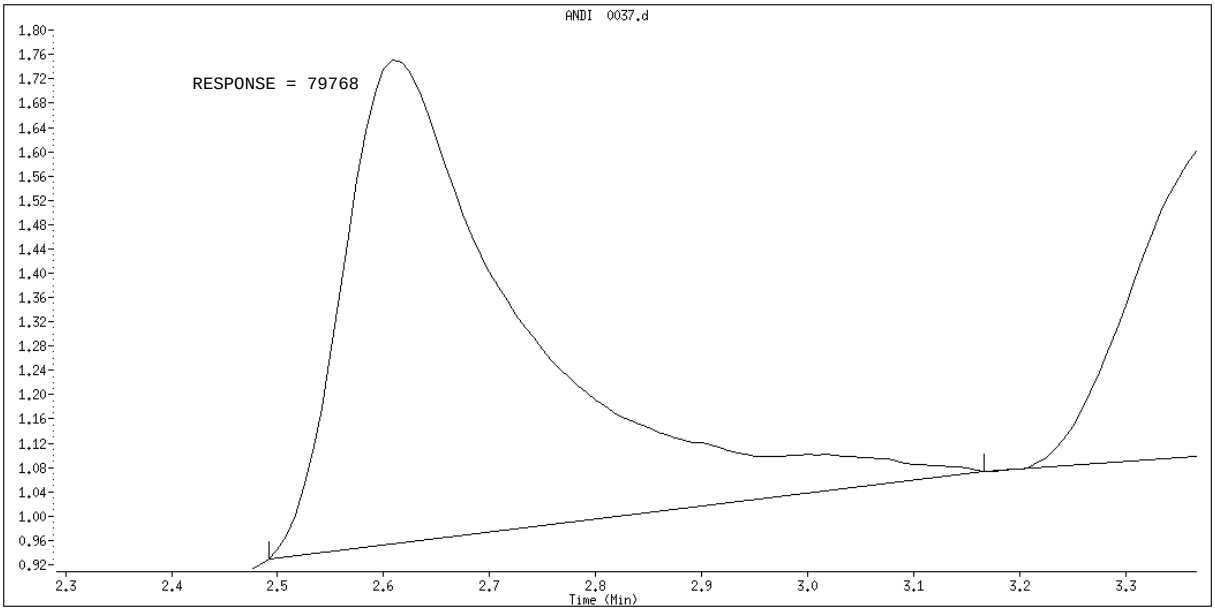
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0037.d
Inj. Date and Time: 23-JUL-2010 22:11
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



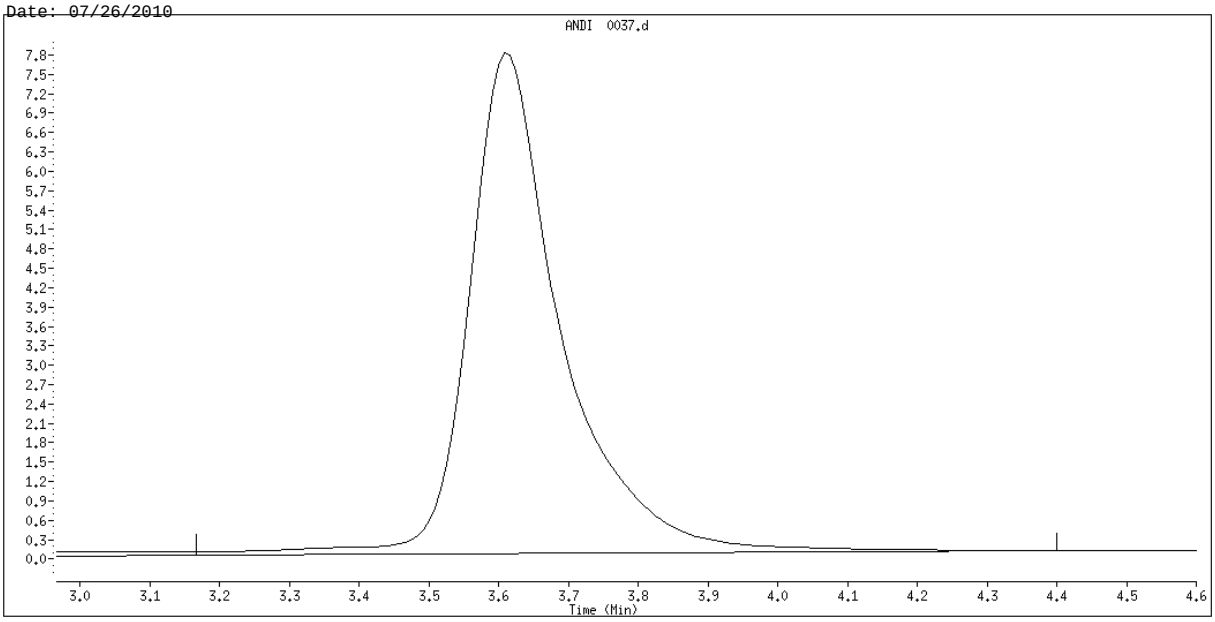
Original Integration



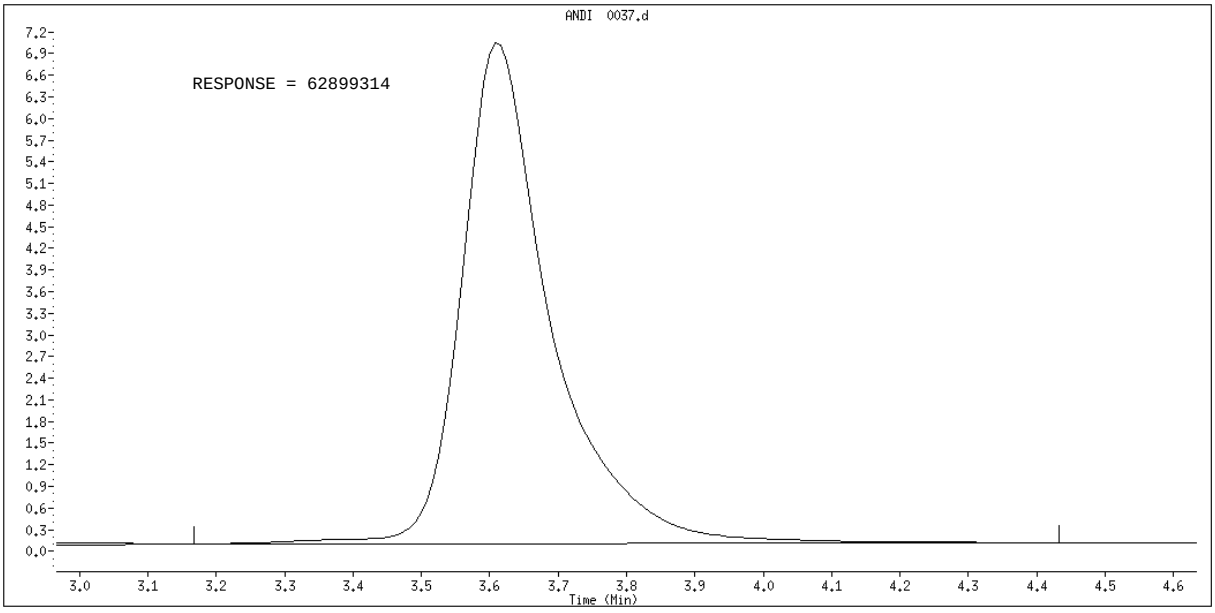
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0037.d
Inj. Date and Time: 23-JUL-2010 22:11
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0038.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0038.d
Lab Smp Id: L37N7
Inj Date : 23-JUL-2010 22:28
Operator : 001754 Inst ID: ic120.i
Smp Info : L37N7,20
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

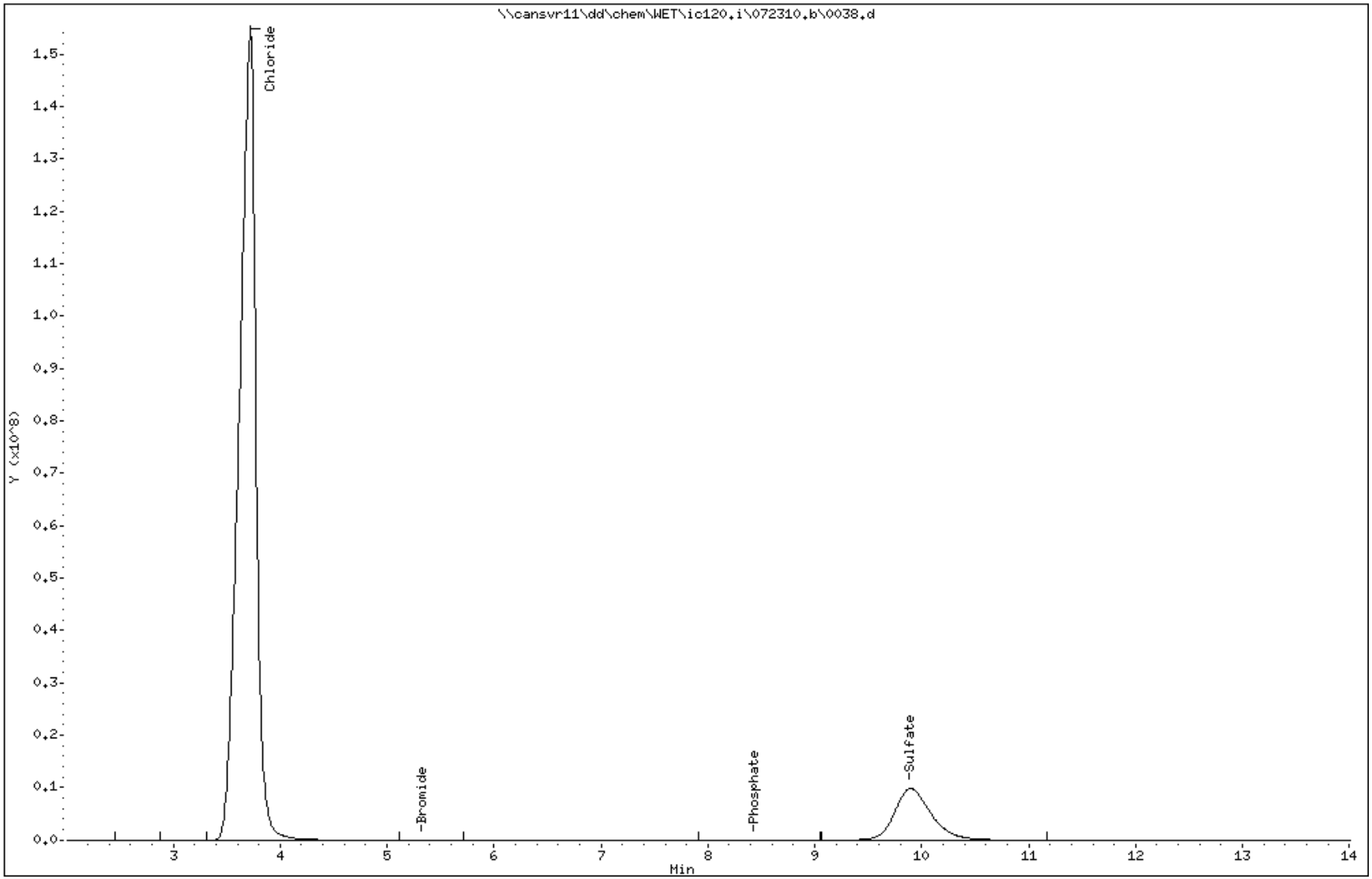
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	3.725	3.625	0.100	1681658959	208.862	4177(A)
3 Nitrite	Compound Not Detected.					
4 Bromide	5.325	5.291	0.034	698569	0.24549	4.910
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.441	8.158	0.283	29104	0.10002	2.000
7 Sulfate	9.891	9.900	-0.009	233777699	44.3447	886.9

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0038.d
Date : 23-JUL-2010 22:28
Client ID:
Sample Info: L37N7,20
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0039.d
Report Date: 26-Jul-2010 10:54

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0039.d
Lab Smp Id: L37N9
Inj Date : 23-JUL-2010 22:44
Operator : 001754 Inst ID: ic120.i
Smp Info : L37N9
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

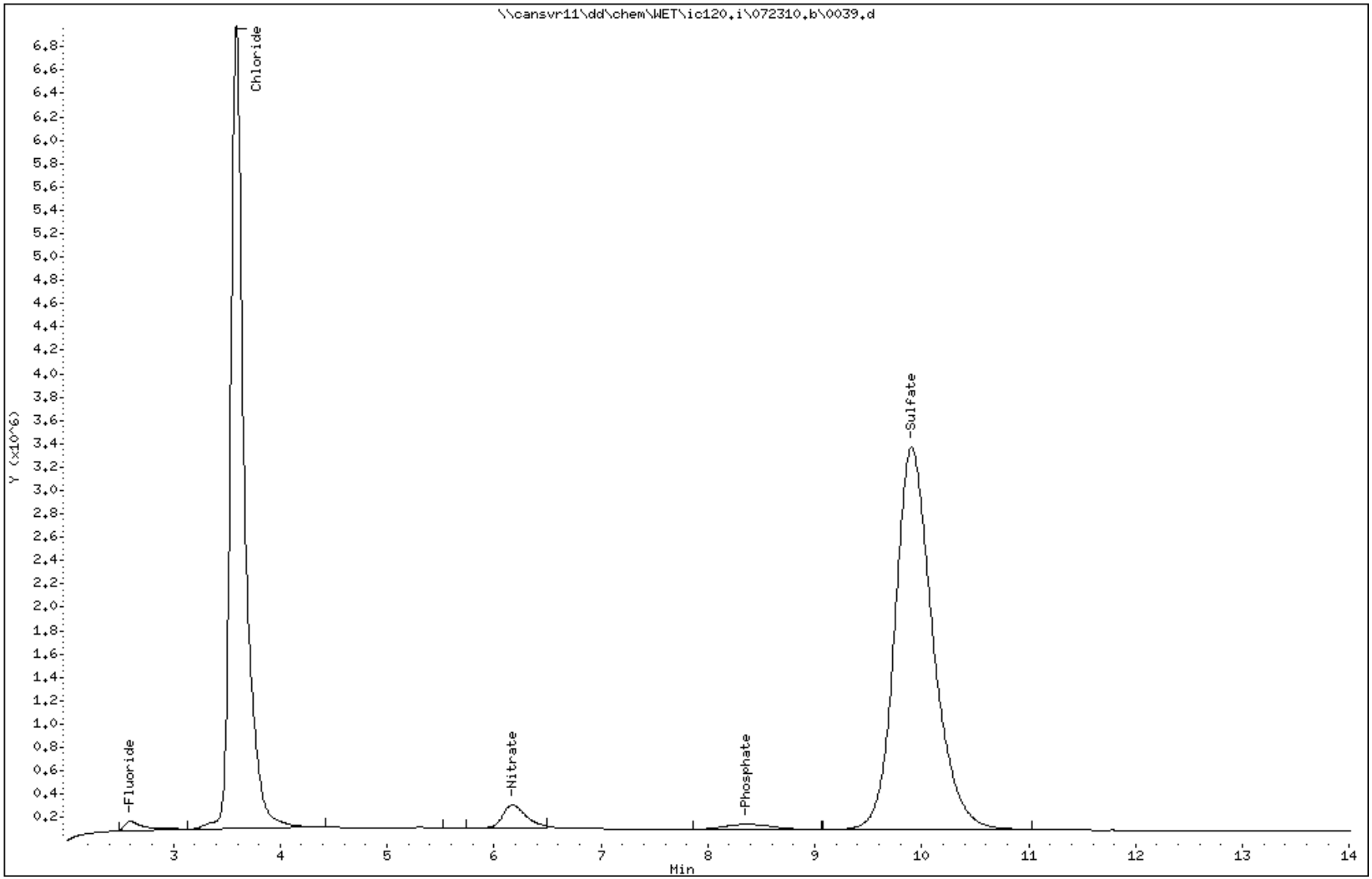
					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	75976	0.08015	0.08015(M)
2 Chloride	3.591	3.616	-0.025	62123935	7.71578	7.716(M)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	6.175	6.108	0.067	3144326	0.19530	0.1953
6 Phosphate	8.358	8.141	0.217	43705	0.15008	0.1501
7 Sulfate	9.908	9.866	0.042	80534293	15.2764	15.28

QC Flag Legend

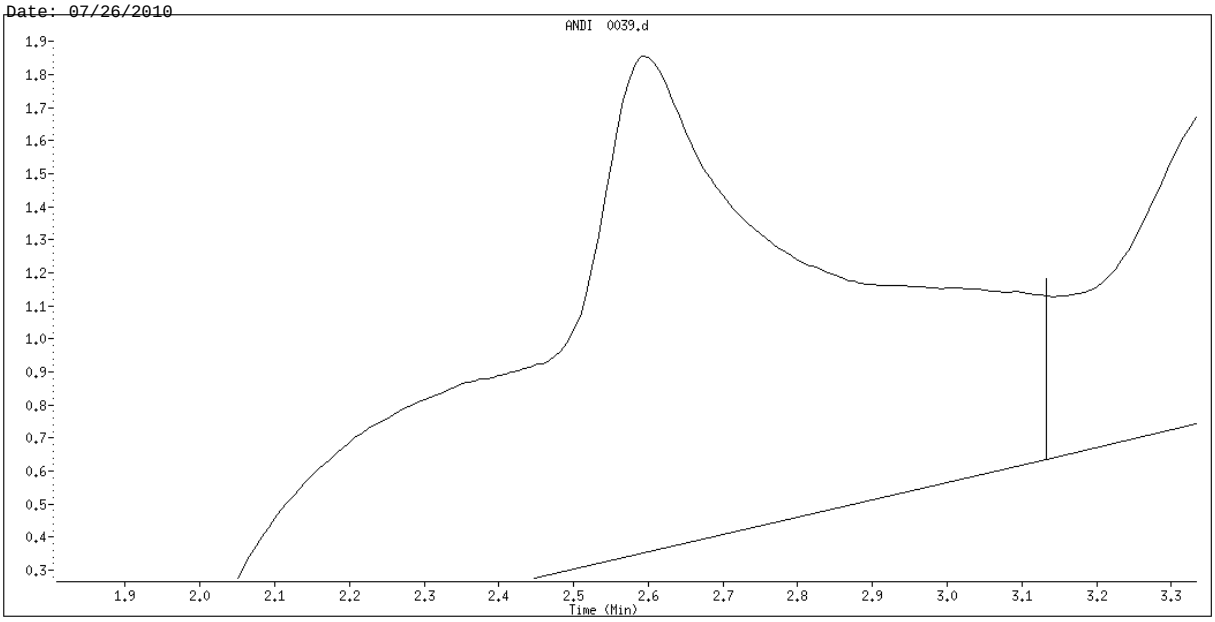
M - Compound response manually integrated.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0039.d
Date : 23-JUL-2010 22:44
Client ID:
Sample Info: L37N9
Purge Volume: 1.0
Column phase: AS14

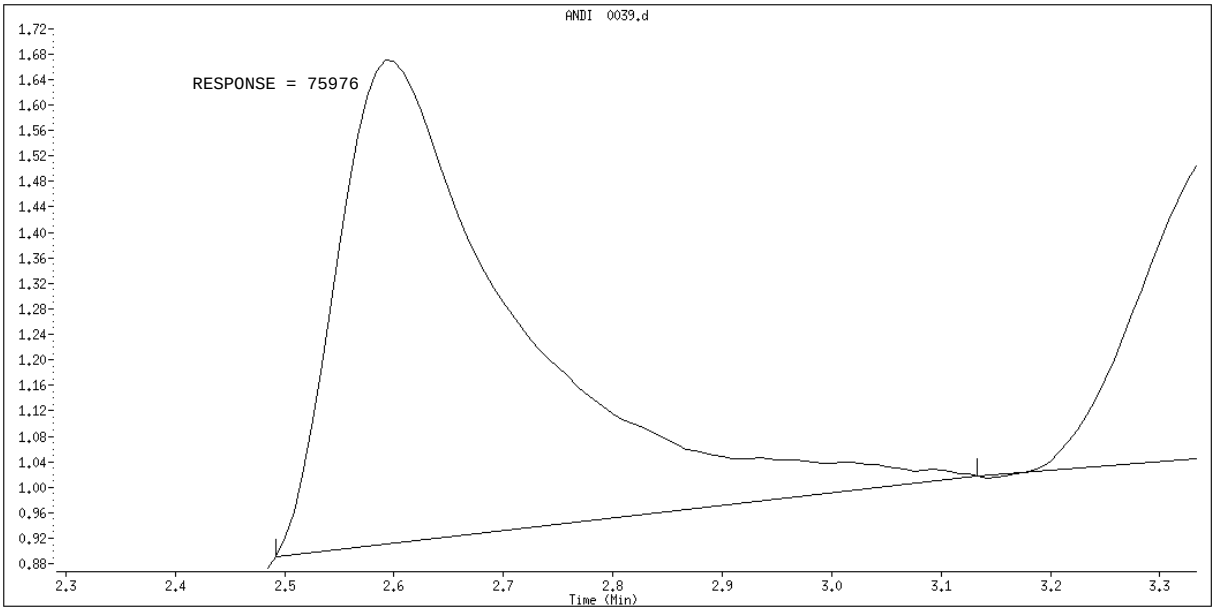
Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File Name: 0039.d
Inj. Date and Time: 23-JUL-2010 22:44
Instrument ID: ic120.i
Client ID:
Compound Name: Fluoride
CAS #: Q338
Report Date: 07/26/2010



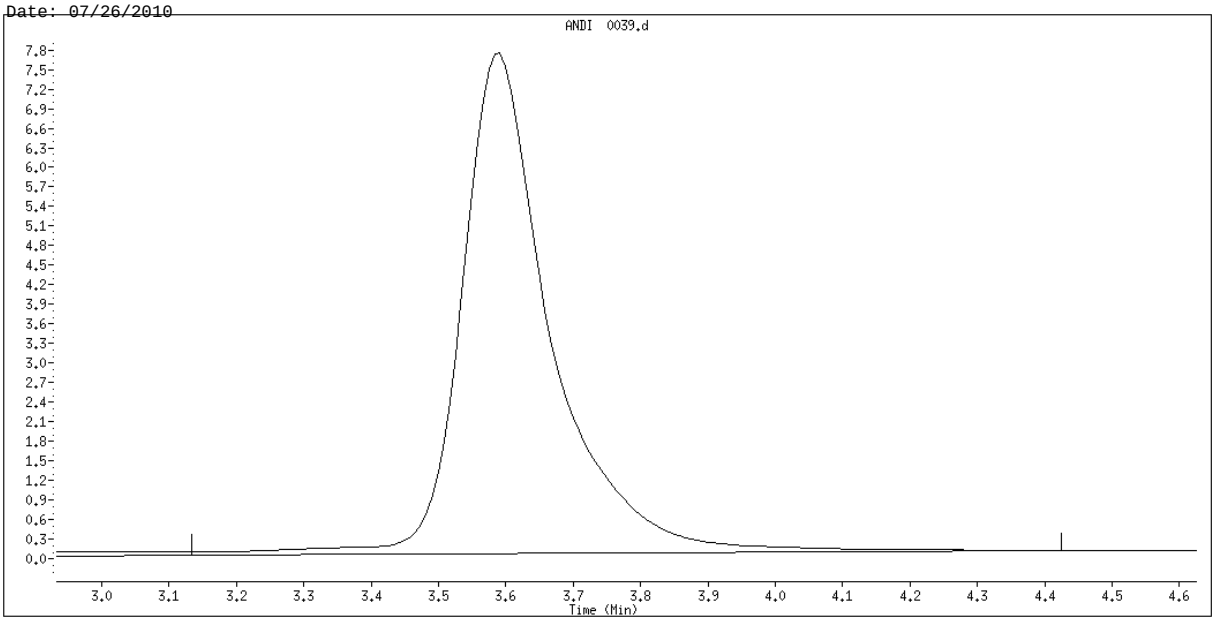
Original Integration



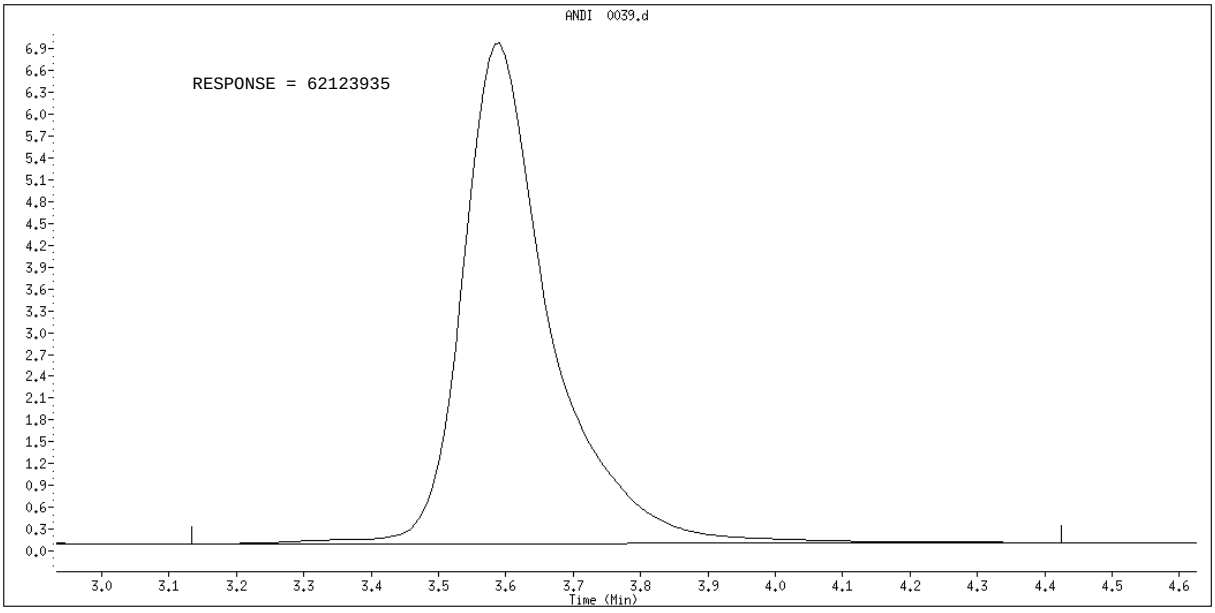
Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File Name: 0039.d
Inj. Date and Time: 23-JUL-2010 22:44
Instrument ID: ic120.i
Client ID:
Compound Name: Chloride
CAS #: Q138
Report Date: 07/26/2010



Original Integration



Manual Integration

Manually Integrated By: wetchemnc
Manual Integration Reason: Baseline Event

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0040.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0040.d
Lab Smp Id: L38FH
Inj Date : 23-JUL-2010 23:00
Operator : 001754 Inst ID: ic120.i
Smp Info : L38FH
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

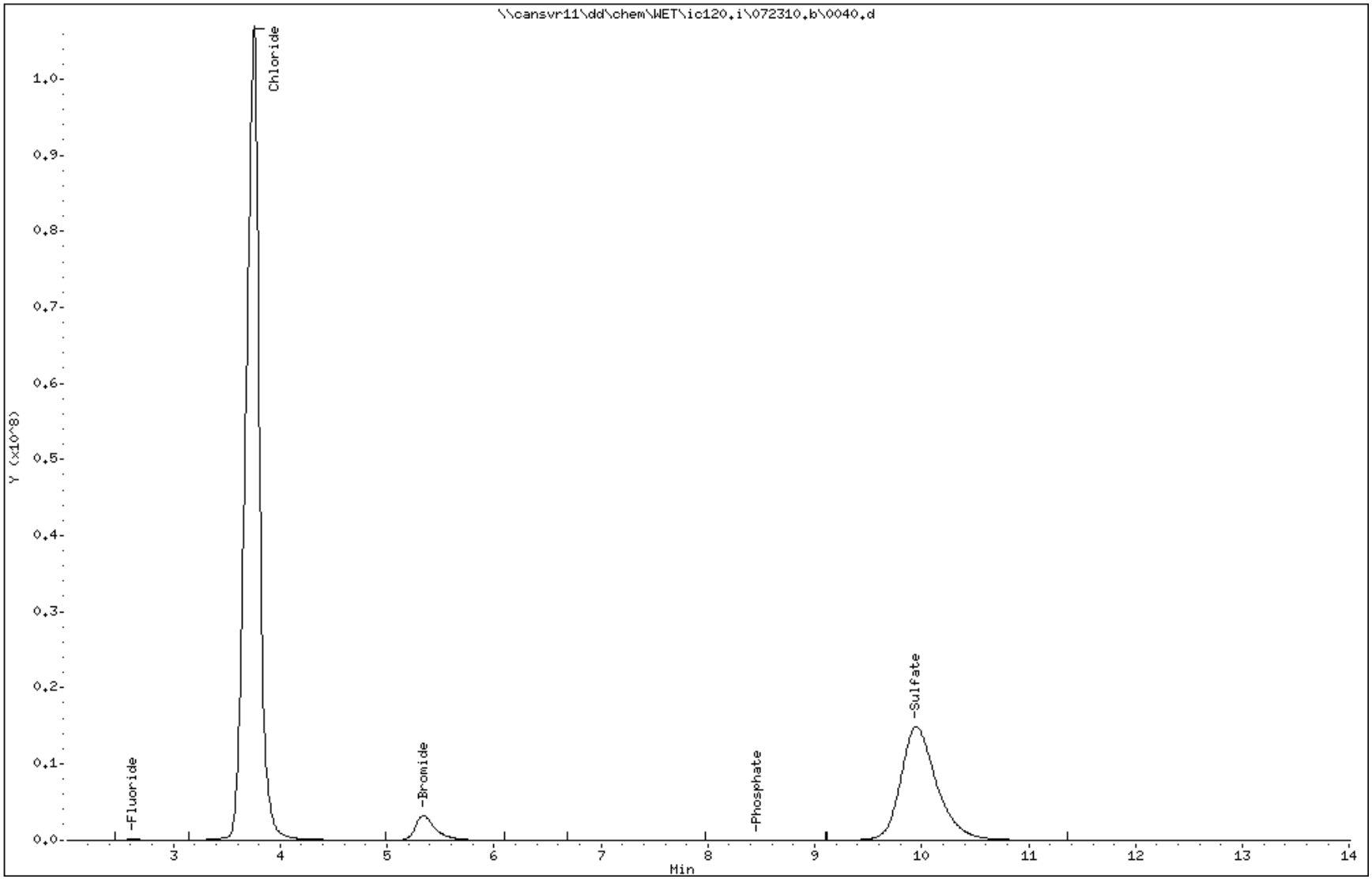
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.616	2.591	0.025	133392	0.14073	0.1407
2 Chloride	3.758	3.625	0.133	941126751	116.888	116.9
3 Nitrite	Compound Not Detected.					
4 Bromide	5.341	5.291	0.050	43494840	15.2851	15.28
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.466	8.158	0.308	24768	0.08514	0.08514
7 Sulfate	9.950	9.900	0.050	349992949	66.3893	66.39

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0040.d
Date : 23-JUL-2010 23:00
Client ID:
Sample Info: L38FH
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0041.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

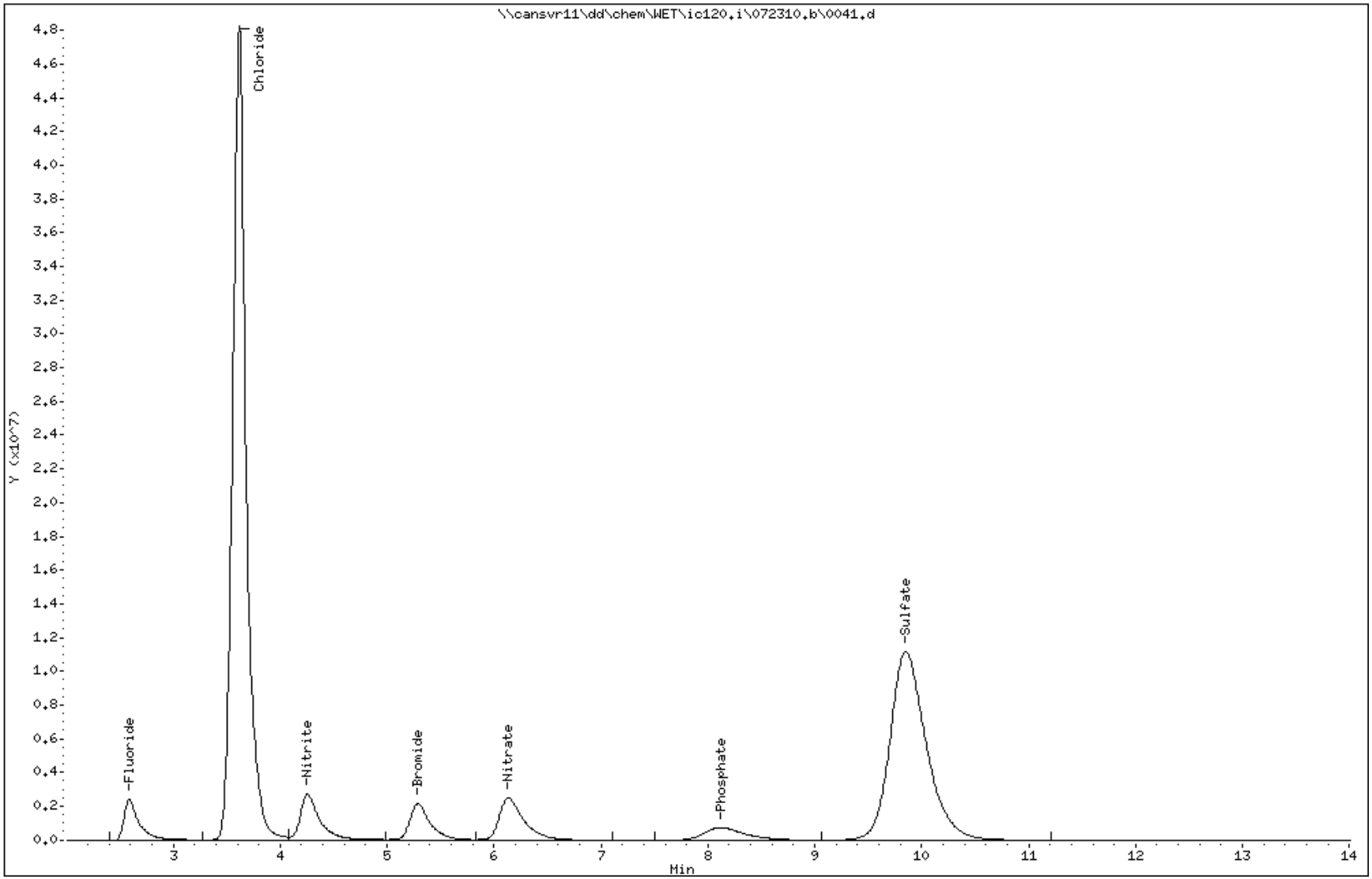
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0041.d
Lab Smp Id: LCS
Inj Date : 23-JUL-2010 23:17
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.591	2.591	0.000	2413210	2.54594	2.546
2 Chloride	3.616	3.625	-0.009	426620174	52.9861	52.99
3 Nitrite	4.258	4.258	0.000	33642032	2.61685	2.617
4 Bromide	5.291	5.291	0.000	27604626	9.70094	9.701
5 Nitrate	6.133	6.141	-0.008	39203850	2.43503	2.435
6 Phosphate	8.125	8.158	-0.033	755484	2.48914	2.489
7 Sulfate	9.850	9.900	-0.050	263913745	50.0612	50.06

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0041.d
Date : 23-JUL-2010 23:17
Client ID:
Instrument: ic120.i
Sample Info: LCS,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0042.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0042.d
Lab Smp Id: LCS DUP
Inj Date : 23-JUL-2010 23:33
Operator : 001754 Inst ID: ic120.i
Smp Info : LCS DUP,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

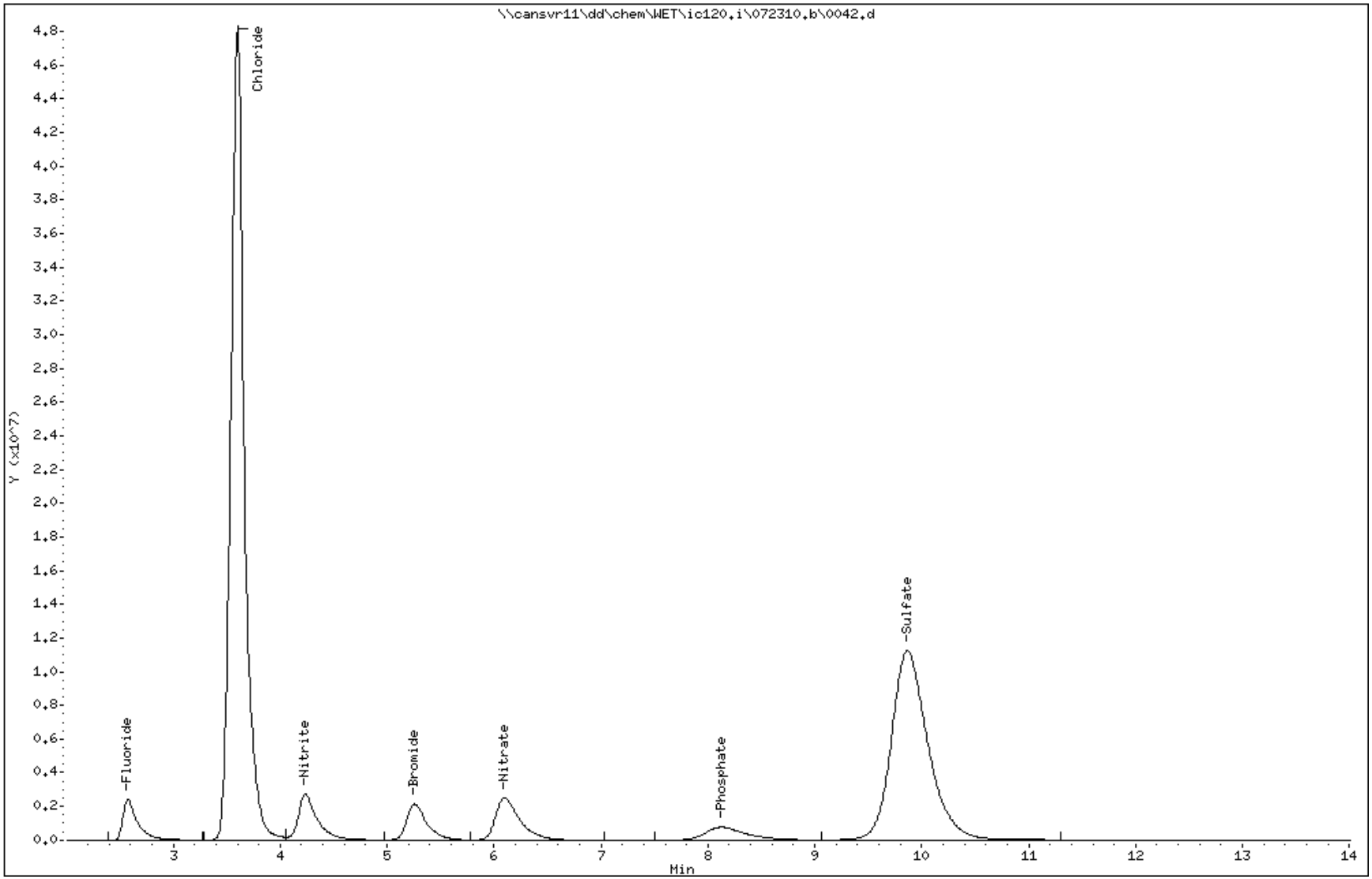
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
1 Fluoride	2.575	2.591	-0.016	2427451	2.56096	2.561
2 Chloride	3.600	3.625	-0.025	426467937	52.9672	52.97
3 Nitrite	4.233	4.258	-0.025	33714565	2.62249	2.622
4 Bromide	5.258	5.291	-0.033	27675637	9.72589	9.726
5 Nitrate	6.100	6.141	-0.041	39403180	2.44741	2.447
6 Phosphate	8.125	8.158	-0.033	767890	2.52815	2.528
7 Sulfate	9.866	9.900	-0.034	266133165	50.4822	50.48

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0042.d
Date : 23-JUL-2010 23:33
Client ID:
Sample Info: LCS DUP,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0043.d
Report Date: 26-Jul-2010 10:54

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0043.d
Lab Smp Id: L39TV
Inj Date : 23-JUL-2010 23:50
Operator : 001754 Inst ID: ic120.i
Smp Info : L39TV,20
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

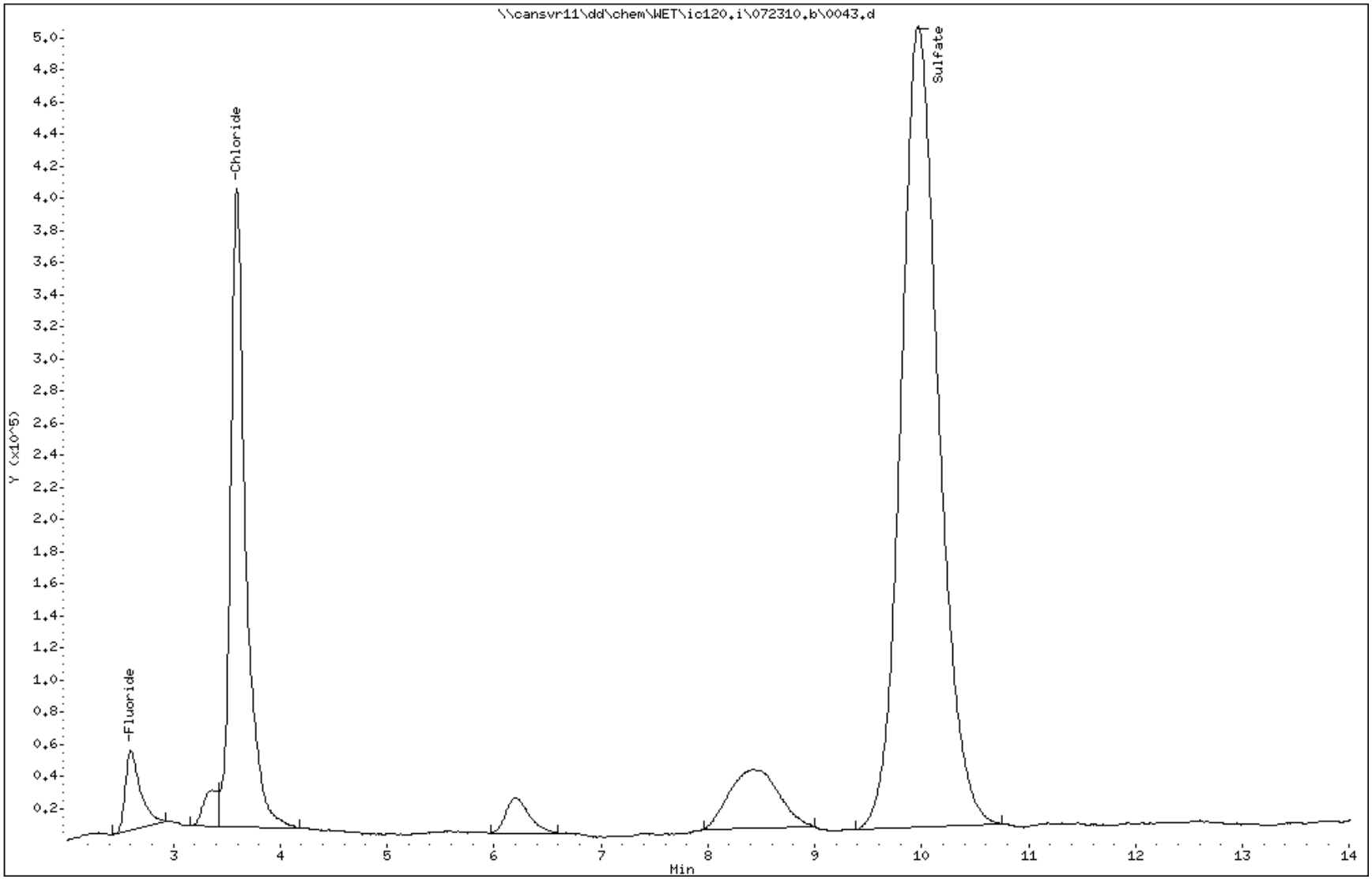
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.600	2.591	0.009	49317	0.05203	1.040
2 Chloride	3.591	3.616	-0.025	3944478	0.48990	9.798(a)
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	9.966	9.866	0.100	12215596	2.31715	46.34

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0043.d
Date : 23-JUL-2010 23:50
Client ID:
Sample Info: L39TV,20
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0044.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0044.d
Lab Smp Id: L39TX ORG
Inj Date : 24-JUL-2010 00:06
Operator : 001754 Inst ID: ic120.i
Smp Info : L39TX ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

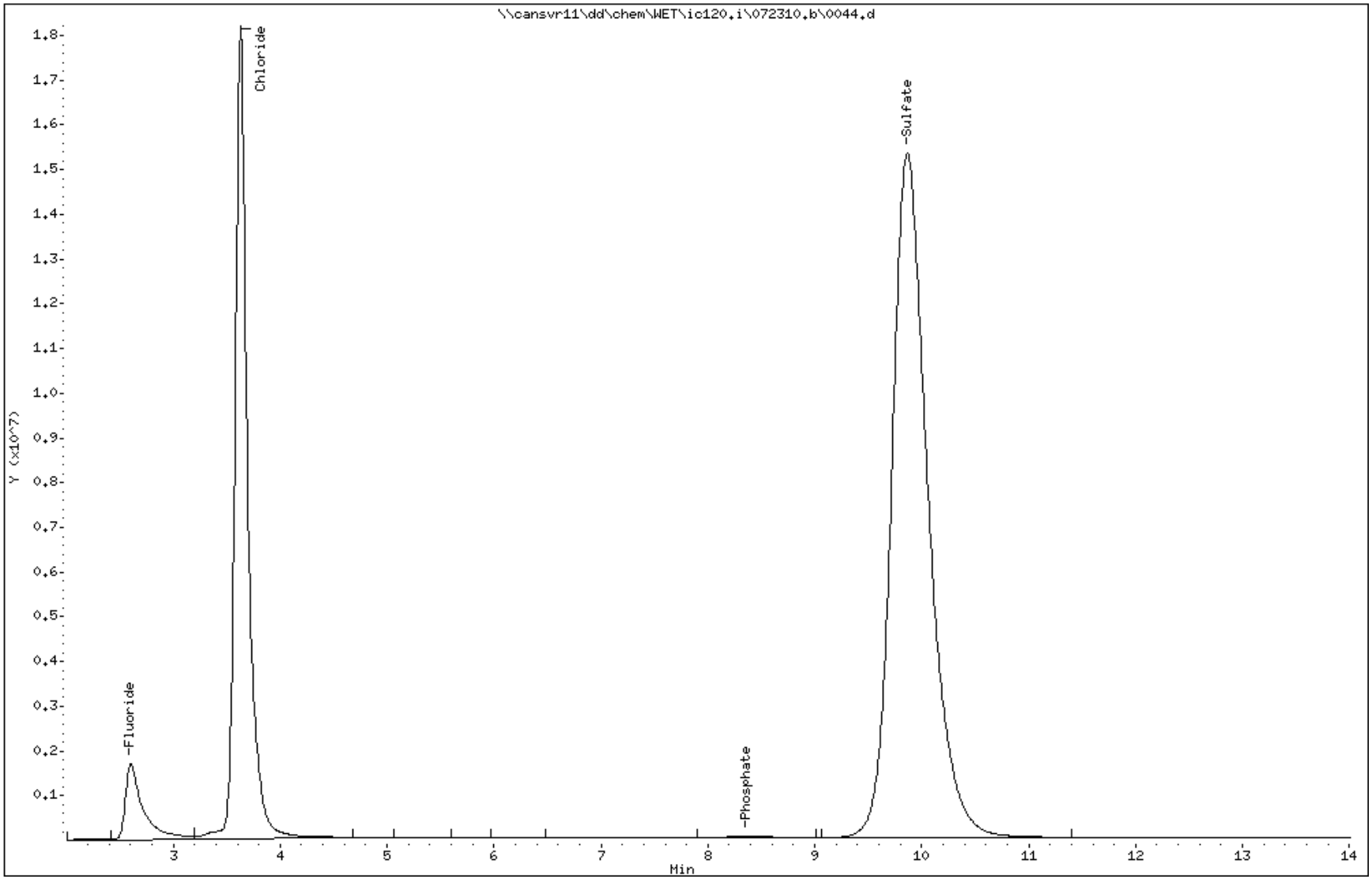
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.600	2.591	0.009	1693151		1.78627	1.786
2 Chloride	3.633	3.625	0.008	151427558		18.8073	18.81
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	8.358	8.158	0.200	39066		0.13418	0.1342
7 Sulfate	9.866	9.900	-0.034	360273344		68.3394	68.34

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0044.d
Date : 24-JUL-2010 00:06
Client ID:
Sample Info: L39TX ORG
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



850
North Canton

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0045.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0045.d
Lab Smp Id: L39TX MS
Inj Date : 24-JUL-2010 00:22
Operator : 001754 Inst ID: ic120.i
Smp Info : L39TX MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

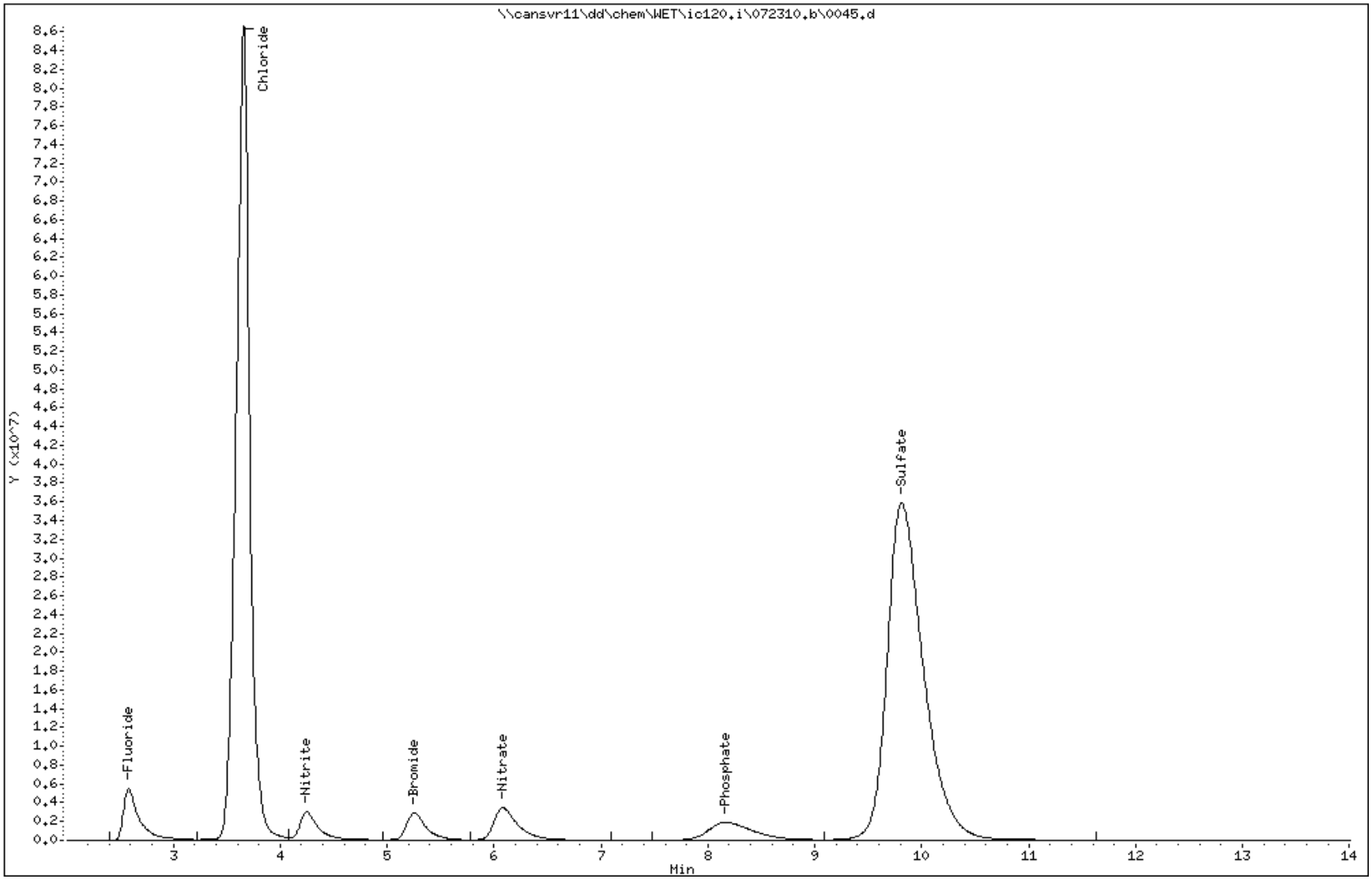
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
1 Fluoride	2.583	2.591	-0.008	5486860	5.78864	5.789(R)
2 Chloride	3.658	3.625	0.033	774645563	96.2108	96.21(R)
3 Nitrite	4.250	4.258	-0.008	37550563	2.92087	2.921(R)
4 Bromide	5.258	5.291	-0.033	38055646	13.3737	13.37(R)
5 Nitrate	6.083	6.141	-0.058	54191948	3.36597	3.366(R)
6 Phosphate	8.166	8.158	0.008	1895722	5.82334	5.823(R)
7 Sulfate	9.816	9.900	-0.084	846443415	160.560	160.6(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0045.d
Date : 24-JUL-2010 00:22
Client ID:
Sample Info: L39TX MS,,3
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0046.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0046.d
Lab Smp Id: L39T1
Inj Date : 24-JUL-2010 00:39
Operator : 001754 Inst ID: ic120.i
Smp Info : L39T1,5
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

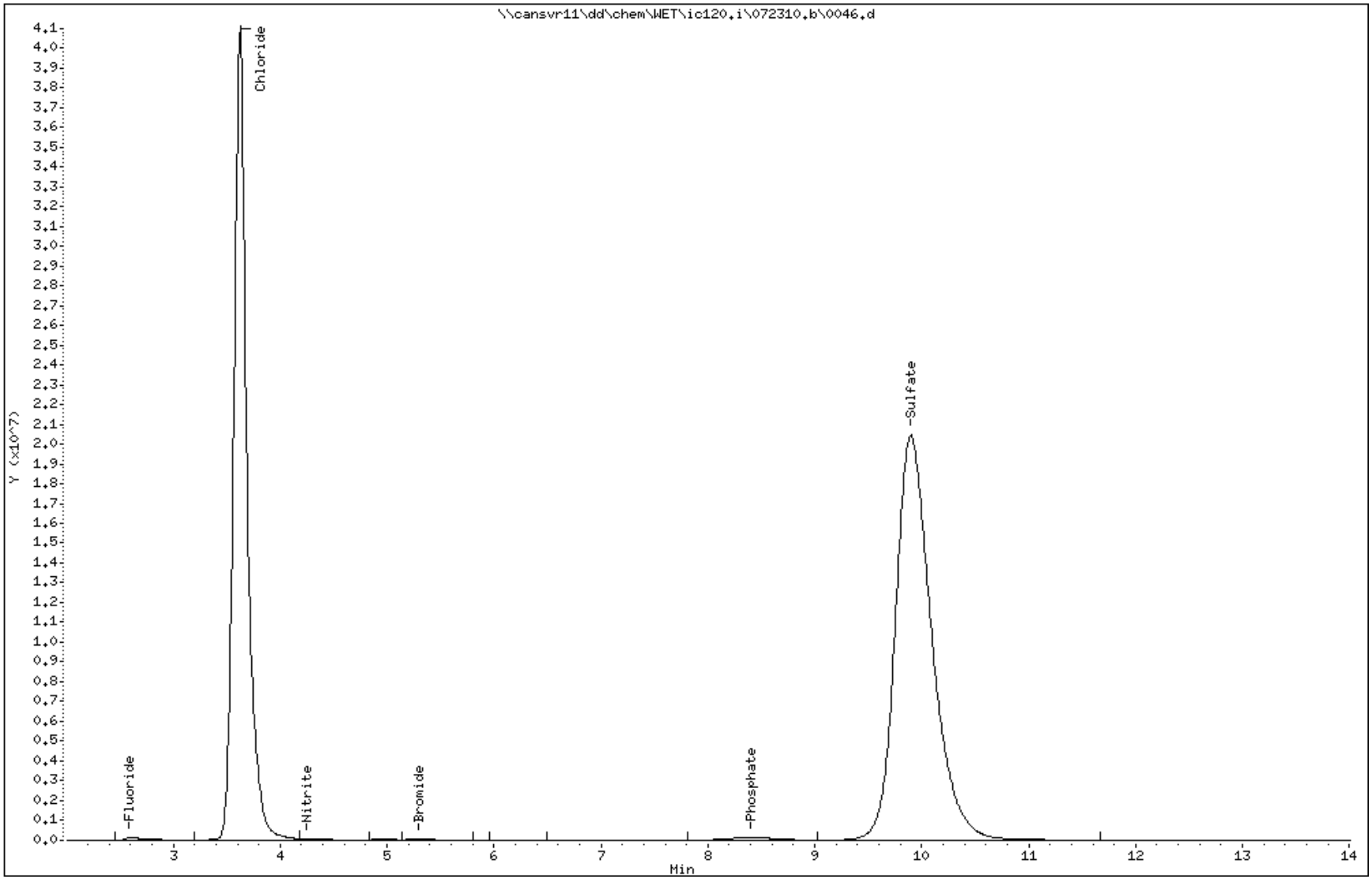
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.600	2.591	0.009	150401	0.15867	0.7934
2 Chloride	3.625	3.625	0.000	356354292	44.2591	221.3
3 Nitrite	4.258	4.258	0.000	1547368	0.12036	0.6018
4 Bromide	5.308	5.291	0.017	926943	0.32575	1.629
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.408	8.158	0.250	125049	0.42742	2.137
7 Sulfate	9.900	9.900	0.000	482898228	91.5998	458.0

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0046.d
Date : 24-JUL-2010 00:39
Client ID:
Sample Info: L39T1,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0047.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ic120.i Injection Date: 24-JUL-2010 00:55
Lab File ID: 0047.d Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 12:52 15:03
Lab Sample ID: CCV Quant Type: ESTD
Method: \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m

COMPOUND	RRF / AMOUNT	RF3	CCAL RRF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Fluoride	947867	960253	960253	0.010	-1.30673	10.00000	Averaged
2 Chloride	8051545	8546934	8546934	0.010	-6.15271	10.00000	Averaged
3 Nitrite	12855941	13007271	13007271	0.010	-1.17712	10.00000	Averaged
4 Bromide	2845563	2752990	2752990	0.010	3.25323	10.00000	Averaged
5 Nitrate	16099942	15722031	15722031	0.010	2.34729	10.00000	Averaged
6 Phosphate	2.50000	2.58151	313956	0.010	-3.26039	10.00000	Quadratic
7 Sulfate	5271827	5255757	5255757	0.010	0.30483	10.00000	Averaged

Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0047.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0047.d
Lab Smp Id: CCV
Inj Date : 24-JUL-2010 00:55
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,2
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

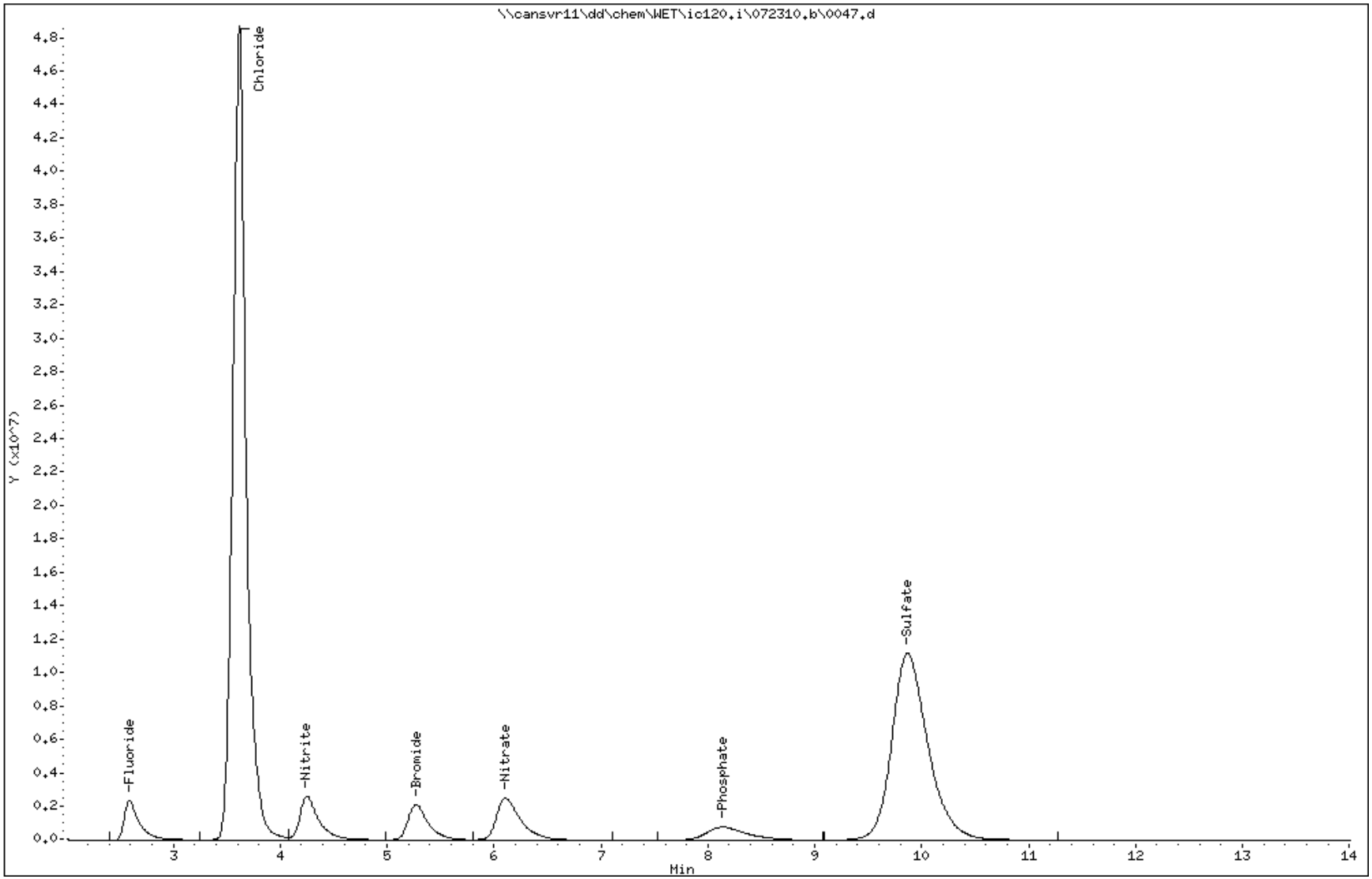
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)
1 Fluoride	2.591	2.591	0.000	2400633	2.50000	2.533
2 Chloride	3.616	3.616	0.000	427346693	50.0000	53.08
3 Nitrite	4.250	4.250	0.000	32518177	2.50000	2.529
4 Bromide	5.275	5.275	0.000	27529901	10.0000	9.675
5 Nitrate	6.108	6.108	0.000	39305077	2.50000	2.441
6 Phosphate	8.141	8.141	0.000	784890	2.50000	2.582
7 Sulfate	9.866	9.866	0.000	262787841	50.0000	49.85

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0047.d
Date : 24-JUL-2010 00:55
Client ID:
Sample Info: CCV,,2
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0048.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

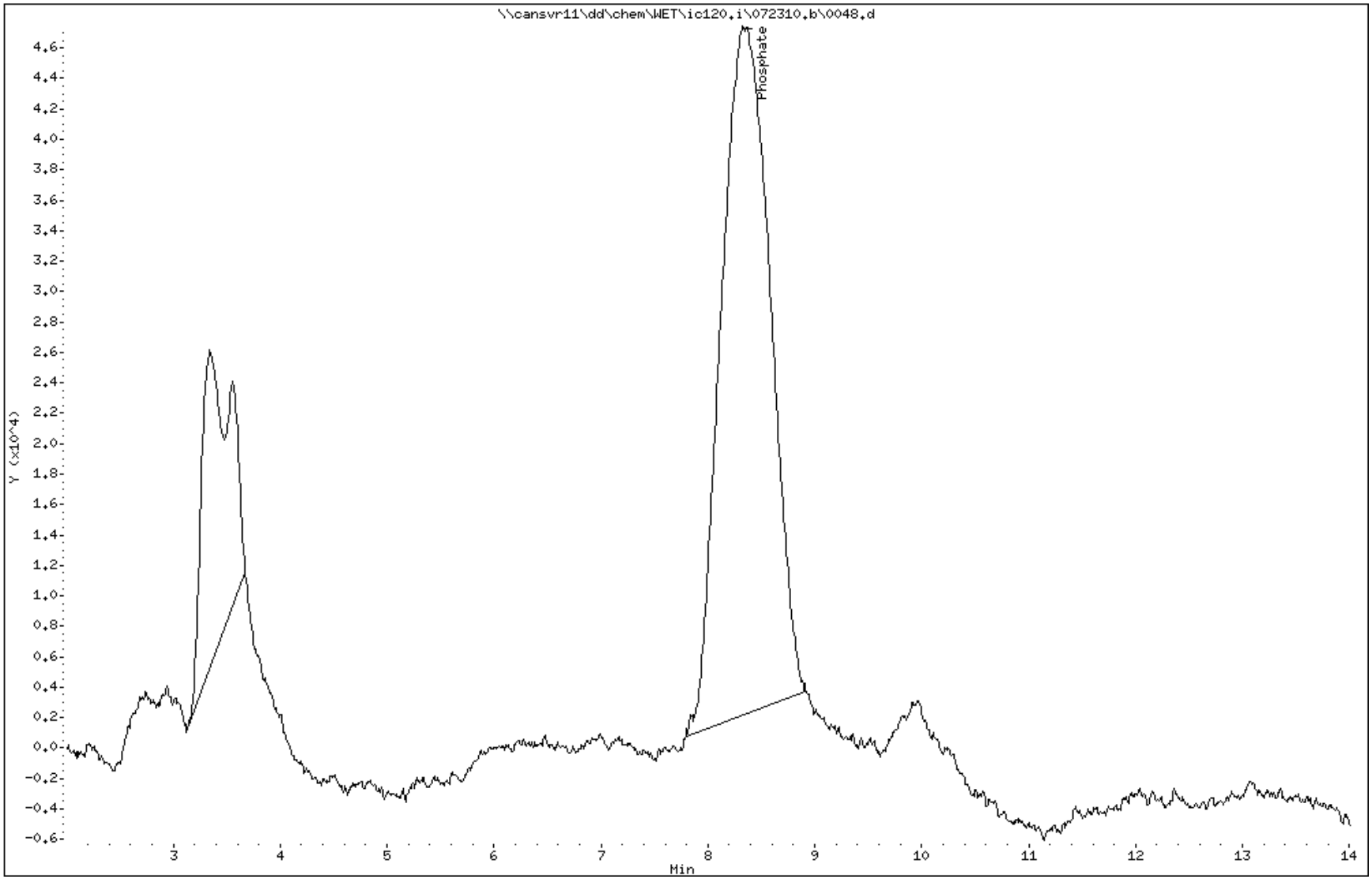
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0048.d
Lab Smp Id: CCB
Inj Date : 24-JUL-2010 01:12
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.325	8.141	0.184	45280	0.15547	0.1555
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0048.d
Date : 24-JUL-2010 01:12
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0049.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0049.d
Lab Smp Id: L39T2
Inj Date : 24-JUL-2010 01:28
Operator : 001754 Inst ID: ic120.i
Smp Info : L39T2,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

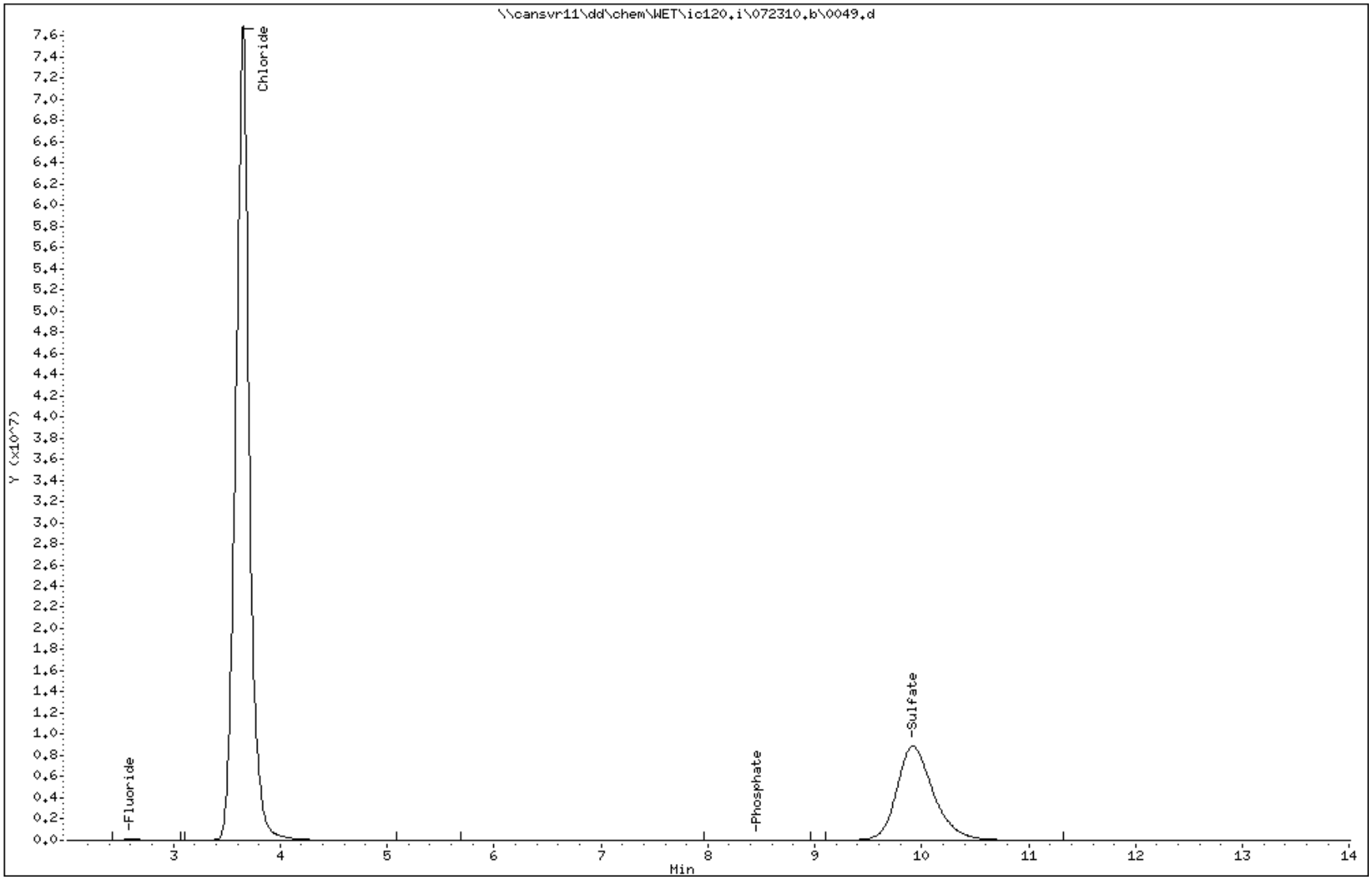
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	143150		0.15102	0.7551
2 Chloride	3.658	3.616	0.042	692550485		86.0146	430.1
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	8.458	8.141	0.317	26398		0.09074	0.4537
7 Sulfate	9.916	9.866	0.050	212404657		40.2905	201.4

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0049.d
Date : 24-JUL-2010 01:28
Client ID:
Sample Info: L39T2,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0050.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0050.d
Lab Smp Id: L39T3
Inj Date : 24-JUL-2010 01:44
Operator : 001754 Inst ID: ic120.i
Smp Info : L39T3,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

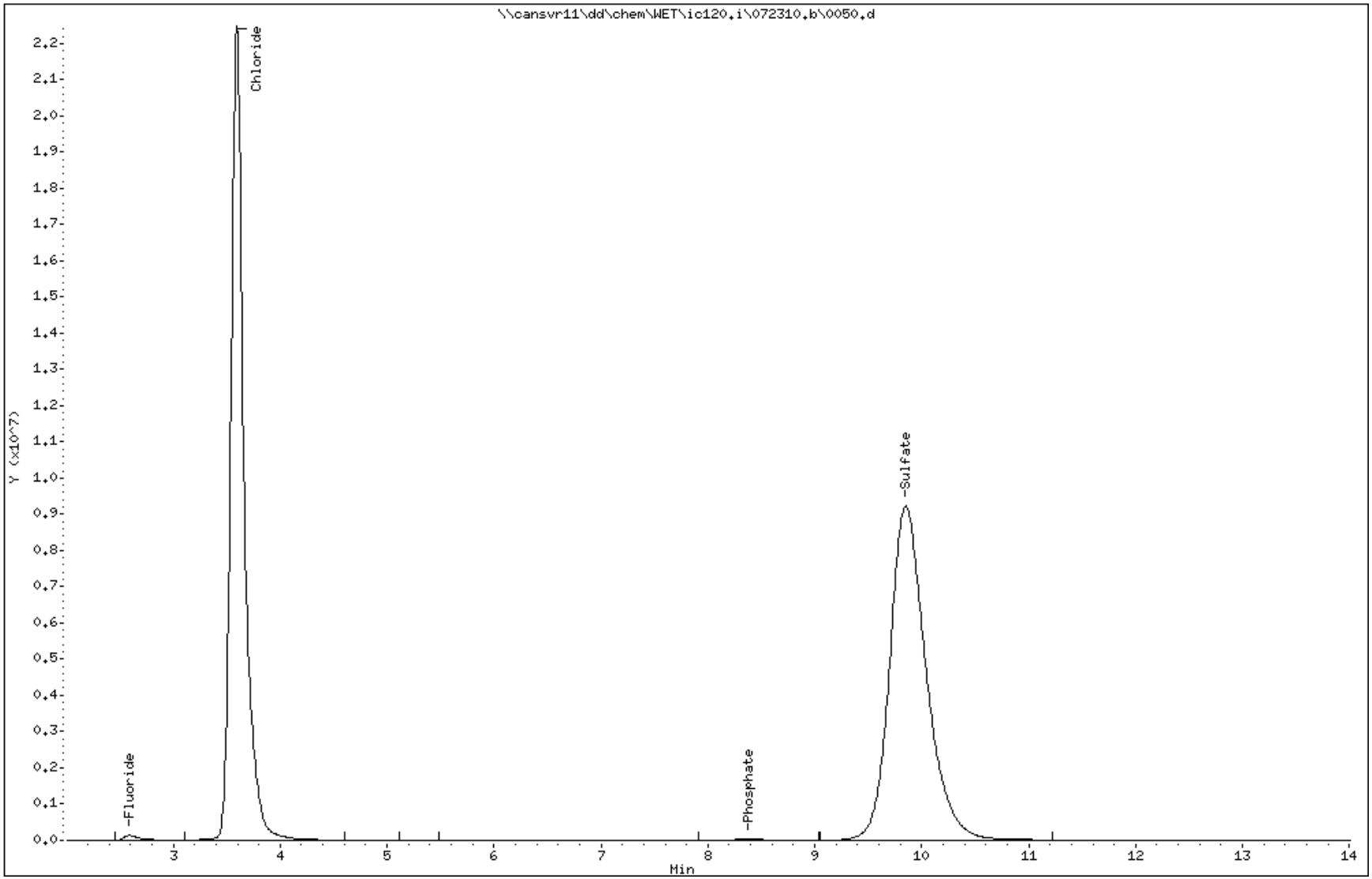
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	135648		0.14311	0.7155
2 Chloride	3.591	3.616	-0.025	193237697		24.0001	120.0
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	8.391	8.141	0.250	20838		0.07165	0.3582
7 Sulfate	9.850	9.866	-0.016	218671560		41.4793	207.4

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0050.d
Date : 24-JUL-2010 01:44
Client ID:
Sample Info: L39T3,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0051.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0051.d
Lab Smp Id: L39T4
Inj Date : 24-JUL-2010 02:01
Operator : 001754 Inst ID: ic120.i
Smp Info : L39T4,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

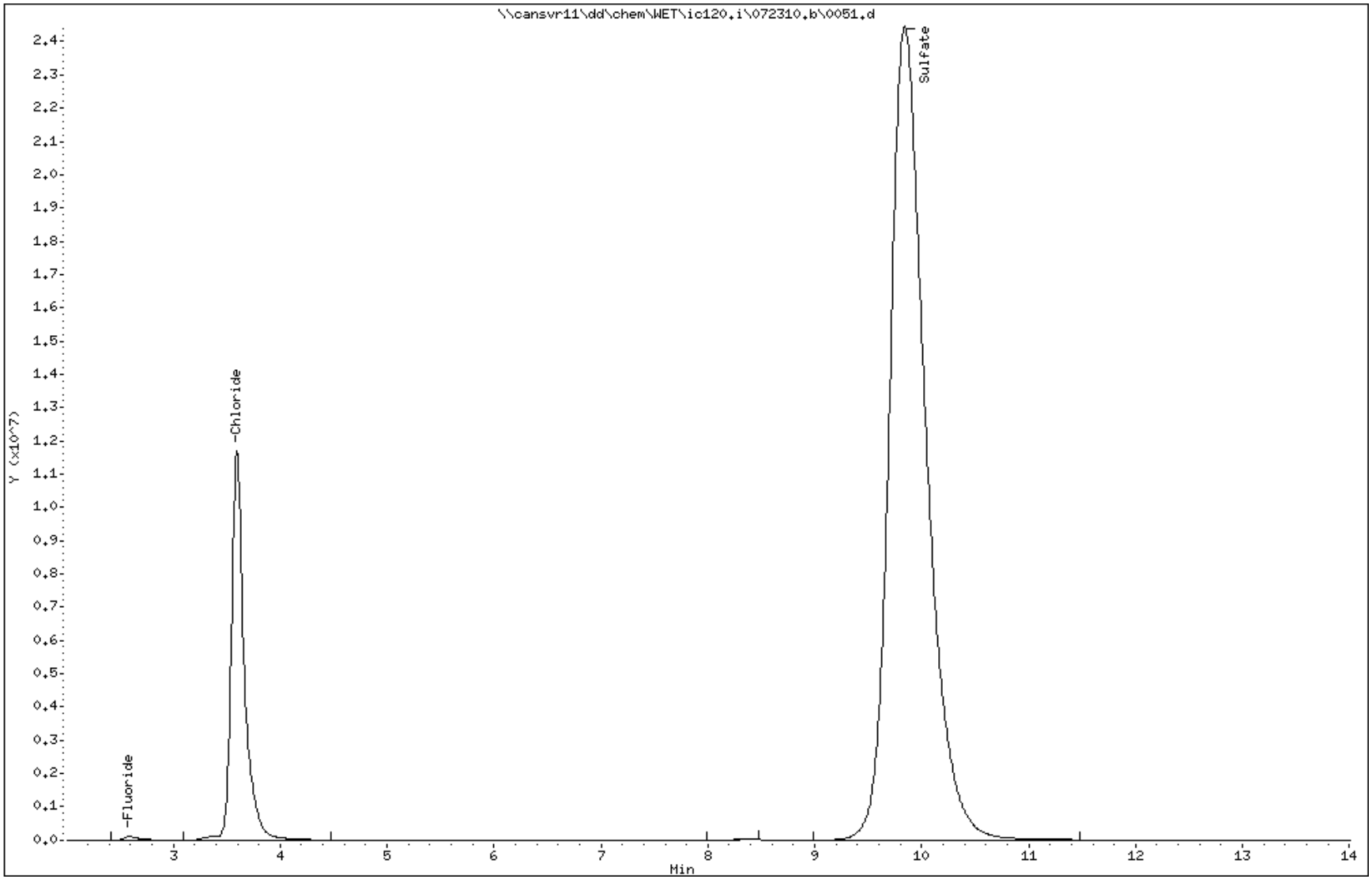
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/L)
1 Fluoride	2.583	2.591	-0.008	111224	0.11734	0.5867
2 Chloride	3.591	3.616	-0.025	98927054	12.2867	61.43
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	Compound Not Detected.					
7 Sulfate	9.841	9.866	-0.025	576329667	109.323	546.6

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0051.d
Date : 24-JUL-2010 02:01
Client ID:
Sample Info: L39T4,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0052.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0052.d
Lab Smp Id: L39T5
Inj Date : 24-JUL-2010 02:17
Operator : 001754 Inst ID: ic120.i
Smp Info : L39T5,5
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

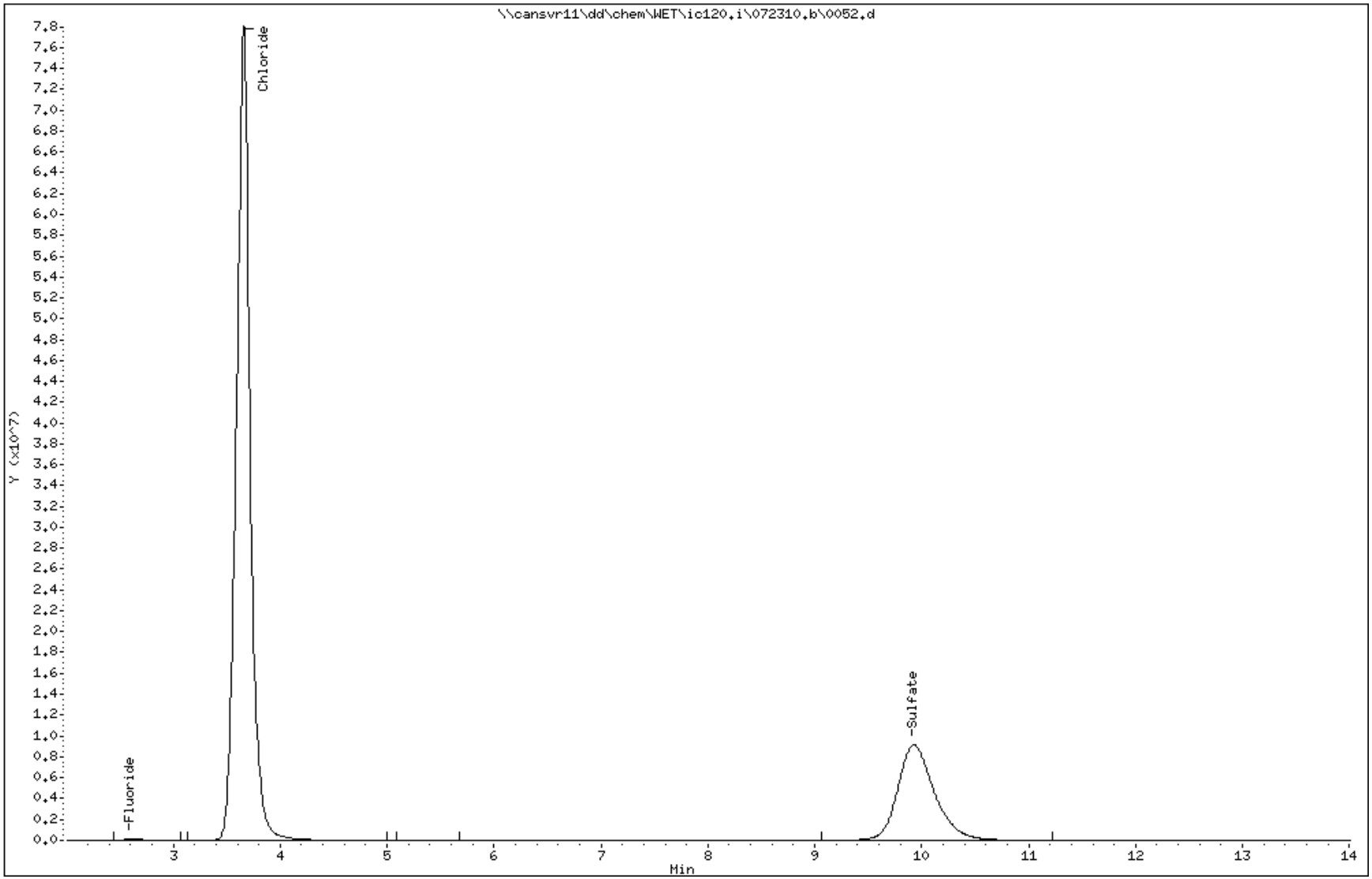
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(mg/L)	(mg/L)
1 Fluoride	2.600	2.591	0.009	143247		0.15113	0.7556
2 Chloride	3.658	3.616	0.042	706789522		87.7831	438.9
3 Nitrite	Compound Not Detected.						
4 Bromide	Compound Not Detected.						
5 Nitrate	Compound Not Detected.						
6 Phosphate	Compound Not Detected.						
7 Sulfate	9.925	9.866	0.059	218091285		41.3692	206.8

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0052.d
Date : 24-JUL-2010 02:17
Client ID:
Sample Info: L39T5,5
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0053.d
Report Date: 26-Jul-2010 10:56

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0053.d
Lab Smp Id: L39T6 ORG
Inj Date : 24-JUL-2010 02:34
Operator : 001754 Inst ID: ic120.i
Smp Info : L39T6 ORG
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

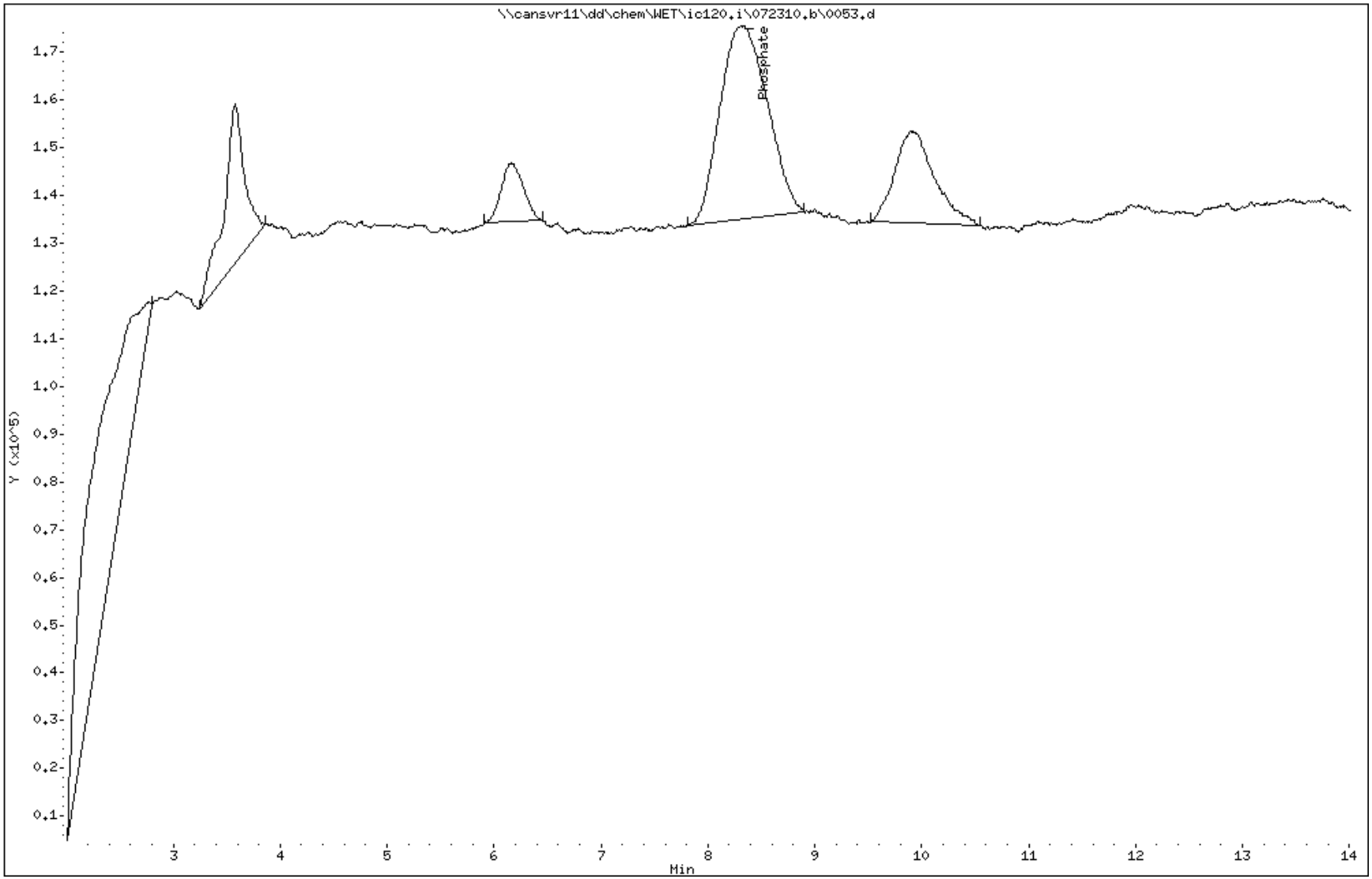
Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.333	8.141	0.192	40367	0.13864	0.1386
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0053.d
Date : 24-JUL-2010 02:34
Client ID:
Sample Info: L39T6 ORG
Purge Volume: 1.0
Column phase: AS14

Instrument: ic120.i
Operator: 001754
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0054.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0054.d
Lab Smp Id: L39T6 MS
Inj Date : 24-JUL-2010 02:50
Operator : 001754 Inst ID: ic120.i
Smp Info : L39T6 MS,,3
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

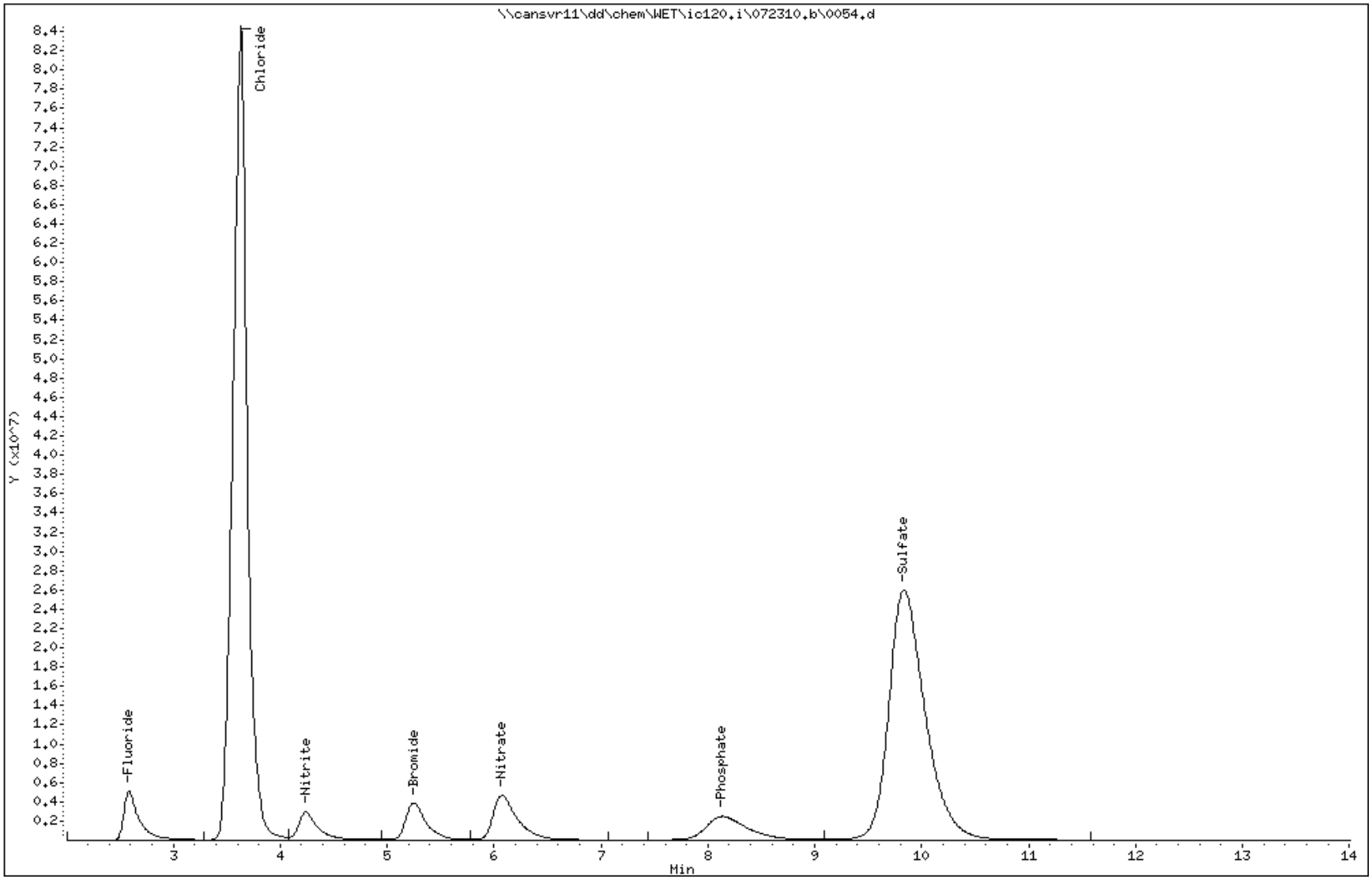
Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	2.583	2.591	-0.008	5128903	5.41099	5.411(R)
2 Chloride	3.633	3.616	0.017	796340930	98.9054	98.90(R)
3 Nitrite	4.241	4.250	-0.009	37370479	2.90686	2.907(R)
4 Bromide	5.250	5.275	-0.025	50993101	17.9202	17.92(R)
5 Nitrate	6.075	6.108	-0.033	73438070	4.56139	4.561(R)
6 Phosphate	8.133	8.141	-0.008	2437758	7.23005	7.230(R)
7 Sulfate	9.833	9.866	-0.033	611892474	116.068	116.1(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0054.d
Date : 24-JUL-2010 02:50
Client ID:
Instrument: ic120.i
Sample Info: L39T6 MS,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0055.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

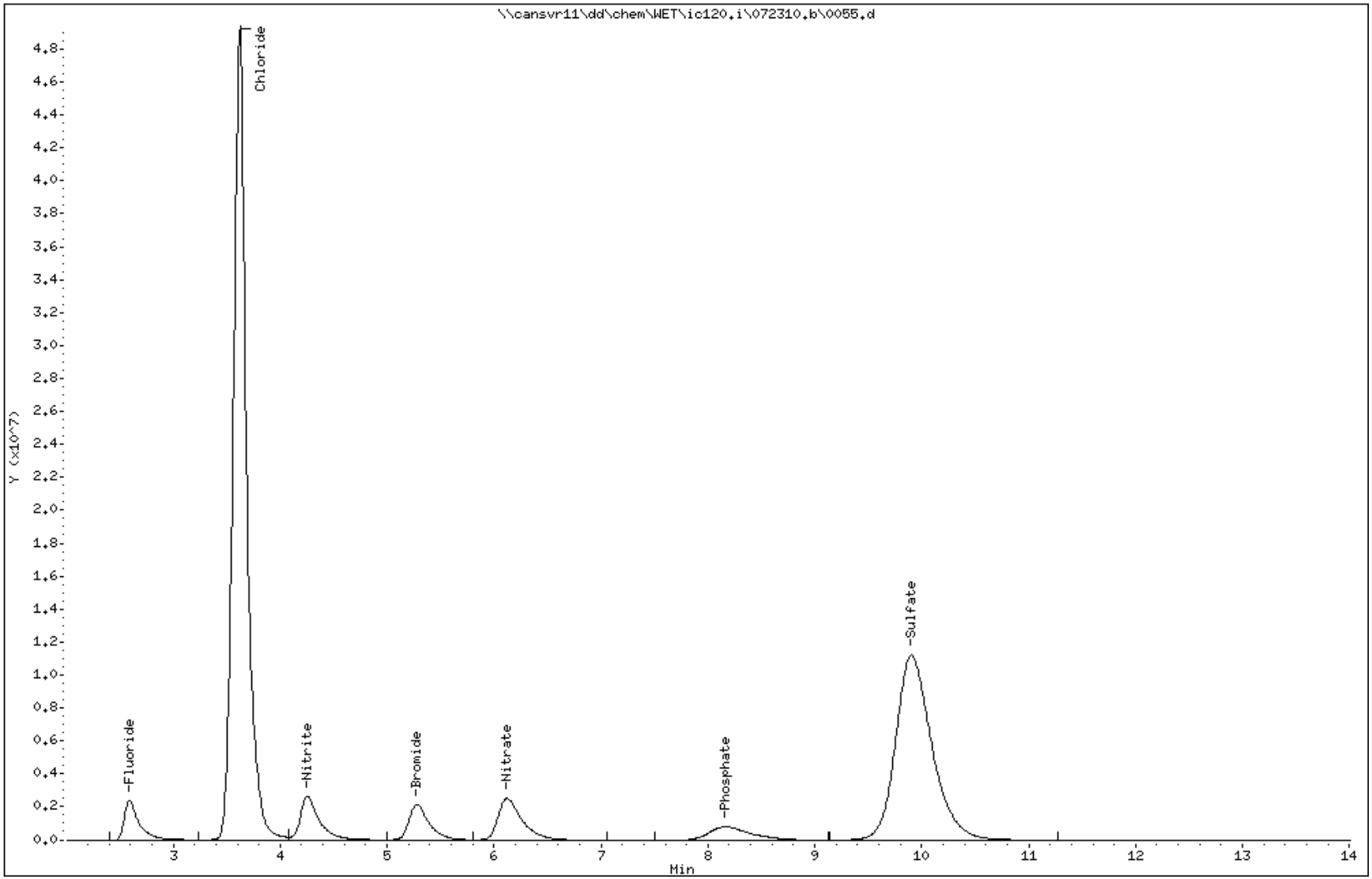
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0055.d
Lab Smp Id: CCV
Inj Date : 24-JUL-2010 03:06
Operator : 001754 Inst ID: ic120.i
Smp Info : CCV,,3
Misc Info : None
Comment :
Method : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(mg/L)	(mg/L)
1 Fluoride	2.591	2.591	0.000	2425755	2.55917	2.559
2 Chloride	3.625	3.616	0.009	430548494	53.4740	53.47
3 Nitrite	4.258	4.250	0.008	32719557	2.54509	2.545
4 Bromide	5.283	5.275	0.008	27768770	9.75862	9.759
5 Nitrate	6.125	6.108	0.017	39528057	2.45517	2.455
6 Phosphate	8.166	8.141	0.025	821528	2.69613	2.696
7 Sulfate	9.908	9.866	0.042	265512002	50.3643	50.36

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0055.d
Date : 24-JUL-2010 03:06
Client ID:
Instrument: ic120.i
Sample Info: CCV,,3
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



Data File: \\cansvr11\chem\WET\ic120.i\072310.b\0056.d
Report Date: 26-Jul-2010 10:45

TestAmerica North Canton

ION CHROMATOGRAPHY

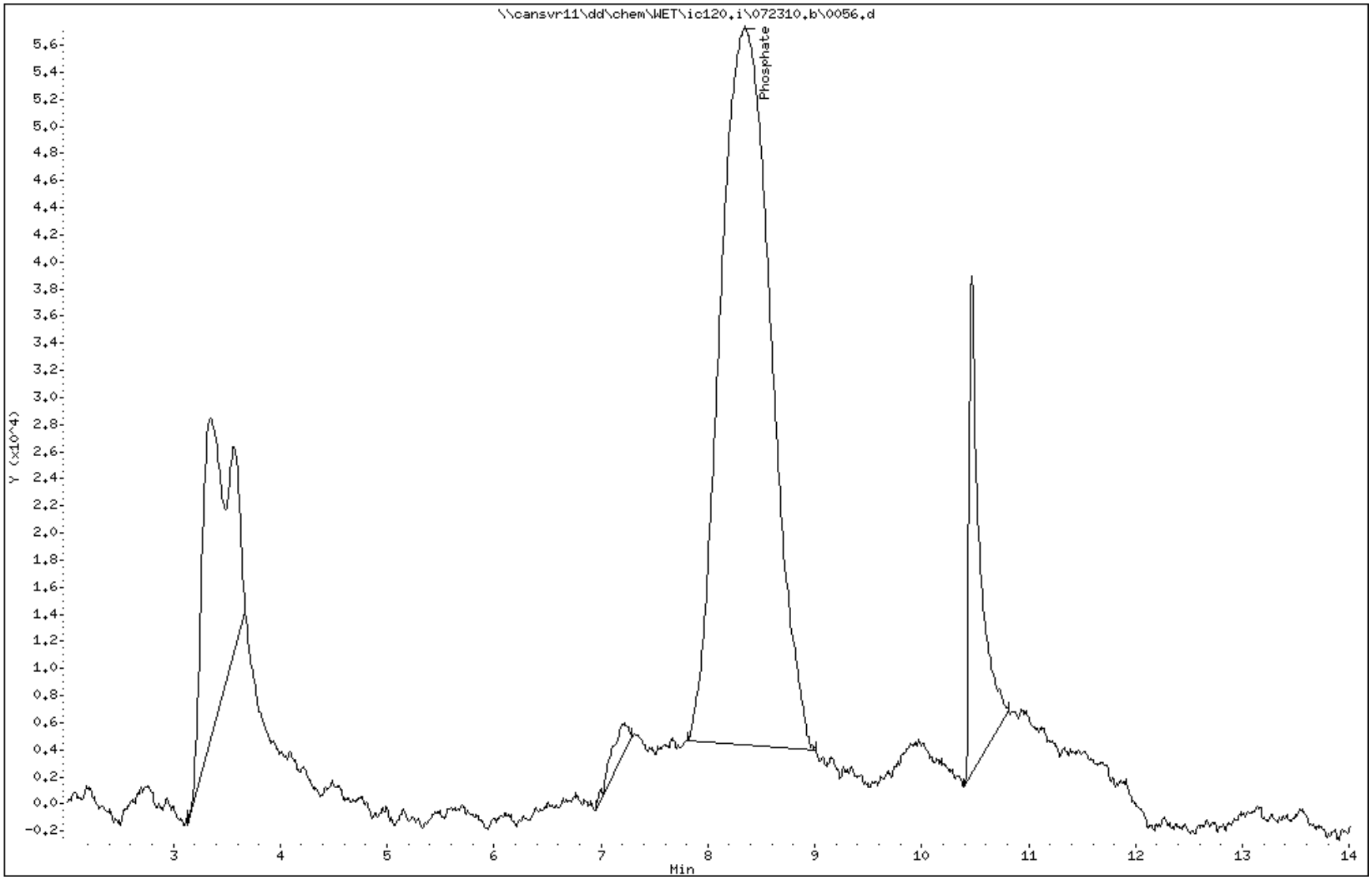
Data file : \\cansvr11\chem\WET\ic120.i\072310.b\0056.d
Lab Smp Id: CCB
Inj Date : 24-JUL-2010 03:23
Operator : 001754 Inst ID: ic120.i
Smp Info : CCB
Misc Info : None
Comment   :
Method   : \\cansvr11\chem\WET\ic120.i\072310.b\DX120.m
Meth Date : 26-Jul-2010 10:45 scotts Quant Type: ESTD
Cal Date : 07-JUL-2010 15:03 Cal File: 0012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: CANPCHROMELEON

Concentration Formula: Amt * DF * Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1.000	Initial Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)
1 Fluoride	Compound Not Detected.					
2 Chloride	Compound Not Detected.					
3 Nitrite	Compound Not Detected.					
4 Bromide	Compound Not Detected.					
5 Nitrate	Compound Not Detected.					
6 Phosphate	8.341	8.141	0.200	53096	0.18223	0.1822
7 Sulfate	Compound Not Detected.					

Data File: \\cansvr11\dd\chem\WET\ic120.i\072310.b\0056.d
Date : 24-JUL-2010 03:23
Client ID:
Instrument: ic120.i
Sample Info: CCB
Purge Volume: 1.0
Operator: 001754
Column phase: AS14
Column diameter: 0.00



TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): T ALK

Batch(es): 0708123/6

Method #/SOP#: (230B, SM18) , 310.1

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓			✓		
2. Calibration curve consist of the minimum number of calibration standards?	✓			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓					✓
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?			✓			✓
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓			✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			✓
E. Titrant						
1. Titrant standardized?		✓	✓ KH 7-27-10	✓		
2. If no, standardization expires 8-8-10	✓					
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?			✓			✓
2. Calculations checked for error ?	✓					✓
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?	✓			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?			✓			✓
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓			✓		
10. All reagent and standard numbers recorded in logbook?	✓					
11. Edits dated and initialed	✓			✓		

Comment on any "NO" response(s):

Level I reviewer: KH 7-27-10 **Date:** 7-27-10

Level II Reviewer: QC **Date:** 7/28/10

N:\Inorganics\spreadsheets2\Use This Wet Chem_Level I.doc
Corporate Policy, QA-012
Revision date: 08/25/00

Test America

310.1 / 2320B

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
PH 7	07/26/2010	11:33 AM	0000.00	7.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
LCSP179506 TV111	07/26/2010	11:46 AM	0000.00	9.0568	56.7821	109.0658	0.0000	104.5673	4.4985	0.0000	.00	.00
BLANK	07/26/2010	11:54 AM	0000.00	6.5082	0.0000	2.5767	2.5767	0.0000	0.0000	0.0000	.00	.00
PH 7-1	07/26/2010	11:59 AM	0000.00	7.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00

Test America

Analyst_____
LCS _____
Date _____

02/03/2316

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L3X1R	07/26/2010	5:56 PM	0000.00	7.3577	0.0000	534.8419	534.8419	0.0000	0.0000	0.0000	.00	.00
L4G39	07/26/2010	6:12 PM	0000.00	7.5771	0.0000	325.1171	325.1171	0.0000	0.0000	0.0000	.00	.00
L4G39 MS	07/26/2010	6:34 PM	0000.00	9.5447	160.1707	726.5852	406.2438	320.3414	0.0000	0.0000	.00	.00
L4G39 MSD	07/26/2010	6:55 PM	0000.00	9.4531	132.8858	667.5159	401.7443	265.7716	0.0000	0.0000	.00	.00
L4G5E	07/26/2010	7:10 PM	0000.00	7.6502	0.0000	334.7365	334.7365	0.0000	0.0000	0.0000	.00	.00
L4G5P	07/26/2010	7:19 PM	0000.00	6.6687	0.0000	3.4214	3.4214	0.0000	0.0000	0.0000	.00	.00
L4G51	07/26/2010	7:34 PM	0000.00	7.6604	0.0000	321.7592	321.7592	0.0000	0.0000	0.0000	.00	.00
L4G54	07/26/2010	7:49 PM	0000.00	7.6809	0.0000	331.4543	331.4543	0.0000	0.0000	0.0000	.00	.00
L4G56	07/26/2010	8:04 PM	0000.00	7.6037	0.0000	372.4035	372.4035	0.0000	0.0000	0.0000	.00	.00
L4G6A	07/26/2010	8:20 PM	0000.00	7.5060	0.0000	350.4601	350.4601	0.0000	0.0000	0.0000	.00	.00
PH 7-2	07/26/2010	8:25 PM	0000.00	6.9897	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4G6F	07/26/2010	8:38 PM	0000.00	7.8617	0.0000	243.7584	243.7584	0.0000	0.0000	0.0000	.00	.00
L4G6J	07/26/2010	8:54 PM	0000.00	7.5507	0.0000	368.3342	368.3342	0.0000	0.0000	0.0000	.00	.00
L4J1P	07/26/2010	9:09 PM	0000.00	7.5791	0.0000	334.9040	334.9040	0.0000	0.0000	0.0000	.00	.00
L4J14	07/26/2010	9:25 PM	0000.00	7.6666	0.0000	355.5871	355.5871	0.0000	0.0000	0.0000	.00	.00
L4J15	07/26/2010	9:40 PM	0000.00	7.7317	0.0000	310.0465	310.0465	0.0000	0.0000	0.0000	.00	.00
L4J16	07/26/2010	9:55 PM	0000.00	7.6869	0.0000	360.0998	360.0998	0.0000	0.0000	0.0000	.00	.00
L1J2C	07/26/2010	10:03 PM	0000.00	6.2339	0.0000	2.4994	2.4994	0.0000	0.0000	0.0000	.00	.00
L4J2L	07/26/2010	10:19 PM	0000.00	7.7560	0.0000	355.5760	355.5760	0.0000	0.0000	0.0000	.00	.00
L4J2X	07/26/2010	10:35 PM	0000.00	7.6158	0.0000	392.0533	392.0533	0.0000	0.0000	0.0000	.00	.00

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4J28	07/26/2010	10:51 PM	0000.00	7.7661	0.0000	356.4755	356.4755	0.0000	0.0000	0.0000	.00	.00
PH7-3	07/26/2010	10:56 PM	0000.00	6.9897	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4J3D	07/26/2010	11:10 PM	0000.00	7.7438	0.0000	293.3922	293.3922	0.0000	0.0000	0.0000	.00	.00
L4K7R	07/26/2010	11:26 PM	0000.00	7.8800	0.0000	373.3984	373.3984	0.0000	0.0000	0.0000	.00	.00
LCSP179506TV-111	07/26/2010	11:38 PM	0000.00	9.0062	62.9042	119.8216	0.0000	113.8349	5.9867	0.0000	.00	.00
BLANK-2	07/26/2010	11:47 PM	0000.00	6.0917	0.0000	2.1537	2.1537	0.0000	0.0000	0.0000	.00	.00
L4JAN	07/27/2010	12:13 AM	0000.00	6.9250	0.0000	909.9750	909.9750	0.0000	0.0000	0.0000	.00	.00
L4JAP	07/27/2010	12:36 AM	0000.00	7.2520	0.0000	778.1158	778.1158	0.0000	0.0000	0.0000	.00	.00
L4JAR	07/27/2010	12:55 AM	0000.00	7.3454	0.0000	547.4612	547.4612	0.0000	0.0000	0.0000	.00	.00
L4JAV	07/27/2010	1:03 AM	0000.00	6.0591	0.0000	2.3328	2.3328	0.0000	0.0000	0.0000	.00	.00
L4JAX	07/27/2010	1:23 AM	0000.00	7.3007	0.0000	555.0707	555.0707	0.0000	0.0000	0.0000	.00	.00
L4JDK	07/27/2010	1:38 AM	0000.00	6.9756	0.0000	343.6076	343.6076	0.0000	0.0000	0.0000	.00	.00
PH7--4	07/27/2010	1:44 AM	0000.00	6.9959	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4JD0	07/27/2010	1:59 AM	0000.00	7.0304	0.0000	333.0890	333.0890	0.0000	0.0000	0.0000	.00	.00
L4JD3	07/27/2010	2:10 AM	0000.00	6.8497	0.0000	102.6593	102.6593	0.0000	0.0000	0.0000	.00	.00
L4JD3 MS	07/27/2010	2:28 AM	0000.00	9.5060	85.2224	520.3716	349.9269	170.4447	0.0000	0.0000	.00	.00
L4JD3 MSD	07/27/2010	2:46 AM	0000.00	9.5082	89.0679	516.8068	338.6709	178.1358	0.0000	0.0000	.00	.00
L4JEC	07/27/2010	2:57 AM	0000.00	6.7217	0.0000	34.8988	34.8988	0.0000	0.0000	0.0000	.00	.00
L4JED	07/27/2010	3:08 AM	0000.00	6.5895	0.0000	34.1714	34.1714	0.0000	0.0000	0.0000	.00	.00
L4JEG	07/27/2010	3:19 AM	0000.00	7.0974	0.0000	105.2257	105.2257	0.0000	0.0000	0.0000	.00	.00
L4JQH	07/27/2010	3:30 AM	0000.00	6.2218	0.0000	135.8845	135.8845	0.0000	0.0000	0.0000	.00	.00
L4KTD	07/27/2010	3:52 AM	0000.00	7.6583	0.0000	672.6683	672.6683	0.0000	0.0000	0.0000	.00	.00
L4KTP	07/27/2010	4:00 AM	0000.00	6.1324	0.0000	2.4249	2.4249	0.0000	0.0000	0.0000	.00	.00
PH 7-5	07/27/2010	4:05 AM	0000.00	6.9736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4KTR	07/27/2010	4:21 AM	0000.00	7.6157	0.0000	403.0836	403.0836	0.0000	0.0000	0.0000	.00	.00

Analyst_____

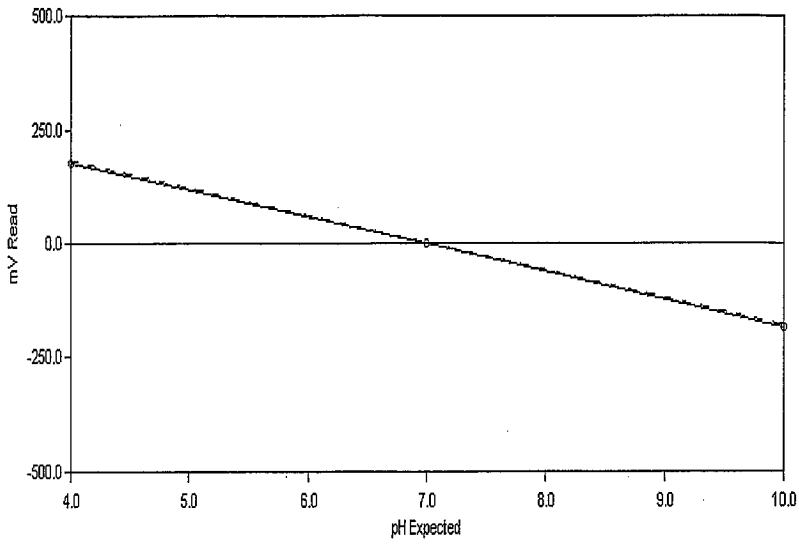
LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4KTT	07/27/2010	4:38 AM	0000.00	7.7091	0.0000	409.5188	409.5188	0.0000	0.0000	0.0000	.00	.00
L4KTV	07/27/2010	5:02 AM	0000.00	7.4308	0.0000	799.7661	799.7661	0.0000	0.0000	0.0000	.00	.00
L4KT0	07/27/2010	5:29 AM	0000.00	7.6707	0.0000	954.1469	954.1469	0.0000	0.0000	0.0000	.00	.00
L4K1A	07/27/2010	5:35 AM	0000.00	6.9939	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4K1R	07/27/2010	5:47 AM	0000.00	6.9208	0.0000	178.2752	178.2752	0.0000	0.0000	0.0000	.00	.00
PH 7-6-3	07/27/2010	5:52 AM	0000.00	6.9877	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
SOAK	07/27/2010	6:26 AM	0000.00	6.8557	0.0000	1317.4382	1317.4382	0.0000	0.0000	0.0000	.00	.00

Calibration Report

Calibration Record # 4266



Calibration Settings

Calibration ID	PH CAL 4-7-10 ALK	Date	07/26/2010
Channel	1	Time	11:28 AM
Probe Type	pH WCP 56	Temperature	298.56 K 25.41 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-60.057	CorrCoeff	1.0000
Intercept	-1.587	Equation: Y = (-60.057) X + (-1.587)	

Calibration Validity True Operator A

	Result	Minimum	Maximum
Slope	-60.057	-85.00	-45.00
Intercept	-1.587	-100.00	100.00
Correlation Coefficient	1.0000	1.00	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00 H46511	177.97
	7.00 J05518	-0.36
	10.00 J04532	-182.37

H_2SO_4 0.02N WR00667

LCS TV= 111
P179-506

MS/MSD TV = 500 mg/L.

CALRPRT.SRW

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	TestAmerica, North Canton				
	376.1 / 4500-S2-E Sulfide Logsheet				
Prep Date	07/28/10		Batch	0209262/3	
Anal Date	07/28/10				
			Lcs No.	SD0009	
Analyst	BW		Prep Date	07/28/10	
Titrant	Sodium		**WR00613**		
Name	Thiosulfate		Iodine	**WR00446**	
Normality	0.0254		Normality	0.0282	
Standardization	06/28/10		Date	07/28/10	
Intials	JB		Intials	BW	
Sample No.	Sample Vol	dil	Titrant Vol (ml)	Final Conc mg/L or mg/kg	Time
BLK	250	1	22.2	0.01	15:51
LCS	250	1	12.8	15.29	15:51
L4JDK	250	1	22.4	-0.32	15:51
L4JD0	250	1	22.5	-0.48	15:51
L4JD3	250	1	22.5	-0.48	15:51
L4JD3 MS	250	1	13.2	14.64	15:51
L4JD3 MSD	250	1	13.4	14.31	15:51
L4JEC	250	1	22.4	-0.32	15:51
L4JED	250	1	22.4	-0.32	15:51
L4JEG	250	1	23.0	-1.29	15:51
L4K1A	250	1	22.2	0.01	15:51
L4K1R	250	1	22.4	-0.32	15:51
L4K2T	250	1	22.2	0.01	15:51
L4K29	250	1	22.4	-0.32	15:51
BLK 2	250	1	22.2	0.01	15:51
LCS 2	250	1	12.8	15.29	15:51
L4K7R	250	1	20.6	2.61	15:51
L4K9A	250	1	22.2	0.01	15:51
L4K9T	250	1	22.2	0.01	15:51
L4K91	250	1	22	0.33	15:51
L4K99	250	1	21.8	0.66	15:51
L4K99 MS	250	1	13.7	13.83	15:51
L4K99 MSD	250	1	13.4	14.31	15:51
L4LAK	250	1	22	0.33	15:51
L4LAQ	250	1	22.2	0.01	15:51
	250	1		36.10	
BLK 1	250	1	22.2	0.01	15:47
BLK 2	250	1	22.2	0.01	15:47
BLK 3	250	1	22.3	-0.15	15:47
	250	1		36.10	
LCS 1	250	1	12.8	15.29	15:52
LCS 2	250	1	12.8	15.29	15:52

LCS 3	250	1	13	14.96	15:52

Starch **WR00719**

QC/Calc

TV=15.18

TV=15.18

TV=15.18

TV=15.18

TV=15.18

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): T ALK

Batch(es): 0210220/1

Method #/SOP#: (2320B, SM18), (310.1)

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?	✓			✓		
2. Calibration curve consist of the minimum number of calibration standards?	✓			✓		
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?	✓			✓		
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?			✓			✓
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?			✓			✓
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓			✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?			✓			✓
E. Titrant						
1. Titrant standardized?		✓			✓	
2. If no, standardization expires 8/18/10 ✓	✓					
F. Other			✓			✓
1. Are all nonconformances documented appropriately (NCM or narrative)?	✓			✓		
2. Calculations checked for error ?	✓			✓		
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?			✓			✓
7. Dilutions have been properly applied and RL's adjusted appropriately?	✓			✓		
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓			✓		
10. All reagent and standard numbers recorded in logbook?	✓			✓		
11. Edits dated and initialed	✓			✓		

Comment on any "NO" response(s):

Level I reviewer: KH MMM **Date:** 7-29-10

Level II Reviewer: SS **Date:** 8.4.10

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Corporate Policy, QA-012
Revision date: 08/25/00

(2320B, SM18) , 310.1

886

Test America

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
PH 7	07/28/2010	9:23 AM	0000.00	7.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
LCSP179506 TV111	07/28/2010	9:36 AM	0000.00	9.0583	58.8902	109.4784	0.0000	101.1765	8.3019	0.0000	.00	.00
BLANK	07/28/2010	9:45 AM	0000.00	6.4119	0.0000	2.6628	2.6628	0.0000	0.0000	0.0000	.00	.00
PH 7-1	07/28/2010	9:49 AM	0000.00	7.0067	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00

North Canton

Test America

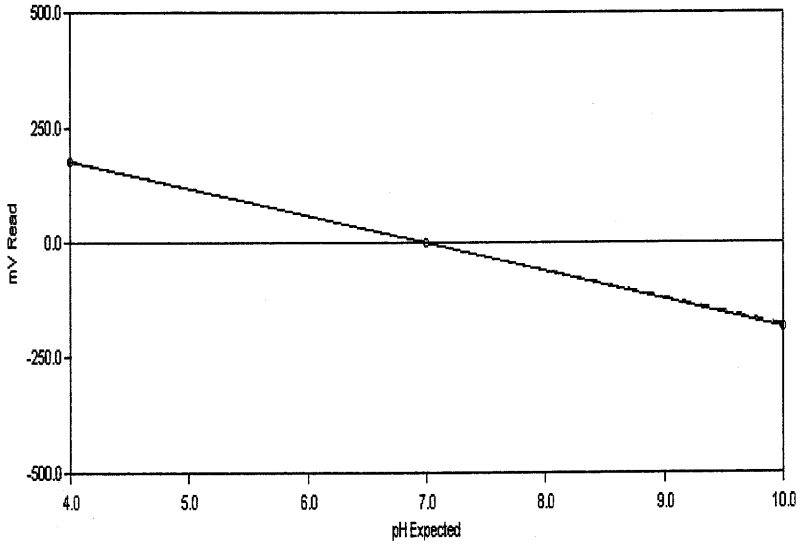
Analyst_____
LCS _____
Date _____

02102011

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4KQQ	07/28/2010	10:38 AM	0000.00	6.7013	0.0000	8.0389	8.0389	0.0000	0.0000	0.0000	.00	.00
L4K1R	07/28/2010	10:51 AM	0000.00	6.5770	0.0000	201.6978	201.6978	0.0000	0.0000	0.0000	.00	.00
L4K2T	07/28/2010	11:06 AM	0000.00	6.5566	0.0000	322.3749	322.3749	0.0000	0.0000	0.0000	.00	.00
L4L29	07/28/2010	11:17 AM	0000.00	7.5161	0.0000	114.0707	114.0707	0.0000	0.0000	0.0000	.00	.00
L4MMP	07/28/2010	11:27 AM	0000.00	6.8277	0.0000	12.7357	12.7357	0.0000	0.0000	0.0000	.00	.00
L4MMR	07/28/2010	11:37 AM	0000.00	6.9193	0.0000	13.8939	13.8939	0.0000	0.0000	0.0000	.00	.00
L4MMT	07/28/2010	11:47 AM	0000.00	6.8051	0.0000	14.0323	14.0323	0.0000	0.0000	0.0000	.00	.00
L4QH2	07/28/2010	12:10 PM	0000.00	7.5772	0.0000	704.2288	704.2288	0.0000	0.0000	0.0000	.00	.00
L4QJD	07/28/2010	12:29 PM	0000.00	7.5038	0.0000	534.9011	534.9011	0.0000	0.0000	0.0000	.00	.00
L4QJH	07/28/2010	12:48 PM	0000.00	7.6343	0.0000	533.9449	533.9449	0.0000	0.0000	0.0000	.00	.00
PH 7-2	07/28/2010	12:54 PM	0000.00	6.9966	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4QJK	07/28/2010	1:05 PM	0000.00	7.3143	0.0000	105.9931	105.9931	0.0000	0.0000	0.0000	.00	.00
L4QJL	07/28/2010	1:16 PM	0000.00	7.1676	0.0000	130.7403	130.7403	0.0000	0.0000	0.0000	.00	.00
L4QJM	07/28/2010	1:31 PM	0000.00	7.1574	0.0000	319.2553	319.2553	0.0000	0.0000	0.0000	.00	.00
L4QJM MS	07/28/2010	1:53 PM	0000.00	8.5552	25.4639	730.1249	679.1971	50.9278	0.0000	0.0000	.00	.00
L4QJM MSD	07/28/2010	2:16 PM	0000.00	8.6083	37.2567	754.0436	679.5302	74.5135	0.0000	0.0000	.00	.00
L4QJQ	07/28/2010	2:25 PM	0000.00	7.4896	0.0000	5.1304	5.1304	0.0000	0.0000	0.0000	.00	.00
L4QJR	07/28/2010	2:39 PM	0000.00	7.4814	0.0000	268.5488	268.5488	0.0000	0.0000	0.0000	.00	.00
PH 7-3	07/28/2010	2:44 PM	0000.00	6.9966	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
SOAK	07/28/2010	3:20 PM	0000.00	6.9986	0.0000	1462.3195	1462.3195	0.0000	0.0000	0.0000	.00	.00

Calibration Report

Calibration Record # 4269



Calibration Settings

Calibration ID	PH CAL 4-7-10 ALK	Date	07/28/2010
Channel	1 ✓	Time	9:18 AM
Probe Type	pH	Temperature	298.58 K 25.43 C
Probe ID	PH ELECTRODE WCP-56	Analysis Type	Single Line Fit

Calibration Results

Slope	-59.915	CorrCoeff	1.0000
Intercept	-2.157	Equation: Y = (-59.915) X + (-2.157)	

Calibration Validity **True** Operator A

	Result	Minimum	Maximum
Slope	-59.915	-85.00	-45.00
Intercept	-2.157	-100.00	100.00
Correlation Coefficient	1.0000	1.00	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	**Standard** ✓	**Reading**
	4.00 H96511 ✓	177.12
	7.00 J11517 ✓	-1.22
	10.00 J04532	-182.37

.02N H_2SO_4 WR00667 exp 8/18/10 ✓

LCS P179-506 TV= 111 ✓

MS (MSD 1mL of AL 9002 into 50 TV = 500 mg/L ✓

CALRPRT.SRW

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			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		214278
Prep Date	8/2/2010	Time In	14:35	Analyst	TM/LG	
Anal date	8/3/2010	Time Out	6:30	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**8/6/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.5672	4.4740	4.4617	3.11	ND	12:48
L4K1V1AC	4.5672	11.2566	9.0912	67.629	32.371	12:48
L4K2R1AC	4.5672	9.4816	6.2541	34.326	65.674	12:48
L4K241AE	4.5672	8.6642	6.4204	45.233	54.767	12:49
L4K241AH X	4.5672	9.3989	6.4721	39.425	60.575	12:50
L4K841AF	4.5672	11.2270	6.4036	27.574	72.426	12:50
L4LXA1AD	4.5672	14.9093	13.9764	90.980	9.020	12:50
L4LK41AA	4.5672	21.0472	17.9525	81.221	18.779	12:50
L4LLD1AA	4.5672	15.3605	13.3204	81.098	18.902	12:51
L4LLJ1AA	4.5672	18.2631	15.9026	82.765	17.235	12:51
L4LLL1AA	4.5672	20.4365	19.3309	93.033	6.967	12:51
L4LLM1AA	4.5672	19.0474	16.1917	80.279	19.721	12:51
L4LLQ1AA	4.5672	16.2794	14.2222	82.435	17.565	12:52
L4LLV1AA	4.5672	18.1418	15.6333	81.521	18.479	12:52
L4LL21AA	4.5672	15.3220	13.3422	81.591	18.409	12:52
L4LL51AA	4.5672	20.2085	18.7848	90.898	9.102	12:53
L4LL71AA	4.5672	17.4579	17.0390	96.750	3.250	12:53
L4LMA1AA	4.5672	21.2921	17.7265	78.681	21.319	12:53
L4LXJ1AA	4.5672	13.4597	12.3501	87.522	12.478	12:53
L4LXL1AA	4.5672	10.2954	9.3175	82.928	17.072	12:54
L4LXL1AK X	4.5672	9.6506	8.6663	80.637	19.363	12:54
L4MW51AA	4.5672	12.0857	10.8201	83.167	16.833	12:55
L4MW61AA	4.5672	13.8141	11.7195	77.348	22.652	12:55

TestAmerica, North Canton

General Chemistry Data Review Checklist

Parameter(s): ALK

Batch(es): 0217057/58/59/60/61

Method #/SOP#: 310.1 2320B, SM18

Review Items	Level I Review			Level II Review		
A. Initial Calibration	YES	NO	N/A	YES	NO	N/A
1. Initial calibration correlation coefficient ≥ 0.995?			✓	✓		✓
2. Calibration curve consist of the minimum number of calibration standards?			✓			✓
3. ICV analyzed at immediately after calibration and within control limits ? (90-110%)	✓			✓		
4. ICB analyzed immediately after ICV and within criteria (± RL)?			✓			✓
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?	✓			✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria (±RL)?	✓		✓			✓
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed ?	✓			✓		
2. All reported results bracketed by in control QC ?	✓			✓		
3. Sample analyses done within holding time ?	✓			✓		
D. Quality Control						
1. LCS per prep batch and within QC limits ? *(LCSD, where applicable)*	✓			✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?	✓			✓		
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?	✓			✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?	✓			✓		
E. Titrant						
1. Titrant standardized?			✓			✓
2. If no, standardization expires 8.9.10						
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?	✓		✓			✓
2. Calculations checked for error ?	✓			✓		
3. Transcriptions checked for error ?	✓			✓		
4. All client/project specific requirements met ?	✓			✓		
5. Date/time of preparation and analysis verified as correct ?	✓			✓		
6. Units verified as correct?	✓			✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?	✓			✓		
8. SOP followed?	✓			✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?	✓			✓		
10. All reagent and standard numbers recorded in logbook?	✓			✓		
11. Edits dated and initialed	✓			✓		

Comment on any "NO" response(s):

Level I reviewer: [signature] **Date:** 8.5.10

Level II Reviewer: Sam **Date:** 8/5/10

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Corporate Policy, QA-012
Revision date: 08/25/00

0217057-0217058-59-60-61

Test America

2320B, SM18

310.1

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
PH 7	08/03/2010	9:28 AM	0000.00	6.9906	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
ALK LCS	08/03/2010	9:41 AM	0000.00	9.0127	55.9622	109.2343 ✓	0.0000	106.5442 ✓	2.6901	0.0000	.00	.00
BLANK	08/03/2010	9:49 AM	0000.00	6.2067	0.0000	2.4705 ✓	2.4705 ✓	0.0000 ✓	0.0000	0.0000	.00	.00
PH 7 1	08/03/2010	9:54 AM	0000.00	6.9946	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00

9.51 / 100ml = 0.0951

SS 8.5.10

#0217033

891

North Canton

Test America

Analyst_____
LCS _____
Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
LCSP179506TV=111	08/03/2010	2:09 PM	0000.00	9.0351	60.2558	111.7842	0.0000	103.0567	8.7274	0.0000	.00	.00
L BLANK x10	08/03/2010	2:17 PM	0000.00	6.2025	0.0000	2.3011	2.3011	0.0000	0.0000	0.0000	.00	.00
L4Q8F x10.52	08/03/2010	2:43 PM	0000.00	7.7140	0.0000	915.8679	915.8679	0.0000	0.0000	0.0000	.00	.00
L4K1A	08/03/2010	2:53 PM	0000.00	6.9884	0.0000	45.9205	45.9205	0.0000	0.0000	0.0000	.00	.00
L4K1A MS	08/03/2010	3:13 PM	0000.00	10.2265	202.7311	541.0434	135.5812	405.4622	0.0000	0.0000	.00	.00
L4K1A MSD	08/03/2010	3:32 PM	0000.00	10.2348	205.3415	532.4568	121.7737	410.6831	0.0000	0.0000	.00	.00
L4W2T	08/03/2010	4:16 PM	0000.00	7.3229	0.0000	1821.1857	1821.1857	0.0000	0.0000	0.0000	.00	.00
L4W2T 10X	08/03/2010	4:28 PM	0000.00	7.6187	0.0000	181.4176	181.4176	0.0000	0.0000	0.0000	.00	.00
L4RV3	08/03/2010	4:40 PM	0000.00	7.9145	0.0000	184.5613	184.5613	0.0000	0.0000	0.0000	.00	.00
L4RV3 X	08/03/2010	4:52 PM	0000.00	7.9145	0.0000	184.5306	184.5306	0.0000	0.0000	0.0000	.00	.00
PH 7-2	08/03/2010	4:57 PM	0000.00	6.9845	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00
L4RV9	08/03/2010	5:11 PM	0000.00	8.0402	0.0000	213.6312	213.6312	0.0000	0.0000	0.0000	.00	.00
L4RWA	08/03/2010	5:23 PM	0000.00	8.0543	0.0000	208.8244	208.8244	0.0000	0.0000	0.0000	.00	.00
L4RWC	08/03/2010	5:35 PM	0000.00	8.0888	0.0000	164.3052	164.3052	0.0000	0.0000	0.0000	.00	.00
L4RWE	08/03/2010	5:48 PM	0000.00	8.1253	0.0000	217.5743	217.5743	0.0000	0.0000	0.0000	.00	.00
L4RWF	08/03/2010	6:02 PM	0000.00	8.0644	0.0000	199.1023	199.1023	0.0000	0.0000	0.0000	.00	.00
L4RWG	08/03/2010	6:14 PM	0000.00	8.4049	0.0000	146.8999	146.8999	0.0000	0.0000	0.0000	.00	.00
L4RWH	08/03/2010	6:26 PM	0000.00	8.1212	0.0000	174.6181	174.6181	0.0000	0.0000	0.0000	.00	.00
L4RWL	08/03/2010	6:39 PM	0000.00	7.9854	0.0000	234.2659	234.2659	0.0000	0.0000	0.0000	.00	.00
L4RWP	08/03/2010	6:52 PM	0000.00	8.0056	0.0000	181.5512	181.5512	0.0000	0.0000	0.0000	.00	.00

23.011 (x10.52)

L4Q8F = x10.52 9634.93

893

Analyst_____

LCS _____

Date _____

Sample Name	Run Date	Run Time	Conductivity	pH	P-Alk	Total Alk	BiCarbonate	Carbonate	Hydroxide	Fluoride	Acid Volume	Acidity
L4RWQ	08/03/2010	7:04 PM	0000.00	8.1374	0.0000	164.4161	164.4161	0.0000	0.0000	0.0000	.00	.00
PH 7-3	08/03/2010	7:09 PM	0000.00	6.9723	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	.00	.00

North Canton

TESTAMERICA NORTH CANTON
D.I. LEACH LOGSHEET

Prep Date 8-3-10 Batch 0217058

Analyst(s) KH Start Time 11:25

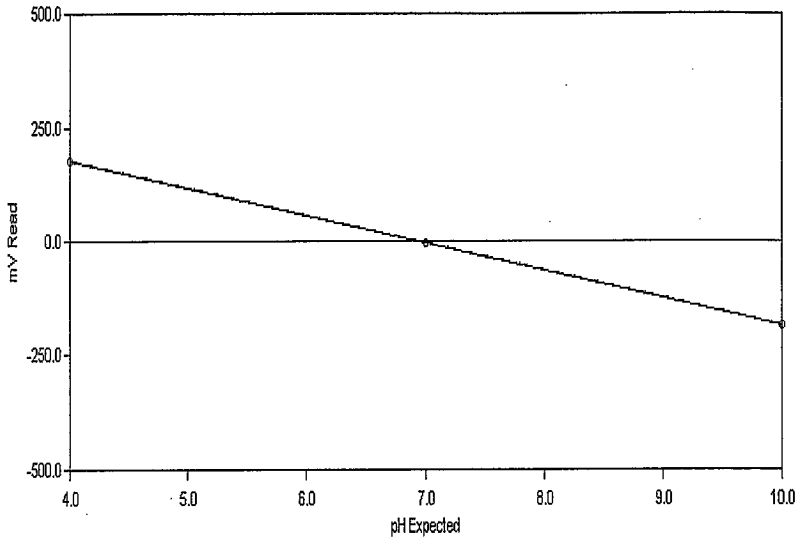
Analysis T ALK End Time 12:25

Sample	Sample Amount (g)	D.I. Water Volume (mL)	Comments
Blank	0	100	
L4Q8F	11.95-2.99	100	subtracting filter weight 4.22g filter weight
			9.51g
			100mL/9.51 = .1L/.00951Kg = 10.52 mg/Kg
			↓ solid multiplier for sample L4Q8F. SS. 8.5.10
			KH 8-3-10

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Calibration Report

Calibration Record # 4273



Calibration Settings

Calibration ID	PH CAL 4-7-10 ALK	Date	08/03/2010
Channel	1	Time	9:23 AM
Probe Type	pH	Temperature	298.56 K 25.41 C
Probe ID	PH ELECTRODE WCP-56	Analysis Type	Single Line Fit

Calibration Results

Slope	-60.240	CorrCoeff	1.0000
Intercept	-3.617	Equation: Y = (-60.240) X + (-3.617)	

Calibration Validity True Operator A

	Result	Minimum	Maximum
Slope	-60.240	-85.00	-45.00
Intercept	-3.617	-100.00	100.00
Correlation Coefficient	1.0000	1.00	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00 #96511	177.00
	7.00 J11517	-3.41
	10.00 J04532	-184.44

MS/MSD AL9002 1mL to 50 = 500ppm

LCS P179-506 TV> 111

8.9.10

.02N H_2SO_4 exp ~~8-8-10~~

WR00667

stand.
7,9,10.
.02008N
QC

CALRPRT.SRW

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TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0G230443	2		L4K1A1AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G230443	2		L4K1A1AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	2		L4K1A1AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	2		L4K1A1AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	2		L4K1A1AA	Alkalinity, Total (310.1)	08/03/10	Samantha Scott	08/03/10	Samantha Scott
A0G230443	2		L4K1A1AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G230443	2	S	L4K1A1AK	Alkalinity, Total (310.1)	08/03/10	Samantha Scott	08/03/10	Samantha Scott
A0G230443	2	D	L4K1A1AL	Alkalinity, Total (310.1)	08/03/10	Samantha Scott	08/03/10	Samantha Scott
A0G230443	4		L4K1R1AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G230443	4		L4K1R1AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	4		L4K1R1AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	4		L4K1R1AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	4		L4K1R1AA	Alkalinity, Total (310.1)	07/27/10	Kyle Henry	07/27/10	Kyle Henry
A0G230443	4		L4K1R1AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G230443	5		L4K1V1AC	Solids, Percent (as TS - 160.3 MOD) - Solids	08/02/10	Tom Harshman	08/03/10	Tom Harshman
A0G230443	7		L4K2R1AC	Solids, Percent (as TS - 160.3 MOD) - Solids	08/02/10	Tom Harshman	08/03/10	Tom Harshman
A0G230443	8		L4K2T1AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G230443	8		L4K2T1AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	8		L4K2T1AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	8		L4K2T1AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	8		L4K2T1AA	Alkalinity, Total (310.1)	07/28/10	Kyle Henry	07/28/10	Kyle Henry
A0G230443	8		L4K2T1AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman
A0G230443	10		L4K241AE	Solids, Percent (as TS - 160.3 MOD) - Solids	08/02/10	Tom Harshman	08/03/10	Tom Harshman
A0G230443	10	X	L4K241AH	Solids, Percent (as TS - 160.3 MOD) - Solids	08/02/10	Tom Harshman	08/03/10	Tom Harshman
A0G230443	11		L4K291AD	Sulfide (376.1)	07/28/10	Bruce Woodward	07/28/10	Bruce Woodward
A0G230443	11		L4K291AE	Nitrate as N (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	11		L4K291AF	Sulfate (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0G230443	11		L4K291AG	Chloride (300.0A, Ion Chromatography)	07/23/10	Jill Burns	07/23/10	Jill Burns
A0G230443	11		L4K291AA	Alkalinity, Total (310.1)	07/28/10	Kyle Henry	07/28/10	Kyle Henry
A0G230443	11		L4K291AC	Carbon, Total Organic "TOC" (415.1)	07/26/10	Tom Harshman	07/26/10	Tom Harshman

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 104-0012-0200

CARROLL & DUBIES (C&D)

Lot #: A0G230443

Barbara Jones

Cardinal Resources
1505 E Carson Street
Suite #200
Pittsburgh, PA 15203

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D. Heckler
Project Manager
8/13/2010 9:53 AM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

August 13, 2010

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0G230443

The following report contains the analytical results for three solid samples, eight water samples and one quality control sample submitted to TestAmerica North Canton by Cardinal Resources from the Carroll & Dubies (C&D) Site, project number 104-0012-0200. The samples were received July 23, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Barbara Jones, John Vogeding, and Steve Bodnar on August 06, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit with the exception of Total Residue as Percent Solids and Dissolved Gases in Water which were reported to the method detection limit and include appropriate qualifiers. Volatile Organics by GC/MS had some samples evaluated to the method detection limit and some samples evaluated to the reporting limit.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.6°C.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The internal standard areas were outside acceptance limits for sample(s) SED 2, SED 2MSD and SED 2MS due to matrix effects. (Refer to IS report following this case narrative for additional detail.)

DISSOLVED GASES/RSK

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

(s10H
Data File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\141517.D
Report Date: 30-Jul-2010 08:47

TestAmerica North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a3ux14.i
Lab File ID: 141517.D
Lab Smp Id: L4K241AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 2807
Calibration Date: 29-JUL-2010
Calibration Time: 10:55
Client Smp ID: SED 2
Level: LOW
Sample Type: SOIL
Method File: \\cansvr11\dd\chem\MSV\a3ux14.i\R00729A.b\8260SUX14.m
Misc Info: R00729A,8260SUX14,,2807

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1564159	782080	3128318	1128796	-27.83
2 Chlorobenzene-d5	1117515	558758	2235030	645056	-42.28
3 1,4-Dichlorobenze	636663	318332	1273326	243325	-61.78 |<-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	6.59	6.09	7.09	6.59	-0.00
2 Chlorobenzene-d5	9.32	8.82	9.82	9.32	-0.00
3 1,4-Dichlorobenze	11.29	10.79	11.79	11.29	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0G230443

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
FIELD BLANK 3 07/22/10 08:40 001				
Acetone	1.2 J	10	ug/L	SW846 8260B
OW25 07/22/10 09:10 002				
Acetone	1.2 J	10	ug/L	SW846 8260B
Chloride	1.5	1.0	mg/L	MCAWW 300.0A
Sulfate	9.2	1.0	mg/L	MCAWW 300.0A
Nitrate as N	1.8	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	46	5.0	mg/L	MCAWW 310.1
SW1 07/22/10 11:00 003				
Acetone	3.6 J	10	ug/L	SW846 8260B
OW19 07/22/10 11:15 004				
Ethane	0.56 J	1.0	ug/L	RSK SOP-175
Methane	1500	1.0	ug/L	RSK SOP-175
Vinyl chloride	0.63 J	2.0	ug/L	SW846 8260B
Chloroethane	0.85 J	2.0	ug/L	SW846 8260B
Acetone	1.3 J	10	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.65 J	1.0	ug/L	SW846 8260B
Benzene	1.2	1.0	ug/L	SW846 8260B
Chlorobenzene	11	1.0	ug/L	SW846 8260B
Chloride	5.8	1.0	mg/L	MCAWW 300.0A
Sulfate	15.9	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	6	1	mg/L	MCAWW 415.1
Total Alkalinity	180	5.0	mg/L	MCAWW 310.1
SED 1 07/22/10 11:20 005				
Acetone	45	29	ug/kg	SW846 8260B
Methylene chloride	7.9	7.3	ug/kg	SW846 8260B
Percent Solids	67.6	10.0	%	MCAWW 160.3 MOD
SW DUP 07/22/10 006				
Acetone	3.6 J	10	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0G230443

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SED DUP 07/22/10 007				
Acetone	85	62	ug/kg	SW846 8260B
Percent Solids	34.3	10.0	%	MCAWW 160.3 MOD
OW18 07/22/10 13:00 008				
Methane	910	1.0	ug/L	RSK SOP-175
Chloroethane	0.41 J	2.0	ug/L	SW846 8260B
Acetone	1.6 J	10	ug/L	SW846 8260B
1,2-Dichloropropane	0.30 J	1.0	ug/L	SW846 8260B
Benzene	2.8	1.0	ug/L	SW846 8260B
Chlorobenzene	11	1.0	ug/L	SW846 8260B
Xylenes (total)	0.63 J	1.0	ug/L	SW846 8260B
Chloride	7.9	1.0	mg/L	MCAWW 300.0A
Sulfate	3.5	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	10	1	mg/L	MCAWW 415.1
Total Alkalinity	320	5.0	mg/L	MCAWW 310.1
SED 2 07/22/10 14:30 010				
Acetone	89	65	ug/kg	SW846 8260B
Methylene chloride	18	16	ug/kg	SW846 8260B
Percent Solids	45.2	10.0	%	MCAWW 160.3 MOD
OW24 07/22/10 14:20 011				
Chloromethane	0.47 J	2.0	ug/L	SW846 8260B
Chloride	1.8	1.0	mg/L	MCAWW 300.0A
Sulfate	12.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.21	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	110	5.0	mg/L	MCAWW 310.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0G230443

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0A
Dissolved Gases in Water	RSK SOP-175
Nitrate as N	MCAWW 300.0A
Sulfate	MCAWW 300.0A
Sulfide	MCAWW 376.1
Total Organic Carbon	MCAWW 415.1
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0G230443

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4KX7	001	FIELD BLANK 3	07/22/10	08:40
L4K1A	002	OW25	07/22/10	09:10
L4K1N	003	SW1	07/22/10	11:00
L4K1R	004	OW19	07/22/10	11:15
L4K1V	005	SED 1	07/22/10	11:20
L4K2Q	006	SW DUP	07/22/10	
L4K2R	007	SED DUP	07/22/10	
L4K2T	008	OW18	07/22/10	13:00
L4K22	009	SW2	07/22/10	14:00
L4K24	010	SED 2	07/22/10	14:30
L4K29	011	OW24	07/22/10	14:20
L4K3C	012	TRIP BLANK	07/22/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

Chain of Custody Record

TestAmerica 16
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Cardinal Resources, LLC	Client Project Manager: Barb. Jones	Site Contact: John Vogelding	Lab Contact: Nathan Pietras	COC No:
Address: 1505 E. Carson St.	Telephone:	Telephone: 412 374-0989	Telephone:	1 of 2 COCs
City/State/Zip: Pittsburgh, PA 15203	Email: BJones@Cardinalres.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only:
Phone: 412 374 0989		TAT if different from below _____ ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐
Project Name: Carroll + Dubies (C+D)	Method of Shipment/Carrier: Fed Ex			Job/SDG No:
Project Number: 104-0012-0200	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample Y (N)	Composite C / Grab G	TCL VOC's	Methane/Ethane/Ethene	Sulfide	Sulfate	Alkalinity	Chloride	Nitrate (N)	TOC			Sample Specific Notes / Special Instructions:
Field Blank 3	7-22	0840		X						X					N		X										
OW25		0910		X				X		X		X	X		N		X	X	X	X	X	X	X	X			
SW1		1100		X						X					N		X										
OW19		1115		X				X		X		X	X		N		X	X	X	X	X	X	X	X			
Sed 1		1120			X								X		N		X										
SW Dup		—		X						X					N		X										
Sed Dup		—			X								X		N		X										
OW18		1300		X				X		X		X	X		N		X	X	X	X	X	X	X	X			
SW2		1400		X						X					N		X										
SW2 MS		1410		X						X					N		X										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Vogelding	Cardinal Resources	7-22-10 1615			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Clara Marquez	Company: TAL NC	Date/Time: 7/23/10 905

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TAL-0018 (1008)

North Canton

Chain of Custody Record

TestAmerica 17
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Cardinal Resources, LLC	Client Project Manager: Bard Jones	Site Contact: John Vogeding	Lab Contact: Nathan Pietras	COC No:
Address: See Page 1	Telephone:	Telephone: 412 374 0989	Telephone:	2 of 2 COCs
City/State/Zip:	Email: See Page 1	Analysis Turnaround Time (in BUSINESS days)	Analyses	For lab use only
Phone:		TAT if different from below _____		Walk-in client ☐
Project Name: CxD	Method of Shipment/Carrier: Fed Ex	☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup ☐
Project Number: 104-0012-200	Shipping/Tracking No:			Lab sampling ☐
PO #				Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite = C; Grab = G	TLC VOCs	Methane/Ethane/Ethene	Sulfide	Sulfate	Alkalinity	Chloride	Nitrate	Nitrite	Special Instructions:
SW2 MSD	7-22	1420		X						X					N		X								
Sed 2		1430			X								X		N		X								
Sed 2 MS		1440			X								X		N		X								
Sed 2 MSD		1450			X								X		N		X								
OW24	↓	1420		X				X		X		X	X		N		X	X	X	X	X	X	X	X	
Trip Blank	Lab Prepared			X						X					N		X								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Vogeding	Cardinal Resources	7-22-10 1615			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Claire Mangan	Company: TAL NC	Date/Time: 7/23/10 908

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TAL-0018 (1008)

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 440230443

North Canton Facility

Client Cardinal Resources Project _____ By: Diana Mangu
(Signature)

Cooler Received on 7/23/10 Opened on 7/23/10

FedEx [X] UPS [ ] DHL [ ] FAS [ ] Stetson [ ] Client Drop Off [ ] TestAmerica Courier [ ] Other _____

TestAmerica Cooler # C270 Multiple Coolers [ ] Foam Box [ ] Client Cooler [ ] Other _____

1. Were custody seals on the outside of the cooler(s)? Yes [ ] No [X] Intact? Yes [ ] No [ ] NA [X]
   If YES, Quantity _____ Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes [ ] No [ ] NA [X]
   Were custody seals on the bottle(s)? Yes [ ] No [X]
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes [X] No [ ]
3. Did custody papers accompany the sample(s)? Yes [X] No [ ] Relinquished by client? Yes [X] No [ ]
4. Were the custody papers signed in the appropriate place? Yes [X] No [ ]
5. Packing material used: Bubble Wrap [ ] Foam [ ] None [ ] Other _____
6. Cooler temperature upon receipt 5.6 °C See back of form for multiple coolers/temps [ ]
   METHOD: IR [X] Other [ ] _____
   COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]
7. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
8. Could all bottle labels be reconciled with the COC? Yes [X] No [ ]
9. Were sample(s) at the correct pH upon receipt? Yes [X] No [ ] NA [ ]
10. Were correct bottle(s) used for the test(s) indicated? Yes [X] No [ ]
11. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [X] NA [ ]
12. Sufficient quantity received to perform indicated analyses? Yes [X] No [ ]
13. Was a trip blank present in the cooler(s)? Yes [X] No [ ] Were VOAs on the COC? Yes [X] No [ ]

Contacted PM _____ Date _____ by _____ via Verbal [ ] Voice Mail [ ] Other [ ]
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 051010-HNO_3; *Sulfuric Acid Lot#* 121709-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH*. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
25	> 9	7/23/10	a
19	> 9	"	"
18	> 9	"	"
24	> 9	"	"

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GCMS VOLATILE DATA

Cardinal Resources

Client Sample ID: FIELD BLANK 3

GC/MS Volatiles

Lot-Sample #...: A0G230443-001	**Work Order #...:** L4KX71AA	**Matrix.....:** WQ	
Date Sampled...: 07/22/10 08:40	**Date Received..:** 07/23/10		
Prep Date.....: 08/01/10	**Analysis Date..:** 08/01/10		
Prep Batch #...: 0214227			
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL	
	Method.....: SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.2 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	83	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: FIELD BLANK 3

GC/MS Volatiles

Lot-Sample #...: A0G230443-001 Work Order #...: L4KX71AA Matrix.....: WQ

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: OW25

GC/MS Volatiles

Lot-Sample #...: A0G230443-002 Work Order #...: L4K1A1AJ Matrix.....: WG
Date Sampled...: 07/22/10 09:10 Date Received..: 07/23/10
Prep Date.....: 08/03/10 Analysis Date..: 08/03/10
Prep Batch #...: 0215229
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	~~1.2~~ J 10U	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

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BNJ 9/21/2010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW25

GC/MS Volatiles

Lot-Sample #...: A0G230443-002 Work Order #...: L4K1A1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: SW1

GC/MS Volatiles

Lot-Sample #...: A0G230443-003 Work Order #...: L4K1N1AA Matrix.....: WG
Date Sampled...: 07/22/10 11:00 Date Received..: 07/23/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	3.6 J 10U	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

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BNG 9/21/2010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	81	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: SW1

GC/MS Volatiles

Lot-Sample #...: A0G230443-003 Work Order #...: L4K1N1AA Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: OW19

GC/MS Volatiles

Lot-Sample #...: A0G230443-004 Work Order #...: L4K1R1AJ Matrix.....: WG
Date Sampled...: 07/22/10 11:15 Date Received..: 07/23/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.63 J**	**2.0**	**ug/L**
Chloroethane	**0.85 J**	**2.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Acetone	~~1.3~~ J 10U	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.65 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**1.2**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**11**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

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SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(73 - 122)
1,2-Dichloroethane-d4	83	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW19

GC/MS Volatiles

Lot-Sample #...: A0G230443-004 Work Order #...: L4K1R1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: SED 1

GC/MS Volatiles

BNQ 9/2/2010

Lot-Sample #...: A0G230443-005 Work Order #...: L4K1V1AA Matrix.....: SO
Date Sampled...: 07/22/10 11:20 Date Received..: 07/23/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 0.99 Initial Wgt/Vol: 5 g Final Wgt/Vol..: 5 mL
% Moisture.....: 32 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	45 J (~~1st dilution~~ 2nd dilution)	29	**ug/kg**
Benzene	ND (Duplicate exceeds RPD)	7.3	ug/kg
Bromodichloromethane	ND	7.3	ug/kg
Bromoform	ND	7.3	ug/kg
Bromomethane	ND	7.3	ug/kg
2-Butanone	ND	29	ug/kg
Carbon disulfide	ND	7.3	ug/kg
Carbon tetrachloride	ND	7.3	ug/kg
Chlorobenzene	ND	7.3	ug/kg
Dibromochloromethane	ND	7.3	ug/kg
1,2-Dibromo-3-chloro-propane	ND	15	ug/kg
Chloroethane	ND	7.3	ug/kg
Chloroform	ND	7.3	ug/kg
Chloromethane	ND	7.3	ug/kg
Cyclohexane	ND	15	ug/kg
1,2-Dibromoethane	ND	7.3	ug/kg
1,2-Dichlorobenzene	ND	7.3	ug/kg
1,3-Dichlorobenzene	ND	7.3	ug/kg
1,4-Dichlorobenzene	ND	7.3	ug/kg
Dichlorodifluoromethane	ND	7.3	ug/kg
1,1-Dichloroethane	ND	7.3	ug/kg
1,2-Dichloroethane	ND	7.3	ug/kg
1,1-Dichloroethene	ND	7.3	ug/kg
cis-1,2-Dichloroethene	ND	7.3	ug/kg
trans-1,2-Dichloroethene	ND	7.3	ug/kg
1,2-Dichloropropane	ND	7.3	ug/kg
cis-1,3-Dichloropropene	ND	7.3	ug/kg
trans-1,3-Dichloropropene	ND	7.3	ug/kg
Ethylbenzene	ND	7.3	ug/kg
Trichlorofluoromethane	ND	7.3	ug/kg
2-Hexanone	ND	29	ug/kg
Isopropylbenzene	ND	7.3	ug/kg
Methyl acetate	ND	15	ug/kg
Methylcyclohexane	ND	15	ug/kg
Methylene chloride	7.9 J (initial cal)	**7.3**	**ug/kg**
4-Methyl-2-pentanone	ND	29	ug/kg
Styrene	ND	7.3	ug/kg

$\frac{68}{100} \rightarrow \frac{1}{X} \times 20$

DF = 29

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Cardinal Resources

Client Sample ID: SED 1

GC/MS Volatiles

Lot-Sample #...: A0G230443-005 Work Order #...: L4K1V1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	7.3	ug/kg
Tetrachloroethene	ND	7.3	ug/kg
Toluene	ND	7.3	ug/kg
1,2,4-Trichloro-benzene	ND	7.3	ug/kg
1,1,1-Trichloroethane	ND	7.3	ug/kg
1,1,2-Trichloroethane	ND	7.3	ug/kg
Trichloroethene	ND	7.3	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.3	ug/kg
Vinyl chloride	ND	7.3	ug/kg
Xylenes (total)	ND	15	ug/kg
Methyl tert-butyl ether	ND	29	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(59 - 138)
1,2-Dichloroethane-d4	82	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	128	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Cardinal Resources

Client Sample ID: SW DUP

GC/MS Volatiles

Lot-Sample #...: A0G230443-006 Work Order #...: L4K2Q1AA Matrix.....: WG
Date Sampled...: 07/22/10 Date Received..: 07/23/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	~~3.6~~ J 10U	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

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BWQ 9/2/2010

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SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
1,2-Dichloroethane-d4	84	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: SW DUP

GC/MS Volatiles

Lot-Sample #...: A0G230443-006 Work Order #...: L4K2Q1AA Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: SED DUP (SED 1) BNG 9/2/2010

GC/MS Volatiles

Lot-Sample #...: A0G230443-007 Work Order #...: L4K2R1AA Matrix.....: SO
Date Sampled...: 07/22/10 Date Received..: 07/23/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1.06 Initial Wgt/Vol: 5 g Final Wgt/Vol..: 5 mL
% Moisture.....: 66 Method.....: SW846 8260B

moisture >50%

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	85 J	62	**ug/kg**
Benzene	ND	15	ug/kg
Bromodichloromethane	ND	15	ug/kg
Bromoform	ND	15	ug/kg
Bromomethane	ND	15	ug/kg
2-Butanone	ND	62	ug/kg
Carbon disulfide	ND	15	ug/kg
Carbon tetrachloride	ND	15	ug/kg
Chlorobenzene	ND	15	ug/kg
Dibromochloromethane	ND	15	ug/kg
1,2-Dibromo-3-chloropropane	ND	31	ug/kg
Chloroethane	ND	15	ug/kg
Chloroform	ND	15	ug/kg
Chloromethane	ND	15	ug/kg
Cyclohexane	ND	31	ug/kg
1,2-Dibromoethane	ND	15	ug/kg
1,2-Dichlorobenzene	ND	15	ug/kg
1,3-Dichlorobenzene	ND	15	ug/kg
1,4-Dichlorobenzene	ND	15	ug/kg
Dichlorodifluoromethane	ND	15	ug/kg
1,1-Dichloroethane	ND	15	ug/kg
1,2-Dichloroethane	ND	15	ug/kg
1,1-Dichloroethene	ND	15	ug/kg
cis-1,2-Dichloroethene	ND	15	ug/kg
trans-1,2-Dichloroethene	ND	15	ug/kg
1,2-Dichloropropane	ND	15	ug/kg
cis-1,3-Dichloropropene	ND	15	ug/kg
trans-1,3-Dichloropropene	ND	15	ug/kg
Ethylbenzene	ND	15	ug/kg
Trichlorofluoromethane	ND	15	ug/kg
2-Hexanone	ND	62	ug/kg
Isopropylbenzene	ND	15	ug/kg
Methyl acetate	ND	31	ug/kg
Methylcyclohexane	ND	31	ug/kg
Methylene chloride	ND	15	ug/kg
4-Methyl-2-pentanone	ND	62	ug/kg
Styrene	ND	15	ug/kg

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Cardinal Resources

Client Sample ID: SED DUP

GC/MS Volatiles

Lot-Sample #...: A0G230443-007 Work Order #...: L4K2R1AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	15	ug/kg
Tetrachloroethene	ND	15	ug/kg
Toluene	ND	15	ug/kg
1,2,4-Trichloro-benzene	ND	15	ug/kg
1,1,1-Trichloroethane	ND	15	ug/kg
1,1,2-Trichloroethane	ND	15	ug/kg
Trichloroethene	ND	15	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	15	ug/kg
Vinyl chloride	ND	15	ug/kg
Xylenes (total)	ND	31	ug/kg
Methyl tert-butyl ether	ND	62	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	100	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Cardinal Resources

Client Sample ID: OW18

GC/MS Volatiles

Lot-Sample #...: A0G230443-008 Work Order #...: L4K2T1AJ Matrix.....: WG
Date Sampled...: 07/22/10 13:00 Date Received..: 07/23/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	**0.41 J**	**2.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Acetone	**1.6 J** /04	**10**	**ug/L** Field Blank
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	**0.30 J**	**1.0**	**ug/L**
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**2.8**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**11**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.63 J**	**1.0**	**ug/L**

BLV 9/21/2010

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SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW18

GC/MS Volatiles

Lot-Sample #...: A0G230443-008 Work Order #...: L4K2T1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: SW2

GC/MS Volatiles

Lot-Sample #...:	A0G230443-009	**Work Order #...:**	L4K221AA	**Matrix.....:**	WG
Date Sampled...:	07/22/10 14:00	**Date Received..:**	07/23/10		
Prep Date.....:	08/01/10	**Analysis Date..:**	08/01/10		
Prep Batch #...:	0214227				
Dilution Factor:	1	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

Cardinal Resources

Client Sample ID: SED 2

GC/MS Volatiles

BNQ 9/21/2010

Lot-Sample #...: A0G230443-010 Work Order #...: L4K241AA Matrix.....: SO
Date Sampled...: 07/22/10 14:30 Date Received..: 07/23/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1.46 Initial Wgt/Vol: 5 g Final Wgt/Vol..: 5 mL
% Moisture.....: 55 Method.....: SW846 8260B

89 J -> moisture > 50%

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	89 J no qual BNQ	65	ug/kg
Benzene	ND	16	ug/kg
Bromodichloromethane	ND	16	ug/kg
Bromoform	ND	16	ug/kg
Bromomethane	ND	16	ug/kg
2-Butanone	ND	65	ug/kg
Carbon disulfide	ND	16	ug/kg
Carbon tetrachloride	ND	16	ug/kg
Chlorobenzene	ND UJ	16	ug/kg
Dibromochloromethane	ND	16	ug/kg
1,2-Dibromo-3-chloropropane	ND	32	ug/kg
Chloroethane	ND	16	ug/kg
Chloroform	ND	16	ug/kg
Chloromethane	ND	16	ug/kg
Cyclohexane	ND	32	ug/kg
1,2-Dibromoethane	ND	16	ug/kg
1,2-Dichlorobenzene	ND UJ	16	ug/kg
1,3-Dichlorobenzene	ND UJ	16	ug/kg
1,4-Dichlorobenzene	ND UJ	16	ug/kg
Dichlorodifluoromethane	ND	16	ug/kg
1,1-Dichloroethane	ND	16	ug/kg
1,2-Dichloroethane	ND	16	ug/kg
1,1-Dichloroethene	ND	16	ug/kg
cis-1,2-Dichloroethene	ND	16	ug/kg
trans-1,2-Dichloroethene	ND	16	ug/kg
1,2-Dichloropropane	ND UJ	16	ug/kg
cis-1,3-Dichloropropene	ND	16	ug/kg
trans-1,3-Dichloropropene	ND	16	ug/kg
Ethylbenzene	ND UJ	16	ug/kg
Trichlorofluoromethane	ND	16	ug/kg
2-Hexanone	ND	65	ug/kg
Isopropylbenzene	ND	16	ug/kg
Methyl acetate	ND	32	ug/kg
Methylcyclohexane	ND	32	ug/kg
Methylene chloride	18 J (initial cal)	16	ug/kg
4-Methyl-2-pentanone	ND UJ	65	ug/kg
Styrene	ND UJ	16	ug/kg

45/100 => 1/x x 20x

1.46 = 65

UJ values; low internal std. recovery: chlorobenzene

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(Continued on next page)

Cardinal Resources

Client Sample ID: SED 2

GC/MS Volatiles

Lot-Sample #...: A0G230443-010 Work Order #...: L4K241AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND UJ	16	ug/kg
Tetrachloroethene	ND UJ	16	ug/kg
Toluene	ND UJ	16	ug/kg
1,2,4-Trichloro-benzene	ND UJ	16	ug/kg
1,1,1-Trichloroethane	ND	16	ug/kg
1,1,2-Trichloroethane	ND	16	ug/kg
Trichloroethene	ND	16	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	16	ug/kg
Vinyl chloride	ND	16	ug/kg
Xylenes (total)	ND UJ	32	ug/kg
Methyl tert-butyl ether	ND	65	ug/kg

BHJ 9/21/2010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	111	(60 - 143)
4-Bromofluorobenzene	122	(47 - 158)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COPY

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Cardinal Resources

Client Sample ID: OW24

GC/MS Volatiles

Lot-Sample #...: A0G230443-011 Work Order #...: L4K291AJ Matrix.....: WG
Date Sampled...: 07/22/10 14:20 Date Received..: 07/23/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	**0.47 J**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW24

GC/MS Volatiles

Lot-Sample #...: A0G230443-011 Work Order #...: L4K291AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A0G230443-012	Work Order #...: L4K3C1AA	Matrix.....: WQ	
Date Sampled...: 07/22/10	Date Received..: 07/23/10		
Prep Date.....: 08/01/10	Analysis Date..: 08/01/10		
Prep Batch #...: 0214227			
Dilution Factor: 1	Initial Wgt/Vol: 5 mL	Final Wgt/Vol..: 5 mL	
	Method.....: SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
1,2-Dichloroethane-d4	84	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L4WK61AA **Matrix.....:** SOLID
MB Lot-Sample #: A0G300000-125

Prep Date.....: 07/29/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 07/29/10 **Prep Batch #...:** 0211125
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	10	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	10	ug/kg	SW846 8260B
Methylcyclohexane	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L4WK61AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	20	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	93	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L40X21AA Matrix.....: WATER
MB Lot-Sample #: A0H020000-227

Prep Date.....: 08/01/10 Final Wgt/Vol..: 5 mL
Analysis Date..: 08/01/10 Prep Batch #...: 0214227
Dilution Factor: 1 Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(73 - 122)
1,2-Dichloroethane-d4	81	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L40X21AA Matrix.....: WATER

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 **Work Order #...:** L416P1AA **Matrix.....:** WATER
MB Lot-Sample #: A0H030000-229

Prep Date.....: 08/02/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 08/02/10 **Prep Batch #...:** 0215229
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L416P1AA Matrix.....: WATER

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L4WK61AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A0G300000-125 L4WK61AD-LCSD
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	108	(75 - 129)			SW846 8260B
	108	(75 - 129)	0.25	(0-20)	SW846 8260B
Chlorobenzene	102	(75 - 127)			SW846 8260B
	102	(75 - 127)	0.23	(0-22)	SW846 8260B
1,1-Dichloroethene	110	(55 - 142)			SW846 8260B
	109	(55 - 142)	0.82	(0-27)	SW846 8260B
Toluene	102	(71 - 130)			SW846 8260B
	104	(71 - 130)	1.5	(0-24)	SW846 8260B
Trichloroethene	99	(70 - 131)			SW846 8260B
	98	(70 - 131)	1.2	(0-23)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
	84	(61 - 130)
Toluene-d8	96	(60 - 143)
	99	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	101	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L4WK61AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A0G300000-125 L4WK61AD-LCSD
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	50	54	ug/kg	108		SW846 8260B
	50	54	ug/kg	108	0.25	SW846 8260B
Chlorobenzene	50	51	ug/kg	102		SW846 8260B
	50	51	ug/kg	102	0.23	SW846 8260B
1,1-Dichloroethene	50	55	ug/kg	110		SW846 8260B
	50	55	ug/kg	109	0.82	SW846 8260B
Toluene	50	51	ug/kg	102		SW846 8260B
	50	52	ug/kg	104	1.5	SW846 8260B
Trichloroethene	50	50	ug/kg	99		SW846 8260B
	50	49	ug/kg	98	1.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	83	(61 - 130)
	84	(61 - 130)
Toluene-d8	96	(60 - 143)
	99	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)
	101	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L40X21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A0H020000-227 L40X21AD-LCSD
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	105	(63 - 130)			SW846 8260B
	100	(63 - 130)	5.4	(0-20)	SW846 8260B
Trichloroethene	103	(75 - 122)			SW846 8260B
	95	(75 - 122)	8.0	(0-20)	SW846 8260B
Benzene	98	(80 - 116)			SW846 8260B
	93	(80 - 116)	5.4	(0-20)	SW846 8260B
Toluene	100	(74 - 119)			SW846 8260B
	96	(74 - 119)	4.7	(0-20)	SW846 8260B
Chlorobenzene	98	(76 - 117)			SW846 8260B
	93	(76 - 117)	5.7	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
	87	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	85	(61 - 128)
Toluene-d8	88	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)
	92	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L40X21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A0H020000-227 L40X21AD-LCSD
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10	11	ug/L	105		SW846 8260B
	10	10	ug/L	100	5.4	SW846 8260B
Trichloroethene	10	10	ug/L	103		SW846 8260B
	10	9.5	ug/L	95	8.0	SW846 8260B
Benzene	10	9.8	ug/L	98		SW846 8260B
	10	9.3	ug/L	93	5.4	SW846 8260B
Toluene	10	10	ug/L	100		SW846 8260B
	10	9.6	ug/L	96	4.7	SW846 8260B
Chlorobenzene	10	9.8	ug/L	98		SW846 8260B
	10	9.3	ug/L	93	5.7	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(73 - 122)
	87	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	85	(61 - 128)
Toluene-d8	88	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)
	92	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L416P1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A0H030000-229 L416P1AD-LCSD
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215229
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	87	(63 - 130)			SW846 8260B
	87	(63 - 130)	0.74	(0-20)	SW846 8260B
Trichloroethene	101	(75 - 122)			SW846 8260B
	102	(75 - 122)	0.93	(0-20)	SW846 8260B
Benzene	97	(80 - 116)			SW846 8260B
	96	(80 - 116)	0.90	(0-20)	SW846 8260B
Toluene	94	(74 - 119)			SW846 8260B
	94	(74 - 119)	0.34	(0-20)	SW846 8260B
Chlorobenzene	94	(76 - 117)			SW846 8260B
	95	(76 - 117)	0.67	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	89	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	93	(61 - 128)
Toluene-d8	86	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L416P1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A0H030000-229 L416P1AD-LCSD
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215229
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10	8.7	ug/L	87		SW846 8260B
	10	8.7	ug/L	87	0.74	SW846 8260B
Trichloroethene	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	102	0.93	SW846 8260B
Benzene	10	9.7	ug/L	97		SW846 8260B
	10	9.6	ug/L	96	0.90	SW846 8260B
Toluene	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.34	SW846 8260B
Chlorobenzene	10	9.4	ug/L	94		SW846 8260B
	10	9.5	ug/L	95	0.67	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	89	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
	93	(61 - 128)
Toluene-d8	86	(76 - 110)
	87	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	A0G230443	Work Order #...:	L4K241AF-MS	Matrix.....:	SO
MS Lot-Sample #:	A0G230443-010		L4K241AG-MSD		
Date Sampled...:	07/22/10 14:30	Date Received..:	07/23/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211125				
Dilution Factor:	1.36	Initial Wgt/Vol:	5 g	Final Wgt/Vol..:	5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	106	(55 - 138)			SW846 8260B
	105	(55 - 138)	0.09	(0-20)	SW846 8260B
Chlorobenzene	89	(49 - 139)			SW846 8260B
	94	(49 - 139)	6.2	(0-22)	SW846 8260B
1,1-Dichloroethene	114	(43 - 147)			SW846 8260B
	108	(43 - 147)	4.6	(0-27)	SW846 8260B
Toluene	112	(46 - 147)			SW846 8260B
	115	(46 - 147)	4.0	(0-24)	SW846 8260B
Trichloroethene	92	(46 - 143)			SW846 8260B
	91	(46 - 143)	0.47	(0-23)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
	82	(61 - 130)
Toluene-d8	115	(60 - 143)
	114	(60 - 143)
4-Bromofluorobenzene	117	(47 - 158)
	138	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L4K241AF-MS Matrix.....: SO
MS Lot-Sample #: A0G230443-010 L4K241AG-MSD
Date Sampled...: 07/22/10 14:30 Date Received..: 07/23/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211125
Dilution Factor: 1.36 Initial Wgt/Vol: 5 g Final Wgt/Vol..: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	150	160	ug/kg	106		SW846 8260B
	ND	150	160	ug/kg	105	0.09	SW846 8260B
Chlorobenzene	ND	150	130	ug/kg	89		SW846 8260B
	ND	150	140	ug/kg	94	6.2	SW846 8260B
1,1-Dichloroethene	ND	150	170	ug/kg	114		SW846 8260B
	ND	150	160	ug/kg	108	4.6	SW846 8260B
Toluene	ND	150	170	ug/kg	112		SW846 8260B
	ND	150	180	ug/kg	115	4.0	SW846 8260B
Trichloroethene	ND	150	140	ug/kg	92		SW846 8260B
	ND	150	140	ug/kg	91	0.47	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
	82	(61 - 130)
Toluene-d8	115	(60 - 143)
	114	(60 - 143)
4-Bromofluorobenzene	117	(47 - 158)
	138	(47 - 158)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L4K221AC-MS Matrix.....: WG
MS Lot-Sample #: A0G230443-009 L4K221AD-MSD
Date Sampled...: 07/22/10 14:00 Date Received..: 07/23/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214227
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	100	(62 - 130)			SW846 8260B
	99	(62 - 130)	0.58	(0-20)	SW846 8260B
Trichloroethene	96	(62 - 130)			SW846 8260B
	97	(62 - 130)	1.6	(0-20)	SW846 8260B
Benzene	93	(78 - 118)			SW846 8260B
	93	(78 - 118)	0.30	(0-20)	SW846 8260B
Toluene	97	(70 - 119)			SW846 8260B
	94	(70 - 119)	2.6	(0-20)	SW846 8260B
Chlorobenzene	94	(76 - 117)			SW846 8260B
	92	(76 - 117)	1.5	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	85	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	88	(61 - 128)
Toluene-d8	89	(76 - 110)
	88	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	93	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	A0G230443	Work Order #...:	L4K221AC-MS	Matrix.....:	WG
MS Lot-Sample #:	A0G230443-009		L4K221AD-MSD		
Date Sampled...:	07/22/10 14:00	Date Received..:	07/23/10		
Prep Date.....:	08/01/10	Analysis Date..:	08/01/10		
Prep Batch #...:	0214227				
Dilution Factor:	1	Initial Wgt/Vol:	5 mL	Final Wgt/Vol..:	5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10	10	ug/L	100		SW846 8260B
	ND	10	9.9	ug/L	99	0.58	SW846 8260B
Trichloroethene	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	9.7	ug/L	97	1.6	SW846 8260B
Benzene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.3	ug/L	93	0.30	SW846 8260B
Toluene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.4	ug/L	94	2.6	SW846 8260B
Chlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.2	ug/L	92	1.5	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
	85	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	88	(61 - 128)
Toluene-d8	89	(76 - 110)
	88	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	93	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G230443 Work Order #...: L4KL11AU-MS Matrix.....: WATER
MS Lot-Sample #: A0G230409-010 L4KL11AV-MSD
Date Sampled...: 07/22/10 14:30 Date Received..: 07/23/10
Prep Date.....: 08/03/10 Analysis Date..: 08/03/10
Prep Batch #...: 0215229
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	94	(62 - 130)			SW846 8260B
	94	(62 - 130)	0.03	(0-20)	SW846 8260B
Trichloroethene	97	(62 - 130)			SW846 8260B
	96	(62 - 130)	0.46	(0-20)	SW846 8260B
Benzene	94	(78 - 118)			SW846 8260B
	93	(78 - 118)	0.57	(0-20)	SW846 8260B
Toluene	87	(70 - 119)			SW846 8260B
	89	(70 - 119)	3.2	(0-20)	SW846 8260B
Chlorobenzene	86	(76 - 117)			SW846 8260B
	89	(76 - 117)	2.7	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
	94	(61 - 128)
Toluene-d8	87	(76 - 110)
	88	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)
	97	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	A0G230443	Work Order #...:	L4KL11AU-MS	Matrix.....:	WATER
MS Lot-Sample #:	A0G230409-010		L4KL11AV-MSD		
Date Sampled...:	07/22/10 14:30	Date Received..:	07/23/10		
Prep Date.....:	08/03/10	Analysis Date..:	08/03/10		
Prep Batch #...:	0215229				
Dilution Factor:	1	Initial Wgt/Vol:	5 mL	Final Wgt/Vol..:	5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.4	ug/L	94	0.03	SW846 8260B
Trichloroethene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	9.6	ug/L	96	0.46	SW846 8260B
Benzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.3	ug/L	93	0.57	SW846 8260B
Toluene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.9	ug/L	89	3.2	SW846 8260B
Chlorobenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.9	ug/L	89	2.7	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
	94	(61 - 128)
Toluene-d8	87	(76 - 110)
	88	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)
	97	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DISSOLVED GASES/RSK DATA

Cardinal Resources

Client Sample ID: OW25

GC Volatiles

Lot-Sample #...:	A0G230443-002	Work Order #...:	L4K1A1AH	Matrix.....:	WG
Date Sampled...:	07/22/10 09:10	Date Received..:	07/23/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	ND	0.50	ug/L

Cardinal Resources

Client Sample ID: OW19

GC Volatiles

Lot-Sample #...:	A0G230443-004	Work Order #...:	L4K1R1AH	Matrix.....:	WG
Date Sampled...:	07/22/10 11:15	Date Received..:	07/23/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	2	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	0.56 J	1.0	ug/L
Ethene	ND	1.0	ug/L
Methane	1500	1.0	ug/L

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: OW18

GC Volatiles

Lot-Sample #...:	A0G230443-008	Work Order #...:	L4K2T1AH	Matrix.....:	WG
Date Sampled...:	07/22/10 13:00	Date Received..:	07/23/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/30/10		
Prep Batch #...:	0211043				
Dilution Factor:	2	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	1.0	ug/L
Ethene	ND	1.0	ug/L
Methane	**910**	**1.0**	**ug/L**

Cardinal Resources

Client Sample ID: OW24

GC Volatiles

Lot-Sample #...:	A0G230443-011	Work Order #...:	L4K291AH	Matrix.....:	WG
Date Sampled...:	07/22/10 14:20	Date Received..:	07/23/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	ND	0.50	ug/L

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0G230443
MB Lot-Sample #: A0G300000-043

Work Order #...: L4WE31AA
Prep Date.....: 07/29/10
Prep Batch #...: 0211043
Initial Wgt/Vol: 1 mL

Matrix.....: WATER
Final Wgt/Vol..: 1 mL

Analysis Date..: 07/29/10
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	0.50	ug/L	RSK SOP-175
Ethane	ND	0.50	ug/L	RSK SOP-175
Ethene	ND	0.50	ug/L	RSK SOP-175

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G230443 Work Order #...: L4WE31AC Matrix.....: WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Final Wgt/Vol..: 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methane	101	(75 - 127)	RSK SOP-175
Ethane	104	(74 - 138)	RSK SOP-175
Ethene	106	(73 - 140)	RSK SOP-175
Acetylene	93	(70 - 130)	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G230443 Work Order #...: L4WE31AC Matrix.....: WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Final Wgt/Vol..: 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methane	110	110	ug/L	101	RSK SOP-175
Ethane	200	210	ug/L	104	RSK SOP-175
Ethene	190	200	ug/L	106	RSK SOP-175
Acetylene	180	160	ug/L	93	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G230443 Work Order #...: L4JD31AX-MS Matrix.....: WATER
MS Lot-Sample #: A0G220446-005 L4JD31A0-MSD
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Initial Wgt/Vol: 1 mL Final Wgt/Vol..: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methane	91	(75 - 127)			RSK SOP-175
	91	(75 - 127)	0.19	(0-30)	RSK SOP-175
Ethane	92	(74 - 138)			RSK SOP-175
	92	(74 - 138)	0.37	(0-30)	RSK SOP-175
Ethene	94	(73 - 140)			RSK SOP-175
	94	(73 - 140)	0.16	(0-30)	RSK SOP-175
Acetylene	87	(70 - 130)			RSK SOP-175
	88	(70 - 130)	1.1	(0-30)	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G230443 Work Order #...: L4JD31AX-MS Matrix.....: WATER
MS Lot-Sample #: A0G220446-005 L4JD31A0-MSD
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Initial Wgt/Vol: 1 mL Final Wgt/Vol..: 1 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methane	0.82	110	100	ug/L	91		RSK SOP-175
	0.82	110	100	ug/L	91	0.19	RSK SOP-175
Ethane	ND	200	190	ug/L	92		RSK SOP-175
	ND	200	190	ug/L	92	0.37	RSK SOP-175
Ethene	ND	190	180	ug/L	94		RSK SOP-175
	ND	190	180	ug/L	94	0.16	RSK SOP-175
Acetylene	ND	180	150	ug/L	87		RSK SOP-175
	ND	180	160	ug/L	88	1.1	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

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GENERAL CHEMISTRY DATA

Cardinal Resources

Client Sample ID: OW25

General Chemistry

Lot-Sample #...: A0G230443-002 Work Order #...: L4K1A Matrix.....: WG
Date Sampled...: 07/22/10 09:10 Date Received..: 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	1.5	1.0	mg/L	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1				
Nitrate as N	1.8	0.10	mg/L	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1				
Sulfate	9.2	1.0	mg/L	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1				
Total Alkalinity	46	5.0	mg/L	MCAWW 310.1	08/03/10	0217057
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW19

General Chemistry

Lot-Sample #...: A0G230443-004 Work Order #...: L4K1R Matrix.....: WG
Date Sampled...: 07/22/10 11:15 Date Received..: 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	5.8	1.0	mg/L	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1				
Sulfate	15.9	1.0	mg/L	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1				
Total Alkalinity	180	5.0	mg/L	MCAWW 310.1	07/27/10	0208126
		Dilution Factor: 1				
Total Organic Carbon	6	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: SED 1

General Chemistry

Lot-Sample #...: A0G230443-005 Work Order #...: L4K1V Matrix.....: SO
Date Sampled...: 07/22/10 11:20 Date Received..: 07/23/10
% Moisture.....: 32

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	67.6	10.0	%	MCAWW 160.3 MOD	08/02-08/03/10	0214278

Dilution Factor: 1

Cardinal Resources

Client Sample ID: SED DUP

General Chemistry

Lot-Sample #...: A0G230443-007 Work Order #...: L4K2R Matrix.....: SO
Date Sampled...: 07/22/10 Date Received..: 07/23/10
% Moisture.....: 66

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	34.3	10.0	%	MCAWW 160.3 MOD	08/02-08/03/10	0214278

Dilution Factor: 1

Cardinal Resources

Client Sample ID: OW18

General Chemistry

Lot-Sample #...: A0G230443-008 Work Order #...: L4K2T Matrix.....: WG
Date Sampled...: 07/22/10 13:00 Date Received..: 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	7.9	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0207272
Nitrate as N	ND	0.10 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0207275
Sulfate	3.5	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0207279
Total Alkalinity	320	5.0 Dilution Factor: 1	mg/L	MCAWW 310.1	07/28/10	0210221
Total Organic Carbon	10	1 Dilution Factor: 1	mg/L	MCAWW 415.1	07/26/10	0207249
Total Sulfide	ND	1.0 Dilution Factor: 1	mg/L	MCAWW 376.1	07/28/10	0209262

Cardinal Resources

Client Sample ID: SED 2

General Chemistry

Lot-Sample #...: A0G230443-010 Work Order #...: L4K24 Matrix.....: SO
Date Sampled...: 07/22/10 14:30 Date Received..: 07/23/10
% Moisture.....: 55

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	45.2	10.0	%	MCAWW 160.3 MOD	08/02-08/03/10	0214278

Dilution Factor: 1

Cardinal Resources

Client Sample ID: OW24

General Chemistry

Lot-Sample #...: A0G230443-011 Work Order #...: L4K29 Matrix.....: WG
Date Sampled...: 07/22/10 14:20 Date Received..: 07/23/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	1.8	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0207272
Nitrate as N	0.21	0.10 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0207275
Sulfate	12.6	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0207279
Total Alkalinity	110	5.0 Dilution Factor: 1	mg/L	MCAWW 310.1	07/28/10	0210221
Total Organic Carbon	ND	1 Dilution Factor: 1	mg/L	MCAWW 415.1	07/26/10	0207249
Total Sulfide	ND	1.0 Dilution Factor: 1	mg/L	MCAWW 376.1	07/28/10	0209262

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: L4NR61AA		MB Lot-Sample #:	A0G260000-271	
	ND	1.0	mg/L	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1				
Chloride		Work Order #: L4NTC1AA		MB Lot-Sample #:	A0G260000-272	
	ND	1.0	mg/L	MCAWW 300.0A	07/23/10	0207272
		Dilution Factor: 1				
Nitrate as N		Work Order #: L4NTL1AA		MB Lot-Sample #:	A0G260000-275	
	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1				
Sulfate		Work Order #: L4NTR1AA		MB Lot-Sample #:	A0G260000-279	
	ND	1.0	mg/L	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4PKP1AA		MB Lot-Sample #:	A0G270000-126	
	ND	5.0	mg/L	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4VD91AA		MB Lot-Sample #:	A0G290000-221	
	ND	5.0	mg/L	MCAWW 310.1	07/28/10	0210221
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L445J1AA		MB Lot-Sample #:	A0H050000-057	
	ND	5.0	mg/L	MCAWW 310.1	08/03/10	0217057
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: L4NMC1AA		MB Lot-Sample #:	A0G260000-249	
	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide		Work Order #: L4R1C1AA		MB Lot-Sample #:	A0G280000-262	
	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: L40441AA		MB Lot-Sample #:	A0H020000-278	
	ND	10.0	%	MCAWW 160.3 MOD	08/02-08/03/10	0214278
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A0G230443 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4NR61AC-LCS/L4NR61AD-LCSD LCS Lot-Sample#: A0G260000-271					
	105	(90 - 110)			MCAWW 300.0A	07/23/10	0207271
	105	(90 - 110)	0.01	(0-20)	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1					
Chloride		WO#:L4NTC1AC-LCS/L4NTC1AD-LCSD LCS Lot-Sample#: A0G260000-272					
	106	(90 - 110)			MCAWW 300.0A	07/23/10	0207272
	106	(90 - 110)	0.03	(0-20)	MCAWW 300.0A	07/23/10	0207272
		Dilution Factor: 1					
Nitrate as N		WO#:L4NTL1AC-LCS/L4NTL1AD-LCSD LCS Lot-Sample#: A0G260000-275					
	97	(90 - 110)			MCAWW 300.0A	07/23/10	0207275
	97	(90 - 110)	0.74	(0-20)	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1					
Sulfate		WO#:L4NTR1AC-LCS/L4NTR1AD-LCSD LCS Lot-Sample#: A0G260000-279					
	100	(90 - 110)			MCAWW 300.0A	07/23/10	0207279
	101	(90 - 110)	0.83	(0-20)	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: A0G230443 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4NR61AC-LCS/L4NR61AD-LCSD					LCS Lot-Sample#: A0G260000-271	
	50.0	52.5	mg/L	105		MCAWW 300.0A	07/23/10	0207271
	50.0	52.5	mg/L	105	0.01	MCAWW 300.0A	07/23/10	0207271
		Dilution Factor: 1						
Chloride		WO#:L4NTC1AC-LCS/L4NTC1AD-LCSD					LCS Lot-Sample#: A0G260000-272	
	50.0	53.0	mg/L	106		MCAWW 300.0A	07/23/10	0207272
	50.0	53.0	mg/L	106	0.03	MCAWW 300.0A	07/23/10	0207272
		Dilution Factor: 1						
Nitrate as N		WO#:L4NTL1AC-LCS/L4NTL1AD-LCSD					LCS Lot-Sample#: A0G260000-275	
	2.5	2.4	mg/L	97		MCAWW 300.0A	07/23/10	0207275
	2.5	2.4	mg/L	97	0.74	MCAWW 300.0A	07/23/10	0207275
		Dilution Factor: 1						
Sulfate		WO#:L4NTR1AC-LCS/L4NTR1AD-LCSD					LCS Lot-Sample#: A0G260000-279	
	50.0	50.1	mg/L	100		MCAWW 300.0A	07/23/10	0207279
	50.0	50.5	mg/L	101	0.83	MCAWW 300.0A	07/23/10	0207279
		Dilution Factor: 1						

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4PKP1AC	LCS Lot-Sample#: A0G270000-126		
	108	(90 - 127)	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1			
Total Alkalinity		Work Order #: L4VD91AC	LCS Lot-Sample#: A0G290000-221		
	99	(90 - 127)	MCAWW 310.1	07/28/10	0210221
		Dilution Factor: 1			
Total Alkalinity		Work Order #: L445J1AC	LCS Lot-Sample#: A0H050000-057		
	98	(90 - 127)	MCAWW 310.1	08/03/10	0217057
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: L4NMC1AC	LCS Lot-Sample#: A0G260000-249		
	93	(88 - 115)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1			
Total Sulfide		Work Order #: L4R1C1AC	LCS Lot-Sample#: A0G280000-262		
	101	(79 - 104)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			Work Order #: L4PKP1AC LCS Lot-Sample#: A0G270000-126				
	110	120	mg/L	108	MCAWW 310.1	07/26/10	0208126
			Dilution Factor: 1				
Total Alkalinity			Work Order #: L4VD91AC LCS Lot-Sample#: A0G290000-221				
	110	110	mg/L	99	MCAWW 310.1	07/28/10	0210221
			Dilution Factor: 1				
Total Alkalinity			Work Order #: L445J1AC LCS Lot-Sample#: A0H050000-057				
	110	110	mg/L	98	MCAWW 310.1	08/03/10	0217057
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: L4NMC1AC LCS Lot-Sample#: A0G260000-249				
	69	65	mg/L	93	MCAWW 415.1	07/26/10	0207249
			Dilution Factor: 1				
Total Sulfide			Work Order #: L4R1C1AC LCS Lot-Sample#: A0G280000-262				
	15	15	mg/L	101	MCAWW 376.1	07/28/10	0209262
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: WATER
Date Sampled...: 07/21/10 11:00 Date Received..: 07/27/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #: A0G220446-005	
	84	(10 - 160)			MCAWW 310.1	07/27/10	0208126
	83	(10 - 160)	0.68	(0-24)	MCAWW 310.1	07/27/10	0208126
		Dilution Factor: 1					
Total Alkalinity		WO#: L4QJM1AM-MS/L4QJM1AN-MSD				MS Lot-Sample #: A0G270492-006	
	82	(10 - 160)			MCAWW 310.1	07/28/10	0210221
	87	(10 - 160)	3.2	(0-24)	MCAWW 310.1	07/28/10	0210221
		Dilution Factor: 1					
Total Organic Carbon		WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #: A0G220446-005	
	96	(72 - 136)			MCAWW 415.1	07/26/10	0207249
	102	(72 - 136)	5.5	(0-20)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1					
Total Sulfide		WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #: A0G220446-005	
	96	(75 - 107)			MCAWW 376.1	07/28/10	0209262
	94	(75 - 107)	2.3	(0-20)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: WATER
Date Sampled...: 07/21/10 11:00 Date Received..: 07/27/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #: A0G220446-005		
	100	500	520	mg/L	84		MCAWW 310.1	07/27/10	0208126
	100	500	520	mg/L	83	0.68	MCAWW 310.1	07/27/10	0208126
			Dilution Factor: 1						
Total Alkalinity			WO#: L4QJM1AM-MS/L4QJM1AN-MSD				MS Lot-Sample #: A0G270492-006		
	320	500	730	mg/L	82		MCAWW 310.1	07/28/10	0210221
	320	500	750	mg/L	87	3.2	MCAWW 310.1	07/28/10	0210221
			Dilution Factor: 1						
Total Organic Carbon			WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #: A0G220446-005		
	1	25	25	mg/L	96		MCAWW 415.1	07/26/10	0207249
	1	25	26	mg/L	102	5.5	MCAWW 415.1	07/26/10	0207249
			Dilution Factor: 1						
Total Sulfide			WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #: A0G220446-005		
	ND	15	15	mg/L	96		MCAWW 376.1	07/28/10	0209262
	ND	15	14	mg/L	94	2.3	MCAWW 376.1	07/28/10	0209262
			Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: WG
Date Sampled...: 07/22/10 09:10 Date Received..: 07/23/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#: L4K1A1AK-MS/L4K1A1AL-MSD				MS Lot-Sample #: A0G230443-002	
	99	(10 - 160)			MCAWW 310.1	08/03/10	0217057
	97	(10 - 160)	1.6	(0-24)	MCAWW 310.1	08/03/10	0217057

Dilution Factor: 1

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G230443 Matrix.....: WG
Date Sampled...: 07/22/10 09:10 Date Received..: 07/23/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			WO#: L4K1A1AK-MS/L4K1A1AL-MSD				MS Lot-Sample #: A0G230443-002		
	46	500	540	mg/L	99		MCAWW 310.1	08/03/10	0217057
	46	500	530	mg/L	97	1.6	MCAWW 310.1	08/03/10	0217057

Dilution Factor: 1

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 Work Order #...: L4K24-SMP L4K24-DUP Matrix.....: SO

Date Sampled...: 07/22/10 14:30 Date Received..: 07/23/10

% Moisture.....: 55

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0G230443-010		
	45.2	39.4	%	14	(0-20)	MCAWW 160.3 MOD	08/02-08/03/10	0214278

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G230443 Work Order #...: L4LXL-SMP Matrix.....: SOLID
L4LXL-DUP
Date Sampled...: 07/22/10 10:00 Date Received..: 07/23/10
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0G230545-005		
	82.9	80.6	%	2.8	(0-20)	MCAWW 160.3 MOD	08/02-08/03/10	0214278

Dilution Factor: 1

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END OF REPORT

TestAmerica

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ANALYTICAL REPORT

PROJECT NO. 104-0012-0200

CARROLL+DUBIES (C+D)

Lot #: A0G220446

Barbara Jones

Cardinal Resources
1505 E Carson Street
Suite #200
Pittsburgh, PA 15203

TESTAMERICA LABORATORIES, INC.

Denise D Heckler

Approved for release.
Denise D. Heckler
Project Manager
8/12/2010 4:05 PM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

August 12, 2010

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0G220446

The following report contains the analytical results for eight water samples and one quality control sample submitted to TestAmerica North Canton by Cardinal Resources from the Carroll +Dubies (C+D) Site, project number 104-0012-0200. The samples were received July 22, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Barbara Jones, John Vogeding, and Steve Bodnar on August 05, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit with the exception of Dissolved Gases in Water and Volatile Organics by GC/MS which were evaluated to the method detection limit and include appropriate qualifiers.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 1.5 and 2.3°C.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

DISSOLVED GASES/RSK

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GENERAL CHEMISTRY

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 0204174 and 0204187 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0G220446

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
OW13R 07/21/10 09:10 002				
Ethane	0.46 J	0.50	ug/L	RSK SOP-175
Methane	670	0.50	ug/L	RSK SOP-175
Vinyl chloride	1.2 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.70 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.35 J	1.0	ug/L	SW846 8260B
Benzene	17	1.0	ug/L	SW846 8260B
Chloride	2.8	1.0	mg/L	MCAWW 300.0A
Sulfate	25.1	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	340	5.0	mg/L	MCAWW 310.1
DUP1 07/21/10 003				
Ethane	0.54	0.50	ug/L	RSK SOP-175
Methane	720	0.50	ug/L	RSK SOP-175
Vinyl chloride	1.2 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.78 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.35 J	1.0	ug/L	SW846 8260B
Benzene	17	1.0	ug/L	SW846 8260B
Chloride	2.8	1.0	mg/L	MCAWW 300.0A
Sulfate	25.2	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	330	5.0	mg/L	MCAWW 310.1
PUMP RINSE 07/21/10 09:45 004				
Acetone	1.5 J	10	ug/L	SW846 8260B
OW5 07/21/10 10:50 005				
Methane	0.82	0.50	ug/L	RSK SOP-175
1,2-Dichloroethene (total)	4.8	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
Benzene	0.37 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.2	1.0	ug/L	SW846 8260B
Chloride	7.6	1.0	mg/L	MCAWW 300.0A
Sulfate	54.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.92	0.10	mg/L	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0G220446

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
OW5 07/21/10 10:50 005				
Total Organic Carbon	1	1	mg/L	MCAWW 415.1
Total Alkalinity	100	5.0	mg/L	MCAWW 310.1
OW6 07/21/10 11:55 006				
Chloromethane	0.31 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	20	1.0	ug/L	SW846 8260B
Trichloroethene	8.6	1.0	ug/L	SW846 8260B
Tetrachloroethene	42	1.0	ug/L	SW846 8260B
Chloride	1.2	1.0	mg/L	MCAWW 300.0A
Sulfate	24.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.21	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	35	5.0	mg/L	MCAWW 310.1
OW2 07/21/10 13:00 007				
Methane	0.14 J	0.50	ug/L	RSK SOP-175
Acetone	1.4 J	10	ug/L	SW846 8260B
1,2-Dichloroethene (total)	39	1.0	ug/L	SW846 8260B
Trichloroethene	12	1.0	ug/L	SW846 8260B
Tetrachloroethene	77	1.0	ug/L	SW846 8260B
Chloride	2.0	1.0	mg/L	MCAWW 300.0A
Sulfate	15.6	1.0	mg/L	MCAWW 300.0A
Nitrate as N	4.7	0.10	mg/L	MCAWW 300.0A
Total Alkalinity	34	5.0	mg/L	MCAWW 310.1
MW1 07/21/10 14:10 008				
Methane	0.18 J	0.50	ug/L	RSK SOP-175
Chloride	3.2	1.0	mg/L	MCAWW 300.0A
Sulfate	10.8	1.0	mg/L	MCAWW 300.0A
Nitrate as N	0.69	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon	1	1	mg/L	MCAWW 415.1
Total Alkalinity	110	5.0	mg/L	MCAWW 310.1

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0G220446

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0A
Dissolved Gases in Water	RSK SOP-175
Nitrate as N	MCAWW 300.0A
Sulfate	MCAWW 300.0A
Sulfide	MCAWW 376.1
Total Organic Carbon	MCAWW 415.1
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0G220446

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4JDD	001	FIELD BLANK 2	07/21/10	09:00
L4JDK	002	OW13R	07/21/10	09:10
L4JD0	003	DUP1	07/21/10	
L4JD1	004	PUMP RINSE	07/21/10	09:45
L4JD3	005	OW5	07/21/10	10:50
L4JEC	006	OW6	07/21/10	11:55
L4JED	007	OW2	07/21/10	13:00
L4JEG	008	MW1	07/21/10	14:10
L4JEJ	009	TRIP BLANK	07/21/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica

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SHIPPING AND RECEIVING DOCUMENTS

(2) Coolers

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Cardinal Resources, LLC	Client Project Manager: Barb Jones	Site Contact: John Vogeding	Lab Contact: Nathan Pietras	COC No:
Address: 1505 E Carson St.	Telephone:	Telephone: 412-374-0989	Telephone:	1 of 1 COCs
City/State/Zip: Pittsburgh, PA 15203	Email: BJones@Cardinalres.com	Analysis Turnaround Time (in BUS days)	Analyses	Field Filtered Sample (Y/N)
Phone: 412 374-0989		TAT if different from below ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Perform MS/MSD (Y/N)
Project Name: Carroll + Dubois (CTD)	Method of Shipment/Carrier: Fed Ex			Compositing - Grab (G)
Project Number: 104-0012-0200	Shipping/Tracking No:			
PO#				

Sample Identification	2010 Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Field Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Compositing - Grab (G)	TCL VOCs	Methane/Ethane/Ethene	Sulfate	Sulfide	Alkalinity	Chloride	Nitrate (N)	TOC	Sample Specific Notes / Special Instructions:
Field Blank 2	7-21	0900		X						X					N			X								
OW13R		0910		X				X		X		X	X		N			X	X	X	X	X	X	X	X	
Dup 1		—		X				X		X		X	X		N			X	X	X	X	X	X	X	X	
Pump Rinse		0945		X						X		[redacted]			N			X								
OW5		1050		X				X		X		X	X		N			X	X	X	X	X	X	X	X	
OW5 MS		1100		X				X		X		X	X		N											
OW5 MSD		1110		X				X		X		X	X		N											
OW6		1155		X				X		X		X	X		N											
OW2		1300		X				X		X		X	X		N											
MW1		1410		X				X		X		X	X		N											

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: Trip Blank — Lab Prepared — X

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Vogeding	Cardinal Res.	7-21-10 1600			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	7/22/10 915

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TAL-0018 (1008)

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240220446
North Canton Facility

Client Cardinal Resources Project _____ By: _____
Cooler Received on 7-22-10 Opened on 7-22-10 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☐
   If YES, Quantity_____ Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s)_____ were received after the recommended holding time had expired.
Sample(s)_____ were received in a broken container.
Sample(s)_____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 051010-HNO_3; *Sulfuric Acid Lot#* 121709-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
OW13R	~~8~~ 9	7/22/10	CSL
DUP1	>9		
OW15	>9 >9 >9		
OW16	>9		
OW2	>9		
OW1	>9		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
Client	2.2	IR	Ice
CN33	1.5	I	I

Discrepancies Cont'd:

TestAmerica

GCMS VOLATILE DATA

Cardinal Resources

COPY

Client Sample ID: FIELD BLANK 2

GC/MS Volatiles

Lot-Sample #...: A0G220446-001 Work Order #...: L4JDD1AA Matrix.....: WQ
Date Sampled...: 07/21/10 09:00 Date Received..: 07/22/10
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	~~ND~~ UJ continuing cal.	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	~~ND~~ UJ c.c.	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	~~ND~~ UJ c.c.	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	~~ND~~ UJ c.c.	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ UJ c.c.	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	~~ND~~ UJ c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

BNQ 8/26/10

Cardinal Resources

Client Sample ID: OW13R

COPY

GC/MS Volatiles

Lot-Sample #...: A0G220446-002 Work Order #...: L4JDK1AJ Matrix.....: WG
Date Sampled...: 07/21/10 09:10 Date Received..: 07/22/10
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	~~ND~~ UJ (continuing cal.)	2.0	ug/L
Vinyl chloride	**1.2 J**	**2.0**	**ug/L**
Chloroethane	~~ND~~ UJ c.c.	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	~~ND~~ UJ c.c.	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.70 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	~~ND~~ UJ c.c.	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.35 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**17**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ UJ c.c.	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	~~ND~~ UJ c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

BNQ 8/26/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW13R

GC/MS Volatiles

Lot-Sample #...: A0G220446-002 Work Order #...: L4JDK1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: DUP1

GC/MS Volatiles

COPY

Lot-Sample #...: A0G220446-003 Work Order #...: L4JD01AJ Matrix.....: WG
Date Sampled...: 07/21/10 Date Received..: 07/22/10
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	~~ND~~ UJ continuing cal.	2.0	ug/L
Vinyl chloride	**1.2 J**	**2.0**	**ug/L**
Chloroethane	~~ND~~ UJ c.c.	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	~~ND~~ UJ c.c.	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.78 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	~~ND~~ UJ c.c.	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.35 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**17**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ UJ c.c.	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	~~ND~~ UJ c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

BNQ 8/26/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	101	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: DUP1

GC/MS Volatiles

Lot-Sample #...: A0G220446-003 Work Order #...: L4JD01AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: PUMP RINSE

GC/MS Volatiles

Lot-Sample #...: A0G220446-004	Work Order #...: L4JD11AA	Matrix.....: WG	
Date Sampled...: 07/21/10 09:45	Date Received..: 07/22/10		
Prep Date.....: 08/02/10	Analysis Date..: 08/02/10		
Prep Batch #...: 0215323			
Dilution Factor: 1	Initial Wgt/Vol: 5 mL	Final Wgt/Vol..: 5 mL	
	Method.....: SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.5 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: PUMP RINSE

GC/MS Volatiles

Lot-Sample #...: A0G220446-004 Work Order #...: L4JD11AA Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

COPY

Cardinal Resources

Client Sample ID: OW5

GC/MS Volatiles

Lot-Sample #...: A0G220446-005 Work Order #...: L4JD31A1 Matrix.....: WG
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	~~ND~~ UJ	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	~~ND~~ UJ c.c.	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	~~ND~~ UJ c.c.	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**4.8**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	~~ND~~ UJ c.c.	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**1.6**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.37 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ UJ c.c.	10	ug/L
Tetrachloroethene	**4.2**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	~~ND~~ UJ c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	99	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

BNQ 8/26/10

Cardinal Resources

Client Sample ID: OW5

GC/MS Volatiles

Lot-Sample #...: A0G220446-005 Work Order #...: L4JD31A1 Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

COPY

Cardinal Resources

Client Sample ID: OW6

GC/MS Volatiles

Lot-Sample #...: A0G220446-006 Work Order #...: L4JEC1AJ Matrix.....: WG
Date Sampled...: 07/21/10 11:55 Date Received..: 07/22/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	**0.31 J**	**2.0**	**ug/L**
Bromomethane	~~ND~~ UJ	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	~~ND~~ UJ	2.0	ug/L
Methylene chloride	~~ND~~	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**20**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	~~ND~~ UJ c.c.	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**8.6**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ UJ c.c.	10	ug/L
Tetrachloroethene	**42**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	~~ND~~ UJ c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

from continuing cal.

BNQ 8/26/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

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Cardinal Resources

Client Sample ID: OW6

GC/MS Volatiles

Lot-Sample #...: A0G220446-006 Work Order #...: L4JEC1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: OW2

GC/MS Volatiles

COPY

Lot-Sample #...: A0G220446-007 Work Order #...: L4JED1AJ Matrix.....: WG
Date Sampled...: 07/21/10 13:00 Date Received..: 07/22/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	~~ND~~ UJ continuing cal.	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	~~ND~~ UJ	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**39**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	~~ND~~ UJ c.c.	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**12**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ UJ c.c.	10	ug/L
Tetrachloroethene	**77**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	~~ND~~ UJ c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

Qualify as 10U per rinsate blank

BNQ 8/26/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW2

GC/MS Volatiles

Lot-Sample #...: A0G220446-007 Work Order #...: L4JED1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: MW1

COPY

GC/MS Volatiles

Lot-Sample #...: A0G220446-008 Work Order #...: L4JEG1AJ Matrix.....: WG
Date Sampled...: 07/21/10 14:10 Date Received..: 07/22/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	~~ND~~ UJ	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	~~ND~~ UJ	2.0	ug/L
Methylene chloride	~~ND~~	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	~~ND~~ UJ c.c.	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ UJ c.c.	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	~~ND~~ UJ c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

continuing cal!

BNQ 8/26/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

Cardinal Resources

Client Sample ID: TRIP BLANK

COPY

GC/MS Volatiles

Lot-Sample #...: A0G220446-009
Date Sampled...: 07/21/10
Prep Date.....: 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1

Work Order #...: L4JEJ1AA
Date Received..: 07/22/10
Analysis Date..: 08/01/10

Initial Wgt/Vol: 5 mL
Method.....: SW846 8260B

Matrix.....: WQ

Final Wgt/Vol..: 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	~~ND~~ U.J. c.c.	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	~~ND~~ U.J. c.c.	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	99	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L41D91AA Matrix.....: WATER
MB Lot-Sample #: A0H020000-377

Prep Date.....: 08/01/10 Final Wgt/Vol..: 5 mL
Analysis Date..: 08/01/10 Prep Batch #...: 0214377
Dilution Factor: 1 Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	**1.5**	**1.0**	**ug/L**	**SW846 8260B**
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L41D91AA Matrix.....: WATER

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446
MB Lot-Sample #: A0H030000-323

Work Order #...: L42H81AA

Matrix.....: WATER

Prep Date.....: 08/02/10
Prep Batch #...: 0215323
Initial Wgt/Vol: 5 mL

Final Wgt/Vol..: 5 mL

Analysis Date..: 08/02/10
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	102	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L42H81AA Matrix.....: WATER

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L41D91AC Matrix.....: WATER
LCS Lot-Sample#: A0H020000-377
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	86	(63 - 130)	SW846 8260B
Trichloroethene	115	(75 - 122)	SW846 8260B
Benzene	103	(80 - 116)	SW846 8260B
Toluene	104	(74 - 119)	SW846 8260B
Chlorobenzene	102	(76 - 117)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	103	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L41D91AC Matrix.....: WATER
LCS Lot-Sample#: A0H020000-377
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	20	17	ug/L	86	SW846 8260B
Trichloroethene	20	23	ug/L	115	SW846 8260B
Benzene	20	21	ug/L	103	SW846 8260B
Toluene	20	21	ug/L	104	SW846 8260B
Chlorobenzene	20	20	ug/L	102	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	103	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L42H81AC Matrix.....: WATER
LCS Lot-Sample#: A0H030000-323
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	92	(63 - 130)	SW846 8260B
Trichloroethene	117	(75 - 122)	SW846 8260B
Benzene	107	(80 - 116)	SW846 8260B
Toluene	109	(74 - 119)	SW846 8260B
Chlorobenzene	107	(76 - 117)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	105	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L42H81AC Matrix.....: WATER
LCS Lot-Sample#: A0H030000-323
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Final Wgt/Vol..: 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	20	18	ug/L	92	SW846 8260B
Trichloroethene	20	23	ug/L	117	SW846 8260B
Benzene	20	21	ug/L	107	SW846 8260B
Toluene	20	22	ug/L	109	SW846 8260B
Chlorobenzene	20	21	ug/L	107	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	105	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	A0G220446	Work Order #...:	L4K991CJ-MS	Matrix.....:	WATER
MS Lot-Sample #:	A0G230474-009		L4K991CK-MSD		
Date Sampled...:	07/22/10 13:20	Date Received..:	07/23/10		
Prep Date.....:	08/01/10	Analysis Date..:	08/01/10		
Prep Batch #...:	0214377				
Dilution Factor:	3.33	Initial Wgt/Vol:	5 mL	Final Wgt/Vol..:	5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	89	(62 - 130)			SW846 8260B
	87	(62 - 130)	0.95	(0-20)	SW846 8260B
Trichloroethene	110	(62 - 130)			SW846 8260B
	111	(62 - 130)	0.61	(0-20)	SW846 8260B
Benzene	101	(78 - 118)			SW846 8260B
	101	(78 - 118)	0.16	(0-20)	SW846 8260B
Toluene	101	(70 - 119)			SW846 8260B
	103	(70 - 119)	2.2	(0-20)	SW846 8260B
Chlorobenzene	97	(76 - 117)			SW846 8260B
	101	(76 - 117)	3.3	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(73 - 122)
	111	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	94	(61 - 128)
Toluene-d8	103	(76 - 110)
	104	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)
	94	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L4K991CJ-MS Matrix.....: WATER
MS Lot-Sample #: A0G230474-009 L4K991CK-MSD
Date Sampled...: 07/22/10 13:20 Date Received..: 07/23/10
Prep Date.....: 08/01/10 Analysis Date..: 08/01/10
Prep Batch #...: 0214377
Dilution Factor: 3.33 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	50	67	110	ug/L	89		SW846 8260B
	50	67	110	ug/L	87	0.95	SW846 8260B
Trichloroethene	ND	67	73	ug/L	110		SW846 8260B
	ND	67	74	ug/L	111	0.61	SW846 8260B
Benzene	ND	67	67	ug/L	101		SW846 8260B
	ND	67	67	ug/L	101	0.16	SW846 8260B
Toluene	ND	67	67	ug/L	101		SW846 8260B
	ND	67	69	ug/L	103	2.2	SW846 8260B
Chlorobenzene	ND	67	65	ug/L	97		SW846 8260B
	ND	67	67	ug/L	101	3.3	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(73 - 122)
	111	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
	94	(61 - 128)
Toluene-d8	103	(76 - 110)
	104	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)
	94	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L4JD31A2-MS Matrix.....: WG
MS Lot-Sample #: A0G220446-005 L4JD31A3-MSD
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	88	(62 - 130)			SW846 8260B
	87	(62 - 130)	0.97	(0-20)	SW846 8260B
Trichloroethene	117	(62 - 130)			SW846 8260B
	117	(62 - 130)	0.06	(0-20)	SW846 8260B
Benzene	106	(78 - 118)			SW846 8260B
	106	(78 - 118)	0.42	(0-20)	SW846 8260B
Toluene	108	(70 - 119)			SW846 8260B
	105	(70 - 119)	3.0	(0-20)	SW846 8260B
Chlorobenzene	106	(76 - 117)			SW846 8260B
	105	(76 - 117)	1.5	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
	110	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
	93	(61 - 128)
Toluene-d8	106	(76 - 110)
	103	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	94	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G220446 Work Order #...: L4JD31A2-MS Matrix.....: WG
MS Lot-Sample #: A0G220446-005 L4JD31A3-MSD
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10
Prep Date.....: 08/02/10 Analysis Date..: 08/02/10
Prep Batch #...: 0215323
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	20	18	ug/L	88		SW846 8260B
	ND	20	17	ug/L	87	0.97	SW846 8260B
Trichloroethene	1.6	20	25	ug/L	117		SW846 8260B
	1.6	20	25	ug/L	117	0.06	SW846 8260B
Benzene	0.37	20	21	ug/L	106		SW846 8260B
	0.37	20	22	ug/L	106	0.42	SW846 8260B
Toluene	ND	20	22	ug/L	108		SW846 8260B
	ND	20	21	ug/L	105	3.0	SW846 8260B
Chlorobenzene	ND	20	21	ug/L	106		SW846 8260B
	ND	20	21	ug/L	105	1.5	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
	110	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
	93	(61 - 128)
Toluene-d8	106	(76 - 110)
	103	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	94	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DISSOLVED GASES/RSK DATA

Cardinal Resources

Client Sample ID: OW13R

GC Volatiles

Lot-Sample #...:	A0G220446-002	Work Order #...:	L4JDK1AH	Matrix.....:	WG
Date Sampled...:	07/21/10 09:10	Date Received..:	07/22/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	0.46 J	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	670	0.50	ug/L

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: DUP1

GC Volatiles

Lot-Sample #...:	A0G220446-003	Work Order #...:	L4JD01AH	Matrix.....:	WG
Date Sampled...:	07/21/10	Date Received..:	07/22/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	0.54	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	720	0.50	ug/L

Cardinal Resources

Client Sample ID: OW5

GC Volatiles

Lot-Sample #...:	A0G220446-005	Work Order #...:	L4JD31AW	Matrix.....:	WG
Date Sampled...:	07/21/10 10:50	Date Received..:	07/22/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	0.82	0.50	ug/L

Cardinal Resources

Client Sample ID: OW6

GC Volatiles

Lot-Sample #...:	A0G220446-006	Work Order #...:	L4JEC1AH	Matrix.....:	WG
Date Sampled...:	07/21/10 11:55	Date Received..:	07/22/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	ND	0.50	ug/L

Cardinal Resources

Client Sample ID: OW2

GC Volatiles

Lot-Sample #...:	A0G220446-007	Work Order #...:	L4JED1AH	Matrix.....:	WG
Date Sampled...:	07/21/10 13:00	Date Received..:	07/22/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	0.14 J	0.50	ug/L

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: MW1

GC Volatiles

Lot-Sample #...:	A0G220446-008	Work Order #...:	L4JEG1AH	Matrix.....:	WG
Date Sampled...:	07/21/10 14:10	Date Received..:	07/22/10		
Prep Date.....:	07/29/10	Analysis Date..:	07/29/10		
Prep Batch #...:	0211043				
Dilution Factor:	1	Initial Wgt/Vol:	1 mL	Final Wgt/Vol..:	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	0.18 J	0.50	ug/L

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0G220446 Work Order #...: L4WE31AA Matrix.....: WATER
MB Lot-Sample #: A0G300000-043

Prep Date.....: 07/29/10 Final Wgt/Vol..: 1 mL
Analysis Date..: 07/29/10 Prep Batch #...: 0211043
Dilution Factor: 1 Initial Wgt/Vol: 1 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethene	ND	0.50	ug/L	RSK SOP-175
Methane	ND	0.50	ug/L	RSK SOP-175
Ethane	ND	0.50	ug/L	RSK SOP-175

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G220446 Work Order #...: L4WE31AC Matrix.....: WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Final Wgt/Vol..: 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methane	101	(75 - 127)	RSK SOP-175
Ethane	104	(74 - 138)	RSK SOP-175
Ethene	106	(73 - 140)	RSK SOP-175
Acetylene	93	(70 - 130)	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G220446 Work Order #...: L4WE31AC Matrix.....: WATER
LCS Lot-Sample#: A0G300000-043
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Final Wgt/Vol..: 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methane	110	110	ug/L	101	RSK SOP-175
Ethane	200	210	ug/L	104	RSK SOP-175
Ethene	190	200	ug/L	106	RSK SOP-175
Acetylene	180	160	ug/L	93	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G220446 Work Order #...: L4JD31AX-MS Matrix.....: WG
MS Lot-Sample #: A0G220446-005 L4JD31A0-MSD
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Initial Wgt/Vol: 1 mL Final Wgt/Vol..: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methane	91	(75 - 127)			RSK SOP-175
	91	(75 - 127)	0.19	(0-30)	RSK SOP-175
Ethane	92	(74 - 138)			RSK SOP-175
	92	(74 - 138)	0.37	(0-30)	RSK SOP-175
Ethene	94	(73 - 140)			RSK SOP-175
	94	(73 - 140)	0.16	(0-30)	RSK SOP-175
Acetylene	87	(70 - 130)			RSK SOP-175
	88	(70 - 130)	1.1	(0-30)	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G220446 Work Order #...: L4JD31AX-MS Matrix.....: WG
MS Lot-Sample #: A0G220446-005 L4JD31A0-MSD
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0211043
Dilution Factor: 1 Initial Wgt/Vol: 1 mL Final Wgt/Vol..: 1 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methane	0.82	110	100	ug/L	91		RSK SOP-175
	0.82	110	100	ug/L	91	0.19	RSK SOP-175
Ethane	ND	200	190	ug/L	92		RSK SOP-175
	ND	200	190	ug/L	92	0.37	RSK SOP-175
Ethene	ND	190	180	ug/L	94		RSK SOP-175
	ND	190	180	ug/L	94	0.16	RSK SOP-175
Acetylene	ND	180	150	ug/L	87		RSK SOP-175
	ND	180	160	ug/L	88	1.1	RSK SOP-175

NOTE(S):

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

Bold print denotes control parameters

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GENERAL CHEMISTRY DATA

Cardinal Resources

Client Sample ID: OW13R

General Chemistry

Lot-Sample #...: A0G220446-002 Work Order #...: L4JDK Matrix.....: WG
Date Sampled...: 07/21/10 09:10 Date Received..: 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	2.8	1.0	mg/L	MCAWW 300.0A	07/23/10	0204174
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/23/10	0204177
		Dilution Factor: 1				
Sulfate	25.1	1.0	mg/L	MCAWW 300.0A	07/23/10	0204187
		Dilution Factor: 1				
Total Alkalinity	340	5.0	mg/L	MCAWW 310.1	07/27/10	0208126
		Dilution Factor: 1				
Total Organic Carbon	3	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: DUP1

General Chemistry

Lot-Sample #...: A0G220446-003 Work Order #...: L4JD0 Matrix.....: WG
Date Sampled...: 07/21/10 Date Received..: 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	2.8	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204174
Nitrate as N	ND	0.10 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204177
Sulfate	25.2	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204187
Total Alkalinity	330	5.0 Dilution Factor: 1	mg/L	MCAWW 310.1	07/27/10	0208126
Total Organic Carbon	3	1 Dilution Factor: 1	mg/L	MCAWW 415.1	07/26/10	0207249
Total Sulfide	ND	1.0 Dilution Factor: 1	mg/L	MCAWW 376.1	07/28/10	0209262

Cardinal Resources

Client Sample ID: OW5

General Chemistry

Lot-Sample #...: A0G220446-005 Work Order #...: L4JD3 Matrix.....: WG
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	7.6	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204174
Nitrate as N	0.92	0.10 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204177
Sulfate	54.6	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204187
Total Alkalinity	100	5.0 Dilution Factor: 1	mg/L	MCAWW 310.1	07/27/10	0208126
Total Organic Carbon	1	1 Dilution Factor: 1	mg/L	MCAWW 415.1	07/26/10	0207249
Total Sulfide	ND	1.0 Dilution Factor: 1	mg/L	MCAWW 376.1	07/28/10	0209262

Cardinal Resources

Client Sample ID: OW6

General Chemistry

Lot-Sample #...: A0G220446-006 Work Order #...: L4JEC Matrix.....: WG
Date Sampled...: 07/21/10 11:55 Date Received..: 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	1.2	1.0	mg/L	MCAWW 300.0A	07/23/10	0204174
		Dilution Factor: 1				
Nitrate as N	0.21	0.10	mg/L	MCAWW 300.0A	07/23/10	0204177
		Dilution Factor: 1				
Sulfate	24.6	1.0	mg/L	MCAWW 300.0A	07/23/10	0204187
		Dilution Factor: 1				
Total Alkalinity	35	5.0	mg/L	MCAWW 310.1	07/27/10	0208126
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW2

General Chemistry

Lot-Sample #...: A0G220446-007 Work Order #...: L4JED Matrix.....: WG
Date Sampled...: 07/21/10 13:00 Date Received..: 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	2.0	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204174
Nitrate as N	4.7	0.10 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204177
Sulfate	15.6	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204188
Total Alkalinity	34	5.0 Dilution Factor: 1	mg/L	MCAWW 310.1	07/27/10	0208126
Total Organic Carbon	ND	1 Dilution Factor: 1	mg/L	MCAWW 415.1	07/26/10	0207249
Total Sulfide	ND	1.0 Dilution Factor: 1	mg/L	MCAWW 376.1	07/28/10	0209262

Cardinal Resources

Client Sample ID: MW1

General Chemistry

Lot-Sample #...: A0G220446-008 Work Order #...: L4JEG Matrix.....: WG
Date Sampled...: 07/21/10 14:10 Date Received..: 07/22/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	3.2	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204174
Nitrate as N	0.69	0.10 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204177
Sulfate	10.8	1.0 Dilution Factor: 1	mg/L	MCAWW 300.0A	07/23/10	0204188
Total Alkalinity	110	5.0 Dilution Factor: 1	mg/L	MCAWW 310.1	07/27/10	0208126
Total Organic Carbon	1	1 Dilution Factor: 1	mg/L	MCAWW 415.1	07/26/10	0207249
Total Sulfide	ND	1.0 Dilution Factor: 1	mg/L	MCAWW 376.1	07/28/10	0209262

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: L4LDJ1AA		MB Lot-Sample #:	A0G230000-174	
	ND	1.0	mg/L	MCAWW 300.0A	07/22/10	0204174
		Dilution Factor: 1				
Nitrate as N		Work Order #: L4LD01AA		MB Lot-Sample #:	A0G230000-177	
	ND	0.10	mg/L	MCAWW 300.0A	07/22/10	0204177
		Dilution Factor: 1				
Sulfate		Work Order #: L4LM61AA		MB Lot-Sample #:	A0G230000-187	
	ND	1.0	mg/L	MCAWW 300.0A	07/22/10	0204187
		Dilution Factor: 1				
Sulfate		Work Order #: L4LM21AA		MB Lot-Sample #:	A0G230000-188	
	ND	1.0	mg/L	MCAWW 300.0A	07/22/10	0204188
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4PKP1AA		MB Lot-Sample #:	A0G270000-126	
	ND	5.0	mg/L	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: L4NMC1AA		MB Lot-Sample #:	A0G260000-249	
	ND	1	mg/L	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1				
Total Sulfide		Work Order #: L4R1C1AA		MB Lot-Sample #:	A0G280000-262	
	ND	1.0	mg/L	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A0G220446 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4LDJ1AC-LCS/L4LDJ1AD-LCSD LCS Lot-Sample#: A0G230000-174					
	104	(90 - 110)			MCAWW 300.0A	07/22/10	0204174
	103	(90 - 110)	0.67	(0-20)	MCAWW 300.0A	07/22/10	0204174
		Dilution Factor: 1					
Nitrate as N		WO#:L4LD01AC-LCS/L4LD01AD-LCSD LCS Lot-Sample#: A0G230000-177					
	101	(90 - 110)			MCAWW 300.0A	07/22/10	0204177
	100	(90 - 110)	0.19	(0-20)	MCAWW 300.0A	07/22/10	0204177
		Dilution Factor: 1					
Sulfate		WO#:L4LM21AC-LCS/L4LM21AD-LCSD LCS Lot-Sample#: A0G230000-188					
	97	(90 - 110)			MCAWW 300.0A	07/23/10	0204188
	97	(90 - 110)	0.39	(0-20)	MCAWW 300.0A	07/23/10	0204188
		Dilution Factor: 1					
Sulfate		WO#:L4LM61AC-LCS/L4LM61AD-LCSD LCS Lot-Sample#: A0G230000-187					
	97	(90 - 110)			MCAWW 300.0A	07/22/10	0204187
	97	(90 - 110)	0.72	(0-20)	MCAWW 300.0A	07/22/10	0204187
		Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: A0G220446 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#:L4LDJ1AC-LCS/L4LDJ1AD-LCSD				LCS Lot-Sample#: A0G230000-174	
	50.0	51.8	mg/L	104		MCAWW 300.0A	07/22/10	0204174
	50.0	51.5	mg/L	103	0.67	MCAWW 300.0A	07/22/10	0204174
			Dilution Factor: 1					
Nitrate as N			WO#:L4LD01AC-LCS/L4LD01AD-LCSD				LCS Lot-Sample#: A0G230000-177	
	2.5	2.5	mg/L	101		MCAWW 300.0A	07/22/10	0204177
	2.5	2.5	mg/L	100	0.19	MCAWW 300.0A	07/22/10	0204177
			Dilution Factor: 1					
Sulfate			WO#:L4LM21AC-LCS/L4LM21AD-LCSD				LCS Lot-Sample#: A0G230000-188	
	50.0	48.5	mg/L	97		MCAWW 300.0A	07/23/10	0204188
	50.0	48.3	mg/L	97	0.39	MCAWW 300.0A	07/23/10	0204188
			Dilution Factor: 1					
Sulfate			WO#:L4LM61AC-LCS/L4LM61AD-LCSD				LCS Lot-Sample#: A0G230000-187	
	50.0	48.3	mg/L	97		MCAWW 300.0A	07/22/10	0204187
	50.0	48.7	mg/L	97	0.72	MCAWW 300.0A	07/22/10	0204187
			Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4PKP1AC	LCS Lot-Sample#: A0G270000-126		
	108	(90 - 127)	MCAWW 310.1	07/26/10	0208126
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: L4NMC1AC	LCS Lot-Sample#: A0G260000-249		
	93	(88 - 115)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1			
Total Sulfide		Work Order #: L4R1C1AC	LCS Lot-Sample#: A0G280000-262		
	101	(79 - 104)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			Work Order #: L4PKP1AC LCS Lot-Sample#: A0G270000-126				
	110	120	mg/L	108	MCAWW 310.1	07/26/10	0208126
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: L4NMC1AC LCS Lot-Sample#: A0G260000-249				
	69	65	mg/L	93	MCAWW 415.1	07/26/10	0207249
			Dilution Factor: 1				
Total Sulfide			Work Order #: L4R1C1AC LCS Lot-Sample#: A0G280000-262				
	15	15	mg/L	101	MCAWW 376.1	07/28/10	0209262
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WATER
Date Sampled...: 07/12/10 10:35 Date Received..: 07/14/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: L356W1DJ-MS/L356W1DK-MSD				MS Lot-Sample #: A0G140466-001	
	NC,MSB	(80 - 120)			MCAWW 300.0A	07/23/10	0204174
	NC,MSB	(80 - 120)		(0-20)	MCAWW 300.0A	07/23/10	0204174
		Dilution Factor: 10					
Sulfate		WO#: L356W1DM-MS/L356W1DN-MSD				MS Lot-Sample #: A0G140466-001	
	NC,MSB	(80 - 120)			MCAWW 300.0A	07/23/10	0204187
	NC,MSB	(80 - 120)		(0-20)	MCAWW 300.0A	07/23/10	0204187
		Dilution Factor: 10					

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WATER
Date Sampled...: 07/12/10 10:35 Date Received..: 07/14/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#: L356W1DJ-MS/L356W1DK-MSD MS Lot-Sample #: A0G140466-001						
	413	50.0	452	mg/L			MCAWW 300.0A	07/23/10	0204174
			Qualifiers: NC,MSB						
	413	50.0	434	mg/L			MCAWW 300.0A	07/23/10	0204174
			Qualifiers: NC,MSB						
			Dilution Factor: 10						
Sulfate			WO#: L356W1DM-MS/L356W1DN-MSD MS Lot-Sample #: A0G140466-001						
	343	50.0	380	mg/L			MCAWW 300.0A	07/23/10	0204187
			Qualifiers: NC,MSB						
	343	50.0	369	mg/L			MCAWW 300.0A	07/23/10	0204187
			Qualifiers: NC,MSB						
			Dilution Factor: 10						

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WATER
Date Sampled...: 07/20/10 10:55 Date Received..: 07/21/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N		Work Order #...: L4G301AL		MS Lot-Sample #: A0G210517-004	
	98	(80 - 120)	MCAWW 300.0A	07/22/10	0204177
		Dilution Factor: 1			

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WATER
Date Sampled...: 07/20/10 10:55 Date Received..: 07/21/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N			Work Order #...: L4G301AL			MS Lot-Sample #: A0G210517-004		
	ND	2.5	2.5	mg/L	98	MCAWW 300.0A	07/22/10	0204177
			Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WG
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#: L4JD31AU-MS/L4JD31AV-MSD				MS Lot-Sample #:	A0G220446-005
	114	(80 - 120)			MCAWW 300.0A	07/23/10	0204174
	114	(80 - 120)	0.24	(0-20)	MCAWW 300.0A	07/23/10	0204174
		Dilution Factor: 1					
Nitrate as N		WO#: L4JD31AM-MS/L4JD31AN-MSD				MS Lot-Sample #:	A0G220446-005
	103	(80 - 120)			MCAWW 300.0A	07/23/10	0204177
	104	(80 - 120)	0.60	(0-20)	MCAWW 300.0A	07/23/10	0204177
		Dilution Factor: 1					
Sulfate		WO#: L4JD31AQ-MS/L4JD31AR-MSD				MS Lot-Sample #:	A0G220446-005
	116	(80 - 120)			MCAWW 300.0A	07/23/10	0204187
	116	(80 - 120)	0.0	(0-20)	MCAWW 300.0A	07/23/10	0204187
		Dilution Factor: 1					
Total Alkalinity		WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #:	A0G220446-005
	84	(10 - 160)			MCAWW 310.1	07/27/10	0208126
	83	(10 - 160)	0.68	(0-24)	MCAWW 310.1	07/27/10	0208126
		Dilution Factor: 1					
Total Organic Carbon		WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #:	A0G220446-005
	96	(72 - 136)			MCAWW 415.1	07/26/10	0207249
	102	(72 - 136)	5.5	(0-20)	MCAWW 415.1	07/26/10	0207249
		Dilution Factor: 1					
Total Sulfide		WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #:	A0G220446-005
	96	(75 - 107)			MCAWW 376.1	07/28/10	0209262
	94	(75 - 107)	2.3	(0-20)	MCAWW 376.1	07/28/10	0209262
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G220446 Matrix.....: WG
Date Sampled...: 07/21/10 10:50 Date Received..: 07/22/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#: L4JD31AU-MS/L4JD31AV-MSD				MS Lot-Sample #: A0G220446-005		
	7.6	50.0	64.4	mg/L	114		MCAWW 300.0A	07/23/10	0204174
	7.6	50.0	64.5	mg/L	114	0.24	MCAWW 300.0A	07/23/10	0204174
			Dilution Factor: 1						
Nitrate as N			WO#: L4JD31AM-MS/L4JD31AN-MSD				MS Lot-Sample #: A0G220446-005		
	0.92	2.5	3.5	mg/L	103		MCAWW 300.0A	07/23/10	0204177
	0.92	2.5	3.5	mg/L	104	0.60	MCAWW 300.0A	07/23/10	0204177
			Dilution Factor: 1						
Sulfate			WO#: L4JD31AQ-MS/L4JD31AR-MSD				MS Lot-Sample #: A0G220446-005		
	54.6	50.0	112	mg/L	116		MCAWW 300.0A	07/23/10	0204187
	54.6	50.0	112	mg/L	116	0.0	MCAWW 300.0A	07/23/10	0204187
			Dilution Factor: 1						
Total Alkalinity			WO#: L4JD31AC-MS/L4JD31AD-MSD				MS Lot-Sample #: A0G220446-005		
	100	500	520	mg/L	84		MCAWW 310.1	07/27/10	0208126
	100	500	520	mg/L	83	0.68	MCAWW 310.1	07/27/10	0208126
			Dilution Factor: 1						
Total Organic Carbon			WO#: L4JD31AF-MS/L4JD31AG-MSD				MS Lot-Sample #: A0G220446-005		
	1	25	25	mg/L	96		MCAWW 415.1	07/26/10	0207249
	1	25	26	mg/L	102	5.5	MCAWW 415.1	07/26/10	0207249
			Dilution Factor: 1						
Total Sulfide			WO#: L4JD31AJ-MS/L4JD31AK-MSD				MS Lot-Sample #: A0G220446-005		
	ND	15	15	mg/L	96		MCAWW 376.1	07/28/10	0209262
	ND	15	14	mg/L	94	2.3	MCAWW 376.1	07/28/10	0209262
			Dilution Factor: 1						

NOTE(S):

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 104-0012-0200

CAROLL & DUBIES (C&D)

Lot #: A0G210469

Barbara Jones

Cardinal Resources
1505 E Carson Street
Suite #200
Pittsburgh, PA 15203

TESTAMERICA LABORATORIES, INC.

Approved for release.
Denise D. Heckler
Project Manager
8/11/2010 3:10 PM

Denise D. Heckler
Project Manager
denise.heckler@testamericainc.com

August 11, 2010

ACCREDITED IN ACCORDANCE WITH nelac

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

A0G210469

The following report contains the analytical results for six water samples and one quality control sample submitted to TestAmerica North Canton by Cardinal Resources from the CAROLL & DUBIES (C&D) Site, project number 104-0012-0200. The samples were received July 21, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Barbara Jones and Steve Bodnar on August 02, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the reporting limit with the exception of Dissolved Gases in Water and Volatile Organics by GC/MS which were evaluated to the method detection limit and include appropriate qualifiers.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.3°C.

See TestAmerica's Cooler Receipt Form for additional information.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

DISSOLVED GASES/RSK

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

TestAmerica
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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0G210469

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
OW-22 07/20/10 09:45 001				
Methane	2700	2.5	ug/L	RSK SOP-175
Vinyl chloride	0.26 J	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.38 J	1.0	ug/L	SW846 8260B
Benzene	2.5	1.0	ug/L	SW846 8260B
Chlorobenzene	4.5	1.0	ug/L	SW846 8260B
Xylenes (total)	0.64 J	1.0	ug/L	SW846 8260B
Chloride	7.4	1.0	mg/L	MCAWW 300.0A
Sulfate	11.7	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	4	1	mg/L	MCAWW 415.1
Total Alkalinity	220	5.0	mg/L	MCAWW 310.1
OW-21 07/20/10 11:05 002				
Methane	290	0.50	ug/L	RSK SOP-175
Vinyl chloride	0.71 J	2.0	ug/L	SW846 8260B
Benzene	1.9	1.0	ug/L	SW846 8260B
Sulfate	23.6	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	260	5.0	mg/L	MCAWW 310.1
OW-10R 07/20/10 12:20 003				
Methane	2300	2.5	ug/L	RSK SOP-175
Vinyl chloride	0.66 J	2.0	ug/L	SW846 8260B
Chloroethane	0.87 J	2.0	ug/L	SW846 8260B
Acetone	1.9 J	10	ug/L	SW846 8260B
1,2-Dichloroethene (total)	0.39 J	1.0	ug/L	SW846 8260B
Benzene	4.6	1.0	ug/L	SW846 8260B
Chlorobenzene	0.88 J	1.0	ug/L	SW846 8260B
Sulfate	36.2	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	3	1	mg/L	MCAWW 415.1
Total Alkalinity	250	5.0	mg/L	MCAWW 310.1
MW4 07/20/10 13:45 004				
Methane	280	0.50	ug/L	RSK SOP-175
Acetone	3.4 J	10	ug/L	SW846 8260B
Benzene	2.0	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0G210469

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW4 07/20/10 13:45 004				
Chloride	67.2	1.0	mg/L	MCAWW 300.0A
Sulfate	67.0	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	2	1	mg/L	MCAWW 415.1
Total Alkalinity	110	5.0	mg/L	MCAWW 310.1
OW8 07/20/10 15:00 005				
Methane	2.5	0.50	ug/L	RSK SOP-175
Acetone	1.9 J	10	ug/L	SW846 8260B
Chloride	2.3	1.0	mg/L	MCAWW 300.0A
Sulfate	12.3	1.0	mg/L	MCAWW 300.0A
Total Alkalinity	53	5.0	mg/L	MCAWW 310.1
FIELD BLANK 1 07/20/10 14:45 006				
Acetone	2.0 J	10	ug/L	SW846 8260B
TRIP BLANK 07/20/10 007				
Acetone	1.8 J	10	ug/L	SW846 8260B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0G210469

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1 Titrimetric
Chloride	MCAWW 300.0A
Dissolved Gases in Water	RSK SOP-175
Nitrate as N	MCAWW 300.0A Ion chromatography
Sulfate	MCAWW 300.0A
Sulfide	MCAWW 376.1 Titrimetric
Total Organic Carbon	MCAWW 415.1 Combustion/ox
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

SAMPLE SUMMARY

A0G210469

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4GJG	001	OW-22	07/20/10	09:45
L4GJT	002	OW-21	07/20/10	11:05
L4GJV	003	OW-10R	07/20/10	12:20
L4GJ0	004	MW4	07/20/10	13:45
L4GJ1	005	OW8	07/20/10	15:00
L4GJ2	006	FIELD BLANK 1	07/20/10	14:45
L4GJ4	007	TRIP BLANK	07/20/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica
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SHIPPING AND RECEIVING DOCUMENTS

Chain of Custody Record

TestAmerica 15
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Cardinal Resources, LLC	Client Project Manager: Barb Jones	Site Contact: John Vogeding	Lab Contact: Nathan Pietras	COC No:
Address: 1505 E. Carson St.	Telephone:	Telephone: 412 374 0989	Telephone:	1 of 1 COCs
City/State/Zip: Pittsburgh, PA 15203	Email: BJones@Cardinalres.com			
Phone: 412-374-0989		TAT if different from below _____ ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: Carroll + Dubies (CTO)	Method of Shipment/Carrier: Fed Ex			
Project Number: 104-0012-0200	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Preservation: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered	Analyses: TCL VOCs	Methane/Ethane/Ethene	Sulfide	Sulfate	Alkalinity	Chloride	Nitrate (N)	TOC	Sample Specific Notes / Special Instructions:
OW-22	7-20	0945		X				X		X		X	X			X	X	X	X	X	X	X	X	
OW 21	↓	1105		X				↓		↓		↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	
OW 10 R		1220		X																				
MW4		1345		X																				
OW 8	↓	1500		X				↓		↓		↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	
Field Blank 1	↓	1445		X						X						X								
Trip Blank	Lab	Prepared		X						X						X								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Vogeding	Cardinal Resources	7-20-10 / 1600			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAN C	7/21/10 9:20

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TAL-0018 (1008)

North Canton

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A06210469

Client Cardinal Resource Project _____ By: _____ (Signature)
Cooler Received on 7/21/10 Opened on 7/21/10
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # C122 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity _____ Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other _____
6. Cooler temperature upon receipt 1.3 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐ NA ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☒ No ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☐ No ☒ NA ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Received 6x40ml. vials Sulfuric Preserved for VOC + MEE on Samples aw-22 + aw-21. No Hydrochloric Volume received.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 051010-HNO_3; Sulfuric Acid Lot# 121709-H_2SO_4; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
aw-22	7|2	7/21/10	
aw-21	7|2		
aw-10R	7|2		
MW-4	7|2		
aw-8	7|2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

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GCMS VOLATILE DATA

Cardinal Resources

Client Sample ID: OW-22

GC/MS Volatiles

Lot-Sample #...:	A0G210469-001	**Work Order #...:**	L4GJG1AJ	**Matrix.....:**	WG
Date Sampled...:	07/20/10 09:45	**Date Received..:**	07/21/10		
Prep Date.....:	07/30/10	**Analysis Date..:**	07/30/10		
Prep Batch #...:	0214130				
Dilution Factor:	1	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.26 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.38 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**2.5**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**4.5**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.64 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW-22

GC/MS Volatiles

Lot-Sample #...: A0G210469-001 Work Order #...: L4GJG1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: OW-21

GC/MS Volatiles

Lot-Sample #...:	A0G210469-002	**Work Order #...:**	L4GJT1AJ	**Matrix.....:**	WG
Date Sampled...:	07/20/10 11:05	**Date Received..:**	07/21/10		
Prep Date.....:	07/30/10	**Analysis Date..:**	07/30/10		
Prep Batch #...:	0214130				
Dilution Factor:	1	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.71 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**1.9**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW-21

GC/MS Volatiles

Lot-Sample #...: A0G210469-002 Work Order #...: L4GJT1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: OW-10R

GC/MS Volatiles

Lot-Sample #...: A0G210469-003 Work Order #...: L4GJV1AJ Matrix.....: WG
Date Sampled...: 07/20/10 12:20 Date Received..: 07/21/10
Prep Date.....: 07/30/10 Analysis Date..: 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.66 J**	**2.0**	**ug/L**
Chloroethane	**0.87 J**	**2.0**	**ug/L**
Methylene chloride	ND	1.0	ug/L
Acetone	**(1.9 J) 10U**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.39 J**	**1.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**4.6**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	**0.88 J**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

1.9 < 10 ug/L & 10X Associated Trip & Field Blanks

XC 08/30/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW-10R

GC/MS Volatiles

Lot-Sample #...: A0G210469-003 Work Order #...: L4GJV1AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: MW4

GC/MS Volatiles

Lot-Sample #...: A0G210469-004 Work Order #...: L4GJ01AJ Matrix.....: WG
Date Sampled...: 07/20/10 13:45 Date Received..: 07/21/10
Prep Date.....: 07/30/10 Analysis Date..: 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	(3.4 J) 10U	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**2.0**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

< 10 ug/L
3.4 & 10X
Trip & Blank values
XC 08/30/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

(Continued on next page)

25
(sum) 86

Cardinal Resources

Client Sample ID: MW4

GC/MS Volatiles

Lot-Sample #...: A0G210469-004 Work Order #...: L4GJ01AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: OW8

GC/MS Volatiles

Lot-Sample #...: A0G210469-005 Work Order #...: L4GJ11AJ Matrix.....: WG
Date Sampled...: 07/20/10 15:00 Date Received..: 07/21/10
Prep Date.....: 07/30/10 Analysis Date..: 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	(1.9 J) 10U	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

1.9 < 10 ug/L 10X Trip & Field Blank values

XC. 8/30/10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: OW8

GC/MS Volatiles

Lot-Sample #...: A0G210469-005 Work Order #...: L4GJ11AJ Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: FIELD BLANK 1

GC/MS Volatiles

Lot-Sample #...: A0G210469-006 **Work Order #...:** L4GJ21AA **Matrix.....:** WQ
Date Sampled...: 07/20/10 14:45 **Date Received..:** 07/21/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.0 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: FIELD BLANK 1

GC/MS Volatiles

Lot-Sample #...: A0G210469-006 Work Order #...: L4GJ21AA Matrix.....: WQ

NOTE(S):

J Estimated result. Result is less than RL.

Cardinal Resources

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A0G210469-007	**Work Order #...:** L4GJ41AA	**Matrix.....:** WQ	
Date Sampled...: 07/20/10	**Date Received..:** 07/21/10		
Prep Date.....: 07/30/10	**Analysis Date..:** 07/30/10		
Prep Batch #...: 0214130			
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL	
	Method.....: SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.8 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

(Continued on next page)

Cardinal Resources

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A0G210469-007 Work Order #...: L4GJ41AA Matrix.....: WQ

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L40QN1AA **Matrix.....:** WATER
MB Lot-Sample #: A0H020000-130

Prep Date.....: 07/30/10 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 07/30/10 **Prep Batch #...:** 0214130
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 Work Order #...: L40QN1AA Matrix.....: WATER

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L40QN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-130 L40QN1AD-LCSD
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**98**	**(63 - 130)**			**SW846 8260B**
	100	**(63 - 130)**	**1.6**	**(0-20)**	**SW846 8260B**
Trichloroethene	**101**	**(75 - 122)**			**SW846 8260B**
	99	**(75 - 122)**	**1.7**	**(0-20)**	**SW846 8260B**
Benzene	**96**	**(80 - 116)**			**SW846 8260B**
	95	**(80 - 116)**	**0.91**	**(0-20)**	**SW846 8260B**
Toluene	**102**	**(74 - 119)**			**SW846 8260B**
	102	**(74 - 119)**	**0.74**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**98**	**(76 - 117)**			**SW846 8260B**
	99	**(76 - 117)**	**0.61**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	87	(61 - 128)
Toluene-d8	93	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	99	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L40QN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0H020000-130 L40QN1AD-LCSD
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 1 **Final Wgt/Vol..:** 5 mL
Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10**	**9.8**	**ug/L**	**98**		**SW846 8260B**
	10	**10**	**ug/L**	**100**	**1.6**	**SW846 8260B**
Trichloroethene	**10**	**10**	**ug/L**	**101**		**SW846 8260B**
	10	**9.9**	**ug/L**	**99**	**1.7**	**SW846 8260B**
Benzene	**10**	**9.6**	**ug/L**	**96**		**SW846 8260B**
	10	**9.5**	**ug/L**	**95**	**0.91**	**SW846 8260B**
Toluene	**10**	**10**	**ug/L**	**102**		**SW846 8260B**
	10	**10**	**ug/L**	**102**	**0.74**	**SW846 8260B**
Chlorobenzene	**10**	**9.8**	**ug/L**	**98**		**SW846 8260B**
	10	**9.9**	**ug/L**	**99**	**0.61**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	87	(61 - 128)
Toluene-d8	93	(76 - 110)
	93	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	99	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L4CFE1AN-MS **Matrix.....:** WATER
MS Lot-Sample #: A0G170422-001 L4CFE1AP-MSD
Date Sampled...: 07/16/10 10:00 **Date Received..:** 07/17/10
Prep Date.....: 07/30/10 **Analysis Date..:** 07/30/10
Prep Batch #...: 0214130
Dilution Factor: 16.67 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	92	(62 - 130)			SW846 8260B
	101	(62 - 130)	8.7	(0-20)	SW846 8260B
Trichloroethene	77	(62 - 130)			SW846 8260B
	91	(62 - 130)	3.3	(0-20)	SW846 8260B
Benzene	93	(78 - 118)			SW846 8260B
	96	(78 - 118)	3.2	(0-20)	SW846 8260B
Toluene	97	(70 - 119)			SW846 8260B
	100	(70 - 119)	3.2	(0-20)	SW846 8260B
Chlorobenzene	96	(76 - 117)			SW846 8260B
	100	(76 - 117)	3.8	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	90	(61 - 128)
Toluene-d8	88	(76 - 110)
	90	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)
	97	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	A0G210469	**Work Order #...:**	L4CFE1AN-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	A0G170422-001		L4CFE1AP-MSD		
Date Sampled...:	07/16/10 10:00	**Date Received..:**	07/17/10		
Prep Date.....:	07/30/10	**Analysis Date..:**	07/30/10		
Prep Batch #...:	0214130				
Dilution Factor:	16.67	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**170**	**150**	**ug/L**	**92**		**SW846 8260B**
	ND	**170**	**170**	**ug/L**	**101**	**8.7**	**SW846 8260B**
Trichloroethene	**550**	**170**	**680**	**ug/L**	**77**		**SW846 8260B**
	550	**170**	**700**	**ug/L**	**91**	**3.3**	**SW846 8260B**
Benzene	**ND**	**170**	**150**	**ug/L**	**93**		**SW846 8260B**
	ND	**170**	**160**	**ug/L**	**96**	**3.2**	**SW846 8260B**
Toluene	**ND**	**170**	**160**	**ug/L**	**97**		**SW846 8260B**
	ND	**170**	**170**	**ug/L**	**100**	**3.2**	**SW846 8260B**
Chlorobenzene	**ND**	**170**	**160**	**ug/L**	**96**		**SW846 8260B**
	ND	**170**	**170**	**ug/L**	**100**	**3.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	90	(61 - 128)
Toluene-d8	88	(76 - 110)
	90	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)
	97	(74 - 116)

NOTE(S):

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

Bold print denotes control parameters

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DISSOLVED GASES/RSK DATA

Cardinal Resources

Client Sample ID: OW-22

GC Volatiles

Lot-Sample #...:	A0G210469-001	**Work Order #...:**	L4GJG1AH	**Matrix.....:**	WG
Date Sampled...:	07/20/10 09:45	**Date Received..:**	07/21/10		
Prep Date.....:	07/28/10	**Analysis Date..:**	07/28/10		
Prep Batch #...:	0210163				
Dilution Factor:	5	**Initial Wgt/Vol:**	1 mL	**Final Wgt/Vol..:**	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	2.5	ug/L
Ethene	ND	2.5	ug/L
Methane	**2700**	**2.5**	**ug/L**

Cardinal Resources

Client Sample ID: OW-21

GC Volatiles

Lot-Sample #...:	A0G210469-002	**Work Order #...:**	L4GJT1AH	**Matrix.....:**	WG
Date Sampled...:	07/20/10 11:05	**Date Received..:**	07/21/10		
Prep Date.....:	07/28/10	**Analysis Date..:**	07/28/10		
Prep Batch #...:	0210163				
Dilution Factor:	1	**Initial Wgt/Vol:**	1 mL	**Final Wgt/Vol..:**	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**290**	**0.50**	**ug/L**

Cardinal Resources

Client Sample ID: OW-10R

GC Volatiles

Lot-Sample #...:	A0G210469-003	**Work Order #...:**	L4GJV1AH	**Matrix.....:**	WG
Date Sampled...:	07/20/10 12:20	**Date Received..:**	07/21/10		
Prep Date.....:	07/28/10	**Analysis Date..:**	07/28/10		
Prep Batch #...:	0210163				
Dilution Factor:	5	**Initial Wgt/Vol:**	1 mL	**Final Wgt/Vol..:**	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	2.5	ug/L
Ethene	ND	2.5	ug/L
Methane	**2300**	**2.5**	**ug/L**

Cardinal Resources

Client Sample ID: MW4

GC Volatiles

Lot-Sample #...:	A0G210469-004	**Work Order #...:**	L4GJ01AH	**Matrix.....:**	WG
Date Sampled...:	07/20/10 13:45	**Date Received..:**	07/21/10		
Prep Date.....:	07/28/10	**Analysis Date..:**	07/28/10		
Prep Batch #...:	0210163				
Dilution Factor:	1	**Initial Wgt/Vol:**	1 mL	**Final Wgt/Vol..:**	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**280**	**0.50**	**ug/L**

Cardinal Resources

Client Sample ID: OW8

GC Volatiles

Lot-Sample #...:	A0G210469-005	**Work Order #...:**	L4GJ11AH	**Matrix.....:**	WG
Date Sampled...:	07/20/10 15:00	**Date Received..:**	07/21/10		
Prep Date.....:	07/28/10	**Analysis Date..:**	07/28/10		
Prep Batch #...:	0210163				
Dilution Factor:	1	**Initial Wgt/Vol:**	1 mL	**Final Wgt/Vol..:**	1 mL
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethane	ND	0.50	ug/L
Ethene	ND	0.50	ug/L
Methane	**2.5**	**0.50**	**ug/L**

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L4TXL1AA **Matrix.....:** WATER
MB Lot-Sample #: A0G290000-163

Prep Date.....: 07/28/10 **Final Wgt/Vol..:** 1 mL
Analysis Date..: 07/28/10 **Prep Batch #...:** 0210163
Dilution Factor: 1 **Initial Wgt/Vol:** 1 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methane	ND	0.50	ug/L	RSK SOP-175
Ethane	ND	0.50	ug/L	RSK SOP-175
Ethene	ND	0.50	ug/L	RSK SOP-175

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L4TXL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0G290000-163 L4TXL1AD-LCSD
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methane	**99**	**(75 - 127)**			**RSK SOP-175**
	100	**(75 - 127)**	**1.4**	**(0-30)**	**RSK SOP-175**
Ethane	**97**	**(74 - 138)**			**RSK SOP-175**
	101	**(74 - 138)**	**3.2**	**(0-30)**	**RSK SOP-175**
Ethene	**101**	**(73 - 140)**			**RSK SOP-175**
	103	**(73 - 140)**	**1.8**	**(0-30)**	**RSK SOP-175**
Acetylene	**88**	**(70 - 130)**			**RSK SOP-175**
	89	**(70 - 130)**	**1.8**	**(0-30)**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0G210469 **Work Order #...:** L4TXL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0G290000-163 L4TXL1AD-LCSD
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210163
Dilution Factor: 1 **Final Wgt/Vol..:** 1 mL
Initial Wgt/Vol: 1 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Methane	**110**	**110**	**ug/L**	**99**		**RSK SOP-175**
	110	**110**	**ug/L**	**100**	**1.4**	**RSK SOP-175**
Ethane	**200**	**200**	**ug/L**	**97**		**RSK SOP-175**
	200	**210**	**ug/L**	**101**	**3.2**	**RSK SOP-175**
Ethene	**190**	**190**	**ug/L**	**101**		**RSK SOP-175**
	190	**200**	**ug/L**	**103**	**1.8**	**RSK SOP-175**
Acetylene	**180**	**160**	**ug/L**	**88**		**RSK SOP-175**
	180	**160**	**ug/L**	**89**	**1.8**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

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GENERAL CHEMISTRY DATA

Cardinal Resources

Client Sample ID: OW-22

General Chemistry

Lot-Sample #...: A0G210469-001 Work Order #...: L4GJG Matrix.....: WG
Date Sampled...: 07/20/10 09:45 Date Received..: 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	7.4	1.0	mg/L	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	11.7	1.0	mg/L	MCAWW 300.0A	07/21/10	0203160
		Dilution Factor: 1				
Total Alkalinity	220	5.0	mg/L	MCAWW 310.1	07/24/10	0207282
		Dilution Factor: 1				
Total Organic Carbon	4	1	mg/L	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW-21

General Chemistry

Lot-Sample #...: A0G210469-002 **Work Order #...:** L4GJT **Matrix.....:** WG
Date Sampled...: 07/20/10 11:05 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**23.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**260**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**	**07/22/10**	**0203226**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW-10R

General Chemistry

Lot-Sample #...: A0G210469-003 Work Order #...: L4GJV Matrix.....: WG
Date Sampled...: 07/20/10 12:20 Date Received..: 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**36.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**250**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**	**07/22/10**	**0203226**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: MW4

General Chemistry

Lot-Sample #...: A0G210469-004 **Work Order #...:** L4GJ0 **Matrix.....:** WG
Date Sampled...: 07/20/10 13:45 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**67.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203152**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**67.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**110**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	**2**	**1**	**mg/L**	**MCAWW 415.1**	**07/22/10**	**0203226**
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

Cardinal Resources

Client Sample ID: OW8

General Chemistry

Lot-Sample #...: A0G210469-005 **Work Order #...:** L4GJ1 **Matrix.....:** WG
Date Sampled...: 07/20/10 15:00 **Date Received..:** 07/21/10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**2.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203152**
		Dilution Factor: 1				
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate	**12.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	**07/21/10**	**0203160**
		Dilution Factor: 1				
Total Alkalinity	**53**	**5.0**	**mg/L**	**MCAWW 310.1**	**07/24/10**	**0207282**
		Dilution Factor: 1				
Total Organic Carbon	ND	1	mg/L	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1				
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: L4JCL1AA		MB Lot-Sample #:	A0G220000-152	
	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1				
Nitrate as N		Work Order #: L4JCN1AA		MB Lot-Sample #:	A0G220000-158	
	ND	0.10	mg/L	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1				
Sulfate		Work Order #: L4JCP1AA		MB Lot-Sample #:	A0G220000-160	
	ND	1.0	mg/L	MCAWW 300.0A	07/21/10	0203160
		Dilution Factor: 1				
Total Alkalinity		Work Order #: L4NXV1AA		MB Lot-Sample #:	A0G260000-282	
	ND	5.0	mg/L	MCAWW 310.1	07/23/10	0207282
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: L4KR01AA		MB Lot-Sample #:	A0G220000-226	
	ND	1	mg/L	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1				
Total Sulfide		Work Order #: L4QHL1AA		MB Lot-Sample #:	A0G270000-314	
	ND	1.0	mg/L	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A0G210469 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		WO#:L4JCL1AC-LCS/L4JCL1AD-LCSD LCS Lot-Sample#: A0G220000-152					
	104	(90 - 110)			MCAWW 300.0A	07/21/10	0203152
	104	(90 - 110)	0.76	(0-20)	MCAWW 300.0A	07/21/10	0203152
		Dilution Factor: 1					
Nitrate as N		WO#:L4JCN1AC-LCS/L4JCN1AD-LCSD LCS Lot-Sample#: A0G220000-158					
	99	(90 - 110)			MCAWW 300.0A	07/21/10	0203158
	99	(90 - 110)	0.64	(0-20)	MCAWW 300.0A	07/21/10	0203158
		Dilution Factor: 1					
Sulfate		WO#:L4JCP1AC-LCS/L4JCP1AD-LCSD LCS Lot-Sample#: A0G220000-160					
	99	(90 - 110)			MCAWW 300.0A	07/21/10	0203160
	98	(90 - 110)	0.73	(0-20)	MCAWW 300.0A	07/21/10	0203160
		Dilution Factor: 1					
Total Sulfide		WO#:L4QHL1AC-LCS/L4QHL1AD-LCSD LCS Lot-Sample#: A0G270000-314					
	101	(79 - 104)			MCAWW 376.1	07/27/10	0208314
	101	(79 - 104)	0.0	(0-20)	MCAWW 376.1	07/27/10	0208314
		Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: A0G210469 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#:L4JCL1AC-LCS/L4JCL1AD-LCSD				LCS Lot-Sample#: A0G220000-152	
	50.0	52.2	mg/L	104		MCAWW 300.0A	07/21/10	0203152
	50.0	51.8	mg/L	104	0.76	MCAWW 300.0A	07/21/10	0203152
			Dilution Factor: 1					
Nitrate as N			WO#:L4JCN1AC-LCS/L4JCN1AD-LCSD				LCS Lot-Sample#: A0G220000-158	
	2.5	2.5	mg/L	99		MCAWW 300.0A	07/21/10	0203158
	2.5	2.5	mg/L	99	0.64	MCAWW 300.0A	07/21/10	0203158
			Dilution Factor: 1					
Sulfate			WO#:L4JCP1AC-LCS/L4JCP1AD-LCSD				LCS Lot-Sample#: A0G220000-160	
	50.0	49.4	mg/L	99		MCAWW 300.0A	07/21/10	0203160
	50.0	49.1	mg/L	98	0.73	MCAWW 300.0A	07/21/10	0203160
			Dilution Factor: 1					
Total Sulfide			WO#:L4QHL1AC-LCS/L4QHL1AD-LCSD				LCS Lot-Sample#: A0G270000-314	
	17	17	mg/L	101		MCAWW 376.1	07/27/10	0208314
	17	17	mg/L	101	0.0	MCAWW 376.1	07/27/10	0208314
			Dilution Factor: 1					

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		Work Order #: L4NXV1AC	LCS Lot-Sample#: A0G260000-282		
	108	(90 - 127)	MCAWW 310.1	07/23/10	0207282
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: L4KR01AC	LCS Lot-Sample#: A0G220000-226		
	97	(88 - 115)	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			Work Order #: L4NXV1AC LCS Lot-Sample#: A0G260000-282				
	110	120	mg/L	108	MCAWW 310.1	07/23/10	0207282
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: L4KR01AC LCS Lot-Sample#: A0G220000-226				
	69	67	mg/L	97	MCAWW 415.1	07/22/10	0203226
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WG
Date Sampled...: 07/20/10 09:45 **Date Received..:** 07/21/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon		WO#: L4GJG1AL-MS/L4GJG1AM-MSD				MS Lot-Sample #: A0G210469-001	
	109	(72 - 136)			MCAWW 415.1	07/22/10	0203226
	113	(72 - 136)	2.8	(0-20)	MCAWW 415.1	07/22/10	0203226
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WG
Date Sampled...: 07/20/10 09:45 **Date Received..:** 07/21/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon			WO#: L4GJG1AL-MS/L4GJG1AM-MSD				MS Lot-Sample #: A0G210469-001		
	4	25	31	mg/L	109		MCAWW 415.1	07/22/10	0203226
	4	25	32	mg/L	113	2.8	MCAWW 415.1	07/22/10	0203226
			Dilution Factor: 1						

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER
Date Sampled...: 07/20/10 13:17 **Date Received..:** 07/21/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#: L4F5E1A9-MS/L4F5E1CA-MSD				MS Lot-Sample #: A0G210426-005	
	53	(10 - 160)			MCAWW 310.1	07/24/10	0207282
	48	(10 - 160)	1.8	(0-24)	MCAWW 310.1	07/24/10	0207282
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: A0G210469 **Matrix.....:** WATER
Date Sampled...: 07/20/10 13:17 **Date Received..:** 07/21/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			WO#: L4F5E1A9-MS/L4F5E1CA-MSD				MS Lot-Sample #: A0G210426-005		
	1100	500	1300	mg/L	53		MCAWW 310.1	07/24/10	0207282
	1100	500	1300	mg/L	48	1.8	MCAWW 310.1	07/24/10	0207282
			Dilution Factor: 1						

NOTE(S):

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

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END OF REPORT