Groundwater Monitoring Summary Report
September 2008 (Third Quarter)
American Chemical Service, Inc. National Priorities List Site
Griffith, Indiana

PREPARED FOR:

ACS RD/RA EXECUTIVE COMMITTEE

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SECTION 1.0 – EXECUTIVE SUMMARY

MWH Americas, Inc. (MWH) has prepared this Groundwater Monitoring Summary Report to present the results from the September 2008 groundwater sampling event at the American Chemical Service, Inc. (ACS) National Priorities List (NPL) Site in Griffith, Indiana. In general, the wells in the monitoring network are sampled twice a year. The standard sampling routine is to collect groundwater samples and analyze them for several indicator parameters. These activities were performed in accordance with the revised long-term groundwater monitoring plan (LTGMP) and the November 2001 United States Environmental Protection Agency (U.S. EPA) approved Quality Assurance Project Plan (QAPP). The U.S. EPA and Indiana Department of Environmental Management (IDEM) approved the revised LTGMP in a letter dated June 26, 2002. In April 2007, MWH submitted a QAPP Addendum (Addendum No. 1) to the U.S. EPA for approval. The QAPP Addendum changed the primary analytical laboratory from Compuchem to Microbac of Merrillville, Indiana. The U.S. EPA approved the Addendum in November 2007.

A baseline of groundwater quality for each monitoring well was established by collecting groundwater samples for four consecutive quarters between November 1996 and September 1997. For each sampling round since the baseline, the new sampling results for each well are compared to the baseline concentrations as part of the evaluation of trends in groundwater quality.

September 2008 groundwater elevations in the upper and lower aquifers were generally higher than those measured during the two previous sampling events conducted in March 2008 and October 2007. Hydraulic gradients remained consistent with those recorded during previous sampling rounds.

Groundwater samples were collected at 11 upper aquifer wells and 18 lower aquifer wells in the monitoring network and compared to the baseline results. One upper aquifer well, MW44, located west of the farmer's field was not sampled because it has been damaged. The groundwater samples were analyzed for indicator volatile organic compounds (VOCs).

Groundwater samples collected from 11 upper aquifer monitoring wells indicate that groundwater plumes to the north and south of the Site are not expanding, and that concentrations within the plumes are decreasing. There were no exceedances of maximum baseline concentrations in groundwater samples collected from the upper aquifer during September 2008.

The decreasing concentration trends in the upper aquifer are likely a combined result of the barrier wall, the perimeter groundwater containment system, the ISCO

treatments near Colfax Street and Reder Road, as well as natural attenuation.

Groundwater sample results from the 18 lower aquifer wells continue to show variability. Indicator VOCs were detected in six of the 18 lower aquifer wells.

Benzene and cis-1,2-dichloroethene were detected at trace concentrations in the sample from downgradient well MW33. This well is located at the northern end of the Site and is screened in the lower portion of the lower aquifer. Benzene was detected in the sample from MW33 at a concentration of 4.5 µg/L, which is below the U.S. EPA Maximum Contaminant Level (MCL) of 5 µg/L. In addition, cis-1,2-dichloroethene was detected at a concentration of 1.7 µg/L, well below the U.S. EPA MCL of 70 µg/L. Benzene has been detected in samples from this well over the past three sampling events. However, prior to October 2007, benzene had not been detected in samples from MW33. Similarly, cis-1,2-dichloroethene has been detected in samples collected from MW33 over the past four sampling events. Prior to April 2007, cis-1,2-dichloroethene was not detected in samples from MW33.

Vinyl chloride was detected at a trace concentration in the sample from interior lower aquifer well MW09R. Vinyl chloride was not detected in samples from this well during March 2008, but was detected at a trace concentration during the October 2007 sampling event. In the past, indicator VOCs have occasionally been detected in the lower aquifer at trace concentrations but have not been confirmed in the next sampling event. MWH will continue to monitor these locations according to the LTGMP.

Indicator VOCs exceeded maximum baseline values at two sampling locations. Chloroethane exceeded its maximum baseline concentration in the sample collected from MW29, and benzene exceeded its maximum baseline concentration in the sample collected from MW10C.

Chloroethane was detected at a concentration of 40 µg/L in the sample collected from MW29, a concentration which exceeds its maximum baseline concentration of 10 µg/L. However, no U.S. EPA MCL exists for this compound. The concentration of chloroethane in the sample collected from MW29 in September is similar to the March 2008 detection (39 µg/L), and lower than the concentration detected in October 2007 (69 µg/L). Chloroethane concentrations in samples from MW29 are likely the result of a concentration gradient between this well and MW09R.

Benzene was detected at a concentration of 340 µg/L in the sample collected from MW10C, a concentration which exceeds its maximum baseline concentration of 150 µg/L. However, in samples collected after the baseline, benzene concentrations have often exceeded the maximum baseline value, ranging from 66 µg/L to 4,800 µg/L. The pump inside MW10C did not operate

between July 2005 and September 2007 due to a malfunction. The pump operating in MW10C was repaired and brought online in September 2007. MWH will continue to extract groundwater for treatment at this location.

Tetrachloroethene concentrations were detected at generally increasing concentrations in samples from MW30 between September 2004 and April 2007. A pumping system was installed in MW30 to extract ground water containing tetrachloroethene. The pumping system was turned on in September 2007. Tetrachloroethene has not been detected in samples collected from MW30 during the past three sampling events.

A pumping system designed to capture groundwater near MW53 was turned on in September 2007. The concentration of benzene in the sample collected from MW53 in September 2008 is the lowest reported concentration since June 1997. Additionally, no indicator VOCs were detected in samples collected from sentinel wells MW58 and MW59. These results indicate that the benzene plume identified near MW53 has not migrated off-site to this point in the lower aquifer.

In response to the baseline exceedance of chloroethane at MW29, MWH proposes to continue monitoring the concentrations in this well according to the LTGMP. In response to the baseline exceedance of benzene in samples collected from MW10C, MWH will continue to extract groundwater for treatment and will continue monitoring concentrations according to the LTGMP at this location.

Annual water sampling from the residential wells was conducted during this sampling event. One residential well that was scheduled for sampling, PW-A, was not sampled as the residence is no longer inhabited and power to the home is turned off.

Several low-level organic compounds were detected in the samples from residential wells in September. In addition, thallium was detected in exceedance of MCLs in two samples. As a result of these detections, MWH recommended re-sampling three of the residential wells. The U.S. EPA agreed and on October 17, 2008, samples were collected from PW-C and PW-D for SVOCs and thallium. In addition, one well, PW-B, was sampled for SVOCs only.

During the October re-sampling event, one SVOC was detected in the sample from PW-B at an estimated concentration and thallium was detected in the sample collected from PW-C at a concentration of 5.9 ug/L, which is above the U.S. EPA MCL of 2 ug/L for this compound. However, during the data validation process, it was discovered that most of the compounds detected during the September and October sampling events were also detected in laboratory blanks. The detections reported in the residential samples appear to be the result of laboratory contamination and are not representative of actual groundwater conditions. The

one exception is the detection of di-n-butyl phthalate reported in samples from PW-B. However, this concentration was very low and no U.S. EPA MCL exists for this compound.

The next groundwater sampling event is scheduled to occur in March 2009. It will be a “full-scan” sampling round. In addition to sampling the monitoring wells in accordance with the LTGMP, MWH recommends re-sampling residential well PW-B for SVOCs during this event.

SECTION 2.0 – SEPTEMBER 2008 DATA COLLECTION ACTIVITIES

The groundwater monitoring activities conducted at the Site during September 2008 included measuring water levels and collecting and analyzing samples from monitoring wells.

2.1 WATER LEVEL MEASUREMENTS

Water level measurements were collected at 79 upper and lower aquifer wells, piezometers, and surface water staff gauges on September 19, 2008. Water level measurements could not be collected at several locations. Monitoring well MW44, located west of the farmer's field is damaged. The property owner has graded the land surface near this well. MW44 appears to have been struck by a vehicle and the well riser is bent to a 45 degree angle. Similarly, piezometer P17 located in the Town of Griffith Landfill could not be located and was likely destroyed by a vehicle. Water levels were not measured at MW40 and MW46 because these wells were inaccessible due to flooding from heavy rainfall in mid-September 2008. Also, a water level was not measured at piezometer P36 because it was dry.

MWH does not recommend the replacement of monitoring well MW44 or piezometer P17. The groundwater flow regime in the upper aquifer is well understood and water level data is regularly collected from many measuring points. MWH plans to revise the LTGMP to include a revised list of water level collection locations. The revised LTGMP will be submitted to U.S. EPA and IDEM for review and approval prior to the third quarter 2009 groundwater monitoring event.

Table 1 contains the water level measurements, map coordinates (reference points), top of well casing elevations, and calculated groundwater elevations for the measurement points.

2.2 GROUNDWATER SAMPLING

Groundwater sampling activities were conducted from September 22 through 25, 2008. Each monitoring well was sampled using low-flow methods in accordance with the Groundwater Sampling Standard Operating Procedure (SOP) in the revised LTGMP. Field parameters (pH, specific conductivity, temperature, dissolved oxygen [DO], oxidation-reduction potential [ORP], and turbidity) were measured during well purging, and the values recorded upon stabilization are presented in **Table 2**.

Groundwater samples were transported under chain-of-custody to Microbac Laboratory in Merrillville, Indiana, where they were analyzed for the parameters summarized in **Table 3**. This table lists upper and lower aquifer monitoring wells in the monitoring well network and the parameters analyzed during September 2008.

In accordance with the revised LTGMP, the analytical results were compared to 1997 maximum baseline concentrations. Comparison tables are provided in **Appendix A**.

2.3 RESIDENTIAL WELL SAMPLING

Annual sampling of four residential wells near the Site was conducted on September 29, 2008. One of the residential wells that was scheduled for sampling, PW-A, was not sampled because the residence is not currently occupied and power to the building is turned off. The residential wells were sampled by collecting untreated water (prior to water softening) from an outside spigot at each location. The water was measured for field parameters in accordance with the sampling SOP. Upon stabilization of the field parameters, a water sample was collected for submittal to the laboratory. The field parameters recorded upon stabilization are presented in **Table 2**.

The residential water samples were transported under chain-of-custody to Microbac Laboratory in Merrillville, Indiana, where they were analyzed for low-concentration organics (VOCs, SVOCs, PCBs, and pesticides) and inorganics (metals and cyanide).

The results of the residential samples indicated that compounds were detected at several residential wells. MWH presented these results to the U.S. EPA in an email dated October 8, 2008 and re-sampled residential wells PW-B (SVOCs only) and PW-C and PW-D (for SVOCs and thallium) on October 17, 2008.

SECTION 3.0 – SEPTEMBER 2008 GROUNDWATER DATA EVALUATION

3.1 GROUNDWATER FLOW SYSTEM DATA

The groundwater elevations listed in **Table 1** were used to develop a water table contour map (**Figure 1**) for the upper aquifer and a potentiometric surface contour map for the lower aquifer (**Figure 2**).

In September 2008, the groundwater elevations in upper aquifer wells and piezometers were on average 0.34 feet higher than measured in March 2008, and 1.37 feet higher than measured in September 2007. Higher groundwater elevations during September 2008 are likely related to the heavy precipitation that occurred in mid-September 2008.

The groundwater flow pattern in the upper aquifer during September 2008 was consistent with previous monitoring events. Regional groundwater flow is generally east to west, but as it approaches the Site it is diverted to the north and south by the barrier wall. The gradient northwest of the Site is relatively flat due to the effects of the Perimeter Groundwater Containment System (PGCS) trench, barrier wall, and discharge points from the groundwater treatment plant. Groundwater to the south of the Site flows to the south and southeast.

Groundwater elevations measured in lower aquifer wells in September 2008 were on average 0.98 feet higher than measured in March 2008, and 2.51 feet higher than those in September 2007. The groundwater flow pattern in the lower aquifer is northward at a relatively low hydraulic gradient. The hydraulic gradient across the Site from south to north (calculated between wells MW50 and MW52) was 0.00044 feet per foot (ft/ft) during September 2008. The average hydraulic gradient calculated between the two wells in the lower aquifer since 1995 is 0.00043 ft/ft.

The groundwater elevations measured inside and outside of the barrier wall and near the PGCS are discussed in the *Quarterly Monitoring Report for Active Treatment Systems – Third Quarter 2008*. The groundwater elevations show that the groundwater extraction system is maintaining an inward gradient.

3.2 MONITORING WELL ANALYTICAL DATA

During the September 2008 sampling round, samples from 11 wells in the upper aquifer and 18 wells in the lower aquifer were analyzed for indicator parameters, which include benzene, chloroethane, 1,1-dichloro-ethane, 1,1-dichloroethene, 1,2-dichloroethane, cis-

1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride.
The first four quarterly sampling events conducted in 1996 and 1997 were used to establish a baseline of groundwater quality in the upper and lower aquifer. Many of the monitoring wells sampled during the baseline events were located outside of the original groundwater plume. Therefore indicator compounds were not detected in samples from most of the upgradient and downgradient monitoring wells. In those cases, the detection limit (typically 10 micrograms per liter [µg/l]) was selected as the maximum baseline concentration.

In accordance with the LTGMP, analytical results from upper and lower aquifer monitoring wells are compared to 1997 maximum baseline concentrations (**Appendix A**). This comparison is primarily useful for wells located inside plume areas (interior wells) or those with a history of VOC detections. Because detections of indicator compounds at concentrations below their maximum baseline concentrations can still be significant, current sample results are compared to previous sampling data to determine if increasing or decreasing trends are occurring.

3.2.1 Upper Aquifer Results

Table 4 summarizes indicator parameter results in samples from 11 upper aquifer wells collected during September 2008. **Figure 3** shows the well locations and detected indicator compounds on a map of the Site. Graphs presenting the concentrations of benzene and chloroethane versus time for the upper aquifer monitoring wells are presented in **Appendix B**. The validation narrative and laboratory analytical reports for samples from the upper aquifer are provided in **Appendix C**.

Upper Aquifer VOC Results
Historically, benzene and chloroethane impacts have been observed outside of the barrier wall in two areas of the upper aquifer. North of the Site, these detections have consistently occurred in samples collected from wells MW48 and MW49. South of the Site, benzene and chloroethane have been detected in samples collected from MW06, MW19, and MW45. The groundwater monitoring program in the upper aquifer has focused on monitoring concentrations upgradient, within, and downgradient of these impacted areas. The plots in **Appendix B** are useful in observing concentration trends at each monitoring well.

Upgradient Upper Aquifer Wells
Benzene and chloroethane were not detected in samples collected from upper aquifer upgradient monitoring wells MW11 and MW17. Tetrachloroethene was detected at an estimated concentration of 1.7 µg/l in the sample from MW17 east of the Site. This concentration is well below the U.S. EPA MCL of 5.0 µg/l for this compound. Tetrachloroethene has occasionally been detected at trace concentrations in previous samples from this well. In addition, trichloroethene was detected at an estimated

concentration of 1.3 µg/l, below the MCL of 5.0 µg/l, in the sample collected from MW11 at the northeast corner of the Site. Prior to this detection, trichloroethene had not been detected in MW11 since March 2004.

Interior Upper Aquifer Wells

Benzene and chloroethane were detected in samples collected from several wells inside the originally delineated plume area (interior wells). No samples collected from upper aquifer interior wells reported concentrations above their respective baseline values for benzene or chloroethane.

- South of the Site, benzene was detected in the sample collected from MW06 at a concentration of 160 µg/l. Benzene was not detected in the samples collected from this well during the previous three sampling rounds.

- Benzene was detected in the sample collected at well MW19 at a concentration of 5.1 µg/l. Monitoring well MW19 is located downgradient of MW06. Benzene was not detected in the sample collected from MW45, which is located further downgradient from MW06 and MW19. Monitoring well MW44 was not sampled.

- North of the Site, concentrations of benzene in the samples collected from wells MW48 and MW49 were detected at 46 µg/l and 120 µg/l, respectively. These results are substantially below the maximum baseline concentrations for these wells (9,500 µg/l and 6,750 µg/l, respectively). Chloroethane was not detected in samples collected from MW48 and MW49.

- Chloroethane was detected in samples from MW06 and MW19. Chloroethane concentrations did not exceed baseline values in samples from these wells.

Downgradient Upper Aquifer Wells

Benzene was detected at an estimated concentration of 1.3 µg/l in the sample collected from well MW15 which is downgradient from the Town of Griffith Landfill. Benzene was not detected in any other samples from downgradient wells in the upper aquifer. Chloroethane was not detected in any samples collected from downgradient wells in the upper aquifer.

Tentatively Identified Compounds

A few tentatively identified compounds (TICs) were detected in samples from upper aquifer wells MW06, MW17, MW19, and MW48. These compounds include mostly isomers of ether and sulfide. The analytical results for TICs are provided in Appendix C - Laboratory Analytical Reports.

3.2.2 Lower Aquifer Results

Table 5 summarizes the indicator parameter results in samples from 18 lower aquifer monitoring wells collected during September 2008. **Figure 4** shows the well

locations and detected indicator VOCs on a map of the Site. Graphs presenting the concentrations of benzene and chloroethane versus time for the lower aquifer monitoring wells are presented in **Appendix B**. The validation narrative and laboratory analytical reports for samples from the lower aquifer are provided in **Appendix C**.

Lower Aquifer VOC Results

Historically, benzene and chloroethane have been detected in the samples collected from lower aquifer monitoring wells MW09, ATMW4D, MW10C, and MW53. ATMW4D and MW09 were abandoned and replaced by MW56 and MW09R, respectively. Between September 2004 and April 2007, tetrachloroethene was detected at variable and often increasing concentrations in samples from lower aquifer well MW30. However, tetrachloro-ethene has not been detected in samples collected from this well over the past three sampling events.

Low pumping rate extraction pumps (<5 gpm) have been installed in lower aquifer wells that are contaminated. In 2002, extraction wells were installed in MW10C and MW56 to capture and treat impacted groundwater in the lower aquifer. MW53, LA-14, and MW30 were added to this pumping system and were brought on-line in September 2007.

Two sentinel wells MW58 and MW59 were installed to monitor groundwater downgradient of MW53. The groundwater monitoring program, with the addition of the sentinel wells, has focused on monitoring concentrations upgradient, within, and downgradient of these areas.

Upgradient Lower Aquifer Well

No VOCs were detected in the sample collected from upgradient well MW28, which is located in the lower aquifer south of the Site.

Interior Lower Aquifer Wells

Indicator compounds were detected in samples collected from interior wells MW09R, MW10C, MW29, and MW56. Benzene was detected below maximum baseline concentrations in samples from MW09R (5.8 µg/l) and MW56 (13 µg/l). However, benzene was detected at a concentration of 340 µg/l in the sample collected from MW10C, above its maximum baseline concentration of 150 µg/l for this compound. Concentrations of benzene in samples from MW10C have been as high as 4,800 µg/l as recently as March 2003.

Chloroethane was detected in the sample collected from monitoring well MW29 at a concentration of 40 µg/l, above its maximum baseline concentration of 10 µg/l. However, this concentration continues to show a decreasing trend from the peak chloroethane concentration of 100 µg/l reported in the sample collected from this well in September 2006. MW29 is nested with MW09R and is screened approximately 25 feet deeper in the lower aquifer at this location. No other chloroethane

concentrations from interior wells exceeded their respective maximum baseline values.

Vinyl chloride was detected in the sample collected from interior well MW09R at an estimated concentration of 1.1 µg/l. Vinyl chloride was also detected at a trace, estimated concentration in the sample from this well during October 2007. However, vinyl chloride had not been detected at MW09R prior to October 2007. The variability in vinyl chloride detections from this well may be the result of a change to a new primary laboratory. MWH changed primary laboratories beginning with the October 2007 sampling event. Samples that are analyzed on different machines may detect compounds that were not reported in the past due to precision and accuracy differences.

Downgradient Lower Aquifer Wells

Indicator VOCs were detected in samples collected from two downgradient monitoring wells in September 2008. Benzene was detected in samples collected from MW33 at an estimated concentration of 4.5 µg/l. Benzene was also detected in the sample collected from MW53 at an estimated concentration of 1.2 µg/l, below the maximum baseline concentration of 10 µg/l for this compound. Benzene concentrations in samples from MW53 have shown a decreasing trend over the past four sampling events, since the pumping system was activated.

Cis-1,2-dichloroethene was detected at an estimated concentration of 1.7 µg/l in the sample collected from MW33. Cis-1,2-dichloroethene was not detected in the sample collected from this well during the baseline sampling event.

Indicator VOCs were not detected in samples collected from sentinel wells MW58 and MW59.

Tentatively Identified Compounds

TICs were detected in samples from 14 of the 18 lower aquifer wells sampled in September. Ether and alcohol were detected most commonly and at the highest concentrations in lower aquifer samples. Ether was detected in samples collected from MW10C and MW23 at concentrations of 273.5 µg/l and 29.0 µg/l, respectively. Alcohol was detected in samples collected from MW33, MW54R, MW58, and MW59 with the highest concentration (14.0 µg/l) being detected at MW33. Many other unknown compounds were also detected in samples collected from lower aquifer wells. The analytical results for TICs are provided in Appendix C - Laboratory Analytical Reports.

3.2.3 Discussion

The Site source areas are contained within the barrier wall which is limiting migration of contaminants to adjacent areas in the upper aquifer. The groundwater

monitoring program in the upper aquifer is structured specifically to monitor groundwater outside the barrier wall. In the lower aquifer, low-rate extraction pumps have been installed in wells where VOCs have historically been identified. The groundwater monitoring program in the lower aquifer has covered monitoring concentrations upgradient, within, and downgradient of these areas. The concentration trends over time shown on data plots in **Appendix B** are discussed.

Upper Aquifer

VOCs

Historically, monitoring data from the upper aquifer has shown seasonal variability. This pattern has been evident in samples collected from interior wells, located to the north and south of the Site.

In the north, monitoring wells MW48 and MW49 have historically shown higher concentrations in the fall and lower concentrations in spring. This was a fall monitoring event so we would expect to see higher concentrations in samples from these wells than the samples collected in March 2008. However, benzene was detected in the sample collected from MW48 at 46 µg/l, which is lower than detected in the spring of 2008 (130 µg/l). Chloroethane was not detected in the sample from this well in September 2008, whereas this compound was detected at a concentration of 8.4 µg/l during the March 2008 event. Overall, concentrations of benzene and chloroethane have decreased significantly in samples collected from MW48 since active remediation was started (**Appendix B**).

Benzene was detected in the sample from MW49 at 120 µg/l which is higher than detected in March 2008 (40 µg/l). However, this concentration is well below the concentration detected from this well in October 2007 (550 µg/l). Chloroethane was not detected in the sample collected from MW49 during September 2008. This compound was also below the detection limit in March 2008. Prior to these two sampling events, chloroethane was detected in samples from MW49 at 10 µg/l during October 2007. Concentrations of benzene and chloroethane continue to be significantly lower than their respective maximum baseline values (6,750 µg/l and 715 µg/l) in samples from MW49.

Since the monitoring program was started in 1997, interior wells MW48 and MW49 continue to show decreasing concentration trends. The decreasing concentrations of benzene and chloroethane north of the Site can be attributed to source containment and natural attenuation.

South of the Site, monitoring well MW06 has historically shown seasonal variability with higher concentrations in the spring and lower concentrations in the fall. However, from 2004 to 2006, MWH completed four rounds of in-situ chemical oxidation (ISCO) treatments

near the intersection of Colfax Street and Reder Road. Monitoring well MW06 is located downgradient of the ISCO treatment area and is an indicator of remediation progress in this area. These treatments involved injecting large volumes of water (and chemical reagents) into the water table zone. The treatments appear to have interrupted the expected seasonal variability usually observed at MW06.

Concentrations of benzene and chloroethane were elevated in the fall of 2005 and the spring of 2006 in samples collected from MW06. Benzene concentrations then decreased to below the detection limit during the three sampling events from April 2007 through March 2008. However, during the September 2008 sampling event, benzene was detected in samples collected from MW06 at a concentration of 160 µg/l. This concentration is higher than those reported during the past four sampling events, but is lower than the elevated concentrations previously mentioned. The chloroethane concentration in the sample collected from this well in September 2008 was 36 µg/l. These results are higher than the previous three sampling events.

Overall, benzene and chloroethane concentrations have showed a decreasing trend since ISCO treatments were conducted (see the concentration trend in **Appendix B**). MWH will continue to monitor MW06 to see if overall decreasing trends continue as a result of the ISCO remediation conducted upgradient of this well.

Benzene and chloroethane concentrations in the sample from MW19, located 500 feet downgradient of MW06, were detected at 5.1 µg/l and 10 µg/l, respectively. Benzene concentrations in samples from MW19 have ranged from below the reporting limit to just over the reporting limit. There does not appear to be either an increasing or decreasing trend for benzene concentrations at this well.

The chloroethane concentration in the sample from MW19 in September 2008 is slightly higher than the concentrations detected in March 2008 (8.4 µg/l), and October 2007 (7.6 µg/l). Chloroethane concentrations have shown an increasing trend over the past four sampling events, but still remain below maximum baseline concentrations. Chloroethane concentrations were at or above the maximum baseline concentration in samples at this well from March 2003 to September 2004. Chloroethane concentrations have shown an overall decreasing trend since March 2004. The decreasing concentration trend for chloroethane at MW19 is evident in the graph in **Appendix B.**

Decreasing concentrations of benzene and chloroethane have been reported in samples collected from interior well MW45, located 1,000 feet downgradient of MW06. The benzene and chloroethane concentrations in samples from this well have remained below 5 µg/l for the past several years. The decreasing concentration trend for benzene and chloroethane at MW45 is evident in the graph in **Appendix B**.

During the second and third quarter of 2009, MWH will be revising the LTGMP to include future monitoring requirements for downgradient monitoring wells.

The sample collected from one downgradient well, MW15, contained a trace concentration of benzene. MW15 is located downgradient of the Town of Griffith Landfill. Benzene has been detected in trace, estimated concentrations from this well during the past three monitoring events. Chloroethane concentrations have been below the reporting limit for the past six monitoring events. Concentrations of benzene and chloroethane in samples from downgradient well MW15 have shown decreasing concentration trends over the last several sampling events.

Data from upper aquifer monitoring wells indicate that VOC contamination has not spread beyond historical limits. Perimeter monitoring wells have been generally free of benzene and chloroethane detections and concentrations within the plume have been decreasing.

The overall decreasing concentrations of benzene and chloroethane in the samples from wells MW06, MW19, and MW45 are likely related to the ISCO treatments and natural attenuation. MWH will continue to monitor MW06 to evaluate remediation progress in this area.

Lower Aquifer

VOCs

VOCs are detected at variable concentrations in several lower aquifer wells.

- During the September 2008 sampling event, benzene and vinyl chloride were detected at interior well, MW09R. Benzene was detected at a concentration of 5.8 µg/l, and vinyl chloride was detected at 1.1 µg/l. Concentrations of both compounds are substantially below baseline values at this well. MWH will continue to monitor VOC concentrations at this well in accordance with the LTGMP.

- Chloroethane was detected at a concentration of 40 µg/l at interior well MW29 during the September 2008 sampling event. This concentration exceeds the baseline value of 10 µg/l, but has been showing a decreasing trend in concentration since September 2006. MWH will continue to monitor chloroethane concentrations at this well in accordance with the LTGMP.

- Two VOCs, benzene and chloroethane, were detected in samples collected from interior well MW10C during the September 2008 sampling event. Benzene was detected at a concentration of 340 µg/l which exceeds the baseline concentration of 150 µg/l. However, benzene concentrations have been as high as 4,800 µg/l at MW10C in the past.

- Chloroethane was detected at 280 µg/l, well below the baseline concentration of 420 µg/l for MW10C. In order to remediate the contamination in this well, MWH installed a pumping system within MW10C to extract and treat the groundwater at this location. MWH will continue to monitor concentrations at this well.

- During the September 2008 sampling event, benzene and chloroethane were detected in samples collected from interior well MW56 at concentrations of 13 µg/l and 2.4 µg/l, respectively. Similar to MW10C, MWH has installed a pumping system in this well to extract contaminated groundwater for treatment. MWH will continue to monitor the VOC concentrations at MW56 in accordance with the LTGMP.

- Benzene was detected at a trace concentration (1.2 µg/l) in the samples collected from downgradient well MW53 during the September 2008 sampling event. This well is located northwest of the Site. Previous benzene concentrations reached as high as 12 µg/l in April 2007. MWH installed a lower aquifer pumping system similar to those in MW10C and MW56 to extract and treat the contaminated groundwater at this location. The pumping system was brought on-line in September 2007 and appears to be capturing the impacted groundwater. In fact, the concentration of benzene detected in September 2008 is the lowest reported concentration at this well since December 1997. MWH will continue to monitor VOC concentrations in MW53 in accordance with the LTGMP.

- Tetrachloroethene was detected at low but generally increasing concentrations in samples from downgradient well MW30 between September 2004 and April 2007. This well is located northwest of the Site, just east of MW53. MWH installed a low-rate extraction pump in MW30 to capture the impacted groundwater near this well. The pumping system was brought on-line in September 2007 and is similar to the one near MW53, as well as the ones in MW10C and MW56. Tetrachloroethene has not been detected in samples collected from MW30 during the past three sampling events since the pumping system was installed. A plot of tetrachloroethene concentrations for MW30 is included in **Appendix B**.

- Benzene and cis-1,2-dichloroethene were detected in the sample collected from downgradient well MW33 in estimated concentrations (4.5 µg/l and 1.7 µg/l, respectively). MW33 is nested with well MW30 and is screened in the deepest part of the lower aquifer. Benzene concentrations have shown an increasing trend over the past three sampling events. MWH will continue to monitor VOC concentrations in this well in accordance with the LTGMP.

MWH performed a multi-phased investigation to address the extent of benzene-impacted groundwater near MW53. This included installing temporary lower aquifer wells (LA12 through LA15) to delineate the groundwater with benzene in the vicinity of MW53. Additionally, a three-day pumping test was performed in November 2005 to provide site specific hydraulic data.

The results of the investigation indicated an area of groundwater contaminated with benzene approximately 225 feet wide is located near MW53 at the bottom of the lower aquifer. The pumping test data was used to design the aforementioned pumping system capable of capturing benzene-impacted groundwater in the vicinity of MW53. Groundwater extraction pumps have been installed in four lower aquifer wells (MW53, LA12, LA13, and LA14) in this area. MWH has the option of activating one or more of these pumps as necessary. Currently, the pumps are extracting groundwater from MW53 and LA14 for a total extraction rate of ten gallons per minute. This extraction system transfers groundwater back to the Groundwater Treatment Plant (GWTP) for treatment. The extraction system near MW53 was brought on-line in September 2007.

The pumps installed in lower aquifer wells (MW10C, MW56, MW30, MW53, and LA14) are inspected regularly to provide a measure of the gallons pumped. As of January 9, 2009, the system pumped a total of 12,631,730 gallons of groundwater from these wells (**Appendix D**).

The final phase of the lower aquifer investigation included the installation and sampling of two sentinel wells (MW58 and MW59), north of MW53. These wells were installed with 10 foot screens situated at the bottom of the lower aquifer. They are screened across the same elevation as monitoring well MW53 which has documented the lower aquifer benzene plume. The two new monitoring wells have been sampled during each groundwater monitoring event since September 2006.

MWH is evaluating the entire long term groundwater monitoring program and will make recommendations to modify and simplify the system prior to the next sampling event.
The most likely source(s) of contamination in the lower aquifer is one of the six production wells, which ACS constructed and used in the past. MWH properly abandoned these six production wells in 1998; thus, removing these potential sources of contamination.

3.3 RESIDENTIAL WELL ANALYTICAL DATA

The following four residential wells were sampled during September 2008:

Well Identity	Street Address
PW-B	1009 Reder Road
PW-C	1029 Reder Road

PW-D	1033 Reder Road
PW-T	1043 Reder Road

One residential well, PW-A, located at 1007 Reder Road, was not sampled. The house is no longer occupied and power has been shut off. As a result, MWH was not able to collect a sample from this location.

The locations of the five residences are shown on **Figure 5**. The samples were analyzed for low-concentration organics including VOCs, semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and pesticides, in addition to inorganics (metals and cyanide). The analytical results from the residential wells are provided in **Appendix A**.

Several compounds were detected in the residential samples collected during the September 2008 monitoring event. One VOC, acetone, was detected in samples collected from PW-B and PW-C. Three SVOCs and two chlorinated pesticides were also detected in residential samples. None of the detections of organic compounds exceeded U.S. EPA MCLs. A summary of detected organic compounds is provided in **Table 6**.

Inorganic compounds were also detected in the September residential samples (**Table 7**). All were below U.S. EPA MCLs with the exception of thallium. Thallium was detected in the duplicate sample collected at PW-C at a concentration of 3.3 ug/L and in the sample collected from PW-D at a concentration of 3.4 ug/L. Both of these concentrations exceed the U.S. EPA MCL of 2 ug/L for this compound.

Because of the low-level organic detections and thallium exceedance of MCLs in two samples, MWH recommended re-sampling several of the residential wells. The U.S. EPA agreed and on October 17, 2008, samples were collected from PW-C and PW-D for SVOCs and thallium. In addition, one well, PW-B, was sampled for SVOCs only.

During the October re-sampling event, one SVOC, di-n-butyl phthalate, was detected in the sample from PW-B at an estimated concentration (4.7 ug/L). No U.S. EPA MCL exists for this compound. Thallium was detected in the sample collected from PW-C at a concentration of 5.9 ug/L, which is above the U.S. EPA MCL of 2 ug/L for this compound.

The laboratory reports for both sampling events were sent to Laboratory Data Consultants (LDC) of Carlsbad, California for data validation. During the validation process, it was discovered that most of the compounds detected during the September and October sampling events were also detected in laboratory blanks. All of the concentrations of acetone and chlorinated pesticides detected during the September event were flagged “UB” and modified as not detected at the method reporting limit. In addition, the concentrations of thallium detected during the September and October events were also flagged either “B” or “UB” by LDC. The validated laboratory packages for the September and October

samples as well as the Precision, Accuracy, Representativeness, Comparability, Completion (PARCC) Summary Report are included in **Appendix C**.

In conclusion, the detections of organic compounds and thallium reported in the September and October 2008 sampling events are most likely due to laboratory contamination and are not likely representative of actual groundwater conditions. In any case, thallium is not representative of documented groundwater associated with the ACS Site. The one exception is the detection of di-n-butyl phthalate in the samples collected from PW-B. This compound was detected during both sampling events, and did not appear in an associated blank. However, the compound was detected at very low concentrations and no U.S. EPA MCL exists for this compound. MWH recommends re-sampling PW-B for SVOCs in March 2009 during the First Quarter Monitoring Event.

SECTION 4.0 – CONCLUSIONS

The September 2008 water levels and groundwater samples were collected from wells at the Site to meet the following objectives from the revised LTGMP:

1. **Collect water level data to confirm that groundwater flow regimes in the upper and lower aquifers are consistent with historical flow patterns.**

   Water levels within the upper and lower aquifers were higher in September 2008 compared to the two previous sampling events. These higher groundwater elevations are likely due to the heavy precipitation that occurred at the Site in mid-September. However, the groundwater flow regimes determined from September 2008 data are consistent with past conditions for both the upper and lower aquifers.

2. **Collect water level data to confirm that the Barrier Wall Extraction System (BWES) and Perimeter Groundwater Containment System are affecting the upper aquifer hydraulic gradients as planned.**

   The data indicate that the barrier wall is containing the groundwater enclosed within the wall. The regional groundwater flow from the east is diverted toward the north and south around the barrier wall. The groundwater diverted to the north is collected in the PGCS extraction trench. Groundwater diverted south flows along the barrier wall and continues to the south and southeast. These results are consistent with previous observations.

3. **Collect and analyze groundwater samples from upgradient monitoring wells in the upper and lower aquifers to confirm background ground water quality.**

   There were no detections of benzene or chloroethane in samples from upgradient monitoring wells in either the upper or lower aquifer wells. A trace concentration of tetrachloroethene was detected in the sample collected from upper aquifer well MW17, located east of the ACS Site along Reder Road. Tetrachloroethene has occasionally been detected at trace concentrations in previous samples from this well. In addition, a trace concentration of trichloroethene was detected in the sample collected from upper aquifer well MW11, located northeast of the ACS Site. Prior to this detection, trichloroethene had not been detected in MW11 since March 2004.

4. **Collect and analyze groundwater samples from upper and lower aquifer monitoring wells to provide indication of any changes in groundwater quality at downgradient boundaries.**

In September, benzene was detected at a trace, estimated concentration in the sample collected from one downgradient well, MW15, screened within the upper aquifer downgradient from the Town of Griffith Landfill. Chloroethane was not detected in samples from downgradient wells in the upper aquifer during September 2008.

In September, benzene was detected in samples from two downgradient monitoring wells in the lower aquifer. Benzene was detected at a concentration of 4.5 µg/l in the sample collected from MW33. MWH will continue to monitor this location according to the LTGMP. Benzene was detected in the sample collected from MW53 at a concentration of 1.2 µg/l. This is the lowest concentration reported at this well since December 1997. Benzene concentrations at MW53 have shown a steadily decreasing trend over the past several sampling events. A pumping system capable of capturing benzene impacted groundwater in the vicinity of MW53 has been installed and began operating in September 2007. The system will continue to extract groundwater for treatment at this location.

Tetrachloroethene was detected at generally increasing concentrations in samples collected from MW30 between September 2004 and April 2007. However, tetrachloroethene has not been detected at this well during the past three sampling events since the pumping system began operating in September 2007. MWH will continue to extract groundwater for treatment at this location.

Cis-1,2-dichloroethene was detected below the reporting limit in the sample collected from MW33. This compound has been detected in this well at trace concentrations over the past four sampling events. Cis-1,2-dichloroethene was not detected in the sample collected from MW33 during the baseline sampling event. MWH will continue to monitor MW33 according to the LTGMP.

No indicator VOCs were detected in the samples collected from sentinel wells, MW58 and MW59. MWH recommends the continued sampling of MW58 and MW59 along with the other lower aquifer wells, as part of the LTGMP to achieve the objective of monitoring groundwater quality in the lower aquifer at the downgradient boundary.

5. **Collect and analyze groundwater samples from the interior of the areas of contaminated groundwater to document how concentrations change with time as the remediation progresses.**

   Sampling data from the upper aquifer indicate that concentrations within contaminated areas outside the barrier wall continue to decrease. MW48 and MW49 are located north of the ACS Site. The concentrations of benzene and chloroethane in

samples from MW48 have decreased over the last several years. Concentrations at MW49 have been variable during recent sampling events but remain well below baseline values.

MW06, MW19, and MW45 are located southeast of the ACS Site. Concentrations in samples from these wells have also demonstrated overall decreasing trends. Concentrations of benzene and chloroethane in samples collected from MW06 were higher in September than in previous sampling events. However, these concentrations still remain well below those detected during the baseline sampling event. These decreasing trends in the upper aquifer are likely the combined result of the barrier wall, the PGCS, the ISCO treatments near Colfax Street and Reder Road, as well as natural attenuation.

Concentrations of indicator VOCs in samples collected from interior lower aquifer wells have shown some variability over the last several sampling events. Vinyl chloride was detected at a trace, estimated concentration in the sample collected from MW09R. Concentrations of benzene and chloroethane in samples from MW09R have remained fairly consistent over the past several sampling events. Benzene concentrations at this well have remained near the detection limit and chloroethane has not been detected at MW09R since September 2005. Chloroethane concentrations in adjacent nested well MW29 remain above baseline concentrations, but have shown a decreasing trend since September 2006. Benzene and chloroethane concentrations in samples collected from MW56 are also decreasing since the replacement of ATMW4D and installation of a pumping system in this well. In fact, the concentration of benzene detected in this well during the September sampling event was the lowest concentration reported in samples from this well since June 2001.

Benzene and chloroethane concentrations in samples from MW10C have been variable over the past few sampling events. However, benzene concentrations have shown an overall decreasing trend since a peak concentration was reported in March 2003. In addition, chloroethane concentrations at MW10C have remained below baseline concentrations for this compound since March 2003. A similar pumping system to the one in well MW56 is operating at MW10C to capture impacted groundwater and prevent its migration in the lower aquifer. In addition, beginning in September 2007, the lower aquifer pumping system was expanded to include MW30 and the area near MW53. MWH will continue to monitor these locations according to the LTGMP.

The next groundwater sampling event is scheduled to occur in March 2009. It will be a “full-scan” sampling round. In addition to sampling the monitoring wells in accordance with the LTGMP, MWH recommends

re-sampling residential well PW-B for SVOCs during this event.

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Table 1
Groundwater Elevation Data - September 2008
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			September 19, 2008		Notes
	East	North	TOC	Level	Elevation	
Upper Aquifer Monitoring Wells						
MW06	5298	5520	655.28	20.79	634.49	
MW11	6377	7329	640.47	4.63	635.84	
MW12	6019	6352	642.74	6.25	636.49	
MW13	5050	7814	634.08	2.44	631.64	
MW14	4882	6995	638.56	6.11	632.45	
MW15	4721	5003	637.89	3.34	634.55	
MW17	5656	5677	647.10	11.77	635.33	
MW19	5231	4943	635.78	1.93	633.85	
MW37	5395	7976	636.78	3.72	633.06	
MW38	5903	8216	636.51	4.34	632.17	
MW39	6253	7947	637.77	4.32	633.45	
MW40	6349	6831	639.46	NM	NM	Inaccessible due to flooding
MW41	6242	4517	632.74	5.10	627.64	
MW42	6264	3808	632.32	4.16	628.16	
MW43	5880	3719	633.56	5.02	628.54	
MW44	5390	4303	633.04	NM	NM	Damaged
MW45	5830	4388	635.35	6.32	629.03	
MW46	4526	7424	633.32	NM	NM	Inaccessible due to flooding
MW47	5958	5084	640.54	4.75	635.79	
MW48	5669	7814	636.36	3.93	632.43	
MW49	5551	7650	637.00	4.22	632.78	
M4S	4953	6537	633.42	0.92	632.50	

Notes:
All depth measurements and elevations are in units of feet.
Elevation is in feet above mean sea level.
TOC = top of casing
NM = not measured

Table 1
Groundwater Elevation Data - September 2008
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			September 19, 2008		Notes
	East	North	TOC	Level	Elevation	
Staff Gauges & Piezometers						
P13	4878	5735	651.20	17.72	633.48	
P17	4584	6006	651.90	NM	NM	Destroyed
P23	4689	7018	636.18	4.60	631.58	
P25	5131	7510	633.33	1.45	631.88	
P26	4764	7309	634.23	3.01	631.22	
P27	4904	7020	639.70	7.24	632.46	
P28	5883	7486	644.53	9.08	635.45	
P31	5480	7159	641.03	8.83	632.20	
P32	5746	7026	642.32	10.24	632.08	
P36	5410	6851	645.89	DRY	DRY	
P40	5931	7241	638.77	3.71	635.06	
P41	5663	7377	637.23	2.70	634.53	
P49	5145	6949	638.98	10.18	628.80	
SG8R	5409	5252	634.70	NM	NM	Destroyed
SG8R2	5409	5242	632.67	NM	NM	Destroyed
SG8R3	5255	5406	636.32	4.76	634.48	Re-installed 9/22/06, resurveyed 9/27/06
SG5	5464	7713	633.36	NM	NM	Destroyed
SG5R	5465	7714	633.35	4.62	631.37	Re-installed 9/22/06, resurveyed 9/27/06
SG13	4819	7209	631.53	5.62	630.55	Reference TOC is the 6.0' mark on staff gauge
SG14	5109	6523	635.44	NM	NM	Destroyed
SG14R	5093	6598	635.59	4.20	633.19	Re-installed 9/22/06, resurveyed 9/27/06
PGCS Piezometer Sets						
P81	5577	7581	636.19	3.54	632.65	
P82	5577	7572	635.77	3.54	632.23	
P83	5577	7561.6	635.95	3.70	632.25	
P84	5322	7603	634.35	2.60	631.75	
P85	5326	7594	634.08	2.18	631.90	
P86	5329	7585	634.41	2.62	631.79	
P87	5121	7466	633.88	4.41	629.47	
P88	5130	7460	633.90	2.49	631.41	
P89	5137	7454	634.02	2.60	631.42	
P90	4881	7152	634.45	3.31	631.14	
P91	4889	7145	634.59	3.43	631.16	
P92	4896	7138.1	633.87	3.05	630.82	

Notes:
All depth measurements and elevations are in units of feet.
Elevation is in feet above mean sea level.
TOC = top of casing
NM = not measured

Table 1
Groundwater Elevation Data - September 2008
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			September 19, 2008		Notes
	East	North	TOC	Level	Elevation	
BWES Water Level and Piezometer Pairs						
P93	5136	7067	639.05	6.74	632.31	
P94	5146	7061	640.99	12.03	628.96	
P95	5146	6532	638.58	5.68	632.90	
P96	5156	6537	641.26	15.39	625.87	
P105	5885	6678	638.86	2.26	636.60	
P106	5871	6685	638.10	10.39	627.71	
P107	5766	7339	637.42	2.66	634.76	
P108	5757	7324	638.13	6.05	632.08	
P109	5740	6387	644.30	7.75	636.55	
P110	5705	6382	647.68	19.65	628.03	
P111	5551	5950	650.03	14.21	635.82	
P112	5525	5960	653.36	26.52	626.84	
P113	5309	5693	657.53	30.88	626.65	
ORCPZ102	5331	5612	652.47	17.88	634.59	
P114	5035	5729	653.69	26.70	626.99	
P115	4970	5708	652.50	18.28	634.22	
P116	5031	6087	646.26	19.32	626.94	
P117	5014	6087	643.93	9.69	634.24	
P118	5402	6539	645.52	18.01	627.51	

Notes:
All depth measurements and elevations are in units of feet.
Elevation is in feet above mean sea level.
TOC = top of casing

Table 1
Groundwater Elevation Data - September 2008
American Chemical Service NPL Site
Griffith, Indiana

Monitoring Point Designation	Reference Points			September 19, 2008		Notes
	East	North	TOC	Level	Elevation	
Lower Aquifer Wells						
MW07	6113	6732	641.46	17.33	624.13	
MW08	5934	7506	640.43	17.77	622.66	
MW09R	4893	6990	639.05	14.81	624.24	
MW10C	5229	7554	637.45	11.49	625.96	
MW23	4717	7404	633.31	9.05	624.26	
MW24	4596	8033	635.22	11.35	623.87	
MW28	5657	5695.6	648.77	23.92	624.85	
MW50	5269	5383	649.43	24.52	624.91	
MW51	5198	7767	634.16	10.43	623.73	
MW52	4996	7814	632.74	8.90	623.84	
MW54R	5589.8	7592.2	637.51	13.66	623.85	
M4D	4949	6538	633.32	8.91	624.41	

Monitoring Point Designation	Reference Points			September 19, 2008		Notes
	East	North	TOC	Level	Elevation	
Sentinel Wells						
MW58	7937.20	8164.36	635.10	11.45	623.65	
MW59	5032.32	8140.71	636.22	12.61	623.61	

Notes:
All depth measurements and elevations are in units of feet.
Elevation is in feet above mean sea level.
TOC = top of casing

Table 2
Field Parameter Data - September 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	pH (std. units)	Electrical Conductivity (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
Upper Aquifer Monitoring Wells						
MW06	7.59	2.4	15.9	4.5	0.00	-48
MW11	6.82	0.28	15.7	4.1	0.00	-5
MW14	7.03	0.26	16.7	5.6	1.10	59
MW15	8.06	2.7	15.8	1.8	0.00	-122
MW17	7.45	0.58	18.2	5.3	8.18	13
MW19	8.31	2.9	18.5	4.3	0.80	-169
MW42	7.68	1.0	16.5	5.3	0.00	-78
MW43	7.21	1.6	17.9	3.8	0.00	-98
MW44	NM	NM	NM	NM	NM	NM
MW45	7.89	0.86	20.2	3.4	0.00	-143
MW48	8.36	1.3	16.8	0.5	0.00	-147
MW49	7.54	1.4	16.8	3.0	0.00	-140
Residential Wells						
PW-B	8.47	0.82	17.2	0.75	0.00	-195
PW-B[1]	8.49	1.00	15.9	0.00	0.00	-138
PW-C	8.37	0.84	15.2	0.95	5.83	-159
PW-C[1]	8.48	1.03	15.6	0.06	0.00	-131
PW-D	8.39	0.83	15.9	0.95	0.00	-169
PW-D[1]	8.56	0.98	13.5	1.39	0.00	-143
PW-T	8.10	0.89	14.9	0.55	0.00	-148

Notes:

Values are those recorded upon stabilization during groundwater purging

mS/cm = milliSiemens per centimeter

^oC = Degrees Centrigrade

NTU = nephelometric turbidity units

mg/L = milligrams per liter

mV = millivolts

NM = Not measured due to damaged well casing. MW44 could not be sampled.

1 = Residential wells PW-B, PW-C, and PW-D were re-sampled on October 17, 2008

Table 2
Field Parameter Data - September 2008
American Chemical Service NPL Site
Griffith, Indiana

Well ID	pH (std. units)	Electrical Conductivity (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
Lower Aquifer Monitoring Wells						
MW08	8.67	0.55	13.5	6.40	0.00	-187
MW09R	9.34	0.79	13.7	4.4	0.00	-225
MW10C	8.04	1.3	12.7	5.70	0.00	-154
MW23	8.12	1.8	12.6	0.35	0.00	-116
MW28	8.23	1.0	14.1	3.7	0.00	-138
MW29	8.29	0.95	13.0	1.7	0.00	-135
MW30	8.20	1.0	14.7	1.1	0.00	-170
MW31	8.95	0.85	12.7	3.6	0.00	-162
MW32	7.92	1.3	12.6	1.9	0.00	-148
MW33	7.55	1.5	12.2	0.0	0.00	-115
MW51	8.11	1.1	14.9	2.4	0.00	-163
MW52	7.97	1.7	15.5	2.5	0.00	-174
MW53	8.88	0.37	14.0	8.7	0.00	-170
MW54R	8.51	1.3	14.2	13	0.00	-193
MW55	8.38	1.1	14.4	9.8	3.43	-141
MW56	8.35	1.1	20.9	4.1	0.00	-167
MW58	7.59	3.2	16.6	5.7	0.00	-140
MW59	7.67	2.4	14.5	8.9	0.00	-125

Notes:

Values are those recorded upon stabilization during groundwater purging

mS/cm = milliSiemens per centimeter

^oC = Degrees Centrigrade

NTU = nephelometric turbidity units

mg/L = milligrams per liter

mV = millivolts

Table 3
Summary of Groundwater Sampling Activities - September 2008
American Chemical Service, Inc. NPL Site
Griffith, Indiana

Monitoring Well ID	Location with Respect to Area of Groundwater Contamination	Date Sampled	Indicator VOCs	Full Scan	Quality Control Sample ID
Upper Aquifer Monitoring Wells					
MW06	Interior	9/24/2008	X		DUP03
MW11	Upgradient	9/23/2008	X		
MW14	Downgradient	9/24/2008	X		
MW15	Downgradient	9/24/2008	X		
MW17	Upgradient	9/22/2008	X		
MW19	Interior	9/24/2008	X		
MW42	Downgradient	9/25/2008	X		
MW43	Downgradient	9/25/2008	X		
MW44	Downgradient	NS			
MW45	Interior	9/25/2008	X		
MW48	Interior	9/25/2008	X		
MW49	Interior	9/25/2008	X		

Notes:

X - Indicates sample was analyzed for selected parameter.

Indicator Volatile Organic Compounds (VOCs) - Includes the parameters 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, benzene, chloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, trans-1,2-dichloroethene, and vinyl chloride.

DUP - Duplicate sample

MS/MSD - Matrix spike/matrix spike duplicate

NS - Not sampled due to damaged well casing.

Table 3
Summary of Groundwater Sampling Activities - September 2008
American Chemical Service, Inc. NPL Site
Griffith, Indiana

Monitoring Well ID	Location with Respect to Area of Groundwater Contamination	Date Sampled	Indicator VOCs	Full Scan	Quality Control Sample ID
Lower Aquifer Monitoring Wells					
MW08	Downgradient	9/23/2008	X		
MW09R	Interior	9/24/2008	X		
MW10C	Interior	9/24/2008	X		
MW23	Downgradient	9/24/2008	X		
MW28	Upgradient	9/22/2008	X		
MW29	Interior	9/24/2008	X		
MW30	Downgradient	9/23/2008	X		
MW31	Downgradient	9/23/2008	X		
MW32	Downgradient	9/23/2008	X		MS/MSD
MW33	Downgradient	9/23/2008	X		
MW51	Downgradient	9/23/2008	X		
MW52	Downgradient	9/23/2008	X		
MW53	Downgradient	9/23/2008	X		DUP02
MW54R	Downgradient	9/22/2008	X		DUP01
MW55	Downgradient	9/22/2008	X		
MW56	Interior	9/23/2008	X		
MW58	Downgradient	9/22/2008	X		MS/MSD
MW59	Downgradient	9/22/2008	X		
Residential Wells					
PW-A	Sidegradient	NS			
PW-B	Sidegradient	9/29/2008		X	
PW-C	Sidegradient	9/29/2008		X	DUP01
PW-D	Sidegradient	9/29/2008		X	
PW-T	Sidegradient	9/29/2008		X	MS/MSD

Notes:

X - Indicates sample was analyzed for selected parameter.

Indicator Volatile Organic Compounds (VOCs) - Includes the parameters 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, benzene, chloroethane, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, trans-1,2-dichloroethene, and vinyl chloride.

DUP - Duplicate sample

MS/MSD - Matrix spike/matrix spike duplicate

NS - Not sampled because residence is no longer inhabited.

Table 4
Summary of Detections in Samples from Upper Aquifer Monitoring Wells - September 2008
American Chemical Service NPL Site
Griffith, Indiana

	MW06			MW11			MW14			MW15			MW17			MW19		
	Interior			Upgradient			Downgradient			Downgradient			Upgradient			Interior		
Analyte	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***
Volatile Organic Compounds																		
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	**160**		*320*	5	U/		5	U/		**1.3**	J/	*10*	5	U/		**5.1**		*10*
Chloroethane	**36**		*720*	10	U/		10	U/		10	U/		10	U/UJ		**10**		*20*
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/		**1.7**	J/	*NA*	5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		**1.3**	J/	*10*	5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	10	U/		10	U/		10	U/		10	U/		10	U/		10	U/	

Notes:

All concentrations in micrograms per liter (ug/l)

BV = Baseline Value (only provided for detected compounds).

NS = Not sampled for particular analyte

X / = Data qualifier added by laboratory

/X = Data qualifier added by data validator

U = Compound was analyzed for but not detected

J = Estimated value; concentration is below reporting limit

UJ = Analyte is not detected and the indicated reporting limit is an estimated value

Bold result indicates the compound was detected

JEF/ACB/app
J:\405\0577 ACS\0301 GW Mon\September 2008\Report\Tables\Sept08-T4 UAresults.xls\UA Val
4050577.03010602

Table 4
Summary of Detections in Samples from Upper Aquifer Monitoring Wells - September 2008
American Chemical Service NPL Site
Griffith, Indiana

	MW42			MW43			MW44			MW45			MW48			MW49		
	Downgradient			Downgradient			Downgradient			Interior			Interior			Interior		
Analyte	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***
Volatile Organic Compounds																		
1,1-Dichloroethane	5	U/		5	U/		NS			5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		NS			5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		NS			5	U/		5	U/		5	U/	
Benzene	5	U/		5	U/		NS			5	U/		**46**		*9,500*	**120**		*6,750*
Chloroethane	10	U/		10	U/		NS			10	U/		10	U/		10	U/	
cis-1,2-Dichloroethene	5	U/		5	U/		NS			5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		NS			5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		NS			5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		NS			5	U/		5	U/		5	U/	
Vinyl Chloride	10	U/		10	U/		NS			10	U/		10	U/		10	U/	

Notes:

All concentrations in micrograms per liter (ug/l)

BV = Baseline Value (only provided for detected compounds).

NS = Not sampled for particular analyte

X / = Data qualifier added by laboratory

/X = Data qualifier added by data validator

U = Compound was analyzed for but not detected

J = Estimated value; concentration is below reporting limit

UJ = Analyte is not detected and the indicated reporting limit is an estimated value

Bold result indicates the compound was detected

JEF/ACB/app
J:\405\0577 ACS\0301 GW Mon\September 2008\Report\Tables\Sept08-T4 UAresults.xls\UA Val
4050577.03010602

Table 5
Summary of Detections in Samples from Lower Aquifer Monitoring Wells - September 2008
American Chemical Service NPL Site
Griffith, Indiana

	MW08			MW09R			MW10C			MW23			MW28		
	Downgradient			Interior			Interior			Downgradient			Upgradient		
Analyte	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***
Volatile Organic Compounds															
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		**5.8**		*310*	**340**		*150*	5	U/		5	U/	
Chloroethane	10	U/UJ		10	U/		**280**		*420*	10	U/		10	U/UJ	
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	10	U/		**1.1**	J/	*200*	10	U/		10	U/		10	U/	

Notes:

All concentrations in micrograms per liter (ug/l)

BV = Baseline Value (only provided for detected compounds)

NA = Not available

X/ = Data qualifier added by laboratory

/X = Data qualifier added by data validator

U = Compound was analyzed for but not detected

J = Estimated value; concentration is below reporting limit

UJ = Analyte is not detected and the indicated reporting limit is an estimated value

Bold result indicates the compound was detected

Bold and Boxed results indicates an exceedance of the compound's baseline value

Table 5
Summary of Detections in Samples from Lower Aquifer Monitoring Wells - September 2008
American Chemical Service NPL Site
Griffith, Indiana

	MW29			MW30			MW31			MW32			MW33		
	Interior			Downgradient			Downgradient			Downgradient			Downgradient		
Analyte	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***
Volatile Organic Compounds															
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		5	U/		5	U/		5	U/		**4.5**	J/	*10*
Chloroethane	**40**		*10*	10	U/UJ		10	U/UJ		10	U/		10	U/UJ	
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		**1.7**	J/	*NA*
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	10	U/		10	U/		10	U/		10	U/		10	U/	

Notes:

All concentrations in micrograms per liter (ug/l)

BV = Baseline Value (only provided for detected compounds)

NA = Not available

X/ = Data qualifier added by laboratory

/X = Data qualifier added by data validator

U = Compound was analyzed for but not detected

J = Estimated value; concentration is below reporting limit

UJ = Analyte is not detected and the indicated reporting limit is an estimated value

Bold result indicates the compound was detected

Bold and Boxed results indicates an exceedance of the compound's baseline value

Table 5
Summary of Detections in Samples from Lower Aquifer Monitoring Wells - September 2008
American Chemical Service NPL Site
Griffith, Indiana

	MW51			MW52			MW53			MW54R			MW55		
	Downgradient			Downgradient			Downgradient			Downgradient			Downgradient		
Analyte	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***	**Sep-08**		***BV***
Volatile Organic Compounds															
1,1-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/		5	U/		5	U/	
Benzene	5	U/		5	U/		**1.2**	J/	*10*	5	U/		5	U/	
Chloroethane	10	U/UJ		10	U/		10	U/		10	U/UJ		10	U/UJ	
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/		5	U/		5	U/	
Vinyl Chloride	10	U/		10	U/		10	U/		10	U/		10	U/	

Notes:

All concentrations in micrograms per liter (ug/l)

BV = Baseline Value (only provided for detected compounds)

NA = Not available

X/ = Data qualifier added by laboratory

/X = Data qualifier added by data validator

U = Compound was analyzed for but not detected

J = Estimated value; concentration is below reporting limit

UJ = Analyte is not detected and the indicated reporting limit is an estimated value

Bold result indicates the compound was detected

Bold and Boxed results indicates an exceedance of the compound's baseline value

Table 5
Summary of Detections in Samples from Lower Aquifer Monitoring Wells - September 2008
American Chemical Service NPL Site
Griffith, Indiana

Analyte	MW56 Interior Sep-08		BV	MW58 Downgradient Sep-08		BV	MW59 Downgradient Sep-08		BV
Volatile Organic Compounds									
1,1-Dichloroethane	5	U/		5	U/		5	U/	
1,1-Dichloroethene	5	U/		5	U/		5	U/	
1,2-Dichloroethane	5	U/		5	U/		5	U/	
Benzene	**13**		*NA*	5	U/		5	U/	
Chloroethane	**2.4**	J/J	*NA*	10	U/UJ		10	U/UJ	
cis-1,2-Dichloroethene	5	U/		5	U/		5	U/	
Tetrachloroethene	5	U/		5	U/		5	U/	
trans-1,2-Dichloroethene	5	U/		5	U/		5	U/	
Trichloroethene	5	U/		5	U/		5	U/	
Vinyl Chloride	10	U/		10	U/		10	U/	

Notes:

All concentrations in micrograms per liter (ug/l)

BV = Baseline Value (only provided for detected compounds)

NA = Not available

X / = Data qualifier added by laboratory

/X = Data qualifier added by data validator

U = Compound was analyzed for but not detected

J = Estimated value; concentration is below reporting limit

UJ = Analyte is not detected and the indicated reporting limit is an estimated value

Bold result indicates the compound was detected

Bold and Boxed results indicates an exceedance of the compound's baseline value

Table 6
Summary of Organic Compound Detections in Samples from Residential Wells - September and October 2008
American Chemical Service NPL Site
Griffith, Indiana

	U.S. EPA	PWA-32		PWB-32			PWC-32			RESDUP01-32			PWD-32			PWT-32		
Analyte	**MCL**	**Sep-08**	**RL**	**Sep-08**		**RL**	**Sep-08**		**RL**	**Sep-08**		**RL**	**Sep-08**		**RL**	**Sep-08**		**RL**
Volatile Organic Compounds																		
Acetone	NA	NS		**2.5**	J/UBJ	5	**4.0**	J/UBJ	5	**4.3**	J/UBJ	5		U/	5		U/UJ	5
Semi-Volatile Organic Compounds																		
Di-n-butyl phthalate	NA	NS		**23**		11		U/	11		U/	10		U/	10		U/	10
Phenol	NA	NS			U/	11	**4**	J/	11	**39**		10	**2.6**	J/	10		U/	10
Pyrene	NA	NS			U/	11		U/	11		U/	10	**1.3**	J/	10		U/	10
PCBs/Pesticides																		
delta-BHC	0.2	NS		**0.16**	JB/UB	1.1	**0.16**	JB/UB	1.1	**0.18**	JB/UB	1	**0.15**	JB/UB	1	**0.14**	JB/UB	1
Endrin aldehyde	NA	NS		**0.022**	JB/UB	1.1		U/	1.1	**0.01**	JB/UB	1	**0.01**	JB/UB	1		U/	1

Notes:

All results in micrograms per liter (ug/l)
Only detected compounds listed
Bold result indicates compound was detected
Blank cell indicates compound not detected in that sample
RESDUP01 = Duplicate sample (collected from location PW-C)
PCBs = Poly-Chlorinated Biphenyls
MCL = Maximum Contaminant Level (ug/l)
NA = MCL does not exist for this analyte
NS = Not sampled
RL = Reporting Limit
X / = Data qualifier added by laboratory
/*X* = Data qualifier added by validation
J = Estimated value; concentration detected is below reporting limit
JB = Compound detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
U = Compound not detected above reporting limit
UB = Compound is not detected at or above the indicated concentration due to blank contamination
UJ = Analyte is not detected and the indicated reporting limit is an estimated value
UBJ = Analyte is not detected at or avove the indicated concentration due to blank contamination. However, the calibration was out of range.
Therefore the concentration is estimated.
RE = Re-sample

Table 6
Summary of Organic Compound Detections in Samples from Residential Wells - September and October 2008
American Chemical Service NPL Site
Griffith, Indiana

Analyte	U.S. EPA MCL	PWB-32RE Oct-08		RL	PWC-32RE Oct-08		RL	RESDUP01-32RE Oct-08		RL	PWD-32RE Oct-08		RL
Volatile Organic Compounds													
Acetone	NA	NS			NS			NS			NS		
Semi-Volatile Organic Compounds													
Di-n-butyl phthalate	NA	**4.7**	J/	10		U/	10		U/	10		U/	10
Phenol	NA		U/	10		U/	10		U/	10		U/	10
Pyrene	NA		U/	10		U/	10		U/	10		U/	10
PCBs/Pesticides													
delta-BHC	0.2	NS			NS			NS			NS		
Endrin aldehyde	NA	NS			NS			NS			NS		

Notes:

All results in micrograms per liter (ug/l)
Only detected compounds listed
Bold result indicates compound was detected
Blank cell indicates compound not detected in that sample
RESDUP01 = Duplicate sample (collected from location PW-C)
PCBs = Poly-Chlorinated Biphenyls
MCL = Maximum Contaminant Level (ug/l)
NA = MCL does not exist for this analyte
NS = Not sampled
RL = Reporting Limit
X / = Data qualifier added by laboratory
/*X* = Data qualifier added by validation
J = Estimated value; concentration detected is below reporting limit
JB = Compound detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
U = Compound not detected above reporting limit
UB = Compound is not detected at or above the indicated concentration due to blank contamination
UJ = Analyte is not detected and the indicated reporting limit is an estimated value
UBJ = Analyte is not detected at or avove the indicated concentration due to blank contamination. However, the calibration was out of range. Therefore the concentration is estimated.
RE = Re-sample

Table 7
Summary of Inorganic Results in Samples from Residential Wells - September and October 2008
American Chemical Services NPL Site
Griffith, Indiana

	U.S. EPA	MDL	PQL	PWA-32			PWB-32			PWC-32			RESDUP01-32			PWD-32			PWT-32		
Analyte	**MCL**	**(ug/l)**	**(ug/l)**	**Sep-08**	**LQ**	**DV**	**Sep-08**	**LQ**	**DV**	**Sep-08**	**LQ**	**DV**	**Sep-08**	**LQ**	**DV**	**Sep-08**	**LQ**	**DV**	**Sep-08**	**LQ**	**DV**
Aluminum	NA	4.3	200	NS			**5.9**	J			U			U			U			U	
Antimony	6	0.038	6	NS			**0.043**	J	UB		U		**0.58**	J	UB	**0.15**	J	UB		U	
Arsenic	10	0.31	10	NS				U			U		**2.5**	J	B	**1.2**	J	UB	**1**	J	UB
Barium	2,000	0.058	2	NS			**120**		B	**140**		B	**130**		B	**130**		B	**140**		B
Beryllium	4	0.96	1	NS				U			U			U			U			U	
Cadmium	5	0.0044	2	NS			**0.025**	J	UB	**0.058**	J	UB	**0.078**	J	UB	**0.0067**	J	UB	**0.01**	J	UB
Calcium	NA	18	500	NS			**77,000**	B	B	**81,000**	B	B	**83,000**	B	B	**88,000**	B	B	**86,000**	B	B
Chromium	100	0.83	4	NS			**2.8**	J	UB	**3.1**	J	UB	**3.7**	J	UB	**4.4**		UB	**2.6**	J	UB
Cobalt	NA	0.0019	3	NS			**0.2**	J		**0.21**	J		**0.25**	J		**0.22**	J		**0.23**	J	
Copper	1,300	0.088	10	NS			**12**			**1.7**	J		**6.4**	J		**1.7**	J		**0.19**	J	
Cyanide	200	5	5	NS				U			U			U			U			U	
Iron	NA	21	50	NS			**2,600**			**2,400**			**2,400**			**2,400**			**2,400**		
Lead	15	0.12	7.5	NS			**1.1**	J			U		**0.59**	J		**0.29**	J			U	
Magnesium	NA	1.7	500	NS			**38,000**		B	**46,000**		B	**48,000**		B	**43,000**		B	**48,000**		B
Manganese	NA	0.074	2	NS			**58**		JB	**34**		JB	**34**		JB	**33**		JB	**36**		JB
Mercury	2	0.03	0.2	NS				U			U			U			U			U	
Nickel	NA	0.031	10	NS				U			U			U			U			U	
Potassium	NA	4.0	500	NS			**1,600**			**2,100**			**2,200**			**2,200**			**2,400**		
Selenium	50	0.043	5	NS				U			U			U			U			U	
Silver	NA	0.0025	10	NS				U			U		**0.033**	J			U			U	
Sodium	NA	4.5	500	NS			**22,000**		B	**15,000**		B	**16,000**		B	**21,000**		B	**18,000**		B
Thallium	2	0.0065	2	NS			**0.75**	J	UB	**0.36**	J	UB	**3.3**		B	**3.4**		B	**0.18**	J	UB
Vanadium	NA	1.1	8	NS				U		**2.7**	J			U			U		**2.2**	J	
Zinc	NA	3.8	20	NS			**14**	J		**12**	J		**11**	J		**25**			**11**	J	

Notes:
All results in micrograms per liter (ug/l)
A blank cell indicates parameter not detected
MCL = Maximum Contaminant Level (ug/l)
NA = MCL does not exist for this analyte
NS = Not sampled
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
LQ = Data qualifier added by laboratory
DV = Data qualifier added by validation
NS = Not sampled
RESDUP01 = Duplicate sample (collected from location PW-C)
Bold = parameter is detected
RE = Re-sample
- detection exceeds EPA MCL

LQ Flags
U = Compound was not detected above the PQL
J = Indicates an estimated value
B = Compound or analyte was positively detected in a sample and in an associated blank

DV Flags
B = Compound or analyte was positively detected in a sample and in an associated blank
JB = Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
UB = Compound is not detected at or above indicated concentration due to blank contamination

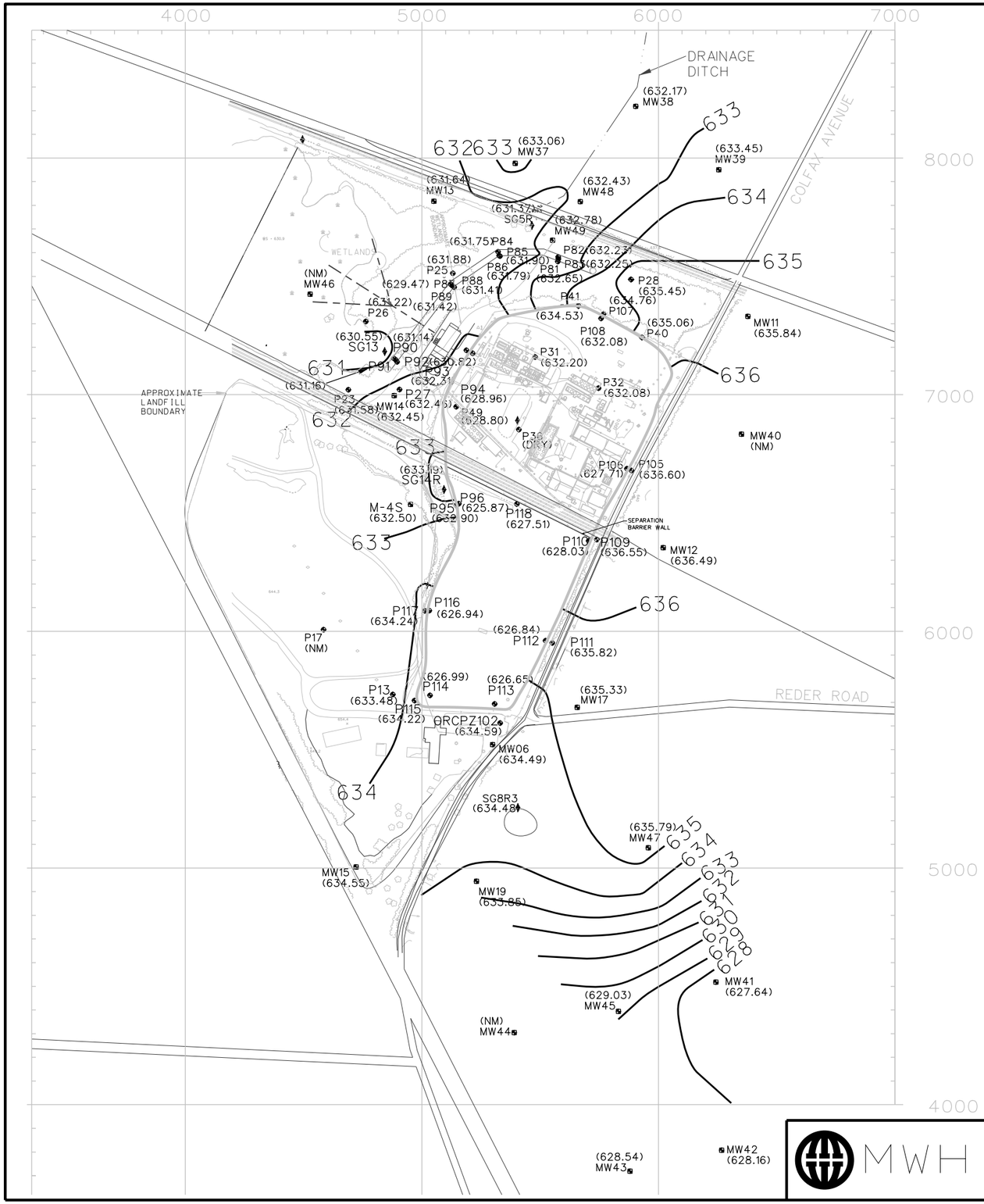
Table 7
Summary of Inorganic Results in Samples from Residential Wells - September and October 2008
American Chemical Services NPL Site
Griffith, Indiana

Analyte	U.S. EPA MCL	MDL (ug/l)	PQL (ug/l)	PWB-32RE			PWC-32RE			RESDUP01-32RE			PWD-32RE		
				Oct-08	LQ	DV	Oct-08	LQ	DV	Oct-08	LQ	DV	Oct-08	LQ	DV
Aluminum	NA	4.3	200	NS			NS			NS			NS		
Antimony	6	0.038	6	NS			NS			NS			NS		
Arsenic	10	0.31	10	NS			NS			NS			NS		
Barium	2,000	0.058	2	NS			NS			NS			NS		
Beryllium	4	0.96	1	NS			NS			NS			NS		
Cadmium	5	0.0044	2	NS			NS			NS			NS		
Calcium	NA	18	500	NS			NS			NS			NS		
Chromium	100	0.83	4	NS			NS			NS			NS		
Cobalt	NA	0.0019	3	NS			NS			NS			NS		
Copper	1,300	0.088	10	NS			NS			NS			NS		
Cyanide	200	5	5	NS			NS			NS			NS		
Iron	NA	21	50	NS			NS			NS			NS		
Lead	15	0.12	7.5	NS			NS			NS			NS		
Magnesium	NA	1.7	500	NS			NS			NS			NS		
Manganese	NA	0.074	2	NS			NS			NS			NS		
Mercury	2	0.03	0.2	NS			NS			NS			NS		
Nickel	NA	0.031	10	NS			NS			NS			NS		
Potassium	NA	4.0	500	NS			NS			NS			NS		
Selenium	50	0.043	5	NS			NS			NS			NS		
Silver	NA	0.0025	10	NS			NS			NS			NS		
Sodium	NA	4.5	500	NS			NS			NS			NS		
Thallium	2	4.3	50	NS			**5.9**	J	UB		U			U	
Vanadium	NA	1.1	8	NS			NS			NS			NS		
Zinc	NA	3.8	20	NS			NS			NS			NS		

Notes:
All results in micrograms per liter (ug/l)
A blank cell indicates parameter not detected
MCL = Maximum Contaminant Level (ug/l)
NA = MCL does not exist for this analyte
NS = Not sampled
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
LQ = Data qualifier added by laboratory
DV = Data qualifier added by validation
NS = Not sampled
RESDUP01 = Duplicate sample (collected from location PW-C)
Bold = parameter is detected
RE = Re-sample
- detection exceeds EPA MCL

LQ Flags
U = Compound was not detected above the PQL
J = Indicates an estimated value
B = Compound or analyte was positively detected in a sample and in an associated blank

DV Flags
B = Compound or analyte was positively detected in a sample and in an associated blank
JB = Detected in the associated Method Blank at a concentration between the Reporting Limit and Method Detection Limit
UB = Compound is not detected at or above indicated concentration due to blank contamination



LEGEND

	BARRIER WALL
	PERIMETER GROUND WATER CONTAINMENT SYSTEM
MW13	UPPER AQUIFER WELL LOCATION AND DESIGNATION
P25	PIEZOMETER LOCATION AND DESIGNATION
SG5R	STAFF GAUGE LOCATION AND DESIGNATION
(635.84)	GROUNDWATER ELEVATION
(DRY)	WELL WAS DRY
(NM)	GROUNDWATER ELEVATION WAS NOT MEASURED
636	GROUNDWATER ELEVATION CONTOUR

NOTES:

1. P93 AND P94 WERE INSTALLED IN NOVEMBER 2004.
2. GROUNDWATER ELEVATIONS WERE MEASURED ON SEPTEMBER 19, 2008.
3. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.

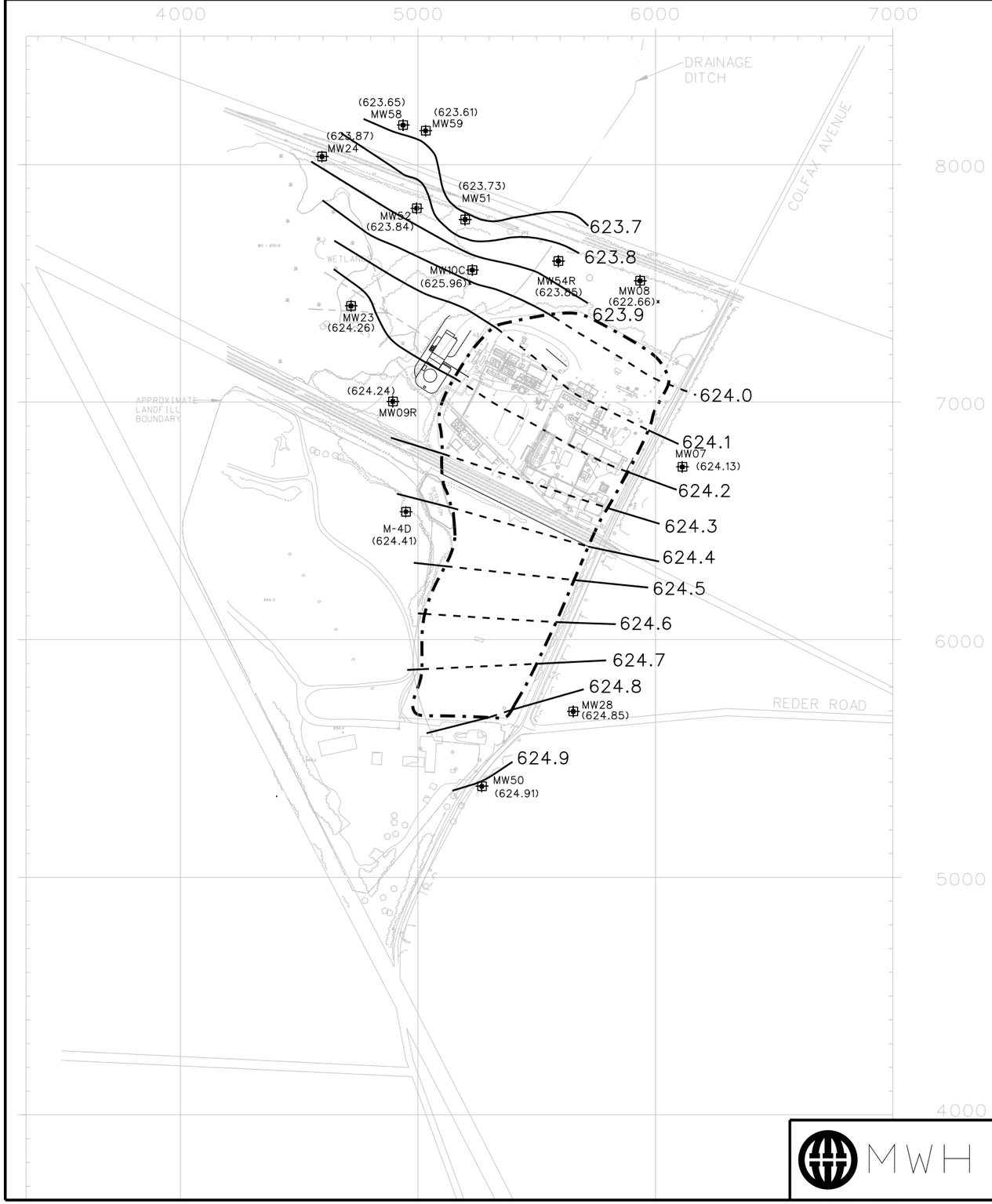
N

0 500 1000

SCALE IN FEET

MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	UPPER AQUIFER WATER TABLE CONTOUR MAP SEPTEMBER 2008	FIGURE
	AS SHOWN			1

JOB No. 4050577 FILE: \\uschi4s02\warrenville\jobs\405\0577 ACS\Master Drawings folder\0301\September 2008 GW report\Sept08_Fig 1.dgn Plot Date: 07-MAY-2009 09:22 DPP/JEF



LEGEND

	BARRIER WALL
MW52	LOWER AQUIFER WELL LOCATION AND DESIGNATION
(624.13)	GROUNDWATER ELEVATION
*	ELEVATION NOT USED IN CONTOURING
624.0	GROUNDWATER ELEVATION CONTOUR (DASHES WHERE APPROXIMATE)

NOTES:

1. GROUNDWATER ELEVATIONS WERE MEASURED ON SEPTEMBER 19, 2008.
2. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.

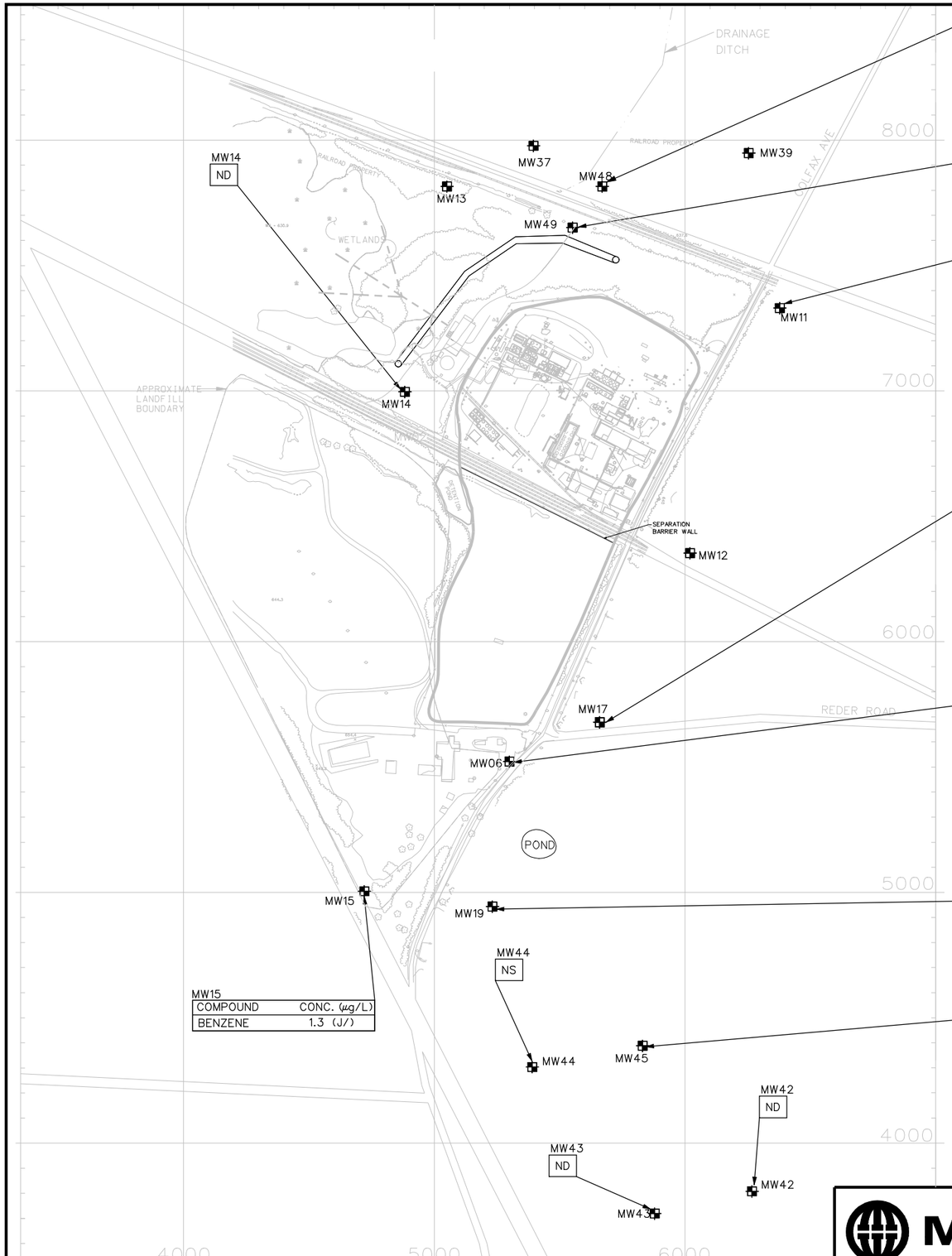
N

0 500 1000

SCALE IN FEET

MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	LOWER AQUIFER POTENTIOMETRIC SURFACE CONTOUR MAP SEPTEMBER 2008	FIGURE
	AS SHOWN			2

JOB No. 4050577 FILE: \\uschi4s02\warrenville\jobs\405\0577 ACS\Master Drawings folder\0301\September 2008 GW report\Sept08_Fig 2.dgn Plot Date: 07-MAY-2009 09:21 JEF/DPP



MW48

COMPOUND	CONC. (µg/L)
BENZENE	46

MW49

COMPOUND	CONC. (µg/L)
BENZENE	120

MW11

COMPOUND	CONC. (µg/L)
TCE	1.3 (J/)

MW17

COMPOUND	CONC. (µg/L)
PCE	1.7 (J/)

MW06

COMPOUND	CONC. (µg/L)
BENZENE	160
CHLOROETHANE	36

MW19

COMPOUND	CONC. (µg/L)
BENZENE	5.1
CHLOROETHANE	10

MW15

COMPOUND	CONC. (µg/L)
BENZENE	1.3 (J/)

LEGEND

MW11	UPPER AQUIFER WELL LOCATION AND DESIGNATION
	BARRIER WALL
	PERIMETER GROUND WATER CONTAINMENT SYSTEM
µg/L	MICROGRAMS PER LITER
(J)	INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)
ND	NO COMPOUNDS DETECTED
NS	NOT SAMPLED
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE

N

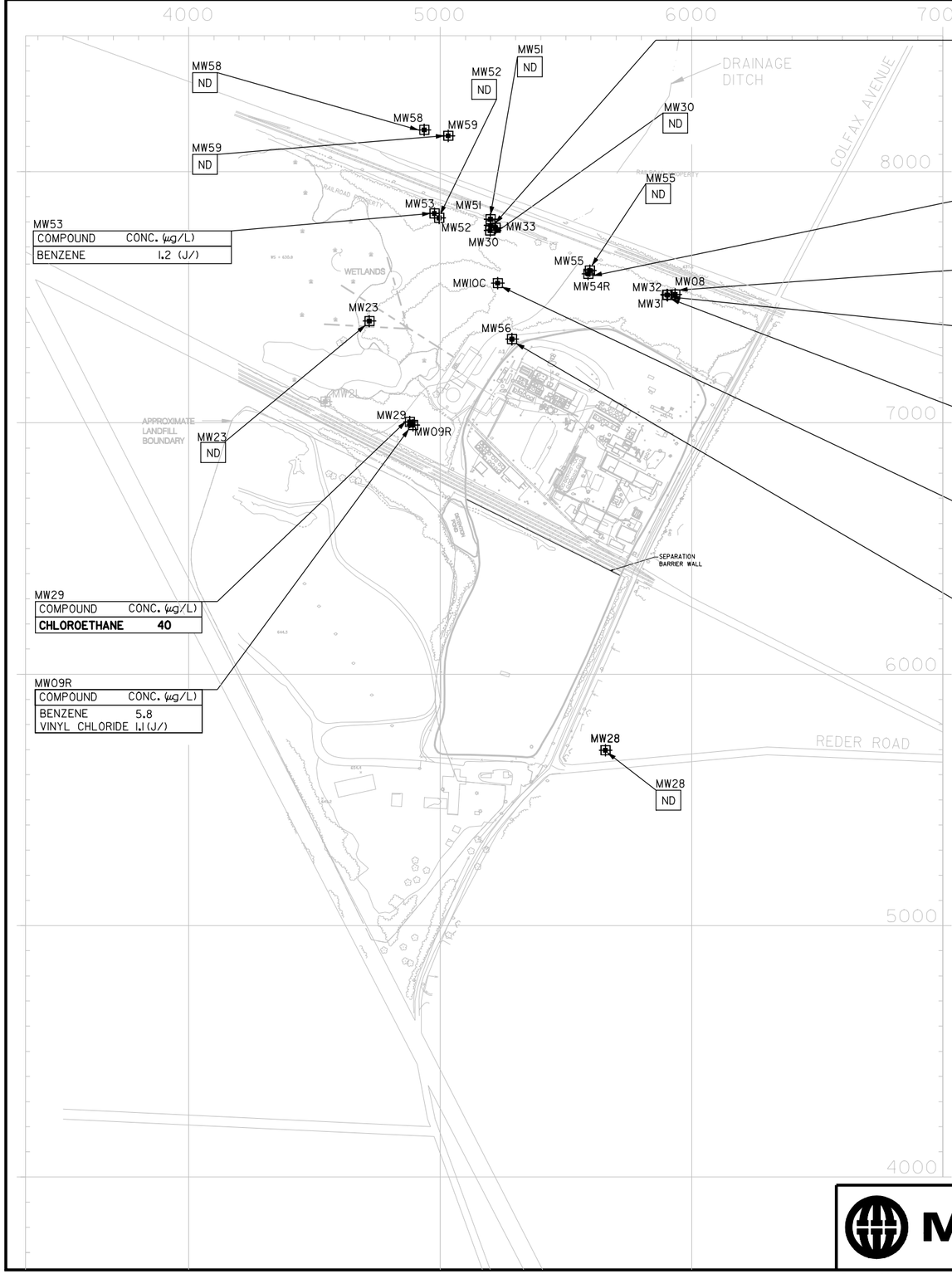
0 500 1000

SCALE IN FEET

MWH

SCALE		FIGURE
AS SHOWN	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	DETECTED COMPOUNDS IN UPPER AQUIFER MONITORING WELLS SEPTEMBER 2008	3

JOB No. 4050577 FILE: \\uschi4s02\warrenville\jobs\405\0577 ACS\Master Drawings folder\0301\September 2008 GW report\Sept08_Fig 3.dgn Plot Date: 26-JAN-2009 09:25 JEF/TPC



LEGEND

	BARRIER WALL
MW53	LOWER AQUIFER WELL LOCATION AND DESIGNATION
µg/L	MICROGRAMS PER LITER
(J)	INDICATES AN ESTIMATED VALUE (LAB/VALIDATED)
ND	NO COMPOUNDS DETECTED
CIS-1,2-DCE	CIS-1,2-DICHLOROETHENE

NOTE: CONCENTRATIONS IN BOLD EXCEEDED BASELINE VALUES

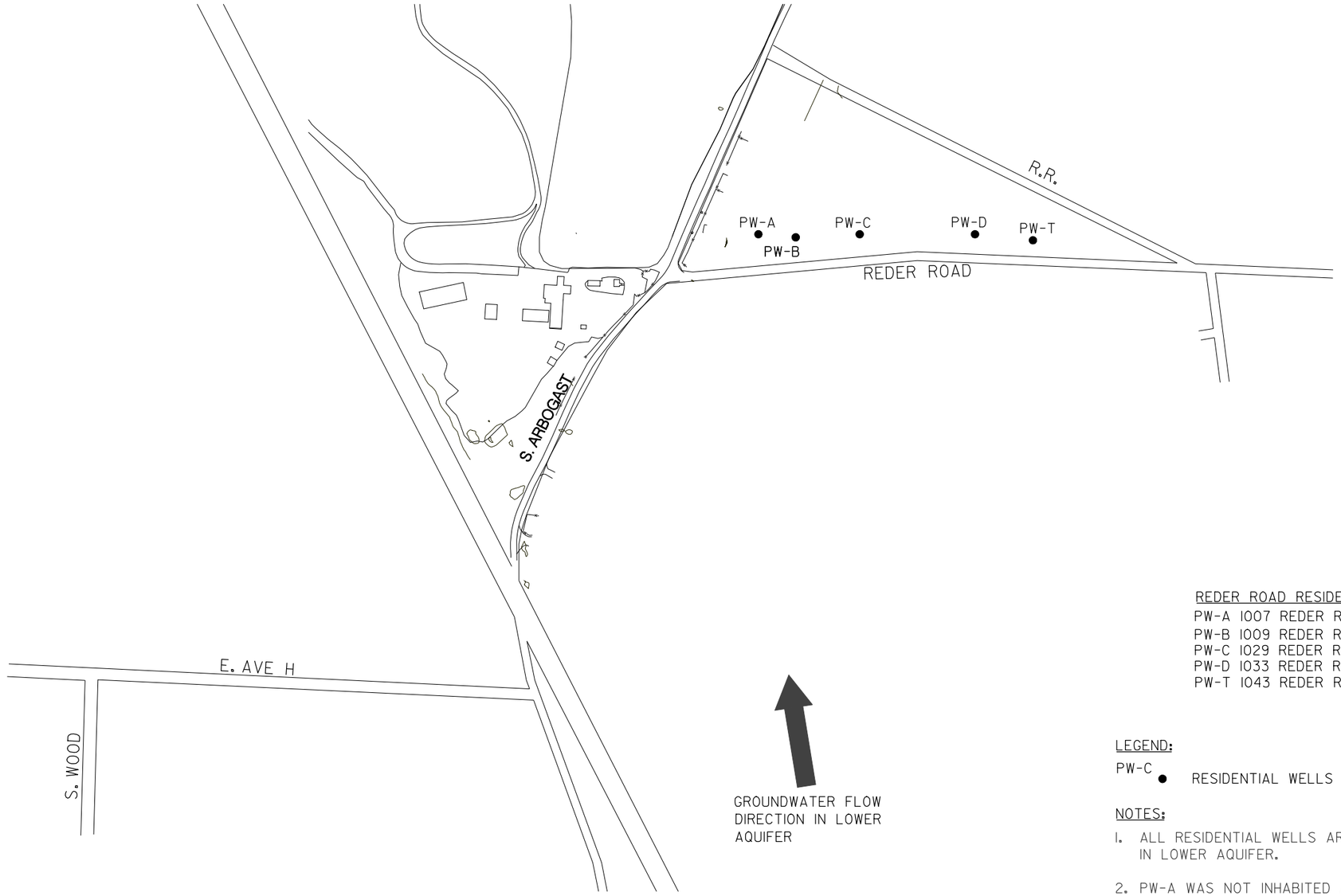
N

0 500 1000

SCALE IN FEET

MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	DETECTED COMPOUNDS IN LOWER AQUIFER MONITORING WELLS SEPTEMBER 2008	FIGURE
	AS SHOWN			4

JOB No. 4050577 FILE: \\uschi4s02\warrenville\jobs\405\0577 ACS\Master Drawings folder\0301\September 2008 GW report\Sept08_Fig 4.dgn Plot Date: 23-JAN-2009 11:58 JEF/TPC



REDER ROAD RESIDENTIAL WELLS

PW-A 1007 REDER ROAD
PW-B 1009 REDER ROAD
PW-C 1029 REDER ROAD
PW-D 1033 REDER ROAD
PW-T 1043 REDER ROAD

LEGEND:

PW-C ● RESIDENTIAL WELLS

NOTES:

1. ALL RESIDENTIAL WELLS ARE SCREENED IN LOWER AQUIFER.
2. PW-A WAS NOT INHABITED AT TIME OF SAMPLING. THEREFORE, NO SAMPLE WAS COLLECTED AT THIS LOCATION.

N

0 500 1000

SCALE IN FEET

MWH	SCALE	AMERICAN CHEMICAL SERVICE, INC. NPL SITE GRIFFITH, INDIANA	RESIDENTIAL WELL LOCATIONS SAMPLED DURING 2008	FIGURE
	AS SHOWN			5

JOB No. 4050577 FILE: \\uschl4s02\warrenville\jobs\405\0577 ACS\Master Drawings folder\0301\September 2008 GW report\Sept08_Fig 5.dgn Plot Date: 23-JAN-2009 11:59 JEF/TPC

Appendix A

Comparison of September and October 2008 Results to Maximum Baseline Concentrations

Monitoring Wells

VOC Results – September 2008

Residential Wells

VOC Results – September 2008
SVOC Results – September 2008
Pesticide and PCB Results – September 2008
Inorganic Results – September 2008
Cyanide Results – September 2008

SVOC Results – October 2008
Inorganic Results – October 2008

Monitoring Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-06	1,1-Dichloroethane	UG/L	21		U		5
MW-06	1,1-Dichloroethene	UG/L	50		U		5
MW-06	1,2-Dichloroethane	UG/L	50		U		5
MW-06	Benzene	UG/L	320	160			5
MW-06	Chloroethane	UG/L	720	36			10
MW-06	cis-1,2-Dichloroethene	UG/L			U		5
MW-06	Tetrachloroethene	UG/L	50		U		5
MW-06	trans-1,2-Dichloroethene	UG/L			U		5
MW-06	Trichloroethene	UG/L	50		U		5
MW-06	Vinyl chloride	UG/L	50		U		10
MW-08	1,1-Dichloroethane	UG/L	10		U		5
MW-08	1,1-Dichloroethene	UG/L	10		U		5
MW-08	1,2-Dichloroethane	UG/L	10		U		5
MW-08	Benzene	UG/L	10		U		5
MW-08	Chloroethane	UG/L	10		U	UJ	10
MW-08	cis-1,2-Dichloroethene	UG/L			U		5
MW-08	Tetrachloroethene	UG/L	10		U		5
MW-08	trans-1,2-Dichloroethene	UG/L			U		5
MW-08	Trichloroethene	UG/L	10		U		5
MW-08	Vinyl chloride	UG/L	10		U		10
MW-09R	1,1-Dichloroethane	UG/L	200		U		5
MW-09R	1,1-Dichloroethene	UG/L	200		U		5
MW-09R	1,2-Dichloroethane	UG/L	200		U		5
MW-09R	Benzene	UG/L	310	5.8			5
MW-09R	Chloroethane	UG/L	2,900		U		10
MW-09R	cis-1,2-Dichloroethene	UG/L			U		5
MW-09R	Tetrachloroethene	UG/L	200		U		5
MW-09R	trans-1,2-Dichloroethene	UG/L			U		5
MW-09R	Trichloroethene	UG/L	200		U		5
MW-09R	Vinyl chloride	UG/L	200	1.1	J		10
MW-10C	1,1-Dichloroethane	UG/L	150		U		5
MW-10C	1,1-Dichloroethene	UG/L	150		U		5
MW-10C	1,2-Dichloroethane	UG/L	150		U		5
MW-10C	Benzene	UG/L	150	**340**			50
MW-10C	Chloroethane	UG/L	420	280			100
MW-10C	cis-1,2-Dichloroethene	UG/L			U		5
MW-10C	Tetrachloroethene	UG/L	150		U		5
MW-10C	trans-1,2-Dichloroethene	UG/L			U		5
MW-10C	Trichloroethene	UG/L	150		U		5
MW-10C	Vinyl chloride	UG/L	129		U		10
MW-11	1,1-Dichloroethane	UG/L	10		U		5
MW-11	1,1-Dichloroethene	UG/L	10		U		5
MW-11	1,2-Dichloroethane	UG/L	10		U		5
MW-11	Benzene	UG/L	10		U		5
MW-11	Chloroethane	UG/L	10		U		10
MW-11	cis-1,2-Dichloroethene	UG/L			U		5

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptNewResults10VOCs]
4050577

Monitoring Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-11	Tetrachloroethene	UG/L	10		U		5
MW-11	trans-1,2-Dichloroethene	UG/L			U		5
MW-11	Trichloroethene	UG/L	10	1.3	J		5
MW-11	Vinyl chloride	UG/L	10		U		10
MW-14	1,1-Dichloroethane	UG/L	100		U		5
MW-14	1,1-Dichloroethene	UG/L	100		U		5
MW-14	1,2-Dichloroethane	UG/L	100		U		5
MW-14	Benzene	UG/L	41		U		5
MW-14	Chloroethane	UG/L	1,000		U		10
MW-14	cis-1,2-Dichloroethene	UG/L			U		5
MW-14	Tetrachloroethene	UG/L	100		U		5
MW-14	trans-1,2-Dichloroethene	UG/L			U		5
MW-14	Trichloroethene	UG/L	100		U		5
MW-14	Vinyl chloride	UG/L	100		U		10
MW-15	1,1-Dichloroethane	UG/L	10		U		5
MW-15	1,1-Dichloroethene	UG/L	10		U		5
MW-15	1,2-Dichloroethane	UG/L	10		U		5
MW-15	Benzene	UG/L	10	1.3	J		5
MW-15	Chloroethane	UG/L	10		U		10
MW-15	cis-1,2-Dichloroethene	UG/L			U		5
MW-15	Tetrachloroethene	UG/L	10		U		5
MW-15	trans-1,2-Dichloroethene	UG/L			U		5
MW-15	Trichloroethene	UG/L	10		U		5
MW-15	Vinyl chloride	UG/L	10		U		10
MW-17	1,1-Dichloroethane	UG/L			U		5
MW-17	1,1-Dichloroethene	UG/L			U		5
MW-17	1,2-Dichloroethane	UG/L			U		5
MW-17	Benzene	UG/L			U		5
MW-17	Chloroethane	UG/L			U	UJ	10
MW-17	cis-1,2-Dichloroethene	UG/L			U		5
MW-17	Tetrachloroethene	UG/L		1.7	J		5
MW-17	trans-1,2-Dichloroethene	UG/L			U		5
MW-17	Trichloroethene	UG/L			U		5
MW-17	Vinyl chloride	UG/L			U		10
MW-19	1,1-Dichloroethane	UG/L	10		U		5
MW-19	1,1-Dichloroethene	UG/L	10		U		5
MW-19	1,2-Dichloroethane	UG/L	10		U		5
MW-19	Benzene	UG/L	10	5.1			5
MW-19	Chloroethane	UG/L	20	10			10
MW-19	cis-1,2-Dichloroethene	UG/L			U		5
MW-19	Tetrachloroethene	UG/L	10		U		5
MW-19	trans-1,2-Dichloroethene	UG/L			U		5
MW-19	Trichloroethene	UG/L	10		U		5
MW-19	Vinyl chloride	UG/L	10		U		10
MW-23	1,1-Dichloroethane	UG/L	10		U		5
MW-23	1,1-Dichloroethene	UG/L	10		U		5

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptNewResults10VOCs]
4050577

Monitoring Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-23	1,2-Dichloroethane	UG/L	10		U		5
MW-23	Benzene	UG/L	10		U		5
MW-23	Chloroethane	UG/L	10		U		10
MW-23	cis-1,2-Dichloroethene	UG/L			U		5
MW-23	Tetrachloroethene	UG/L	10		U		5
MW-23	trans-1,2-Dichloroethene	UG/L			U		5
MW-23	Trichloroethene	UG/L	10		U		5
MW-23	Vinyl chloride	UG/L	10		U		10
MW-28	1,1-Dichloroethane	UG/L	10		U		5
MW-28	1,1-Dichloroethene	UG/L	10		U		5
MW-28	1,2-Dichloroethane	UG/L	10		U		5
MW-28	Benzene	UG/L	10		U		5
MW-28	Chloroethane	UG/L	10		U	UJ	10
MW-28	cis-1,2-Dichloroethene	UG/L			U		5
MW-28	Tetrachloroethene	UG/L	10		U		5
MW-28	trans-1,2-Dichloroethene	UG/L			U		5
MW-28	Trichloroethene	UG/L	10		U		5
MW-28	Vinyl chloride	UG/L	10		U		10
MW-29	1,1-Dichloroethane	UG/L	10		U		5
MW-29	1,1-Dichloroethene	UG/L	10		U		5
MW-29	1,2-Dichloroethane	UG/L	10		U		5
MW-29	Benzene	UG/L	10		U		5
MW-29	Chloroethane	UG/L	10	**40**			10
MW-29	cis-1,2-Dichloroethene	UG/L			U		5
MW-29	Tetrachloroethene	UG/L	10		U		5
MW-29	trans-1,2-Dichloroethene	UG/L			U		5
MW-29	Trichloroethene	UG/L	10		U		5
MW-29	Vinyl chloride	UG/L	10		U		10
MW-30	1,1-Dichloroethane	UG/L	10		U		5
MW-30	1,1-Dichloroethene	UG/L	10		U		5
MW-30	1,2-Dichloroethane	UG/L	10		U		5
MW-30	Benzene	UG/L	10		U		5
MW-30	Chloroethane	UG/L	10		U	UJ	10
MW-30	cis-1,2-Dichloroethene	UG/L			U		5
MW-30	Tetrachloroethene	UG/L	10		U		5
MW-30	trans-1,2-Dichloroethene	UG/L			U		5
MW-30	Trichloroethene	UG/L	10		U		5
MW-30	Vinyl chloride	UG/L	10		U		10
MW-31	1,1-Dichloroethane	UG/L	10		U		5
MW-31	1,1-Dichloroethene	UG/L	10		U		5
MW-31	1,2-Dichloroethane	UG/L	10		U		5
MW-31	Benzene	UG/L	10		U		5
MW-31	Chloroethane	UG/L	10		U	UJ	10
MW-31	cis-1,2-Dichloroethene	UG/L			U		5
MW-31	Tetrachloroethene	UG/L	10		U		5
MW-31	trans-1,2-Dichloroethene	UG/L			U		5

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptNewResults10VOCs]
4050577

Monitoring Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-31	Trichloroethene	UG/L	10		U		5
MW-31	Vinyl chloride	UG/L	10		U		10
MW-32	1,1-Dichloroethane	UG/L	10		U		5
MW-32	1,1-Dichloroethene	UG/L	10		U		5
MW-32	1,2-Dichloroethane	UG/L	10		U		5
MW-32	Benzene	UG/L	10		U		5
MW-32	Chloroethane	UG/L	10		U		10
MW-32	cis-1,2-Dichloroethene	UG/L			U		5
MW-32	Tetrachloroethene	UG/L	10		U		5
MW-32	trans-1,2-Dichloroethene	UG/L			U		5
MW-32	Trichloroethene	UG/L	10		U		5
MW-32	Vinyl chloride	UG/L	10		U		10
MW-33	1,1-Dichloroethane	UG/L	10		U		5
MW-33	1,1-Dichloroethene	UG/L	10		U		5
MW-33	1,2-Dichloroethane	UG/L	10		U		5
MW-33	Benzene	UG/L	10	4.5	J		5
MW-33	Chloroethane	UG/L	10		U	UJ	10
MW-33	cis-1,2-Dichloroethene	UG/L		1.7	J		5
MW-33	Tetrachloroethene	UG/L	10		U		5
MW-33	trans-1,2-Dichloroethene	UG/L			U		5
MW-33	Trichloroethene	UG/L	10		U		5
MW-33	Vinyl chloride	UG/L	10		U		10
MW-42	1,1-Dichloroethane	UG/L	10		U		5
MW-42	1,1-Dichloroethene	UG/L	10		U		5
MW-42	1,2-Dichloroethane	UG/L	10		U		5
MW-42	Benzene	UG/L	10		U		5
MW-42	Chloroethane	UG/L	10		U		10
MW-42	cis-1,2-Dichloroethene	UG/L			U		5
MW-42	Tetrachloroethene	UG/L	10		U		5
MW-42	trans-1,2-Dichloroethene	UG/L			U		5
MW-42	Trichloroethene	UG/L	10		U		5
MW-42	Vinyl chloride	UG/L	10		U		10
MW-43	1,1-Dichloroethane	UG/L	10		U		5
MW-43	1,1-Dichloroethene	UG/L	10		U		5
MW-43	1,2-Dichloroethane	UG/L	10		U		5
MW-43	Benzene	UG/L	10		U		5
MW-43	Chloroethane	UG/L	10		U		10
MW-43	cis-1,2-Dichloroethene	UG/L			U		5
MW-43	Tetrachloroethene	UG/L	10		U		5
MW-43	trans-1,2-Dichloroethene	UG/L			U		5
MW-43	Trichloroethene	UG/L	10		U		5
MW-43	Vinyl chloride	UG/L	10		U		10
MW-45	1,1-Dichloroethane	UG/L	80		U		5
MW-45	1,1-Dichloroethene	UG/L	80		U		5
MW-45	1,2-Dichloroethane	UG/L	80		U		5
MW-45	Benzene	UG/L	1,045		U		5

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptNewResults10VOCs]
4050577

Monitoring Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-45	Chloroethane	UG/L	215		U		10
MW-45	cis-1,2-Dichloroethene	UG/L			U		5
MW-45	Tetrachloroethene	UG/L	80		U		5
MW-45	trans-1,2-Dichloroethene	UG/L			U		5
MW-45	Trichloroethene	UG/L	80		U		5
MW-45	Vinyl chloride	UG/L	80		U		10
MW-48	1,1-Dichloroethane	UG/L	500		U		5
MW-48	1,1-Dichloroethene	UG/L	500		U		5
MW-48	1,2-Dichloroethane	UG/L	500		U		5
MW-48	Benzene	UG/L	9,500	46			5
MW-48	Chloroethane	UG/L	1,000		U		10
MW-48	cis-1,2-Dichloroethene	UG/L			U		5
MW-48	Tetrachloroethene	UG/L	500		U		5
MW-48	trans-1,2-Dichloroethene	UG/L			U		5
MW-48	Trichloroethene	UG/L	500		U		5
MW-48	Vinyl chloride	UG/L	500		U		10
MW-49	1,1-Dichloroethane	UG/L	500		U		5
MW-49	1,1-Dichloroethene	UG/L	500		U		5
MW-49	1,2-Dichloroethane	UG/L	500		U		5
MW-49	Benzene	UG/L	6,750	120			5
MW-49	Chloroethane	UG/L	715		U		10
MW-49	cis-1,2-Dichloroethene	UG/L			U		5
MW-49	Tetrachloroethene	UG/L	500		U		5
MW-49	trans-1,2-Dichloroethene	UG/L			U		5
MW-49	Trichloroethene	UG/L	500		U		5
MW-49	Vinyl chloride	UG/L	500		U		10
MW-51	1,1-Dichloroethane	UG/L	100		U		5
MW-51	1,1-Dichloroethene	UG/L	100		U		5
MW-51	1,2-Dichloroethane	UG/L	100		U		5
MW-51	Benzene	UG/L	100		U		5
MW-51	Chloroethane	UG/L	100		U	UJ	10
MW-51	cis-1,2-Dichloroethene	UG/L			U		5
MW-51	Tetrachloroethene	UG/L	100		U		5
MW-51	trans-1,2-Dichloroethene	UG/L			U		5
MW-51	Trichloroethene	UG/L	100		U		5
MW-51	Vinyl chloride	UG/L	100		U		10
MW-52	1,1-Dichloroethane	UG/L	100		U		5
MW-52	1,1-Dichloroethene	UG/L	100		U		5
MW-52	1,2-Dichloroethane	UG/L	100		U		5
MW-52	Benzene	UG/L	100		U		5
MW-52	Chloroethane	UG/L	100		U		10
MW-52	cis-1,2-Dichloroethene	UG/L			U		5
MW-52	Tetrachloroethene	UG/L	100		U		5
MW-52	trans-1,2-Dichloroethene	UG/L			U		5
MW-52	Trichloroethene	UG/L	100		U		5
MW-52	Vinyl chloride	UG/L	100		U		10

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptNewResults10VOCs]
4050577

Monitoring Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-53	1,1-Dichloroethane	UG/L	10		U		5
MW-53	1,1-Dichloroethene	UG/L	10		U		5
MW-53	1,2-Dichloroethane	UG/L	10		U		5
MW-53	Benzene	UG/L	10	1.2	J		5
MW-53	Chloroethane	UG/L	10		U		10
MW-53	cis-1,2-Dichloroethene	UG/L			U		5
MW-53	Tetrachloroethene	UG/L	10		U		5
MW-53	trans-1,2-Dichloroethene	UG/L			U		5
MW-53	Trichloroethene	UG/L	10		U		5
MW-53	Vinyl chloride	UG/L	10		U		10
MW-54R	1,1-Dichloroethane	UG/L	10		U		5
MW-54R	1,1-Dichloroethene	UG/L	10		U		5
MW-54R	1,2-Dichloroethane	UG/L	10		U		5
MW-54R	Benzene	UG/L	10		U		5
MW-54R	Chloroethane	UG/L	10		U	UJ	10
MW-54R	cis-1,2-Dichloroethene	UG/L			U		5
MW-54R	Tetrachloroethene	UG/L	10		U		5
MW-54R	trans-1,2-Dichloroethene	UG/L			U		5
MW-54R	Trichloroethene	UG/L	10		U		5
MW-54R	Vinyl chloride	UG/L	10		U		10
MW-55	1,1-Dichloroethane	UG/L	10		U		5
MW-55	1,1-Dichloroethene	UG/L	10		U		5
MW-55	1,2-Dichloroethane	UG/L	10		U		5
MW-55	Benzene	UG/L	10		U		5
MW-55	Chloroethane	UG/L	10		U	UJ	10
MW-55	cis-1,2-Dichloroethene	UG/L			U		5
MW-55	Tetrachloroethene	UG/L	10		U		5
MW-55	trans-1,2-Dichloroethene	UG/L			U		5
MW-55	Trichloroethene	UG/L	10		U		5
MW-55	Vinyl chloride	UG/L	10		U		10
MW-56	1,1-Dichloroethane	UG/L			U		5
MW-56	1,1-Dichloroethene	UG/L			U		5
MW-56	1,2-Dichloroethane	UG/L			U		5
MW-56	Benzene	UG/L		13			5
MW-56	Chloroethane	UG/L		2.4	J	J	10
MW-56	cis-1,2-Dichloroethene	UG/L			U		5
MW-56	Tetrachloroethene	UG/L			U		5
MW-56	trans-1,2-Dichloroethene	UG/L			U		5
MW-56	Trichloroethene	UG/L			U		5
MW-56	Vinyl chloride	UG/L			U		10
MW-58	1,1-Dichloroethane	UG/L			U		5
MW-58	1,1-Dichloroethene	UG/L			U		5
MW-58	1,2-Dichloroethane	UG/L			U		5
MW-58	Benzene	UG/L			U		5
MW-58	Chloroethane	UG/L			U	UJ	10
MW-58	cis-1,2-Dichloroethene	UG/L			U		5

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptNewResults10VOCs]
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Monitoring Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Service NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
MW-58	Tetrachloroethene	UG/L			U		5
MW-58	trans-1,2-Dichloroethene	UG/L			U		5
MW-58	Trichloroethene	UG/L			U		5
MW-58	Vinyl chloride	UG/L			U		10
MW-59	1,1-Dichloroethane	UG/L			U		5
MW-59	1,1-Dichloroethene	UG/L			U		5
MW-59	1,2-Dichloroethane	UG/L			U		5
MW-59	Benzene	UG/L			U		5
MW-59	Chloroethane	UG/L			U	UJ	10
MW-59	cis-1,2-Dichloroethene	UG/L			U		5
MW-59	Tetrachloroethene	UG/L			U		5
MW-59	trans-1,2-Dichloroethene	UG/L			U		5
MW-59	Trichloroethene	UG/L			U		5
MW-59	Vinyl chloride	UG/L			U		10

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifiers (DQ), please see Appendix C.

Residential Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-B	1,1,1-Trichloroethane	UG/L	1.0		U		1
PW-B	1,1,2,2-Tetrachloroethane	UG/L	1.0		U		1
PW-B	1,1,2-Trichloroethane	UG/L	1.0		U		1
PW-B	1,1-Dichloroethane	UG/L	1.0		U		1
PW-B	1,1-Dichloroethene	UG/L	1.0		U		1
PW-B	1,2,4-Trichlorobenzene	UG/L	NA		U		1
PW-B	1,2-Dichlorobenzene	UG/L	NA		U		1
PW-B	1,2-Dichloroethane	UG/L	1.0		U		1
PW-B	1,2-Dichloropropane	UG/L	1.0		U		1
PW-B	1,3-Dichlorobenzene	UG/L	NA		U		1
PW-B	1,4-Dichlorobenzene	UG/L	NA		U		1
PW-B	2-Butanone	UG/L	5.0		U	UJ	2
PW-B	2-Hexanone	UG/L	5.0		U	UJ	2
PW-B	4-Methyl-2-pentanone	UG/L	5.0		U		1
PW-B	Acetone	UG/L	5.0	2.5	J	UBJ	5
PW-B	Benzene	UG/L	1.0		U		1
PW-B	Bromodichloromethane	UG/L	1.0		U		1
PW-B	Bromoform	UG/L	1.0		U		1
PW-B	Bromomethane	UG/L	1.0		U		2
PW-B	Carbon disulfide	UG/L	1.0		U		2
PW-B	Carbon Tetrachloride	UG/L	1.0		U		1
PW-B	Chlorobenzene	UG/L	1.0		U		1
PW-B	Chloroethane	UG/L	1.0		U		2
PW-B	Chloroform	UG/L	1.0		U		1
PW-B	Chloromethane	UG/L	1.0		U		2
PW-B	cis-1,2-Dichloroethene	UG/L	NA		U		1
PW-B	cis-1,3-Dichloropropene	UG/L	1.0		U		1
PW-B	Dibromochloromethane	UG/L	1.0		U		1
PW-B	Ethyl Benzene	UG/L	1.0		U		1
PW-B	Methylene chloride	UG/L	1.0		U		2
PW-B	Styrene	UG/L	1.0		U		1
PW-B	Tetrachloroethene	UG/L	1.0		U		1
PW-B	Toluene	UG/L	1.0		U		1
PW-B	trans-1,2-Dichloroethene	UG/L	NA		U		1
PW-B	trans-1,3-Dichloropropene	UG/L	1.0		U		1
PW-B	Trichloroethene	UG/L	1.0		U		1
PW-B	Vinyl chloride	UG/L	1.0		U		2
PW-B	Xylenes (total)	UG/L	5.0		U		1
PW-C	1,1,1-Trichloroethane	UG/L	1.0		U		1
PW-C	1,1,2,2-Tetrachloroethane	UG/L	1.0		U		1
PW-C	1,1,2-Trichloroethane	UG/L	1.0		U		1
PW-C	1,1-Dichloroethane	UG/L	1.0		U		1
PW-C	1,1-Dichloroethene	UG/L	1.0		U		1
PW-C	1,2,4-Trichlorobenzene	UG/L	NA		U		1
PW-C	1,2-Dichlorobenzene	UG/L	NA		U		1
PW-C	1,2-Dichloroethane	UG/L	1.0		U		1

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)ACS GW Database_2000.mdb[rptPWNewResultsVOC]
4050577

Residential Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-C	1,2-Dichloropropane	UG/L	1.0		U		1
PW-C	1,3-Dichlorobenzene	UG/L	NA		U		1
PW-C	1,4-Dichlorobenzene	UG/L	NA		U		1
PW-C	2-Butanone	UG/L	5.0		U	UJ	2
PW-C	2-Hexanone	UG/L	5.0		U	UJ	2
PW-C	4-Methyl-2-pentanone	UG/L	5.0		U		1
PW-C	Acetone	UG/L	5.0	4	J	UBJ	5
PW-C	Benzene	UG/L	1.0		U		1
PW-C	Bromodichloromethane	UG/L	1.0		U		1
PW-C	Bromoform	UG/L	1.0		U		1
PW-C	Bromomethane	UG/L	1.0		U		2
PW-C	Carbon disulfide	UG/L	1.0		U		2
PW-C	Carbon Tetrachloride	UG/L	1.0		U		1
PW-C	Chlorobenzene	UG/L	1.0		U		1
PW-C	Chloroethane	UG/L	1.0		U		2
PW-C	Chloroform	UG/L	1.0		U		1
PW-C	Chloromethane	UG/L	1.0		U		2
PW-C	cis-1,2-Dichloroethene	UG/L	NA		U		1
PW-C	cis-1,3-Dichloropropene	UG/L	1.0		U		1
PW-C	Dibromochloromethane	UG/L	1.0		U		1
PW-C	Ethyl Benzene	UG/L	1.0		U		1
PW-C	Methylene chloride	UG/L	1.0		U		2
PW-C	Styrene	UG/L	1.0		U		1
PW-C	Tetrachloroethene	UG/L	1.0		U		1
PW-C	Toluene	UG/L	1.0		U		1
PW-C	trans-1,2-Dichloroethene	UG/L	NA		U		1
PW-C	trans-1,3-Dichloropropene	UG/L	1.0		U		1
PW-C	Trichloroethene	UG/L	1.0		U		1
PW-C	Vinyl chloride	UG/L	1.0		U		2
PW-C	Xylenes (total)	UG/L	5.0		U		1
PW-D	1,1,1-Trichloroethane	UG/L	1.0		U		1
PW-D	1,1,2,2-Tetrachloroethane	UG/L	1.0		U		1
PW-D	1,1,2-Trichloroethane	UG/L	1.0		U		1
PW-D	1,1-Dichloroethane	UG/L	1.0		U		1
PW-D	1,1-Dichloroethene	UG/L	1.0		U		1
PW-D	1,2,4-Trichlorobenzene	UG/L	NA		U		1
PW-D	1,2-Dichlorobenzene	UG/L	NA		U		1
PW-D	1,2-Dichloroethane	UG/L	1.0		U		1
PW-D	1,2-Dichloropropane	UG/L	1.0		U		1
PW-D	1,3-Dichlorobenzene	UG/L	NA		U		1
PW-D	1,4-Dichlorobenzene	UG/L	NA		U		1
PW-D	2-Butanone	UG/L	5.0		U		2
PW-D	2-Hexanone	UG/L	5.0		U		2
PW-D	4-Methyl-2-pentanone	UG/L	5.0		U		1
PW-D	Acetone	UG/L	5.0		U		5
PW-D	Benzene	UG/L	1.0		U		1

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)ACS GW Database_2000.mdb[rptPWNewResultsVOC]
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Residential Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-D	Bromodichloromethane	UG/L	1.0		U		1
PW-D	Bromoform	UG/L	1.0		U		1
PW-D	Bromomethane	UG/L	1.0		U		2
PW-D	Carbon disulfide	UG/L	1.0		U		2
PW-D	Carbon Tetrachloride	UG/L	1.0		U		1
PW-D	Chlorobenzene	UG/L	1.0		U		1
PW-D	Chloroethane	UG/L	1.0		U		2
PW-D	Chloroform	UG/L	1.0		U		1
PW-D	Chloromethane	UG/L	1.0		U		2
PW-D	cis-1,2-Dichloroethene	UG/L	NA		U		1
PW-D	cis-1,3-Dichloropropene	UG/L	1.0		U		1
PW-D	Dibromochloromethane	UG/L	1.0		U		1
PW-D	Ethyl Benzene	UG/L	1.0		U		1
PW-D	Methylene chloride	UG/L	2.0		U		2
PW-D	Styrene	UG/L	1.0		U		1
PW-D	Tetrachloroethene	UG/L	1.0		U		1
PW-D	Toluene	UG/L	1.0		U		1
PW-D	trans-1,2-Dichloroethene	UG/L	NA		U		1
PW-D	trans-1,3-Dichloropropene	UG/L	1.0		U		1
PW-D	Trichloroethene	UG/L	1.0		U		1
PW-D	Vinyl chloride	UG/L	1.0		U		2
PW-D	Xylenes (total)	UG/L	5.0		U		1
PW-T	1,1,1-Trichloroethane	UG/L	NA		U		1
PW-T	1,1,2,2-Tetrachloroethane	UG/L	NA		U		1
PW-T	1,1,2-Trichloroethane	UG/L	NA		U		1
PW-T	1,1-Dichloroethane	UG/L	NA		U		1
PW-T	1,1-Dichloroethene	UG/L	NA		U		1
PW-T	1,2,4-Trichlorobenzene	UG/L	NA		U		1
PW-T	1,2-Dichlorobenzene	UG/L	NA		U		1
PW-T	1,2-Dichloroethane	UG/L	NA		U		1
PW-T	1,2-Dichloropropane	UG/L	NA		U		1
PW-T	1,3-Dichlorobenzene	UG/L	NA		U		1
PW-T	1,4-Dichlorobenzene	UG/L	NA		U		1
PW-T	2-Butanone	UG/L	NA		U	UJ	2
PW-T	2-Hexanone	UG/L	NA		U	UJ	2
PW-T	4-Methyl-2-pentanone	UG/L	NA		U		1
PW-T	Acetone	UG/L	NA		U	UJ	5
PW-T	Benzene	UG/L	NA		U		1
PW-T	Bromodichloromethane	UG/L	NA		U		1
PW-T	Bromoform	UG/L	NA		U		1
PW-T	Bromomethane	UG/L	NA		U		2
PW-T	Carbon disulfide	UG/L	NA		U		2
PW-T	Carbon Tetrachloride	UG/L	NA		U		1
PW-T	Chlorobenzene	UG/L	NA		U		1
PW-T	Chloroethane	UG/L	NA		U		2
PW-T	Chloroform	UG/L	NA		U		1

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)ACS GW Database_2000.mdb[rptPWNewResultsVOC]
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Residential Well Volatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-T	Chloromethane	UG/L	NA		U	R	2
PW-T	cis-1,2-Dichloroethene	UG/L	NA		U		1
PW-T	cis-1,3-Dichloropropene	UG/L	NA		U		1
PW-T	Dibromochloromethane	UG/L	NA		U		1
PW-T	Ethyl Benzene	UG/L	NA		U		1
PW-T	Methylene chloride	UG/L	NA		U		2
PW-T	Styrene	UG/L	NA		U		1
PW-T	Tetrachloroethene	UG/L	NA		U		1
PW-T	Toluene	UG/L	NA		U		1
PW-T	trans-1,2-Dichloroethene	UG/L	NA		U		1
PW-T	trans-1,3-Dichloropropene	UG/L	NA		U		1
PW-T	Trichloroethene	UG/L	NA		U		1
PW-T	Vinyl chloride	UG/L	NA		U	R	2
PW-T	Xylenes (total)	UG/L	NA		U		1

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)ACS GW Database_2000.mdb[rptPWNewResultsVOC]
4050577

Residential Well Semivolatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-B	2,2'-oxybis(1-Chloropropane)	UG/L	5.0		U		11
PW-B	2,4,5-Trichlorophenol	UG/L	20		U		11
PW-B	2,4,6-Trichlorophenol	UG/L	5.0		U		11
PW-B	2,4-Dichlorophenol	UG/L	5.0		U		11
PW-B	2,4-Dimethylphenol	UG/L	5.0		U		11
PW-B	2,4-Dinitrophenol	UG/L	20		U		54
PW-B	2,4-Dinitrotoluene	UG/L	5.0		U		11
PW-B	2,6-Dinitrotoluene	UG/L	5.0		U		11
PW-B	2-Chloronaphthalene	UG/L	5.0		U		11
PW-B	2-Chlorophenol	UG/L	5.0		U		11
PW-B	2-Methylnaphthalene	UG/L	5.0		U		11
PW-B	2-Methylphenol	UG/L	5.0		U		11
PW-B	2-Nitroaniline	UG/L	20		U		54
PW-B	2-Nitrophenol	UG/L	5.0		U		11
PW-B	3,3'-Dichlorobenzidine	UG/L	5.0		U		54
PW-B	3-Nitroaniline	UG/L	20		U		54
PW-B	4,6-Dinitro-2-methylphenol	UG/L	20		U		54
PW-B	4-Bromophenyl-phenylether	UG/L	5.0		U		11
PW-B	4-Chloro-3-methylphenol	UG/L	5.0		U		22
PW-B	4-Chloroaniline	UG/L	5.0		U		22
PW-B	4-Chlorophenyl-phenyl ether	UG/L	5.0		U		11
PW-B	4-Nitroaniline	UG/L	20		U		54
PW-B	4-Nitrophenol	UG/L	20		U		54
PW-B	Acenaphthene	UG/L	5.0		U		11
PW-B	Acenaphthylene	UG/L	5.0		U		11
PW-B	Anthracene	UG/L	5.0		U		11
PW-B	Benzo(a)anthracene	UG/L	5.0		U		11
PW-B	Benzo(a)pyrene	UG/L	5.0		U		11
PW-B	Benzo(b)fluoranthene	UG/L	5.0		U		11
PW-B	Benzo(g,h,i)perylene	UG/L	5.0		U		11
PW-B	Benzo(k)fluoranthene	UG/L	5.0		U		11
PW-B	Bis(2-chloroethoxy)methane	UG/L	5.0		U		11
PW-B	bis(2-chloroethyl) ether	UG/L	5.0		U		11
PW-B	Bis(2-ethylhexyl)phthalate	UG/L	5.0		U		11
PW-B	Butylbenzylphthalate	UG/L	5.0		U		11
PW-B	Carbazole	UG/L	NA		U		11
PW-B	Chrysene	UG/L	5.0		U		11
PW-B	Dibenzo(a,h)anthracene	UG/L	5.0		U		11
PW-B	Dibenzofuran	UG/L	5.0		U		11
PW-B	Diethylphthalate	UG/L	5.0		U		11
PW-B	Dimethylphthalate	UG/L	5.0		U		11
PW-B	Di-n-butylphthalate	UG/L	5.0	**23**			11
PW-B	Di-n-octylphthalate	UG/L	5.0		U		11
PW-B	Fluoranthene	UG/L	5.0		U		11
PW-B	Fluorene	UG/L	5.0		U		11
PW-B	Hexachlorobenzene	UG/L	5.0		U		11

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptPWNewResultsSVOC]
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Residential Well Semivolatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-B	Hexachlorobutadiene	UG/L	5.0		U		11
PW-B	Hexachlorocyclopentadiene	UG/L	5.0		U		11
PW-B	Hexachloroethane	UG/L	5.0		U		11
PW-B	Indeno(1,2,3-cd)pyrene	UG/L	5.0		U		11
PW-B	Isophorone	UG/L	5.0		U		11
PW-B	m-Cresol	UG/L	NA		U		11
PW-B	Naphthalene	UG/L	5.0		U		11
PW-B	Nitrobenzene	UG/L	5.0		U		11
PW-B	N-Nitroso-di-n-propylamine	UG/L	5.0		U		11
PW-B	N-Nitrosodiphenylamine	UG/L	5.0		U		11
PW-B	Pentachlorophenol	UG/L	20		U		54
PW-B	Phenanthrene	UG/L	5.0		U		11
PW-B	Phenol	UG/L	5.0		U		11
PW-B	Pyrene	UG/L	5.0		U		11
PW-C	2,2'-oxybis(1-Chloropropane)	UG/L	5.0		U		11
PW-C	2,4,5-Trichlorophenol	UG/L	20		U		11
PW-C	2,4,6-Trichlorophenol	UG/L	5.0		U		11
PW-C	2,4-Dichlorophenol	UG/L	5.0		U		11
PW-C	2,4-Dimethylphenol	UG/L	5.0		U		11
PW-C	2,4-Dinitrophenol	UG/L	20		U		53
PW-C	2,4-Dinitrotoluene	UG/L	5.0		U		11
PW-C	2,6-Dinitrotoluene	UG/L	5.0		U		11
PW-C	2-Chloronaphthalene	UG/L	5.0		U		11
PW-C	2-Chlorophenol	UG/L	5.0		U		11
PW-C	2-Methylnaphthalene	UG/L	5.0		U		11
PW-C	2-Methylphenol	UG/L	5.0		U		11
PW-C	2-Nitroaniline	UG/L	20		U		53
PW-C	2-Nitrophenol	UG/L	5.0		U		11
PW-C	3,3'-Dichlorobenzidine	UG/L	5.0		U		53
PW-C	3-Nitroaniline	UG/L	20		U		53
PW-C	4,6-Dinitro-2-methylphenol	UG/L	20		U		53
PW-C	4-Bromophenyl-phenylether	UG/L	5.0		U		11
PW-C	4-Chloro-3-methylphenol	UG/L	5.0		U		21
PW-C	4-Chloroaniline	UG/L	5.0		U		21
PW-C	4-Chlorophenyl-phenyl ether	UG/L	5.0		U		11
PW-C	4-Nitroaniline	UG/L	20		U		53
PW-C	4-Nitrophenol	UG/L	20		U		53
PW-C	Acenaphthene	UG/L	5.0		U		11
PW-C	Acenaphthylene	UG/L	5.0		U		11
PW-C	Anthracene	UG/L	5.0		U		11
PW-C	Benzo(a)anthracene	UG/L	5.0		U		11
PW-C	Benzo(a)pyrene	UG/L	5.0		U		11
PW-C	Benzo(b)fluoranthene	UG/L	5.0		U		11
PW-C	Benzo(g,h,i)perylene	UG/L	5.0		U		11
PW-C	Benzo(k)fluoranthene	UG/L	5.0		U		11
PW-C	Bis(2-chloroethoxy)methane	UG/L	5.0		U		11

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

Residential Well Semivolatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-C	bis(2-chloroethyl) ether	UG/L	5.0		U		11
PW-C	Bis(2-ethylhexyl)phthalate	UG/L	5.0		U		11
PW-C	Butylbenzylphthalate	UG/L	5.0		U		11
PW-C	Carbazole	UG/L	NA		U		11
PW-C	Chrysene	UG/L	5.0		U		11
PW-C	Dibenzo(a,h)anthracene	UG/L	5.0		U		11
PW-C	Dibenzofuran	UG/L	5.0		U		11
PW-C	Diethylphthalate	UG/L	5.0		U		11
PW-C	Dimethylphthalate	UG/L	5.0		U		11
PW-C	Di-n-butylphthalate	UG/L	5.0		U		11
PW-C	Di-n-octylphthalate	UG/L	5.0		U		11
PW-C	Fluoranthene	UG/L	5.0		U		11
PW-C	Fluorene	UG/L	5.0		U		11
PW-C	Hexachlorobenzene	UG/L	5.0		U		11
PW-C	Hexachlorobutadiene	UG/L	5.0		U		11
PW-C	Hexachlorocyclopentadiene	UG/L	5.0		U		11
PW-C	Hexachloroethane	UG/L	5.0		U		11
PW-C	Indeno(1,2,3-cd)pyrene	UG/L	5.0		U		11
PW-C	Isophorone	UG/L	5.0		U		11
PW-C	m-Cresol	UG/L	NA		U		11
PW-C	Naphthalene	UG/L	5.0		U		11
PW-C	Nitrobenzene	UG/L	5.0		U		11
PW-C	N-Nitroso-di-n-propylamine	UG/L	5.0		U		11
PW-C	N-Nitrosodiphenylamine	UG/L	5.0		U		11
PW-C	Pentachlorophenol	UG/L	20		U		53
PW-C	Phenanthrene	UG/L	5.0		U		11
PW-C	Phenol	UG/L	5.0	4	J		11
PW-C	Pyrene	UG/L	5.0		U		11
PW-D	2,2'-oxybis(1-Chloropropane)	UG/L	5.0		U		10
PW-D	2,4,5-Trichlorophenol	UG/L	20		U		10
PW-D	2,4,6-Trichlorophenol	UG/L	5.0		U		10
PW-D	2,4-Dichlorophenol	UG/L	5.0		U		10
PW-D	2,4-Dimethylphenol	UG/L	5.0		U		10
PW-D	2,4-Dinitrophenol	UG/L	20		U		51
PW-D	2,4-Dinitrotoluene	UG/L	5.0		U		10
PW-D	2,6-Dinitrotoluene	UG/L	5.0		U		10
PW-D	2-Chloronaphthalene	UG/L	5.0		U		10
PW-D	2-Chlorophenol	UG/L	5.0		U		10
PW-D	2-Methylnaphthalene	UG/L	5.0		U		10
PW-D	2-Methylphenol	UG/L	5.0		U		10
PW-D	2-Nitroaniline	UG/L	20		U		51
PW-D	2-Nitrophenol	UG/L	5.0		U		10
PW-D	3,3'-Dichlorobenzidine	UG/L	5.0		U		51
PW-D	3-Nitroaniline	UG/L	20		U		51
PW-D	4,6-Dinitro-2-methylphenol	UG/L	20		U		51
PW-D	4-Bromophenyl-phenylether	UG/L	5.0		U		10

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptPWNewResultsSVOC]
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Residential Well Semivolatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-D	4-Chloro-3-methylphenol	UG/L	5.0		U		20
PW-D	4-Chloroaniline	UG/L	5.0		U		20
PW-D	4-Chlorophenyl-phenyl ether	UG/L	5.0		U		10
PW-D	4-Nitroaniline	UG/L	20		U		51
PW-D	4-Nitrophenol	UG/L	20		U		51
PW-D	Acenaphthene	UG/L	5.0		U		10
PW-D	Acenaphthylene	UG/L	5.0		U		10
PW-D	Anthracene	UG/L	5.0		U		10
PW-D	Benzo(a)anthracene	UG/L	5.0		U		10
PW-D	Benzo(a)pyrene	UG/L	5.0		U		10
PW-D	Benzo(b)fluoranthene	UG/L	5.0		U		10
PW-D	Benzo(g,h,i)perylene	UG/L	5.0		U		10
PW-D	Benzo(k)fluoranthene	UG/L	5.0		U		10
PW-D	Bis(2-chloroethoxy)methane	UG/L	5.0		U		10
PW-D	bis(2-chloroethyl) ether	UG/L	5.0		U		10
PW-D	Bis(2-ethylhexyl)phthalate	UG/L	5.0		U		10
PW-D	Butylbenzylphthalate	UG/L	5.0		U		10
PW-D	Carbazole	UG/L	5.0		U		10
PW-D	Chrysene	UG/L	5.0		U		10
PW-D	Dibenzo(a,h)anthracene	UG/L	5.0		U		10
PW-D	Dibenzofuran	UG/L	5.0		U		10
PW-D	Diethylphthalate	UG/L	5.0		U		10
PW-D	Dimethylphthalate	UG/L	5.0		U		10
PW-D	Di-n-butylphthalate	UG/L	5.0		U		10
PW-D	Di-n-octylphthalate	UG/L	5.0		U		10
PW-D	Fluoranthene	UG/L	5.0		U		10
PW-D	Fluorene	UG/L	5.0		U		10
PW-D	Hexachlorobenzene	UG/L	5.0		U		10
PW-D	Hexachlorobutadiene	UG/L	5.0		U		10
PW-D	Hexachlorocyclopentadiene	UG/L	5.0		U		10
PW-D	Hexachloroethane	UG/L	5.0		U		10
PW-D	Indeno(1,2,3-cd)pyrene	UG/L	5.0		U		10
PW-D	Isophorone	UG/L	5.0		U		10
PW-D	m-Cresol	UG/L	NA		U		10
PW-D	Naphthalene	UG/L	5.0		U		10
PW-D	Nitrobenzene	UG/L	5.0		U		10
PW-D	N-Nitroso-di-n-propylamine	UG/L	5.0		U		10
PW-D	N-Nitrosodiphenylamine	UG/L	5.0		U		10
PW-D	Pentachlorophenol	UG/L	20		U		51
PW-D	Phenanthrene	UG/L	5.0		U		10
PW-D	Phenol	UG/L	5.0	2.6	J		10
PW-D	Pyrene	UG/L	5.0	1.3	J		10
PW-T	2,2'-oxybis(1-Chloropropane)	UG/L	NA		U		10
PW-T	2,4,5-Trichlorophenol	UG/L	NA		U		10
PW-T	2,4,6-Trichlorophenol	UG/L	NA		U		10
PW-T	2,4-Dichlorophenol	UG/L	NA		U		10

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptPWNewResultsSVOC]
4050577

Residential Well Semivolatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-T	2,4-Dimethylphenol	UG/L	NA		U		10
PW-T	2,4-Dinitrophenol	UG/L	NA		U		52
PW-T	2,4-Dinitrotoluene	UG/L	NA		U		10
PW-T	2,6-Dinitrotoluene	UG/L	NA		U		10
PW-T	2-Chloronaphthalene	UG/L	NA		U		10
PW-T	2-Chlorophenol	UG/L	NA		U		10
PW-T	2-Methylnaphthalene	UG/L	NA		U		10
PW-T	2-Methylphenol	UG/L	NA		U		10
PW-T	2-Nitroaniline	UG/L	NA		U		52
PW-T	2-Nitrophenol	UG/L	NA		U		10
PW-T	3,3'-Dichlorobenzidine	UG/L	NA		U		52
PW-T	3-Nitroaniline	UG/L	NA		U		52
PW-T	4,6-Dinitro-2-methylphenol	UG/L	NA		U		52
PW-T	4-Bromophenyl-phenylether	UG/L	NA		U		10
PW-T	4-Chloro-3-methylphenol	UG/L	NA		U		21
PW-T	4-Chloroaniline	UG/L	NA		U		21
PW-T	4-Chlorophenyl-phenyl ether	UG/L	NA		U		10
PW-T	4-Nitroaniline	UG/L	NA		U		52
PW-T	4-Nitrophenol	UG/L	NA		U		52
PW-T	Acenaphthene	UG/L	NA		U		10
PW-T	Acenaphthylene	UG/L	NA		U		10
PW-T	Anthracene	UG/L	NA		U		10
PW-T	Benzo(a)anthracene	UG/L	NA		U		10
PW-T	Benzo(a)pyrene	UG/L	NA		U		10
PW-T	Benzo(b)fluoranthene	UG/L	NA		U		10
PW-T	Benzo(g,h,i)perylene	UG/L	NA		U		10
PW-T	Benzo(k)fluoranthene	UG/L	NA		U		10
PW-T	Bis(2-chloroethoxy)methane	UG/L	NA		U		10
PW-T	bis(2-chloroethyl) ether	UG/L	NA		U		10
PW-T	Bis(2-ethylhexyl)phthalate	UG/L	NA		U		10
PW-T	Butylbenzylphthalate	UG/L	NA		U		10
PW-T	Carbazole	UG/L	NA		U		10
PW-T	Chrysene	UG/L	NA		U		10
PW-T	Dibenzo(a,h)anthracene	UG/L	NA		U		10
PW-T	Dibenzofuran	UG/L	NA		U		10
PW-T	Diethylphthalate	UG/L	NA		U		10
PW-T	Dimethylphthalate	UG/L	NA		U		10
PW-T	Di-n-butylphthalate	UG/L	NA		U		10
PW-T	Di-n-octylphthalate	UG/L	NA		U		10
PW-T	Fluoranthene	UG/L	NA		U		10
PW-T	Fluorene	UG/L	NA		U		10
PW-T	Hexachlorobenzene	UG/L	NA		U		10
PW-T	Hexachlorobutadiene	UG/L	NA		U		10
PW-T	Hexachlorocyclopentadiene	UG/L	NA		U		10
PW-T	Hexachloroethane	UG/L	NA		U		10
PW-T	Indeno(1,2,3-cd)pyrene	UG/L	NA		U		10

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptPWNewResultsSVOC]
4050577

Residential Well Semivolatile Organic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-T	Isophorone	UG/L	NA		U		10
PW-T	m-Cresol	UG/L	NA		U		10
PW-T	Naphthalene	UG/L	NA		U		10
PW-T	Nitrobenzene	UG/L	NA		U		10
PW-T	N-Nitroso-di-n-propylamine	UG/L	NA		U		10
PW-T	N-Nitrosodiphenylamine	UG/L	NA		U		10
PW-T	Pentachlorophenol	UG/L	NA		U		52
PW-T	Phenanthrene	UG/L	NA		U		10
PW-T	Phenol	UG/L	NA		U		10
PW-T	Pyrene	UG/L	NA		U		10

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

Residential Well Pesticide and PCB Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-B	4,4'-DDD	UG/L	0.02		U		1.1
PW-B	4,4'-DDE	UG/L	0.02		U		1.1
PW-B	4,4'-DDT	UG/L	0.02		U		1.1
PW-B	Aldrin	UG/L	0.01		U		0.054
PW-B	alpha-BHC	UG/L	0.01		U		0.054
PW-B	alpha-Chlordane	UG/L	0.01		U		11
PW-B	Aroclor-1016	UG/L	0.20		U		0.54
PW-B	Aroclor-1221	UG/L	0.40		U		0.54
PW-B	Aroclor-1232	UG/L	0.20		U		0.54
PW-B	Aroclor-1242	UG/L	0.20		U		0.54
PW-B	Aroclor-1248	UG/L	0.20		U		0.54
PW-B	Aroclor-1254	UG/L	0.20		U		0.54
PW-B	Aroclor-1260	UG/L	0.20		U		0.54
PW-B	beta-BHC	UG/L	0.01		U		0.22
PW-B	delta-BHC	UG/L	0.01	**0.16**	JB	UB	1.1
PW-B	Dieldrin	UG/L	0.02		U		0.054
PW-B	Endosulfan I	UG/L	0.01		U		1.1
PW-B	Endosulfan II	UG/L	0.02		U		1.1
PW-B	Endosulfan sulfate	UG/L	0.02		U		1.1
PW-B	Endrin	UG/L	0.02		U		1.1
PW-B	Endrin aldehyde	UG/L	0.02	**0.022**	JB	UB	1.1
PW-B	Endrin ketone	UG/L	0.02		U		1.1
PW-B	gamma-BHC	UG/L	0.01		U		0.11
PW-B	gamma-Chlordane	UG/L	0.01		U		11
PW-B	Heptachlor	UG/L	0.01		U		0.22
PW-B	Heptachlor epoxide	UG/L	0.01		U		0.11
PW-B	Methoxychlor	UG/L	0.10		U		1.1
PW-B	Toxaphene	UG/L	1.0		U		2.2
PW-C	4,4'-DDD	UG/L	0.02		U		1.1
PW-C	4,4'-DDE	UG/L	0.02		U		1.1
PW-C	4,4'-DDT	UG/L	0.02		U		1.1
PW-C	Aldrin	UG/L	0.01		U		0.054
PW-C	alpha-BHC	UG/L	0.01		U		0.054
PW-C	alpha-Chlordane	UG/L	0.01		U		11
PW-C	Aroclor-1016	UG/L	0.20		U		0.54
PW-C	Aroclor-1221	UG/L	0.40		U		0.54
PW-C	Aroclor-1232	UG/L	0.20		U		0.54
PW-C	Aroclor-1242	UG/L	0.20		U		0.54
PW-C	Aroclor-1248	UG/L	0.20		U		0.54
PW-C	Aroclor-1254	UG/L	0.20		U		0.54
PW-C	Aroclor-1260	UG/L	0.20		U		0.54
PW-C	beta-BHC	UG/L	0.01		U		0.22
PW-C	delta-BHC	UG/L	0.01	**0.16**	JB	UB	1.1
PW-C	Dieldrin	UG/L	0.02		U		0.054
PW-C	Endosulfan I	UG/L	0.01		U		1.1
PW-C	Endosulfan II	UG/L	0.02		U		1.1

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdbb
[rptPWNewResultsPCB]
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Residential Well Pesticide and PCB Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-C	Endosulfan sulfate	UG/L	0.02		U		1.1
PW-C	Endrin	UG/L	0.02		U		1.1
PW-C	Endrin aldehyde	UG/L	0.02		U		1.1
PW-C	Endrin ketone	UG/L	0.02		U		1.1
PW-C	gamma-BHC	UG/L	0.01		U		0.11
PW-C	gamma-Chlordane	UG/L	0.01		U		11
PW-C	Heptachlor	UG/L	0.01		U		0.22
PW-C	Heptachlor epoxide	UG/L	0.01		U		0.11
PW-C	Methoxychlor	UG/L	0.10		U		1.1
PW-C	Toxaphene	UG/L	1.0		U		2.2
PW-D	4,4'-DDD	UG/L	0.02		U		1
PW-D	4,4'-DDE	UG/L	0.02		U		1
PW-D	4,4'-DDT	UG/L	0.02		U		1
PW-D	Aldrin	UG/L	0.01		U		0.052
PW-D	alpha-BHC	UG/L	0.01		U		0.052
PW-D	alpha-Chlordane	UG/L	0.01		U		10
PW-D	Aroclor-1016	UG/L	0.20		U		0.52
PW-D	Aroclor-1221	UG/L	0.40		U		0.52
PW-D	Aroclor-1232	UG/L	0.20		U		0.52
PW-D	Aroclor-1242	UG/L	0.20		U		0.52
PW-D	Aroclor-1248	UG/L	0.20		U		0.52
PW-D	Aroclor-1254	UG/L	0.20		U		0.52
PW-D	Aroclor-1260	UG/L	0.20		U		0.52
PW-D	beta-BHC	UG/L	0.01		U		0.21
PW-D	delta-BHC	UG/L	0.01	**0.15**	JB	UB	1
PW-D	Dieldrin	UG/L	0.02		U		0.052
PW-D	Endosulfan I	UG/L	0.01		U		1
PW-D	Endosulfan II	UG/L	0.02		U		1
PW-D	Endosulfan sulfate	UG/L	0.02		U		1
PW-D	Endrin	UG/L	0.02		U		1
PW-D	Endrin aldehyde	UG/L	0.02	0.01	JB	UB	1
PW-D	Endrin ketone	UG/L	0.02		U		1
PW-D	gamma-BHC	UG/L	0.01		U		0.1
PW-D	gamma-Chlordane	UG/L	0.01		U		10
PW-D	Heptachlor	UG/L	0.01		U		0.21
PW-D	Heptachlor epoxide	UG/L	0.01		U		0.1
PW-D	Methoxychlor	UG/L	0.10		U		1
PW-D	Toxaphene	UG/L	1.0		U		2.1
PW-T	4,4'-DDD	UG/L	NA		U		1
PW-T	4,4'-DDE	UG/L	NA		U		1
PW-T	4,4'-DDT	UG/L	NA		U		1
PW-T	Aldrin	UG/L	NA		U		0.051
PW-T	alpha-BHC	UG/L	NA		U		0.051
PW-T	alpha-Chlordane	UG/L	NA		U		10
PW-T	Aroclor-1016	UG/L	NA		U		0.51
PW-T	Aroclor-1221	UG/L	NA		U		0.51

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

Residential Well Pesticide and PCB Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-T	Aroclor-1232	UG/L	NA		U		0.51
PW-T	Aroclor-1242	UG/L	NA		U		0.51
PW-T	Aroclor-1248	UG/L	NA		U		0.51
PW-T	Aroclor-1254	UG/L	NA		U		0.51
PW-T	Aroclor-1260	UG/L	NA		U		0.51
PW-T	beta-BHC	UG/L	NA		U		0.2
PW-T	delta-BHC	UG/L	NA	0.14	JB	UB	1
PW-T	Dieldrin	UG/L	NA		U		0.051
PW-T	Endosulfan I	UG/L	NA		U		1
PW-T	Endosulfan II	UG/L	NA		U		1
PW-T	Endosulfan sulfate	UG/L	NA		U		1
PW-T	Endrin	UG/L	NA		U		1
PW-T	Endrin aldehyde	UG/L	NA		U		1
PW-T	Endrin ketone	UG/L	NA		U		1
PW-T	gamma-BHC	UG/L	NA		U		0.1
PW-T	gamma-Chlordane	UG/L	NA		U		10
PW-T	Heptachlor	UG/L	NA		U		0.2
PW-T	Heptachlor epoxide	UG/L	NA		U		0.1
PW-T	Methoxychlor	UG/L	NA		U		1
PW-T	Toxaphene	UG/L	NA		U		2

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdbb
[rptPWNewResultsPCB]
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Residential Well Inorganic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-B	Aluminum	UG/L	19	5.9	J		200
PW-B	Antimony	UG/L	1.0	0.043	J	UB	6
PW-B	Arsenic	UG/L	2.0		U		10
PW-B	Barium	UG/L	121	120		B	2
PW-B	Beryllium	UG/L	1.0		U		1
PW-B	Cadmium	UG/L	1.0	0.025	J	UB	2
PW-B	Calcium	UG/L	91,200	77,000	B	B	500
PW-B	Chromium (Total)	UG/L	1.0	**2.8**	J	UB	4
PW-B	Cobalt	UG/L	1.0	0.2	J		3
PW-B	Copper	UG/L	2.3	**12**			10
PW-B	Cyanide (Total)	UG/L	10		U		5
PW-B	Iron	UG/L	2,170	**2,600**			50
PW-B	Lead	UG/L	1.0	**1.1**	J		7.5
PW-B	Magnesium	UG/L	42,700	38,000		B	500
PW-B	Manganese	UG/L	56	**58**		JB	2
PW-B	Mercury	UG/L	0.20		U		0.2
PW-B	Nickel	UG/L	3.3		U		10
PW-B	Potassium	UG/L	1,760	1,600			500
PW-B	Selenium	UG/L	2.0		U		5
PW-B	Silver	UG/L	1.0		U		10
PW-B	Sodium	UG/L	14,200	**22,000**		B	500
PW-B	Thallium	UG/L	3.0	0.75	J	UB	2
PW-B	Vanadium	UG/L	1.0		U		8
PW-B	Zinc	UG/L	9.6	**14**	J		20
PW-C	Aluminum	UG/L	25		U		200
PW-C	Antimony	UG/L	1.0		U		6
PW-C	Arsenic	UG/L	2.0		U		10
PW-C	Barium	UG/L	166	140		B	2
PW-C	Beryllium	UG/L	1.0		U		1
PW-C	Cadmium	UG/L	1.0	0.058	J	UB	2
PW-C	Calcium	UG/L	93,200	81,000	B	B	500
PW-C	Chromium (Total)	UG/L	1.0	**3.1**	J	UB	4
PW-C	Cobalt	UG/L	1.0	0.21	J		3
PW-C	Copper	UG/L	32	1.7	J		10
PW-C	Cyanide (Total)	UG/L	10		U		5
PW-C	Iron	UG/L	3,030	2,400			50
PW-C	Lead	UG/L	1.9		U		7.5
PW-C	Magnesium	UG/L	53,700	46,000		B	500
PW-C	Manganese	UG/L	35	34		JB	2
PW-C	Mercury	UG/L	0.20		U		0.2
PW-C	Nickel	UG/L	1.0		U		10
PW-C	Potassium	UG/L	2,730	2,100			500
PW-C	Selenium	UG/L	2.0		U		5
PW-C	Silver	UG/L	1.0		U		10
PW-C	Sodium	UG/L	23,300	15,000		B	500

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

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J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb [rptPWNewResultsInorg]
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Residential Well Inorganic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-C	Thallium	UG/L	3.0	0.36	J	UB	2
PW-C	Vanadium	UG/L	1.0	**2.7**	J		8
PW-C	Zinc	UG/L	79	12	J		20
PW-D	Aluminum	UG/L	125		U		200
PW-D	Antimony	UG/L	1.0	0.15	J	UB	6
PW-D	Arsenic	UG/L	2.0	1.2	J	UB	10
PW-D	Barium	UG/L	157	130		B	2
PW-D	Beryllium	UG/L	1.0		U		1
PW-D	Cadmium	UG/L	1.1	0.0067	J	UB	2
PW-D	Calcium	UG/L	96,800	88,000	B	B	500
PW-D	Chromium (Total)	UG/L	1.0	**4.4**		UB	4
PW-D	Cobalt	UG/L	1.0	0.22	J		3
PW-D	Copper	UG/L	155	1.7	J		10
PW-D	Cyanide (Total)	UG/L	10		U		5
PW-D	Iron	UG/L	3,190	2,400			50
PW-D	Lead	UG/L	23	0.29	J		7.5
PW-D	Magnesium	UG/L	50,900	43,000		B	500
PW-D	Manganese	UG/L	48	33		JB	2
PW-D	Mercury	UG/L	0.20		U		0.2
PW-D	Nickel	UG/L	4.3		U		10
PW-D	Potassium	UG/L	2,660	2,200			500
PW-D	Selenium	UG/L	2.0		U		5
PW-D	Silver	UG/L	1.0		U		10
PW-D	Sodium	UG/L	24,100	21,000		B	500
PW-D	Thallium	UG/L	3.0	**3.4**		B	2
PW-D	Vanadium	UG/L	1.0		U		8
PW-D	Zinc	UG/L	1,580	25			20
PW-T	Aluminum	UG/L			U		200
PW-T	Antimony	UG/L			U		6
PW-T	Arsenic	UG/L		1	J	UB	10
PW-T	Barium	UG/L		140		B	2
PW-T	Beryllium	UG/L			U		1
PW-T	Cadmium	UG/L		0.01	J	UB	2
PW-T	Calcium	UG/L		86,000	B	B	500
PW-T	Chromium (Total)	UG/L		2.6	J	UB	4
PW-T	Cobalt	UG/L		0.23	J		3
PW-T	Copper	UG/L		0.19	J		10
PW-T	Cyanide (Total)	UG/L			U		5
PW-T	Iron	UG/L		2,400			50
PW-T	Lead	UG/L			U		7.5
PW-T	Magnesium	UG/L		48,000		B	500
PW-T	Manganese	UG/L		36		JB	2
PW-T	Mercury	UG/L			U		0.2
PW-T	Nickel	UG/L			U		10
PW-T	Potassium	UG/L		2,400			500

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb [rptPWNewResultsInorg]
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Residential Well Inorganic Results - September 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-T	Selenium	UG/L			U		5
PW-T	Silver	UG/L			U		10
PW-T	Sodium	UG/L		18,000		B	500
PW-T	Thallium	UG/L		0.18	J	UB	2
PW-T	Vanadium	UG/L		2.2	J		8
PW-T	Zinc	UG/L		11	J		20

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb [rptPWNewResultsInorg]
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Residential Well Semivolatile Organic Results - October 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-B	2,4,5-Trichlorophenol	UG/L	20		U		10
PW-B	2,4,6-Trichlorophenol	UG/L	5.0		U		10
PW-B	2,4-Dichlorophenol	UG/L	5.0		U		10
PW-B	2,4-Dimethylphenol	UG/L	5.0		U		10
PW-B	2,4-Dinitrophenol	UG/L	20		U		50
PW-B	2,4-Dinitrotoluene	UG/L	5.0		U		10
PW-B	2,6-Dinitrotoluene	UG/L	5.0		U		10
PW-B	2-Chloronaphthalene	UG/L	5.0		U		10
PW-B	2-Chlorophenol	UG/L	5.0		U		10
PW-B	2-Methylnaphthalene	UG/L	5.0		U		10
PW-B	2-Methylphenol	UG/L	5.0		U		10
PW-B	2-Nitroaniline	UG/L	20		U		50
PW-B	2-Nitrophenol	UG/L	5.0		U		10
PW-B	3,3'-Dichlorobenzidine	UG/L	5.0		U		50
PW-B	3-Nitroaniline	UG/L	20		U		50
PW-B	4,6-Dinitro-2-methylphenol	UG/L	20		U		50
PW-B	4-Bromophenyl-phenylether	UG/L	5.0		U		10
PW-B	4-Chloro-3-methylphenol	UG/L	5.0		U		20
PW-B	4-Chloroaniline	UG/L	5.0		U		20
PW-B	4-Chlorophenyl-phenyl ether	UG/L	5.0		U		10
PW-B	4-Nitroaniline	UG/L	20		U		50
PW-B	4-Nitrophenol	UG/L	20		U		50
PW-B	Acenaphthene	UG/L	5.0		U		10
PW-B	Acenaphthylene	UG/L	5.0		U		10
PW-B	Anthracene	UG/L	5.0		U		10
PW-B	Benzo(a)anthracene	UG/L	5.0		U		10
PW-B	Benzo(a)pyrene	UG/L	5.0		U		10
PW-B	Benzo(b)fluoranthene	UG/L	5.0		U		10
PW-B	Benzo(g,h,i)perylene	UG/L	5.0		U		10
PW-B	Benzo(k)fluoranthene	UG/L	5.0		U		10
PW-B	Bis(2-chloroethoxy)methane	UG/L	5.0		U		10
PW-B	bis(2-chloroethyl) ether	UG/L	5.0		U		10
PW-B	Bis(2-ethylhexyl)phthalate	UG/L	5.0		U		10
PW-B	Butylbenzylphthalate	UG/L	5.0		U		10
PW-B	Carbazole	UG/L	NA		U		10
PW-B	Chrysene	UG/L	5.0		U		10
PW-B	Dibenzo(a,h)anthracene	UG/L	5.0		U	UJ	10
PW-B	Dibenzofuran	UG/L	5.0		U		10
PW-B	Diethylphthalate	UG/L	5.0		U		10
PW-B	Dimethylphthalate	UG/L	5.0		U		10
PW-B	Di-n-butylphthalate	UG/L	5.0	4.7	J		10
PW-B	Di-n-octylphthalate	UG/L	5.0		U	UJ	10
PW-B	Fluoranthene	UG/L	5.0		U		10
PW-B	Fluorene	UG/L	5.0		U		10
PW-B	Hexachlorobenzene	UG/L	5.0		U		10
PW-B	Hexachlorobutadiene	UG/L	5.0		U		10

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptPWNewResultsSVOC]
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Residential Well Semivolatile Organic Results - October 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-B	Hexachlorocyclopentadiene	UG/L	5.0		U	UJ	10
PW-B	Hexachloroethane	UG/L	5.0		U		10
PW-B	Indeno(1,2,3-cd)pyrene	UG/L	5.0		U		10
PW-B	Isophorone	UG/L	5.0		U		10
PW-B	m-Cresol	UG/L	NA		U		10
PW-B	Naphthalene	UG/L	5.0		U		10
PW-B	Nitrobenzene	UG/L	5.0		U		10
PW-B	N-Nitroso-di-n-propylamine	UG/L	5.0		U		10
PW-B	N-Nitrosodiphenylamine	UG/L	5.0		U		10
PW-B	Pentachlorophenol	UG/L	20		U		50
PW-B	Phenanthrene	UG/L	5.0		U		10
PW-B	Phenol	UG/L	5.0		U		10
PW-B	Pyrene	UG/L	5.0		U		10
PW-C	2,4,5-Trichlorophenol	UG/L	20		U		9.9
PW-C	2,4,6-Trichlorophenol	UG/L	5.0		U		9.9
PW-C	2,4-Dichlorophenol	UG/L	5.0		U		9.9
PW-C	2,4-Dimethylphenol	UG/L	5.0		U		9.9
PW-C	2,4-Dinitrophenol	UG/L	20		U		50
PW-C	2,4-Dinitrotoluene	UG/L	5.0		U		9.9
PW-C	2,6-Dinitrotoluene	UG/L	5.0		U		9.9
PW-C	2-Chloronaphthalene	UG/L	5.0		U		9.9
PW-C	2-Chlorophenol	UG/L	5.0		U		9.9
PW-C	2-Methylnaphthalene	UG/L	5.0		U		9.9
PW-C	2-Methylphenol	UG/L	5.0		U		9.9
PW-C	2-Nitroaniline	UG/L	20		U		50
PW-C	2-Nitrophenol	UG/L	5.0		U		9.9
PW-C	3,3'-Dichlorobenzidine	UG/L	5.0		U		50
PW-C	3-Nitroaniline	UG/L	20		U		50
PW-C	4,6-Dinitro-2-methylphenol	UG/L	20		U		50
PW-C	4-Bromophenyl-phenylether	UG/L	5.0		U		9.9
PW-C	4-Chloro-3-methylphenol	UG/L	5.0		U		20
PW-C	4-Chloroaniline	UG/L	5.0		U		20
PW-C	4-Chlorophenyl-phenyl ether	UG/L	5.0		U		9.9
PW-C	4-Nitroaniline	UG/L	20		U		50
PW-C	4-Nitrophenol	UG/L	20		U		50
PW-C	Acenaphthene	UG/L	5.0		U		9.9
PW-C	Acenaphthylene	UG/L	5.0		U		9.9
PW-C	Anthracene	UG/L	5.0		U		9.9
PW-C	Benzo(a)anthracene	UG/L	5.0		U		9.9
PW-C	Benzo(a)pyrene	UG/L	5.0		U		9.9
PW-C	Benzo(b)fluoranthene	UG/L	5.0		U		9.9
PW-C	Benzo(g,h,i)perylene	UG/L	5.0		U		9.9
PW-C	Benzo(k)fluoranthene	UG/L	5.0		U		9.9
PW-C	Bis(2-chloroethoxy)methane	UG/L	5.0		U		9.9
PW-C	bis(2-chloroethyl) ether	UG/L	5.0		U		9.9
PW-C	Bis(2-ethylhexyl)phthalate	UG/L	5.0		U		9.9

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptPWNewResultsSVOC]
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Residential Well Semivolatile Organic Results - October 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-C	Butylbenzylphthalate	UG/L	5.0		U		9.9
PW-C	Carbazole	UG/L	NA		U		9.9
PW-C	Chrysene	UG/L	5.0		U		9.9
PW-C	Dibenzo(a,h)anthracene	UG/L	5.0		U	UJ	9.9
PW-C	Dibenzofuran	UG/L	5.0		U		9.9
PW-C	Diethylphthalate	UG/L	5.0		U		9.9
PW-C	Dimethylphthalate	UG/L	5.0		U		9.9
PW-C	Di-n-butylphthalate	UG/L	5.0		U		9.9
PW-C	Di-n-octylphthalate	UG/L	5.0		U	UJ	9.9
PW-C	Fluoranthene	UG/L	5.0		U		9.9
PW-C	Fluorene	UG/L	5.0		U		9.9
PW-C	Hexachlorobenzene	UG/L	5.0		U		9.9
PW-C	Hexachlorobutadiene	UG/L	5.0		U		9.9
PW-C	Hexachlorocyclopentadiene	UG/L	5.0		U	UJ	9.9
PW-C	Hexachloroethane	UG/L	5.0		U		9.9
PW-C	Indeno(1,2,3-cd)pyrene	UG/L	5.0		U		9.9
PW-C	Isophorone	UG/L	5.0		U		9.9
PW-C	m-Cresol	UG/L	NA		U		9.9
PW-C	Naphthalene	UG/L	5.0		U		9.9
PW-C	Nitrobenzene	UG/L	5.0		U		9.9
PW-C	N-Nitroso-di-n-propylamine	UG/L	5.0		U		9.9
PW-C	N-Nitrosodiphenylamine	UG/L	5.0		U		9.9
PW-C	Pentachlorophenol	UG/L	20		U		50
PW-C	Phenanthrene	UG/L	5.0		U		9.9
PW-C	Phenol	UG/L	5.0		U		9.9
PW-C	Pyrene	UG/L	5.0		U		9.9
PW-D	2,4,5-Trichlorophenol	UG/L	20		U		11
PW-D	2,4,6-Trichlorophenol	UG/L	5.0		U		11
PW-D	2,4-Dichlorophenol	UG/L	5.0		U		11
PW-D	2,4-Dimethylphenol	UG/L	5.0		U		11
PW-D	2,4-Dinitrophenol	UG/L	20		U		53
PW-D	2,4-Dinitrotoluene	UG/L	5.0		U		11
PW-D	2,6-Dinitrotoluene	UG/L	5.0		U		11
PW-D	2-Chloronaphthalene	UG/L	5.0		U		11
PW-D	2-Chlorophenol	UG/L	5.0		U		11
PW-D	2-Methylnaphthalene	UG/L	5.0		U		11
PW-D	2-Methylphenol	UG/L	5.0		U		11
PW-D	2-Nitroaniline	UG/L	20		U		53
PW-D	2-Nitrophenol	UG/L	5.0		U		11
PW-D	3,3'-Dichlorobenzidine	UG/L	5.0		U	UJ	53
PW-D	3-Nitroaniline	UG/L	20		U		53
PW-D	4,6-Dinitro-2-methylphenol	UG/L	20		U		53
PW-D	4-Bromophenyl-phenylether	UG/L	5.0		U		11
PW-D	4-Chloro-3-methylphenol	UG/L	5.0		U		21
PW-D	4-Chloroaniline	UG/L	5.0		U		21
PW-D	4-Chlorophenyl-phenyl ether	UG/L	5.0		U		11

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb[rptPWNewResultsSVOC]
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Residential Well Semivolatile Organic Results - October 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-D	4-Nitroaniline	UG/L	20		U		53
PW-D	4-Nitrophenol	UG/L	20		U		53
PW-D	Acenaphthene	UG/L	5.0		U		11
PW-D	Acenaphthylene	UG/L	5.0		U		11
PW-D	Anthracene	UG/L	5.0		U		11
PW-D	Benzo(a)anthracene	UG/L	5.0		U	UJ	11
PW-D	Benzo(a)pyrene	UG/L	5.0		U	UJ	11
PW-D	Benzo(b)fluoranthene	UG/L	5.0		U	UJ	11
PW-D	Benzo(g,h,i)perylene	UG/L	5.0		U	UJ	11
PW-D	Benzo(k)fluoranthene	UG/L	5.0		U	UJ	11
PW-D	Bis(2-chloroethoxy)methane	UG/L	5.0		U		11
PW-D	bis(2-chloroethyl) ether	UG/L	5.0		U		11
PW-D	Bis(2-ethylhexyl)phthalate	UG/L	5.0		U	UJ	11
PW-D	Butylbenzylphthalate	UG/L	5.0		U	UJ	11
PW-D	Carbazole	UG/L	5.0		U		11
PW-D	Chrysene	UG/L	5.0		U	UJ	11
PW-D	Dibenzo(a,h)anthracene	UG/L	5.0		U	UJ	11
PW-D	Dibenzofuran	UG/L	5.0		U		11
PW-D	Diethylphthalate	UG/L	5.0		U		11
PW-D	Dimethylphthalate	UG/L	5.0		U		11
PW-D	Di-n-butylphthalate	UG/L	5.0		U		11
PW-D	Di-n-octylphthalate	UG/L	5.0		U	UJ	11
PW-D	Fluoranthene	UG/L	5.0		U		11
PW-D	Fluorene	UG/L	5.0		U		11
PW-D	Hexachlorobenzene	UG/L	5.0		U		11
PW-D	Hexachlorobutadiene	UG/L	5.0		U		11
PW-D	Hexachlorocyclopentadiene	UG/L	5.0		U	UJ	11
PW-D	Hexachloroethane	UG/L	5.0		U		11
PW-D	Indeno(1,2,3-cd)pyrene	UG/L	5.0		U	UJ	11
PW-D	Isophorone	UG/L	5.0		U		11
PW-D	m-Cresol	UG/L	NA		U		11
PW-D	Naphthalene	UG/L	5.0		U		11
PW-D	Nitrobenzene	UG/L	5.0		U		11
PW-D	N-Nitroso-di-n-propylamine	UG/L	5.0		U		11
PW-D	N-Nitrosodiphenylamine	UG/L	5.0		U		11
PW-D	Pentachlorophenol	UG/L	20		U		53
PW-D	Phenanthrene	UG/L	5.0		U		11
PW-D	Phenol	UG/L	5.0		U		11
PW-D	Pyrene	UG/L	5.0		U	UJ	11

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

Residential Well Inorganic Results - October 2008
Comparison to Maximum Baseline Detections
American Chemical Services NPL Site
Griffith, Indiana

Well	Analyte	Units	Highest Detect during Baseline	Current Event			
				Result	LQ	DQ	Detect Limit
PW-C	Thallium	UG/L	3.0	**5.9**	J	UB	50
PW-D	Thallium	UG/L	3.0		U		50

BOLD = Exceedance of Highest Baseline Detection

For an explanation of Laboratory Qualifiers (LQ) and Data Validation Qualifier (DQ), please see Appendix C.

JEF/TPC
J:\405\0577 ACS\0301 GW Mon\GW Monitoring Database\Current Database (Sept 2005)\ACS GW Database_2000.mdb [rptPWNewResultsInorg]
4050577

Appendix B

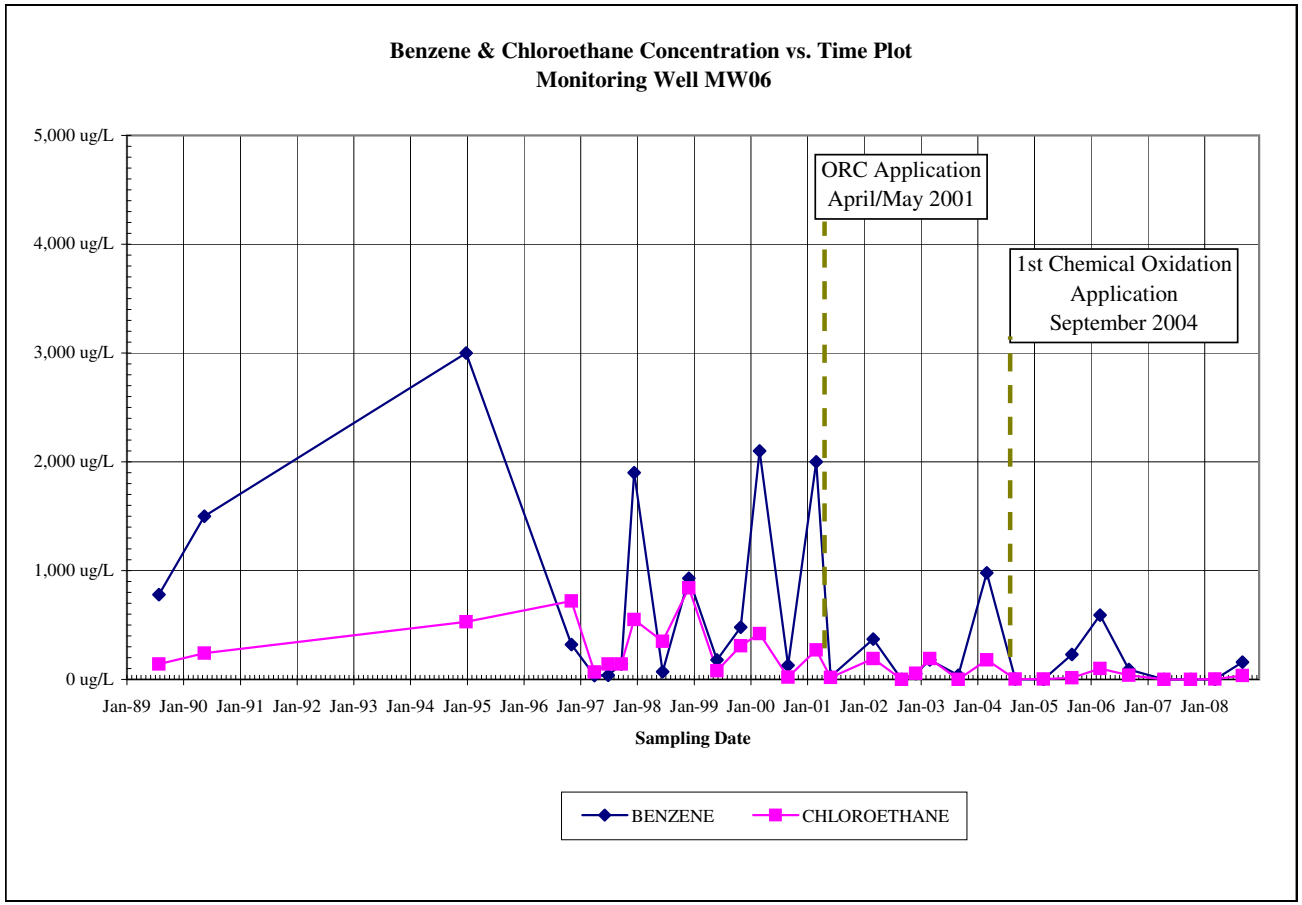
Concentration Vs. Time Plots

Upper Aquifer Monitoring Wells	Lower Aquifer Monitoring Wells
MW06	MW08
MW11	MW09R
MW12	MW10C
MW13	MW23
MW14	MW28
MW15	MW29
MW17	MW30
MW19	MW31
MW37	MW32
MW39	MW33
MW42	MW51
MW43	MW52
MW44	MW53
MW45	MW54R
MW48	MW55
MW49	MW56

Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW06

DATE	BENZENE	CHLOROETHANE
BASELINE	**320**	**720**
August-89	780 ug/L	140 ug/L
May-90	1,500 ug/L	240 ug/L
December-94	3,000 ug/L	530 ug/L
November-96	320 ug/L	720 ug/L
April-97	35 ug/L	67 ug/L
July-97	39 ug/L	140 ug/L
September-97	140 ug/L	140 ug/L
December-97	1,900 ug/L	550 ug/L
June-98	72 ug/L	350 ug/L
December-98	930 ug/L	840 ug/L
June-99	180 ug/L	78 ug/L
November-99	480 ug/L	310 ug/L
March-00	2,100 ug/L	420 ug/L
September-00	130 ug/L	22 ug/L
March-01	2,000 ug/L	270 ug/L
June-01	26 ug/L	18 ug/L
March-02	370 ug/L	190 ug/L
September-02	BDL	BDL
December-02	54 ug/L	56 ug/L
March-03	180 ug/L	190 ug/L
September-03	39 ug/L	BDL
March-04	980 ug/L	180 ug/L
September-04	2.7 ug/L	2.6 ug/L
March-05	BDL	3 ug/L
September-05	230 ug/L	14 ug/L
March-06	590 ug/L	100 ug/L
September-06	91 ug/L	37 ug/L
April-07	BDL	BDL
October-07	BDL	0.9 ug/L
March-08	BDL	3.1 ug/L
September-08	160 ug/L	36.0 ug/L

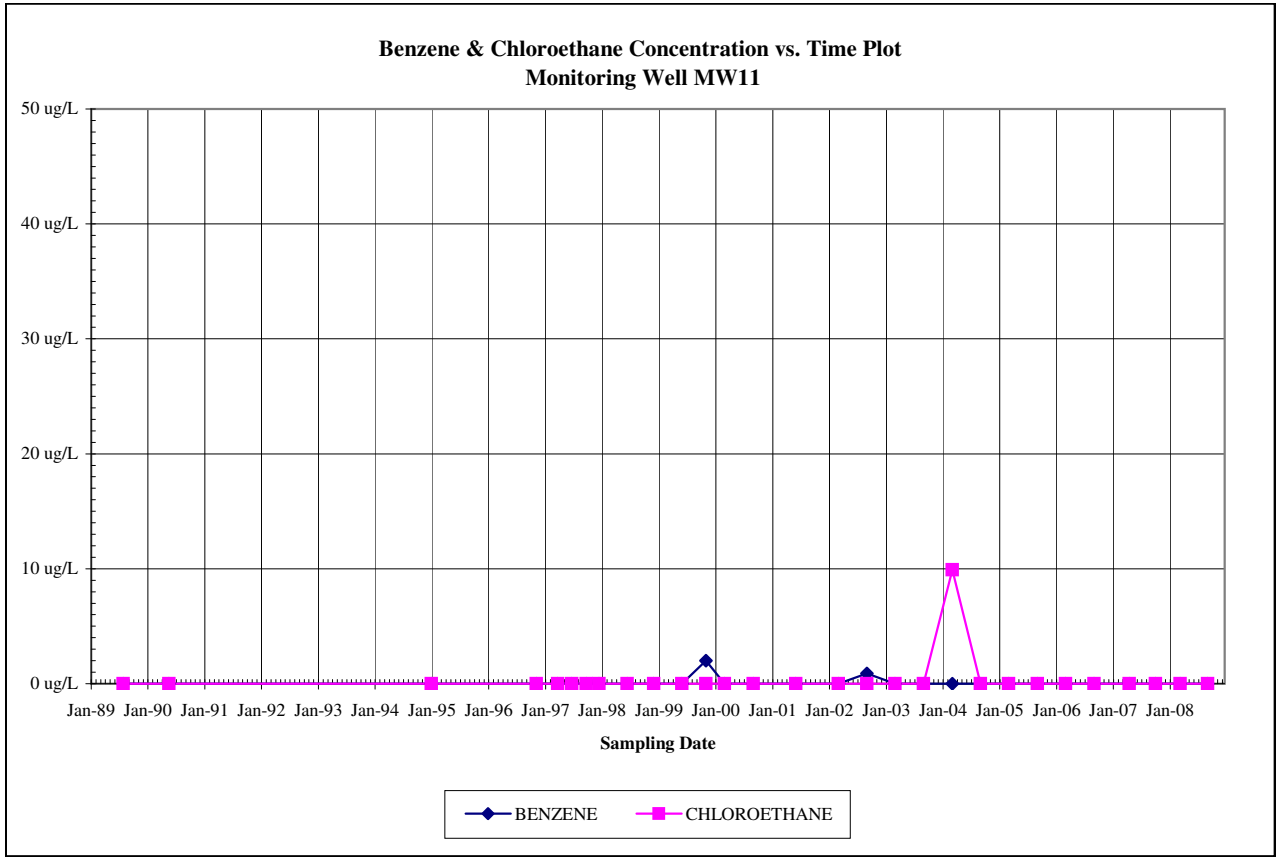
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW11

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89	BDL	BDL
May-90	BDL	BDL
January-95	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	2 ug/L	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	0.9 ug/L	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	9.9
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

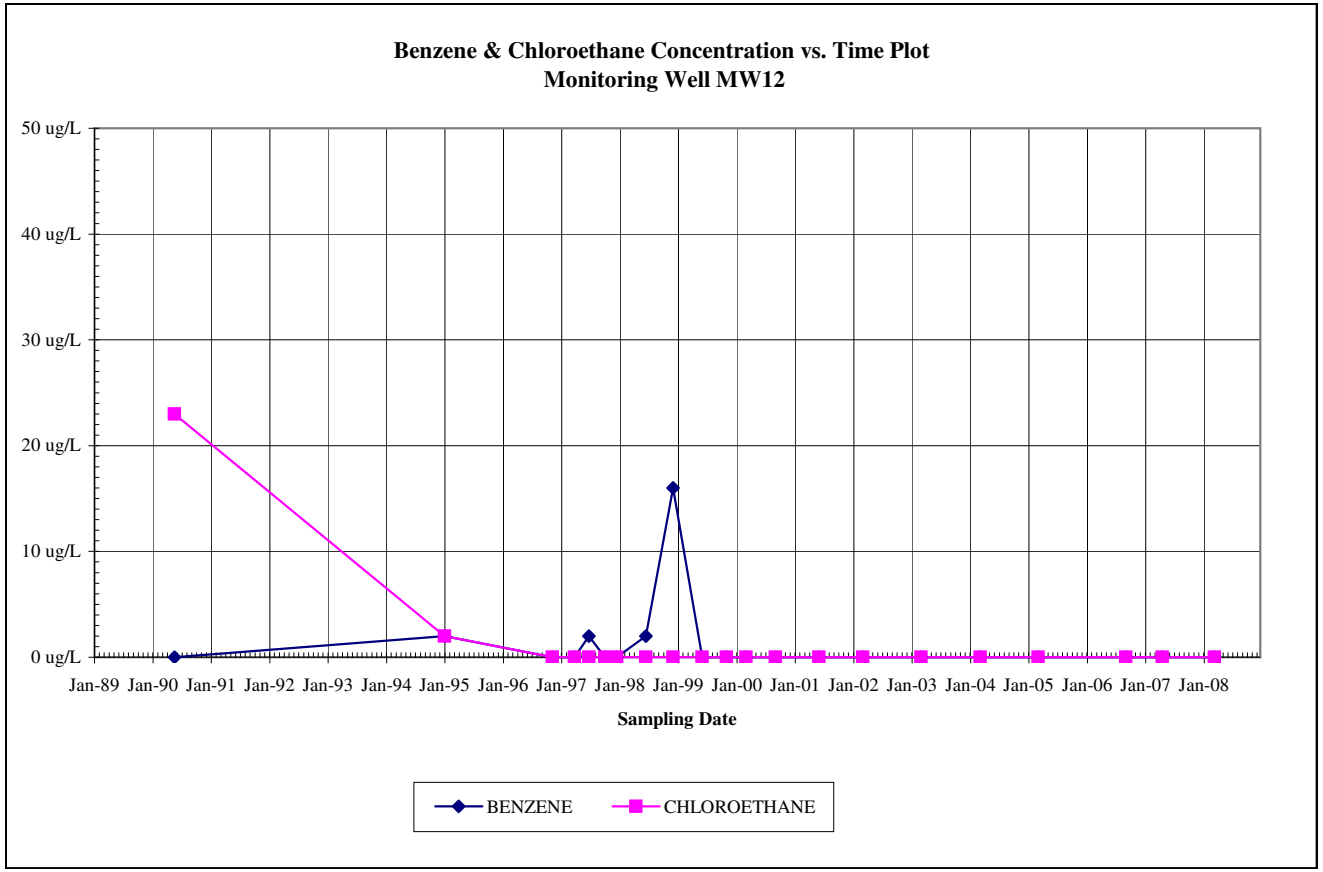
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW12

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90	BDL	23 ug/L
January-95	2 ug/L	2 ug/L
November-96	BDL	BDL
March-97	BDL	BDL
June-97	2 ug/L	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	16 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
March-03	BDL	BDL
March-04	BDL	BDL
March-05	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
March-08	BDL	BDL

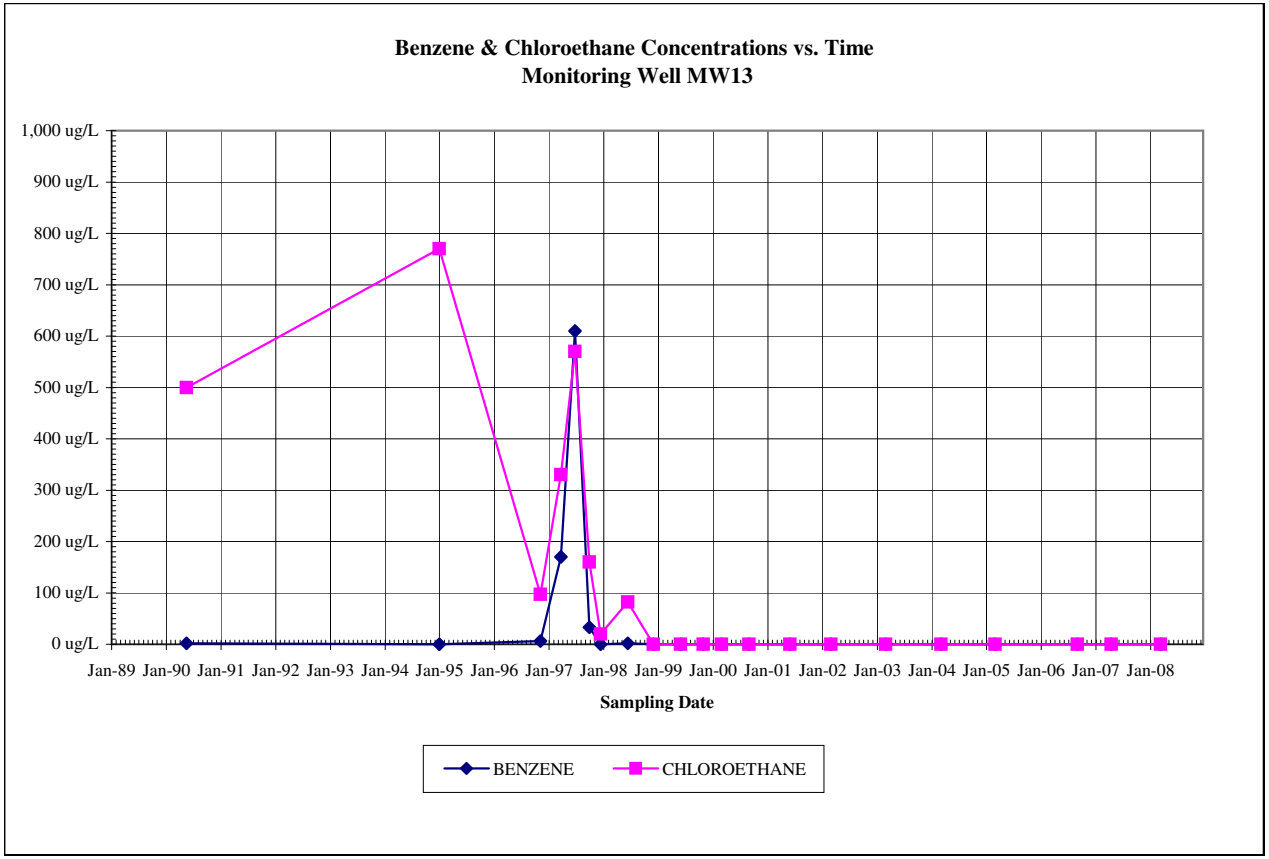
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW13

DATE	BENZENE	CHLOROETHANE
BASELINE	**610**	**570**
August-89		
May-90	2 ug/L	500 ug/L
January-95	BDL	770 ug/L
November-96	6 ug/L	97 ug/L
March-97	170 ug/L	330 ug/L
June-97	610 ug/L	570 ug/L
October-97	33 ug/L	160 ug/L
December-97	BDL	20 ug/L
June-98	2 ug/L	82 ug/L
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
March-03	BDL	BDL
March-04	BDL	BDL
March-05	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
March-08	BDL	BDL

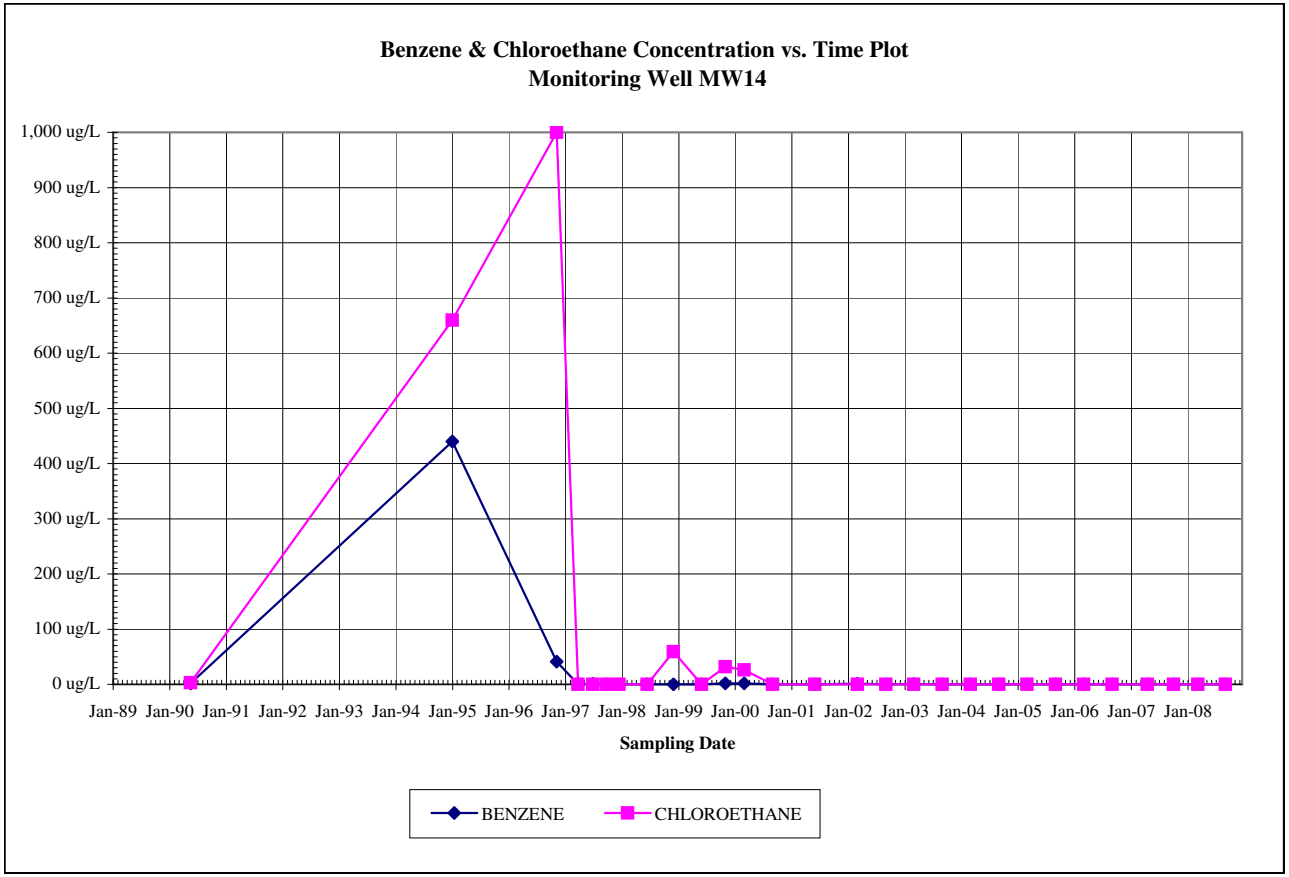
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW14

DATE	BENZENE	CHLOROETHANE
BASELINE	**41**	**1000**
August-89		
May-90	2 ug/L	3 ug/L
January-95	440 ug/L	660 ug/L
November-96	41 ug/L	1,000 ug/L
March-97	BDL	BDL
June-97	1 ug/L	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	59 ug/L
June-99	BDL	BDL
November-99	2 ug/L	32 ug/L
March-00	2 ug/L	26 ug/L
September-00	BDL	BDL
June-01	BDL	BDL
March-02	1 ug/L	BDL
September-02	BDL	BDL
March-03	0.7 ug/L	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

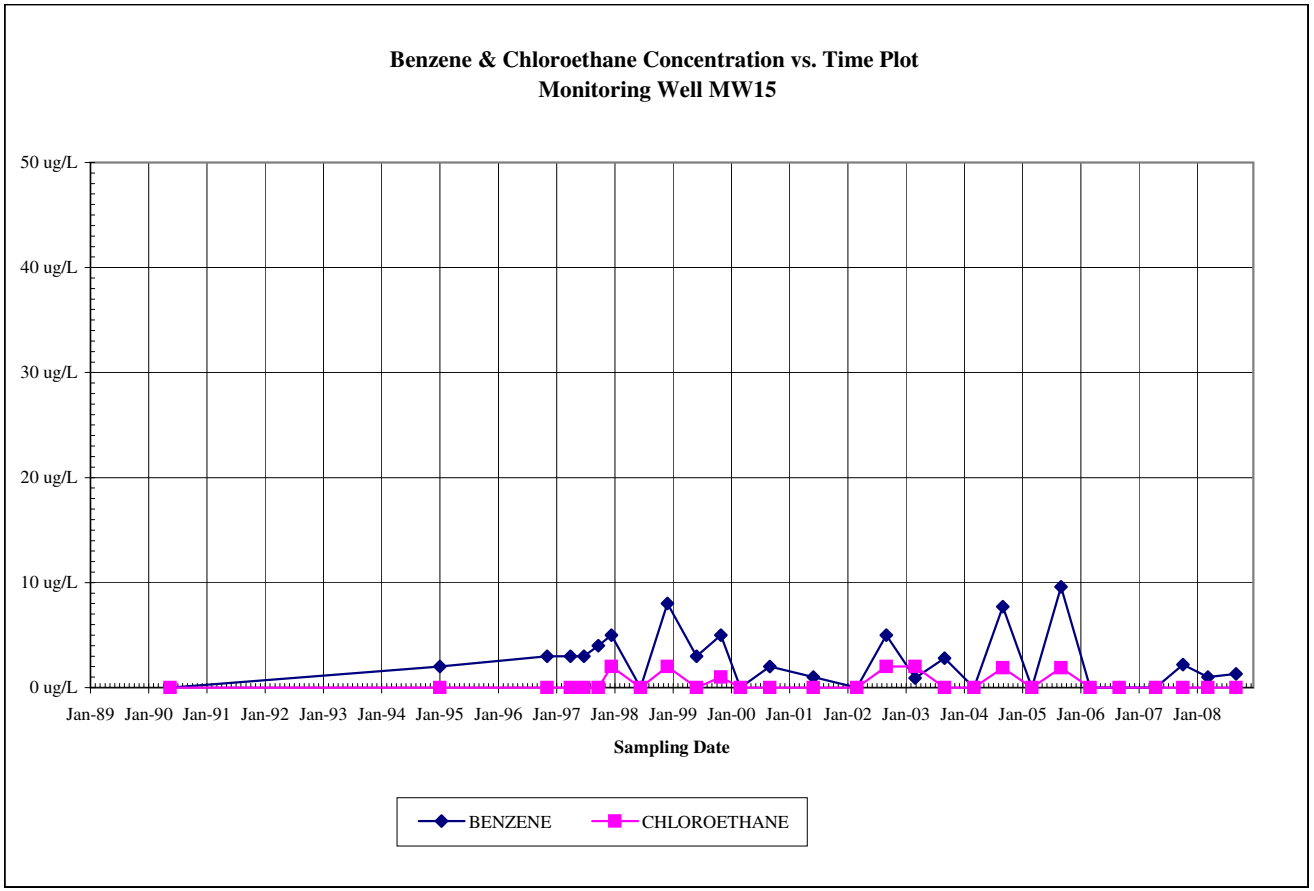
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW15

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90	BDL	BDL
January-95	2 ug/L	BDL
November-96	3 ug/L	BDL
April-97	3 ug/L	BDL
June-97	3 ug/L	BDL
September-97	4 ug/L	BDL
December-97	5 ug/L	2 ug/L
June-98	BDL	BDL
December-98	8 ug/L	2 ug/L
June-99	3 ug/L	BDL
November-99	5 ug/L	1 ug/L
March-00	BDL	BDL
September-00	2 ug/L	BDL
June-01	1 ug/L	BDL
March-02	BDL	BDL
September-02	5 ug/L	2 ug/L
March-03	1 ug/L	2 ug/L
September-03	2.8 ug/L	BDL
March-04	BDL	BDL
September-04	7.7 ug/L	1.9 ug/L
March-05	BDL	BDL
September-05	9.6 ug/L	1.9 ug/L
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	2.2 ug/L	BDL
March-08	1.0 ug/L	BDL
September-08	1.3 ug/L	BDL

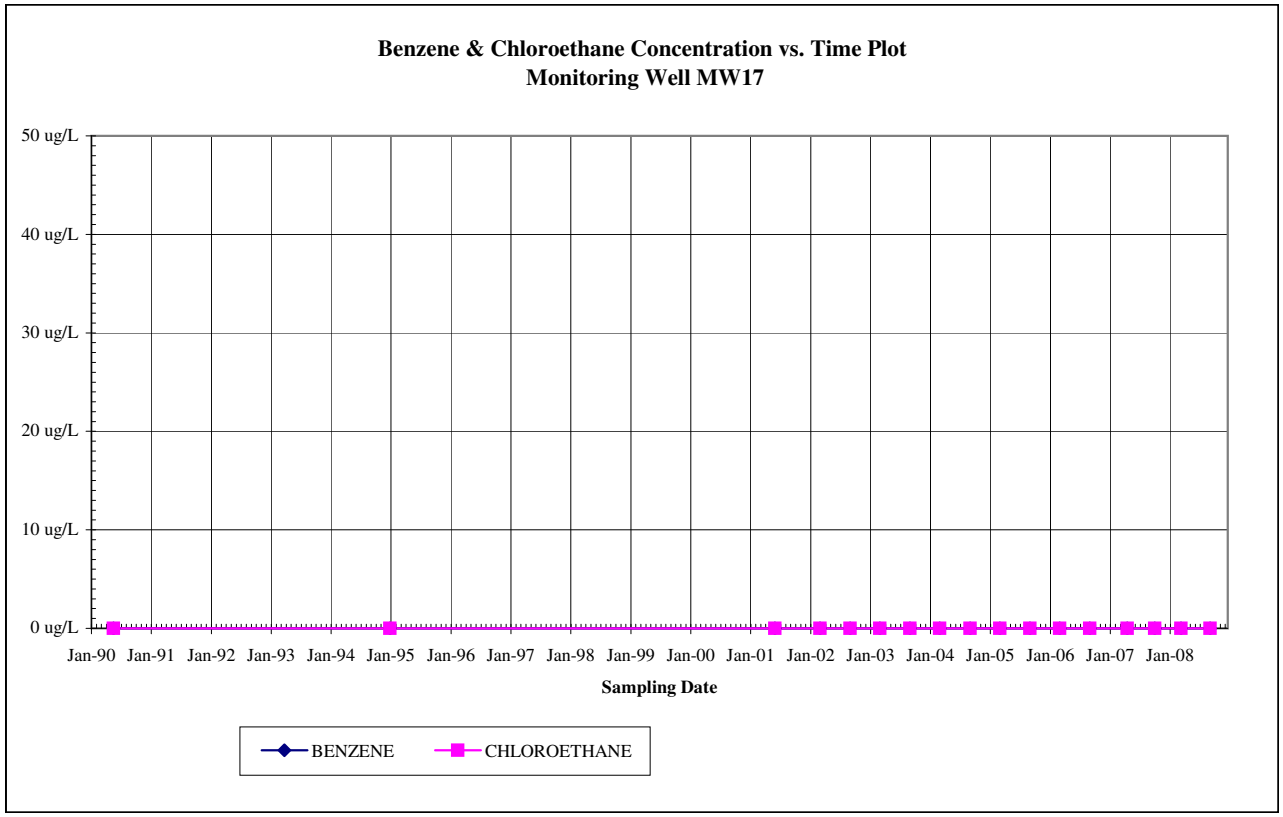
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW17

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
May-90	BDL	BDL
December-94	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

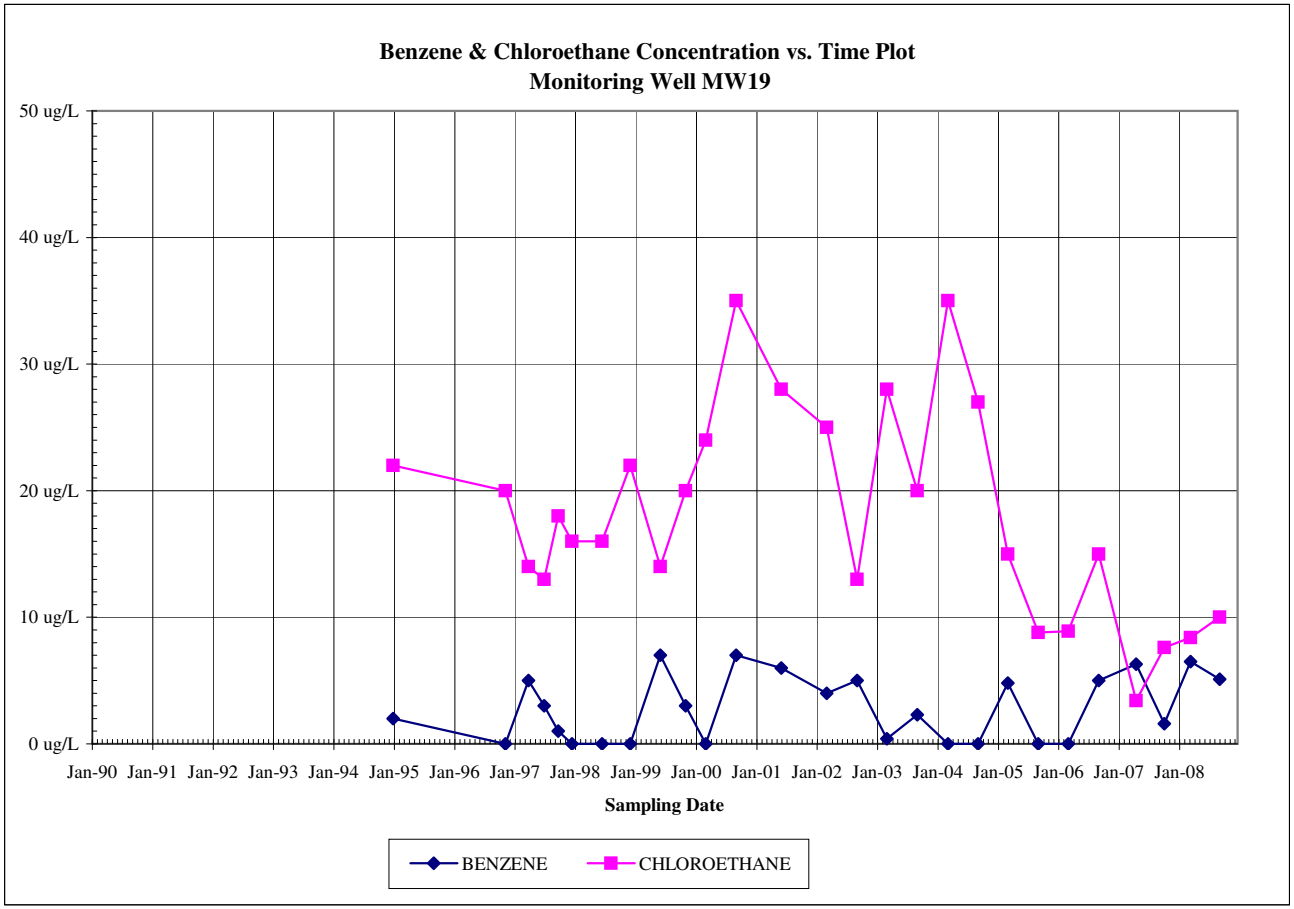
BDL = Below the Detection Limit
Baseline values adopted from nearby abandoned well MW18



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW19

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**20**
August-89		
May-90		
December-94	2 ug/L	22 ug/L
November-96	BDL	20 ug/L
March-97	5 ug/L	14 ug/L
June-97	3 ug/L	13 ug/L
September-97	1 ug/L	18 ug/L
December-97	BDL	16 ug/L
June-98	BDL	16 ug/L
December-98	BDL	22 ug/L
June-99	7 ug/L	14 ug/L
November-99	3 ug/L	20 ug/L
March-00	BDL	24 ug/L
September-00	7 ug/L	35 ug/L
June-01	6 ug/L	28 ug/L
March-02	4 ug/L	25 ug/L
September-02	5 ug/L	13 ug/L
March-03	0.4 ug/L	28 ug/L
September-03	2.3 ug/L	20 ug/L
March-04	BDL	35 ug/L
September-04	BDL	27 ug/L
March-05	4.8 ug/L	15 ug/L
September-05	BDL	8.8 ug/L
March-06	BDL	8.9 ug/L
September-06	5.0 ug/L	15.0 ug/L
April-07	6.3 ug/L	3.4 ug/L
October-07	1.6 ug/L	7.6 ug/L
March-08	6.5 ug/L	8.4 ug/L
September-08	5.1 ug/L	10.0 ug/L

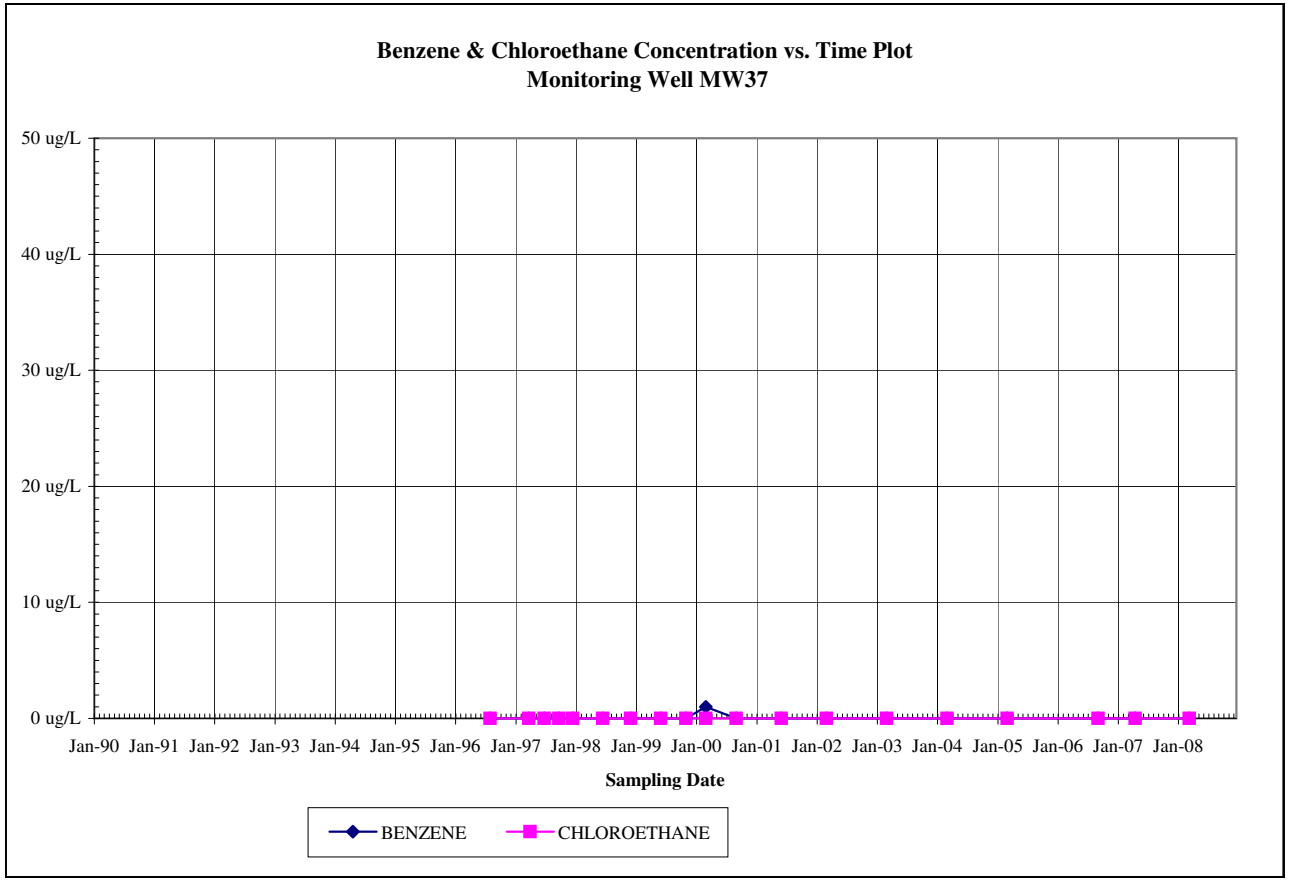
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW37

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	1 ug/L	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
March-03	BDL	BDL
March-04	BDL	BDL
March-05	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
March-08	BDL	BDL

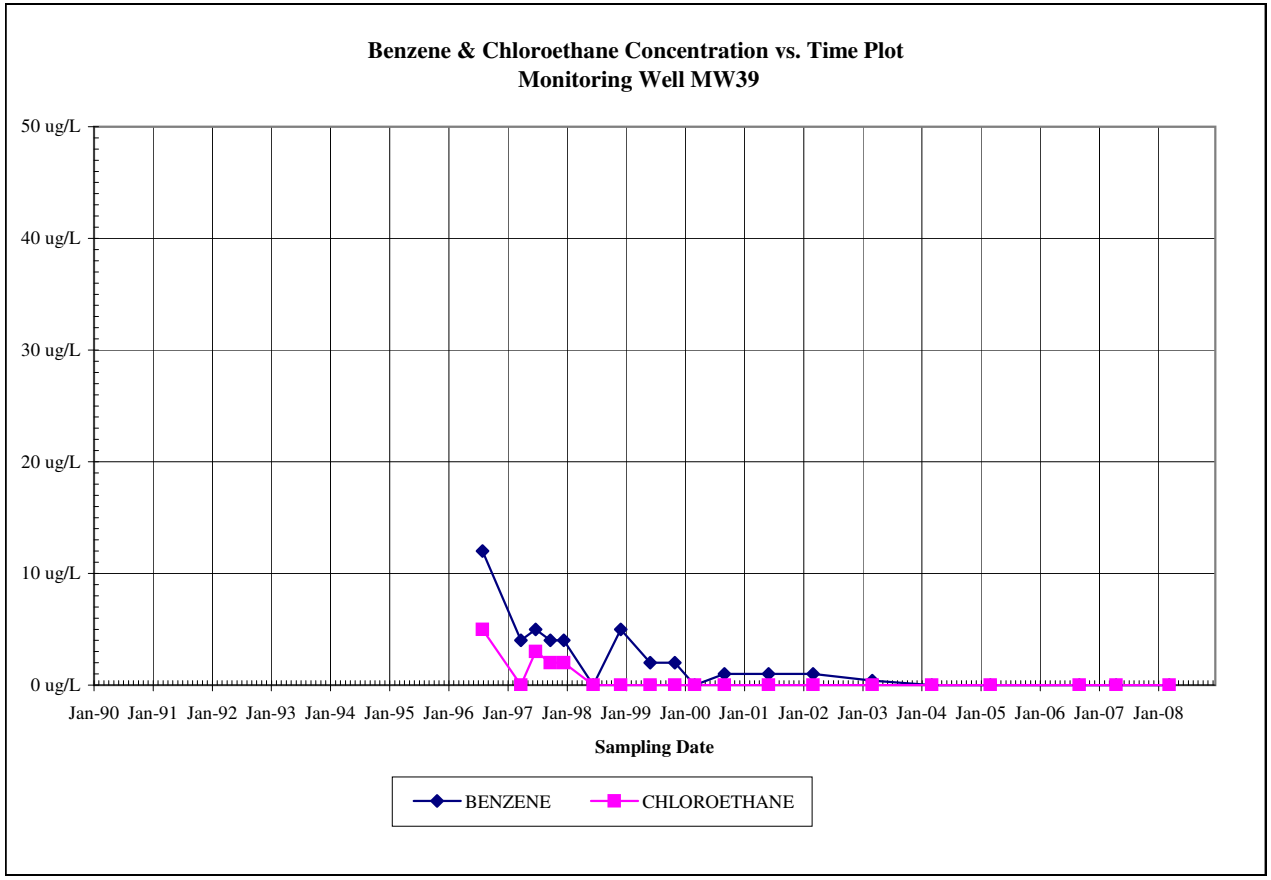
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW39

DATE	BENZENE	CHLOROETHANE
BASELINE	**12**	**10**
August-89		
May-90		
December-94		
August-96	12 ug/L	5 ug/L
March-97	4 ug/L	BDL
June-97	5 ug/L	3 ug/L
September-97	4 ug/L	2 ug/L
December-97	4 ug/L	2 ug/L
June-98	BDL	BDL
December-98	5 ug/L	BDL
June-99	2 ug/L	BDL
November-99	2 ug/L	BDL
March-00	BDL	BDL
September-00	1 ug/L	BDL
June-01	1 ug/L	BDL
March-02	1 ug/L	BDL
March-03	0.4 ug/L	BDL
March-04	BDL	BDL
March-05	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
March-08	BDL	BDL

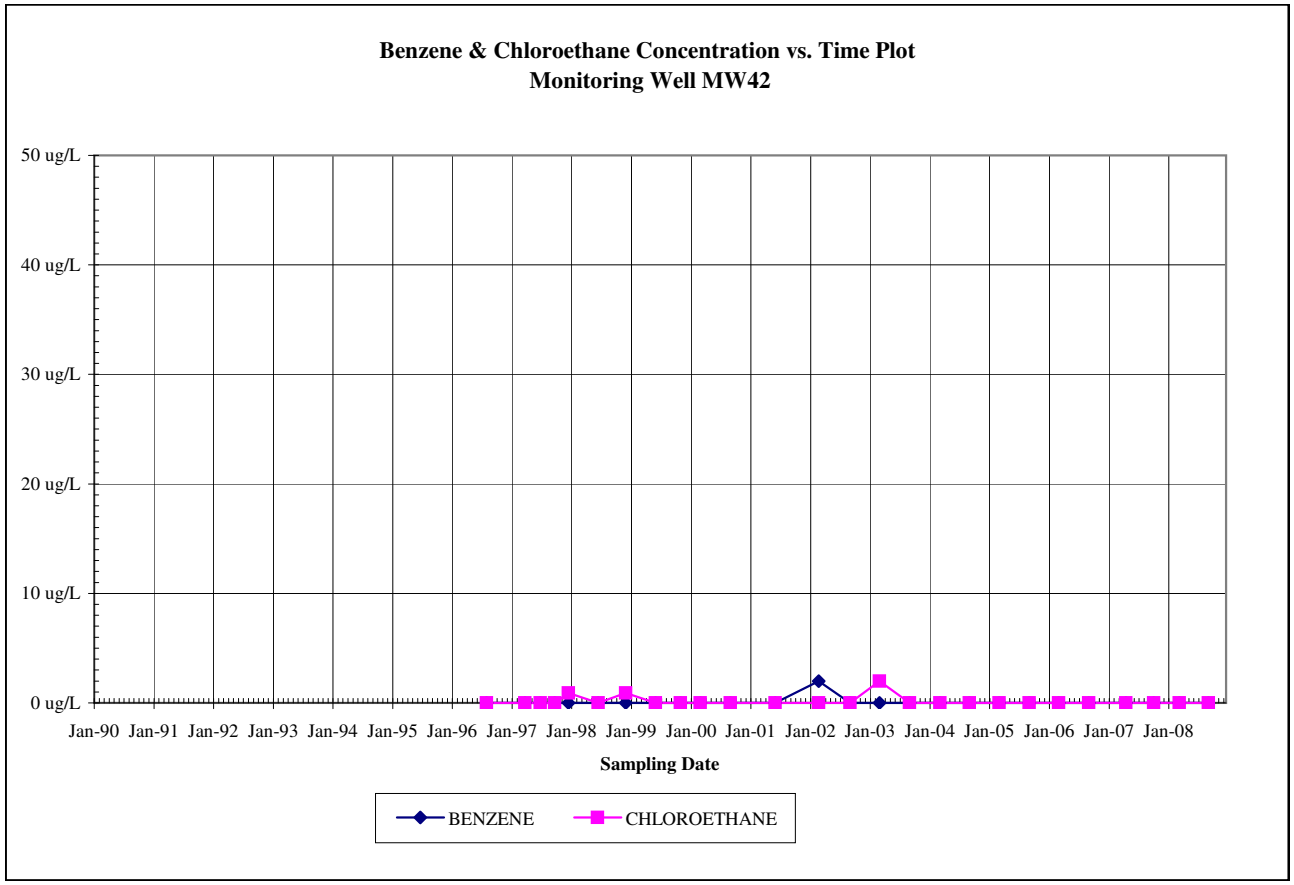
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW42

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	0.9 ug/L
June-98	BDL	BDL
December-98	BDL	0.9 ug/L
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
February-02	2 ug/L	BDL
September-02	BDL	BDL
March-03	BDL	2 ug/L
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

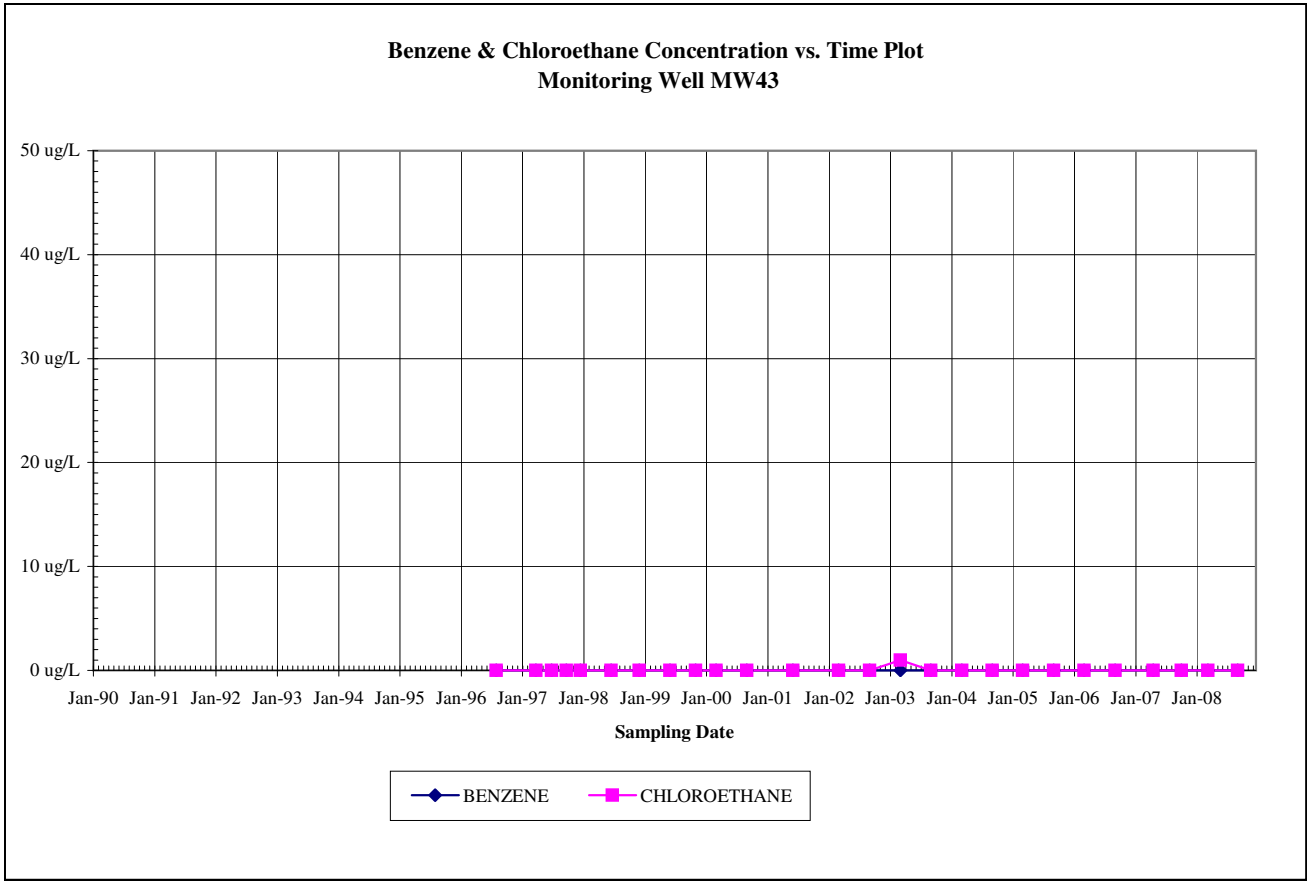
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW43

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	1 ug/L
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

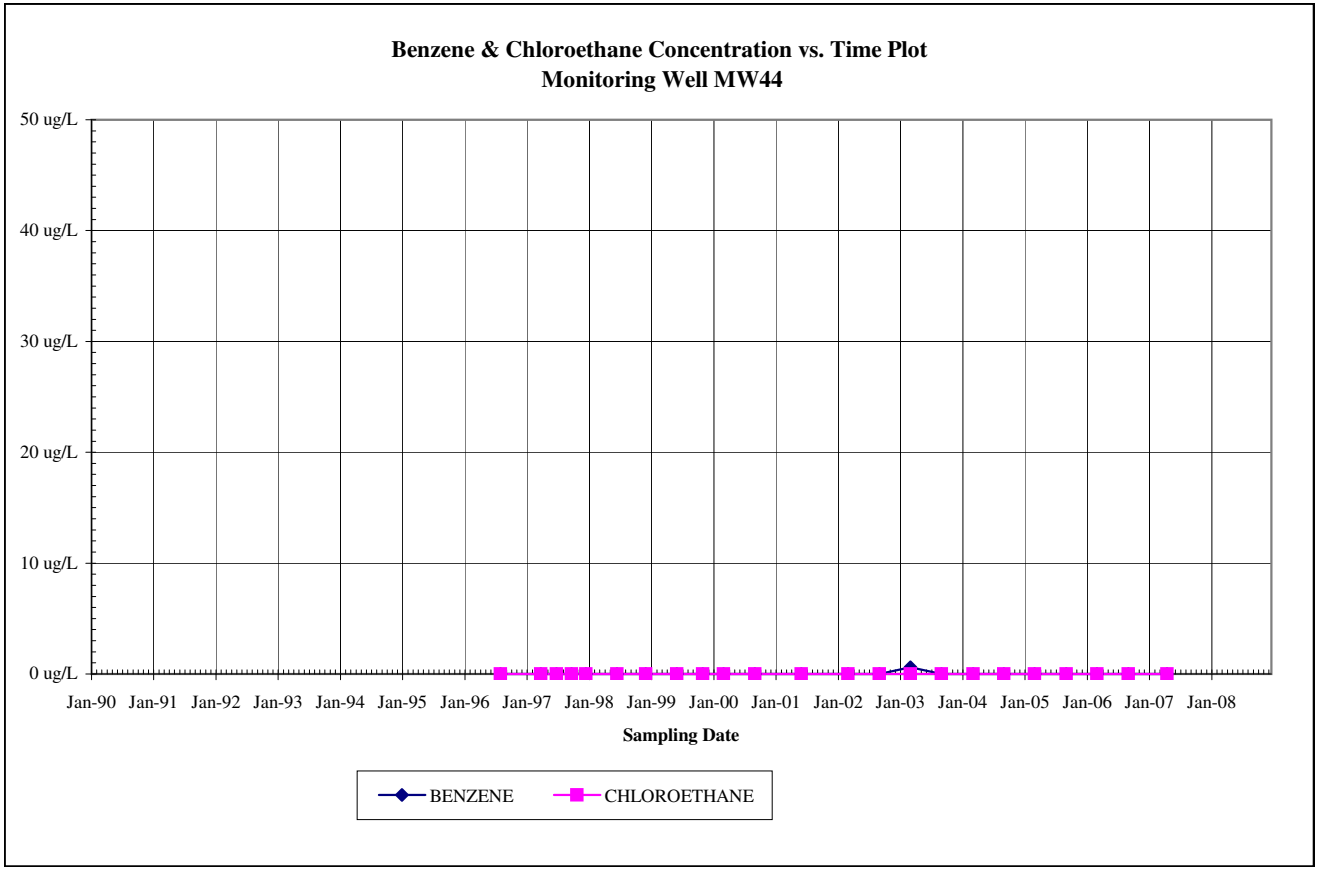
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW44

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
December-94		
August-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	0.6 ug/L	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL

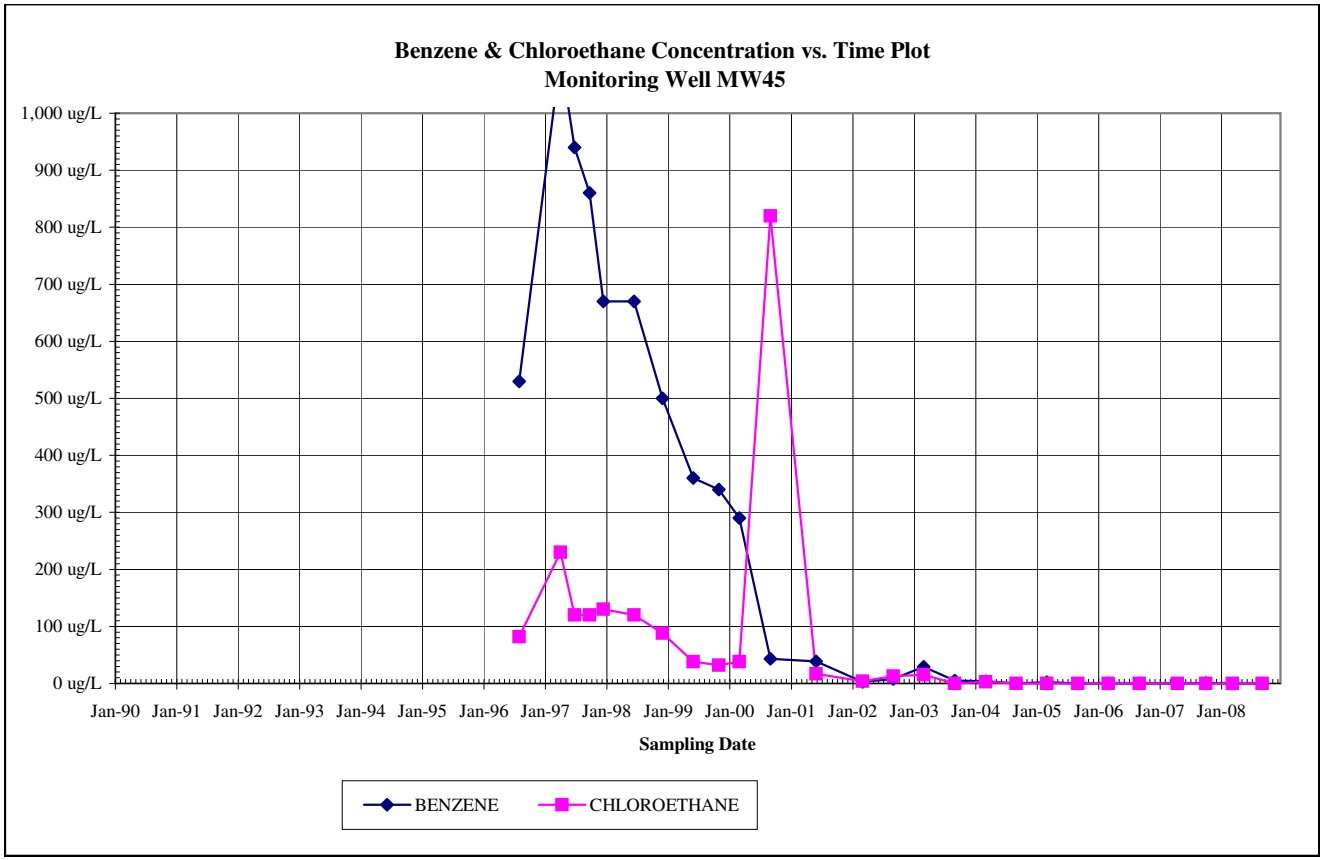
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW45

DATE	BENZENE	CHLOROETHANE
BASELINE	**1045**	**215**
August-89		
May-90		
December-94		
August-96	530 ug/L	82 ug/L
April-97	1,100 ug/L	230 ug/L
June-97	940 ug/L	120 ug/L
September-97	860 ug/L	120 ug/L
December-97	670 ug/L	130 ug/L
June-98	670 ug/L	120 ug/L
December-98	500 ug/L	88 ug/L
June-99	360 ug/L	38 ug/L
November-99	340 ug/L	32 ug/L
March-00	290 ug/L	38 ug/L
September-00	43 ug/L	820 ug/L
June-01	39 ug/L	17 ug/L
March-02	3 ug/L	4 ug/L
September-02	8 ug/L	13 ug/L
March-03	29 ug/L	15 ug/L
September-03	5 ug/L	BDL
March-04	3.7 ug/L	2.7 ug/L
September-04	BDL	BDL
March-05	2.4 ug/L	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	0.4 ug/L	BDL
March-08	BDL	BDL
September-08	BDL	BDL

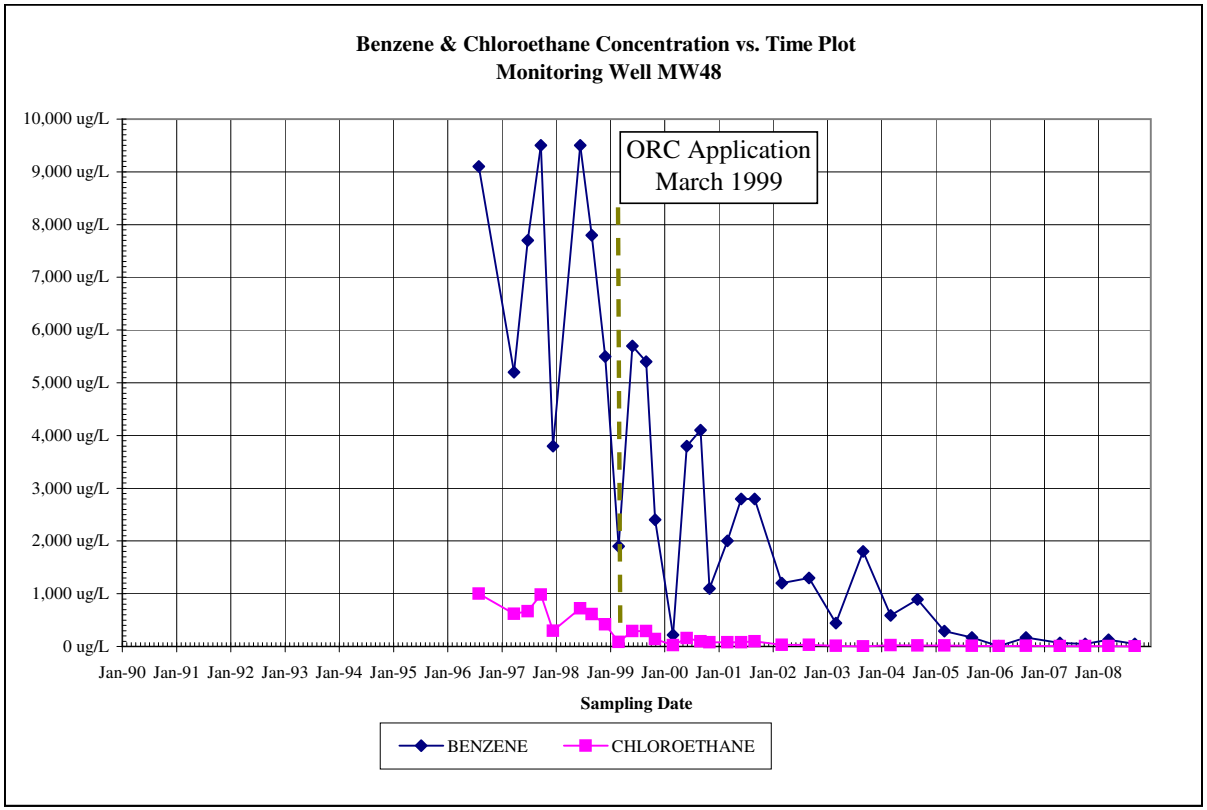
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW48

DATE	BENZENE	CHLOROETHANE
BASELINE	**9500**	**1000**
August-89		
May-90		
December-94		
August-96	9,100 ug/L	1,000 ug/L
March-97	5,200 ug/L	620 ug/L
June-97	7,700 ug/L	670 ug/L
September-97	9,500 ug/L	980 ug/L
December-97	3,800 ug/L	300 ug/L
June-98	9,500 ug/L	720 ug/L
September-98	7,800 ug/L	610 ug/L
December-98	5,500 ug/L	420 ug/L
March-99	1,900 ug/L	83 ug/L
June-99	5,700 ug/L	290 ug/L
September-99	5,400 ug/L	290 ug/L
November-99	2,400 ug/L	140 ug/L
March-00	220 ug/L	24 ug/L
June-00	3,800 ug/L	160 ug/L
September-00	4,100 ug/L	100 ug/L
November-00	1,100 ug/L	78 ug/L
March-01	2,000 ug/L	78 ug/L
June-01	2,800 ug/L	80 ug/L
September-01	2,800 ug/L	100 ug/L
March-02	1,200 ug/L	33 ug/L
September-02	1,300 ug/L	32 ug/L
March-03	440 ug/L	15 ug/L
September-03	1,800 ug/L	BDL
March-04	590 ug/L	22 ug/L
September-04	890 ug/L	20 ug/L
March-05	290 ug/L	19 ug/L
September-05	170 ug/L	11 ug/L
March-06	7.3 ug/L	4.6 ug/L
September-06	170.0 ug/L	15.0 ug/L
April-07	65.0 ug/L	4.7 ug/L
October-07	46.0 ug/L	6.0 ug/L
March-08	130 ug/L	8.4 ug/L
September-08	46 ug/L	BDL

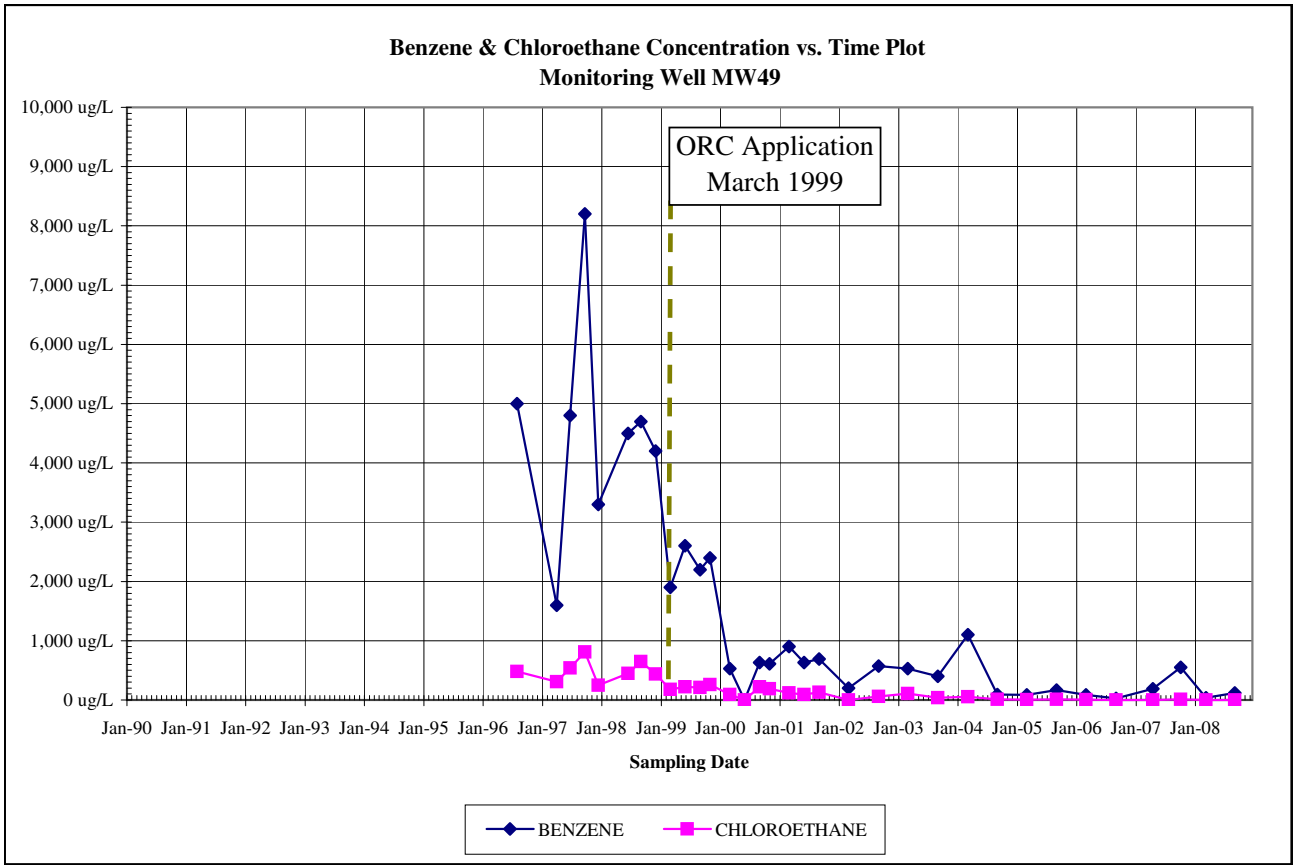
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Upper Aquifer Monitoring Well MW49

DATE	BENZENE	CHLOROETHANE
BASELINE	**6750**	**715**
August-89		
May-90		
December-94		
August-96	5,000 ug/L	480 ug/L
April-97	1,600 ug/L	310 ug/L
June-97	4,800 ug/L	540 ug/L
September-97	8,200 ug/L	810 ug/L
December-97	3,300 ug/L	250 ug/L
June-98	4,500 ug/L	450 ug/L
September-98	4,700 ug/L	650 ug/L
December-98	4,200 ug/L	440 ug/L
March-99	1,900 ug/L	180 ug/L
June-99	2,600 ug/L	220 ug/L
September-99	2,200 ug/L	210 ug/L
November-99	2,400 ug/L	260 ug/L
March-00	530 ug/L	91 ug/L
June-00	BDL	BDL
September-00	630 ug/L	220 ug/L
November-00	610 ug/L	190 ug/L
March-01	900 ug/L	120 ug/L
June-01	630 ug/L	91 ug/L
September-01	690 ug/L	130 ug/L
March-02	200 ug/L	BDL
September-02	570 ug/L	60 ug/L
March-03	530 ug/L	110 ug/L
September-03	400 ug/L	38 ug/L
March-04	1,100 ug/L	52 ug/L
September-04	90 ug/L	11 ug/L
March-05	89 ug/L	5.9 ug/L
September-05	170 ug/L	9.3 ug/L
March-06	86 ug/L	3.3 ug/L
September-06	25 ug/L	BDL
April-07	190 ug/L	BDL
October-07	550 ug/L	10.0 ug/L
March-08	40 ug/L	BDL
September-08	120 ug/L	BDL

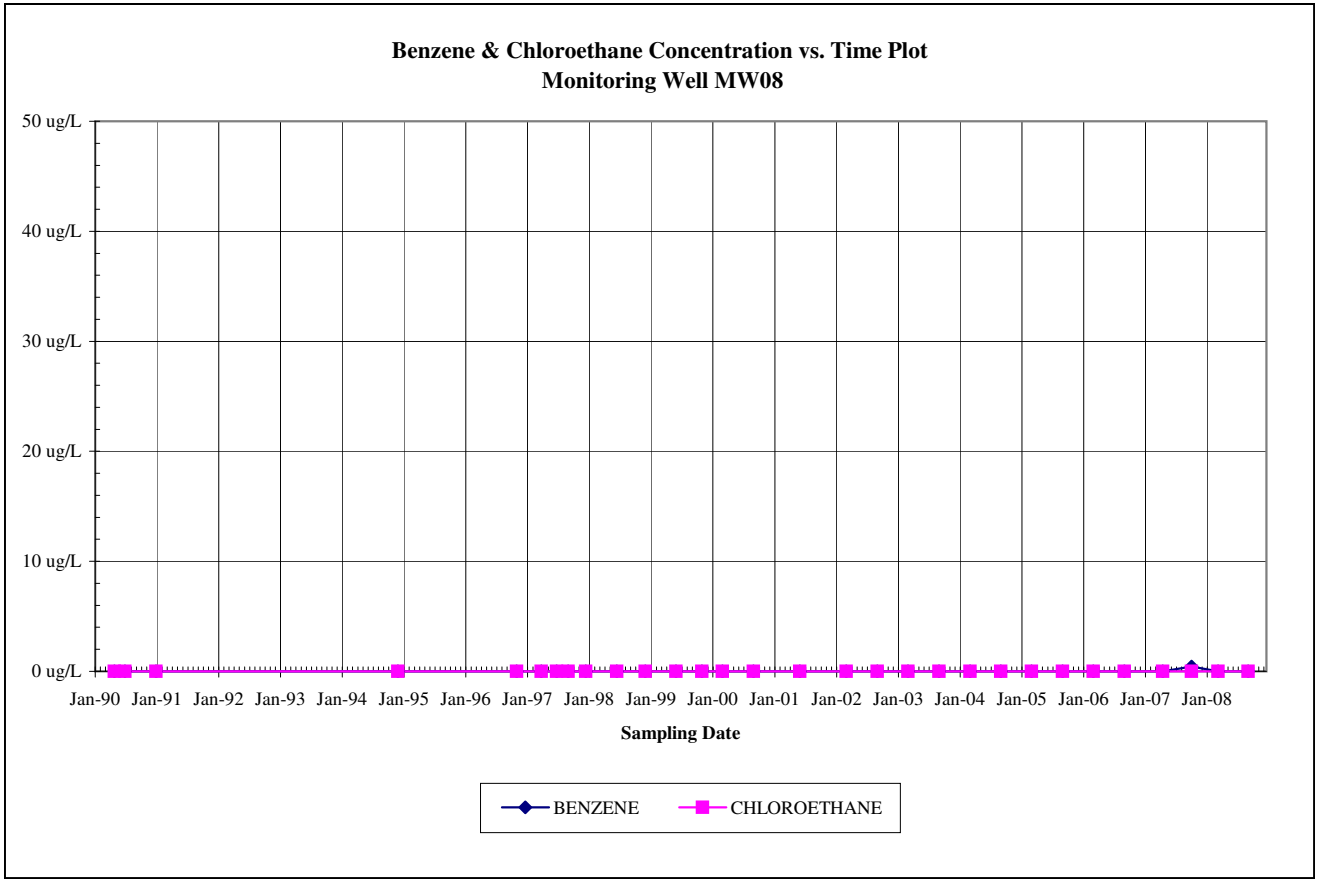
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW08

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
May-90	BDL	BDL
July-90	BDL	BDL
January-91	BDL	BDL
December-94	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	0.4 ug/L	BDL
March-08	BDL	BDL
September-08	BDL	BDL

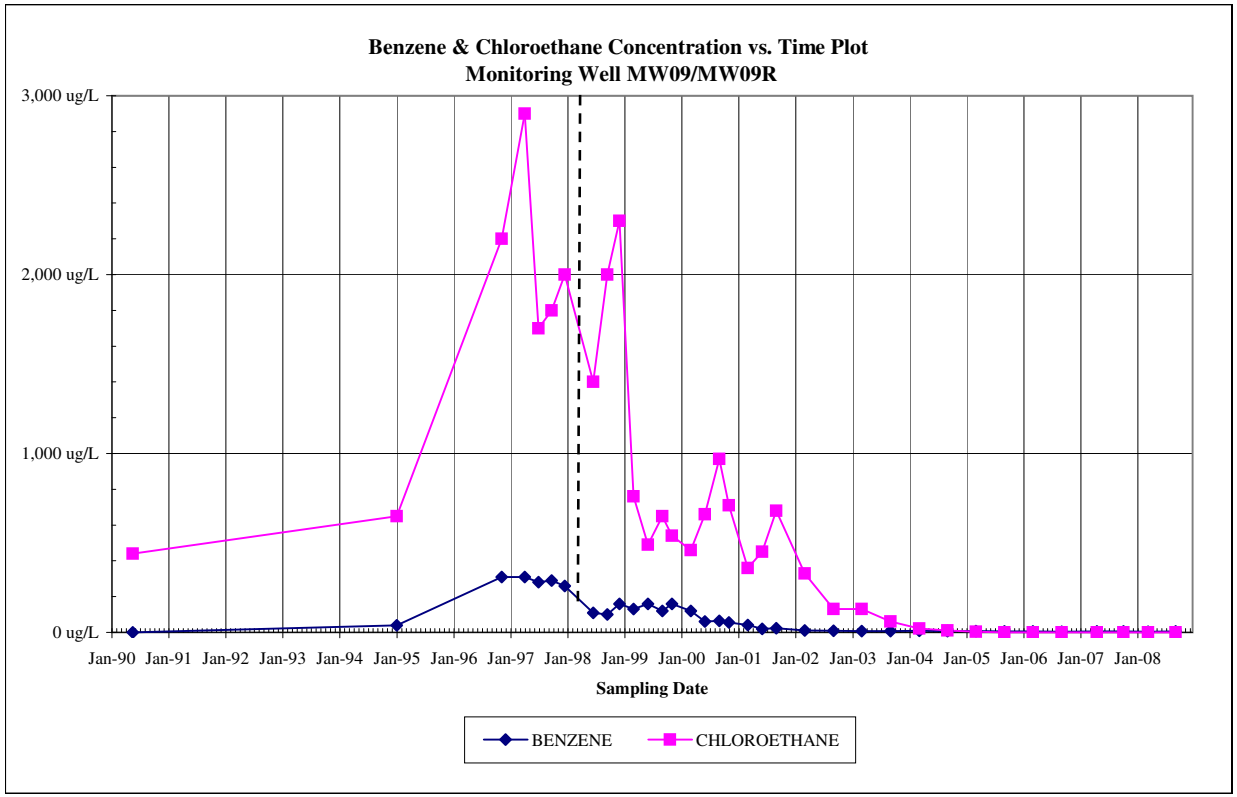
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW09/MW09R

DATE	BENZENE	CHLOROETHANE	
BASELINE	**310**	**2900**	
August-89			
May-90	BDL	440 ug/L	
January-95	40 ug/L	650 ug/L	
November-96	310 ug/L	2,200 ug/L	
April-97	310 ug/L	2,900 ug/L	
June-97	280 ug/L	1,700 ug/L	
September-97	290 ug/L	1,800 ug/L	
December-97	260 ug/L	2,000 ug/L	MW09
June-98	110 ug/L	1,400 ug/L	MW09R
September-98	100 ug/L	2,000 ug/L	
December-98	160 ug/L	2,300 ug/L	
March-99	130 ug/L	760 ug/L	
June-99	160 ug/L	490 ug/L	
September-99	120 ug/L	650 ug/L	
November-99	160 ug/L	540 ug/L	
March-00	120 ug/L	460 ug/L	
June-00	60 ug/L	660 ug/L	
September-00	65 ug/L	970 ug/L	
November-00	55 ug/L	710 ug/L	
March-01	41 ug/L	360 ug/L	
June-01	19 ug/L	450 ug/L	
September-01	23 ug/L	680 ug/L	
March-02	11 ug/L	330 ug/L	
September-02	9 ug/L	130 ug/L	
March-03	8 ug/L	130 ug/L	
September-03	6.6 ug/L	61 ug/L	
March-04	8.3 ug/L	22 ug/L	
September-04	6.5 ug/L	11 ug/L	
March-05	6.8 ug/L	3.8 ug/L	
September-05	6.2 ug/L	BDL	
March-06	5.5 ug/L	BDL	
September-06	4.4 ug/L	BDL	
April-07	4.7 ug/L	BDL	
October-07	4.9 ug/L	BDL	
March-08	4.4 ug/L	BDL	
September-08	5.8 ug/L	BDL	

BDL = Below the Detection Limit

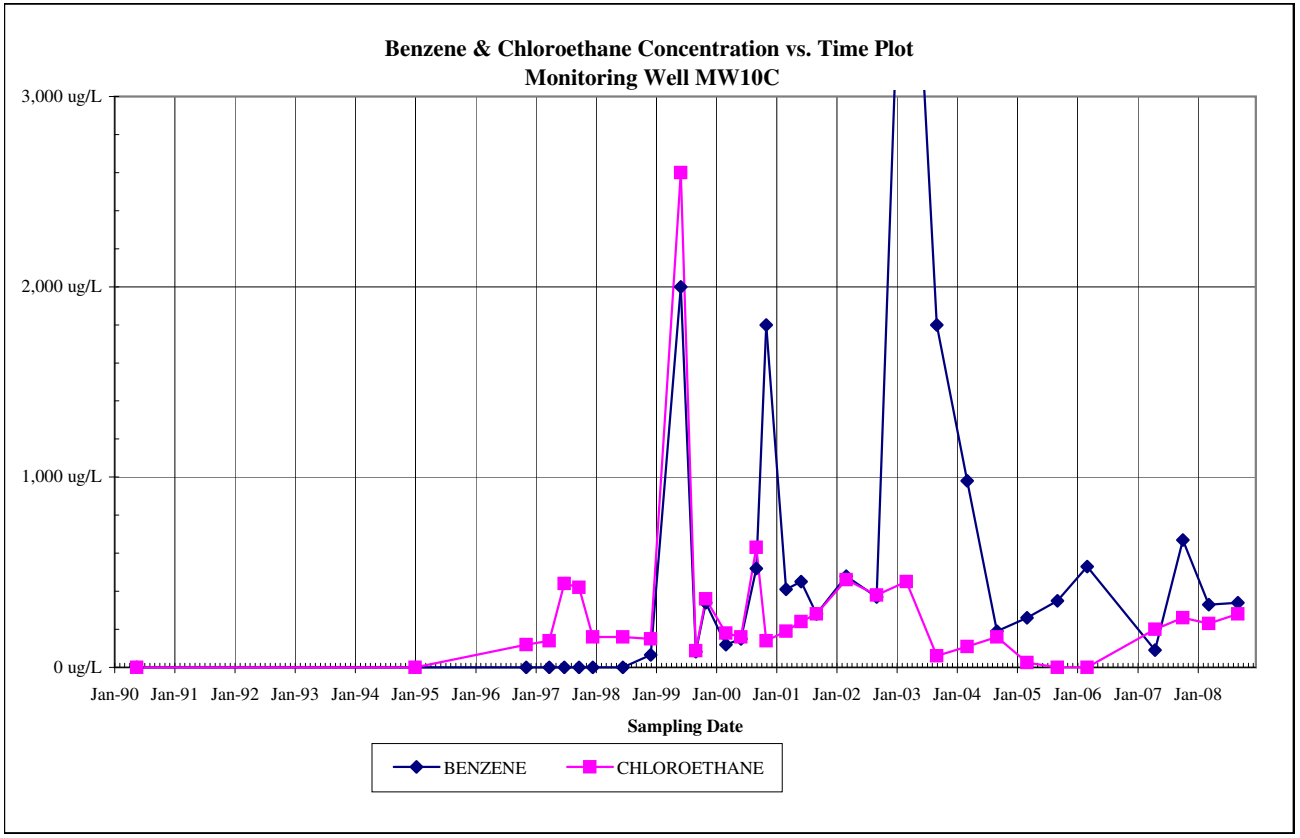


- - - - - - Line indicates change to replacement well

Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW10C

DATE	BENZENE	CHLOROETHANE
BASELINE	**150**	**420**
August-89		
May-90	BDL	BDL
January-95	BDL	BDL
November-96	BDL	120 ug/L
March-97	BDL	140 ug/L
June-97	BDL	440 ug/L
September-97	BDL	420 ug/L
December-97	BDL	160 ug/L
June-98	BDL	160 ug/L
December-98	66 ug/L	150 ug/L
June-99	2,000 ug/L	2,600 ug/L
September-99	83 ug/L	88 ug/L
November-99	340 ug/L	360 ug/L
March-00	120 ug/L	180 ug/L
June-00	150 ug/L	160 ug/L
September-00	520 ug/L	630 ug/L
November-00	1,800 ug/L	140 ug/L
March-01	410 ug/L	190 ug/L
June-01	450 ug/L	240 ug/L
September-01	280 ug/L	280 ug/L
March-02	480 ug/L	460 ug/L
September-02	370 ug/L	380 ug/L
March-03	4,800 ug/L	450 ug/L
September-03	1,800 ug/L	60 ug/L
March-04	980 ug/L	110 ug/L
September-04	190 ug/L	160 ug/L
March-05	260 ug/L	25 ug/L
September-05	350 ug/L	BDL
March-06	530 ug/L	BDL
April-07	90 ug/L	200 ug/L
October-07	670 ug/L	260 ug/L
March-08	330 ug/L	230 ug/L
September-08	340 ug/L	280 ug/L

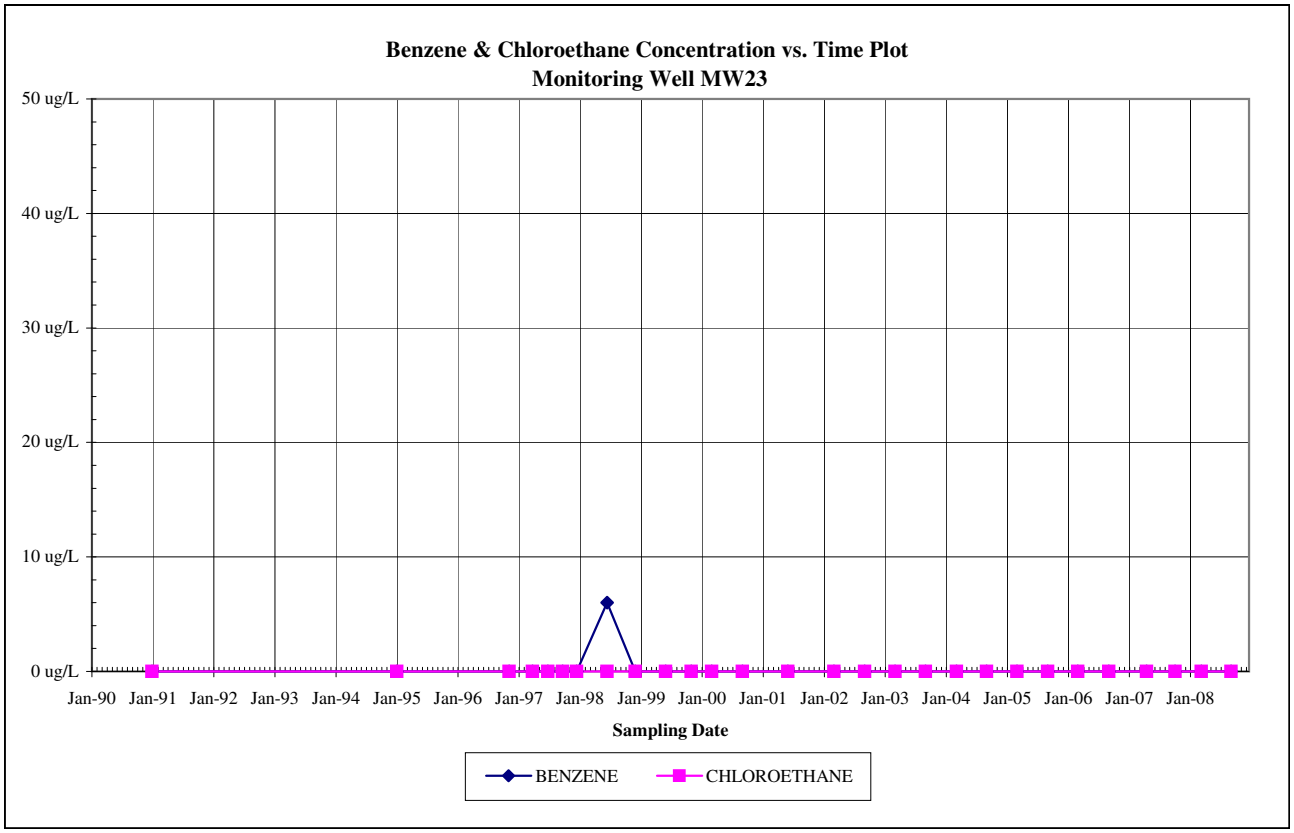
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW23

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
January-91	BDL	BDL
January-95	BDL	BDL
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	6 ug/L	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

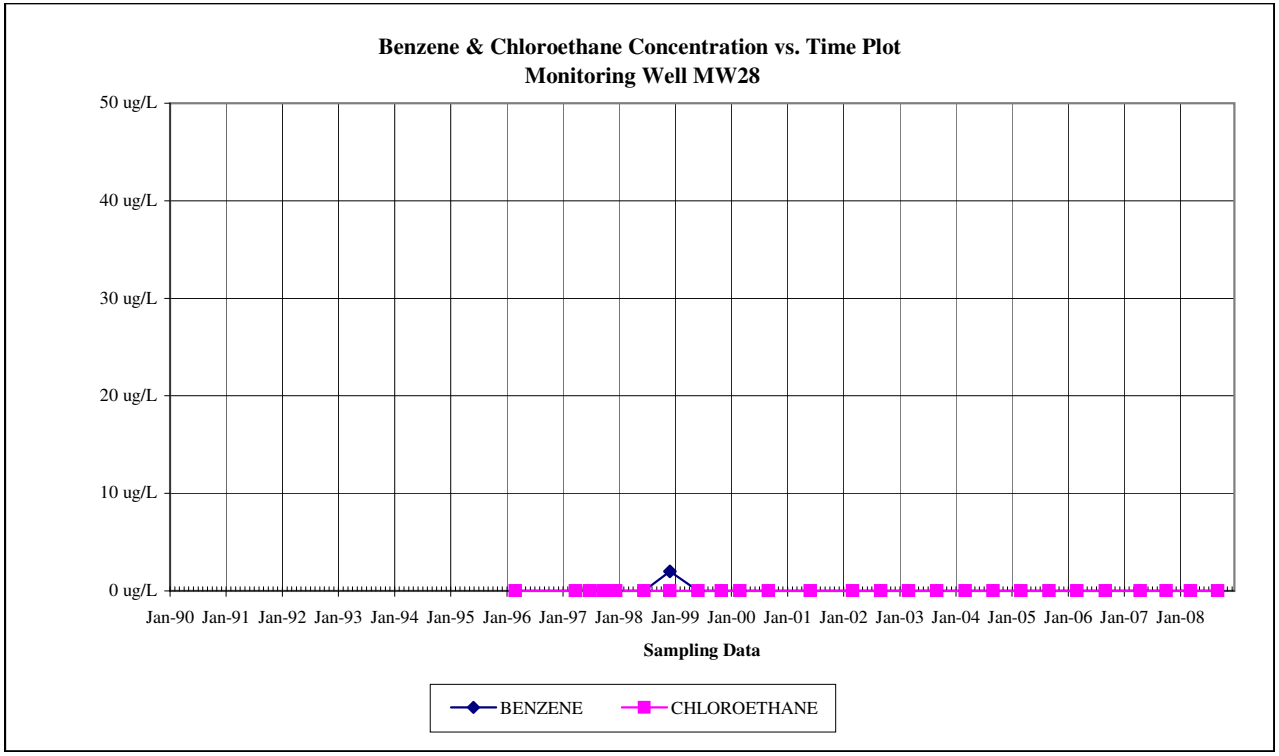
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW28

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	2 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

BDL = Below the Detection Limit

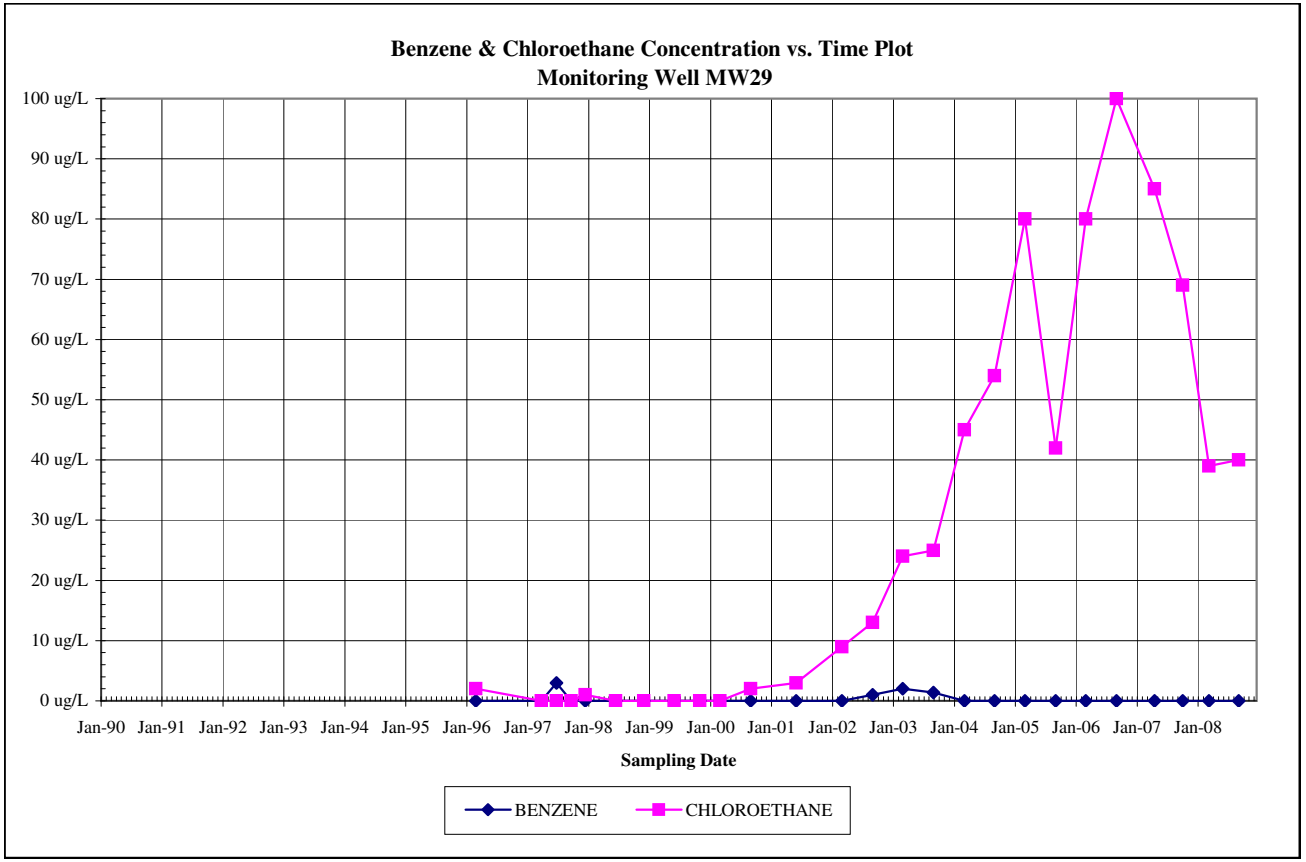


JEF/TPC
J:\405\0577 ACS\0301 GW Mon\September 2008\Report\Appendices\Appendix B\Timetrnd_GWMP_LA_Electronic.xls\MW28

Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW29

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
January-95		
March-96	BDL	2 ug/L
March-97	BDL	BDL
June-97	3 ug/L	BDL
September-97	BDL	BDL
December-97	BDL	1 ug/L
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	2 ug/L
June-01	BDL	3 ug/L
March-02	BDL	9 ug/L
September-02	1 ug/L	13 ug/L
March-03	2 ug/L	24 ug/L
September-03	1.4 ug/L	25 ug/L
March-04	BDL	45 ug/L
September-04	BDL	54 ug/L
March-05	BDL	80 ug/L
September-05	BDL	42 ug/L
March-06	BDL	80 ug/L
September-06	BDL	100 ug/L
April-07	BDL	85 ug/L
October-07	BDL	69 ug/L
March-08	BDL	39 ug/L
September-08	BDL	40 ug/L

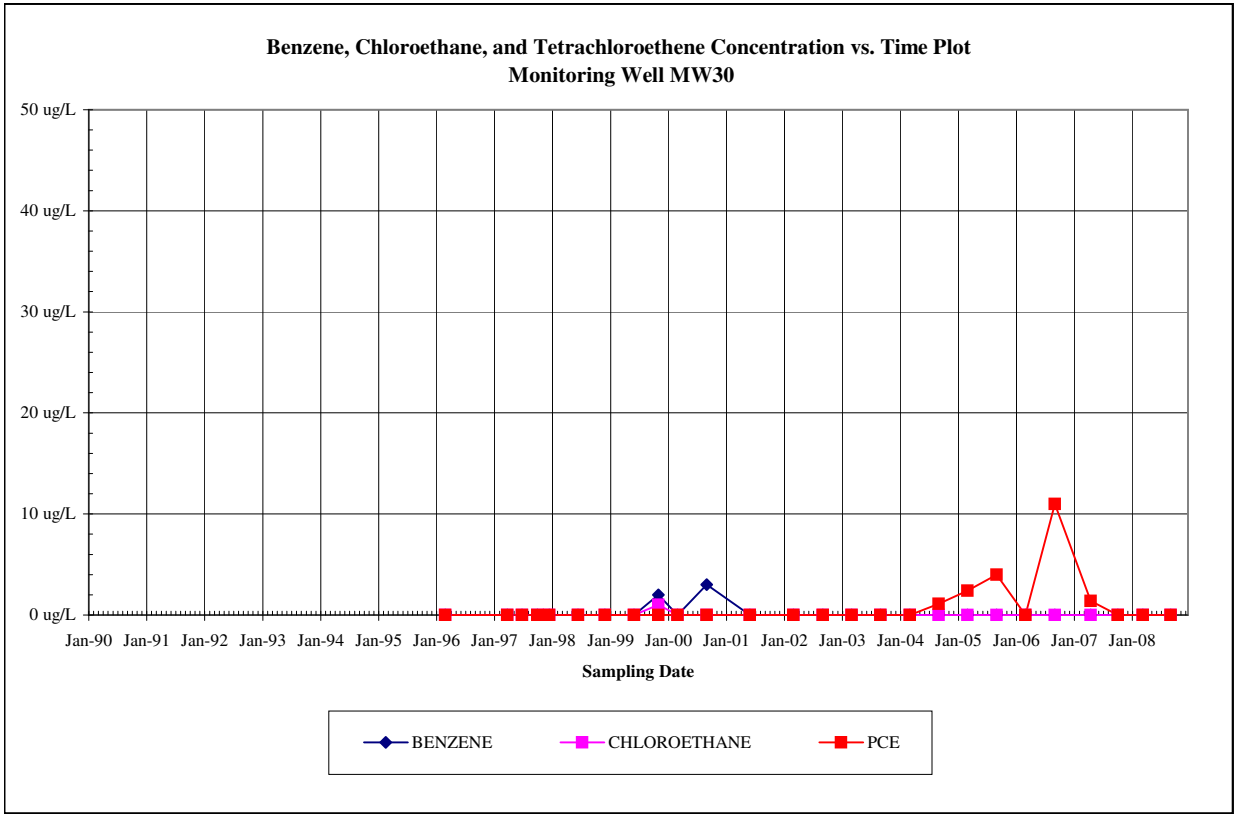
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW30

DATE	BENZENE	CHLOROETHANE	PCE
BASELINE	**10**	**10**	**10**
August-89			
May-90			
January-95			
March-96	BDL	BDL	BDL
March-97	BDL	BDL	BDL
June-97	BDL	BDL	BDL
October-97	BDL	BDL	BDL
December-97	BDL	BDL	BDL
June-98	BDL	BDL	BDL
December-98	BDL	BDL	BDL
June-99	BDL	BDL	BDL
November-99	2 ug/L	1 ug/L	BDL
March-00	BDL	BDL	BDL
September-00	3 ug/L	BDL	BDL
June-01	BDL	BDL	BDL
March-02	BDL	BDL	BDL
September-02	BDL	BDL	BDL
March-03	BDL	BDL	BDL
September-03	BDL	BDL	BDL
March-04	BDL	BDL	BDL
September-04	BDL	BDL	1.1 ug/L
March-05	BDL	BDL	2.4 ug/L
September-05	BDL	BDL	4.0 ug/L
March-06	BDL	BDL	BDL
September-06	BDL	BDL	11.0 ug/L
April-07	BDL	BDL	1.4 ug/L
October-07	BDL	BDL	BDL
March-08	BDL	BDL	BDL
September-08	BDL	BDL	BDL

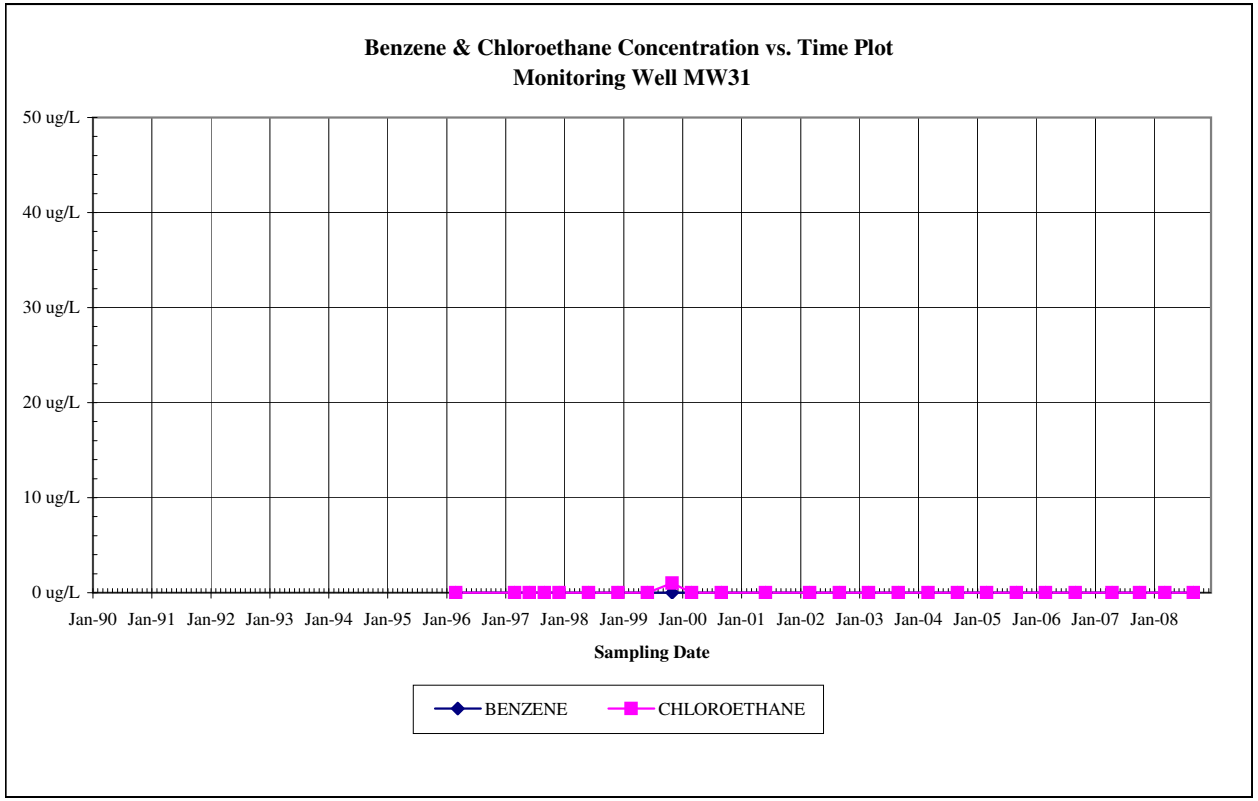
BDL = Below the Detection Limit
PCE = Tetrachloroethene



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW31

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	1 ug/L
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

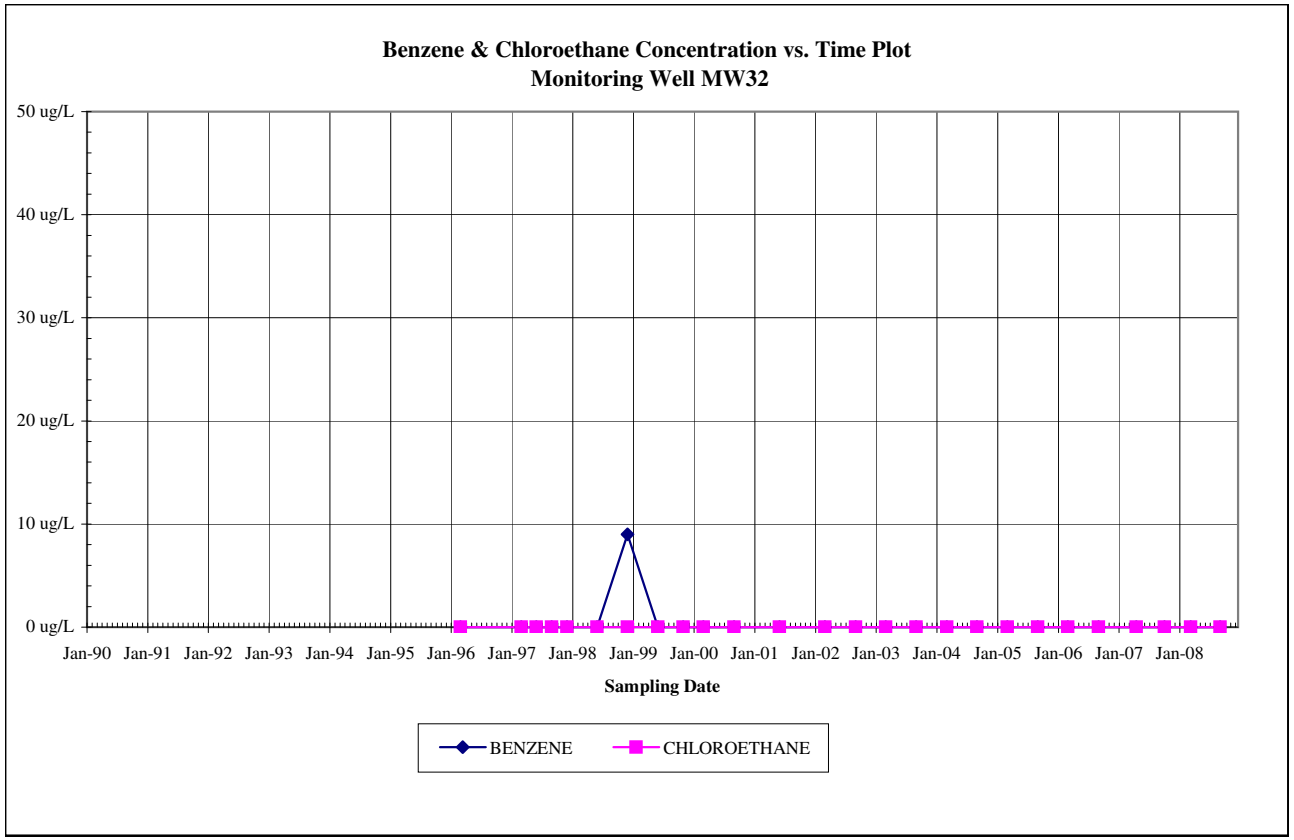
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW32

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	9 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

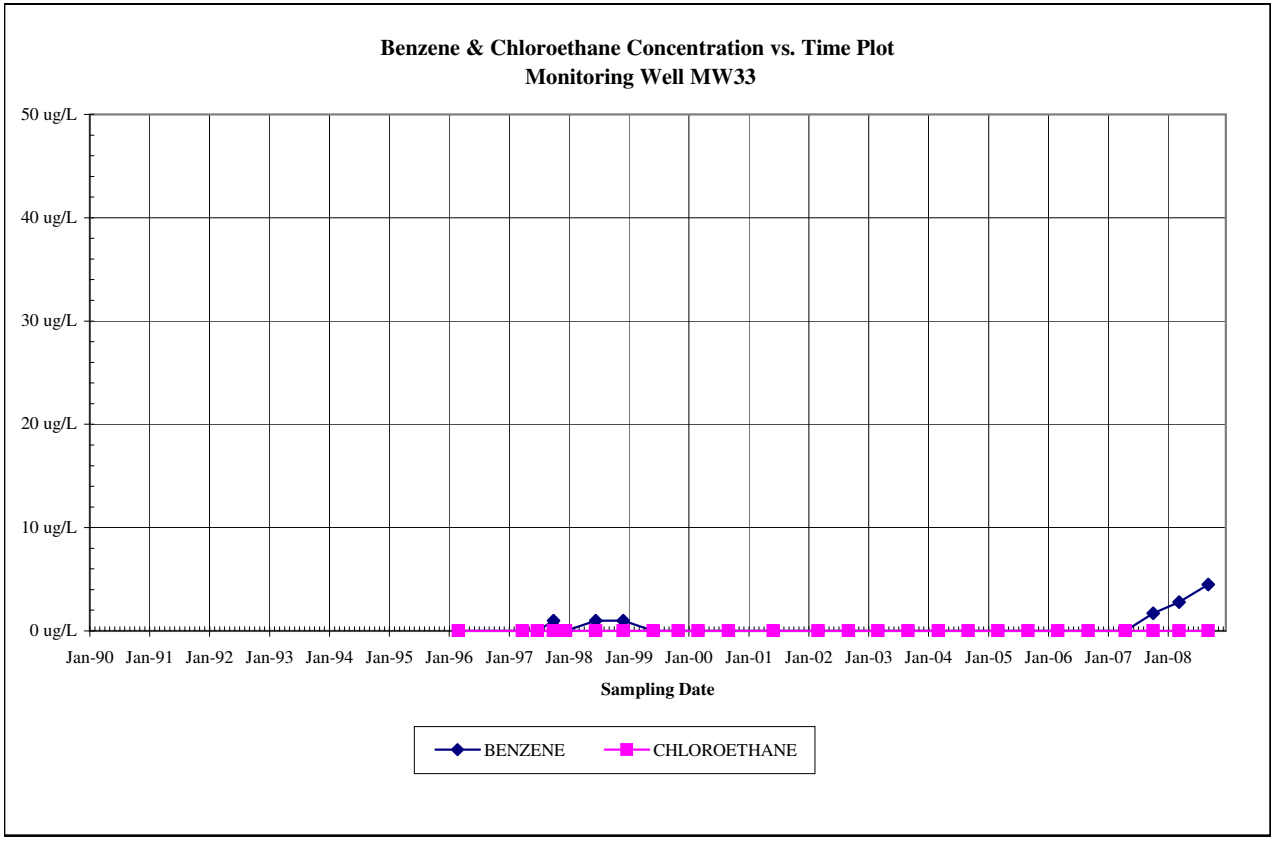
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW33

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
January-95		
March-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
October-97	1 ug/L	BDL
December-97	BDL	BDL
June-98	1 ug/L	BDL
December-98	1 ug/L	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	1.7 ug/L	BDL
March-08	2.8 ug/L	BDL
September-08	4.5 ug/L	BDL

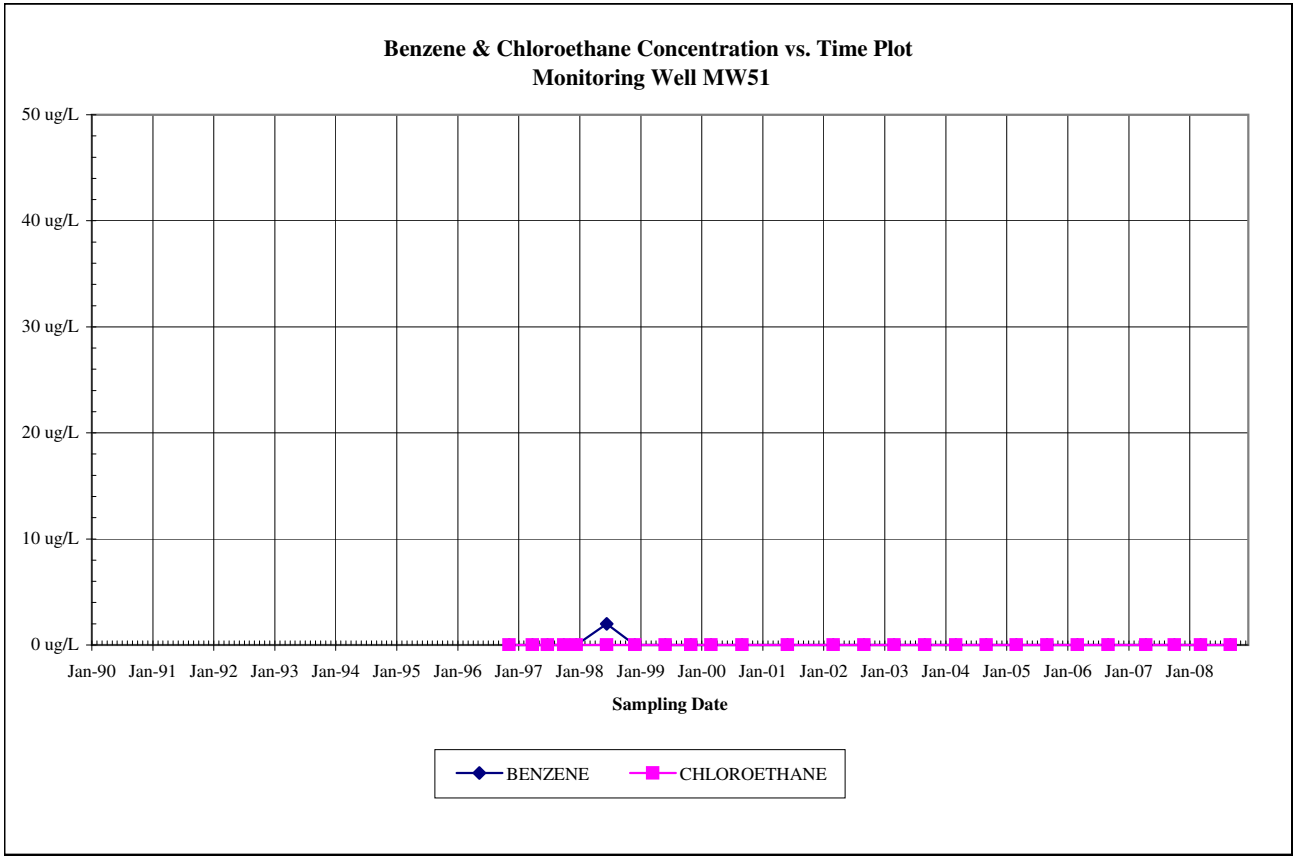
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW51

DATE	BENZENE	CHLOROETHANE
BASELINE	**100**	**100**
August-89		
May-90		
January-95		
November-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
October-97	BDL	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

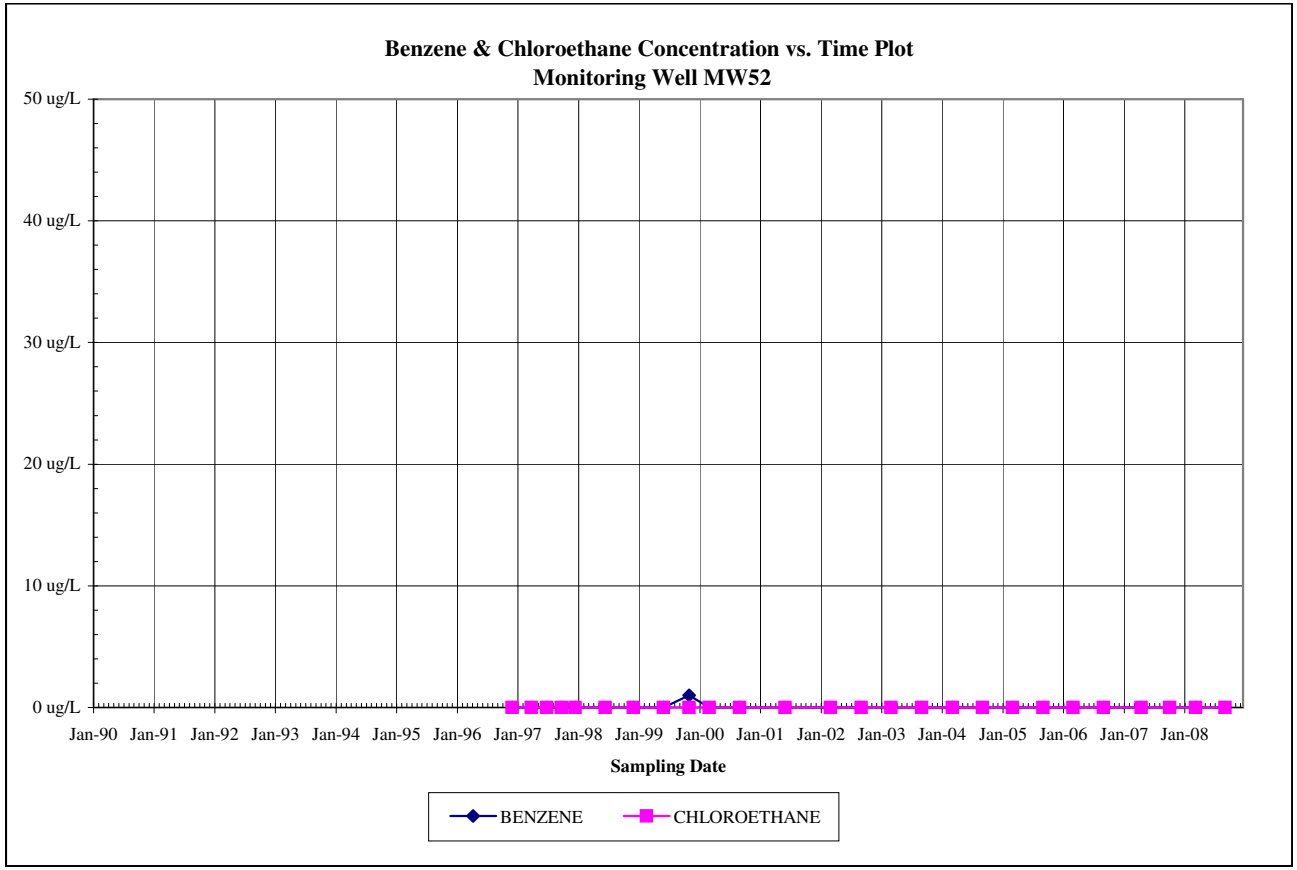
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW52

DATE	BENZENE	CHLOROETHANE
BASELINE	**100**	**100**
August-89		
May-90		
January-95		
December-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	1 ug/L	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

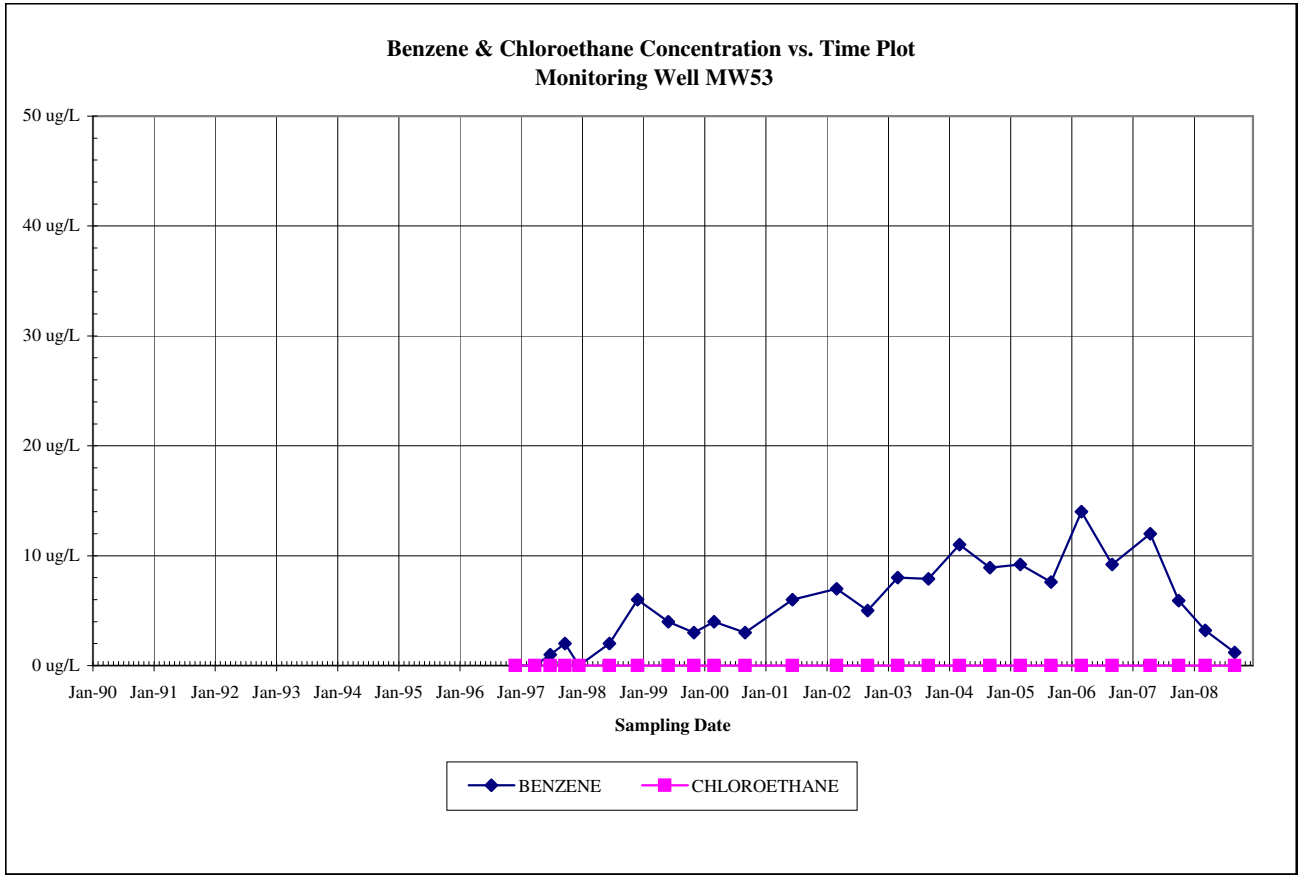
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW53

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
January-95		
December-96	BDL	BDL
March-97	BDL	BDL
June-97	1 ug/L	BDL
September-97	2 ug/L	BDL
December-97	BDL	BDL
June-98	2 ug/L	BDL
December-98	6 ug/L	BDL
June-99	4 ug/L	BDL
November-99	3 ug/L	BDL
March-00	4 ug/L	BDL
September-00	3 ug/L	BDL
June-01	6 ug/L	BDL
March-02	7 ug/L	BDL
September-02	5 ug/L	BDL
March-03	8 ug/L	BDL
September-03	7.9 ug/L	BDL
March-04	11 ug/L	BDL
September-04	8.9 ug/L	BDL
March-05	9.2 ug/L	BDL
September-05	7.6 ug/L	BDL
March-06	14 ug/L	BDL
September-06	9.2 ug/L	BDL
April-07	12.0 ug/L	BDL
October-07	5.9 ug/L	BDL
March-08	3.2 ug/L	BDL
September-08	1.2 ug/L	BDL

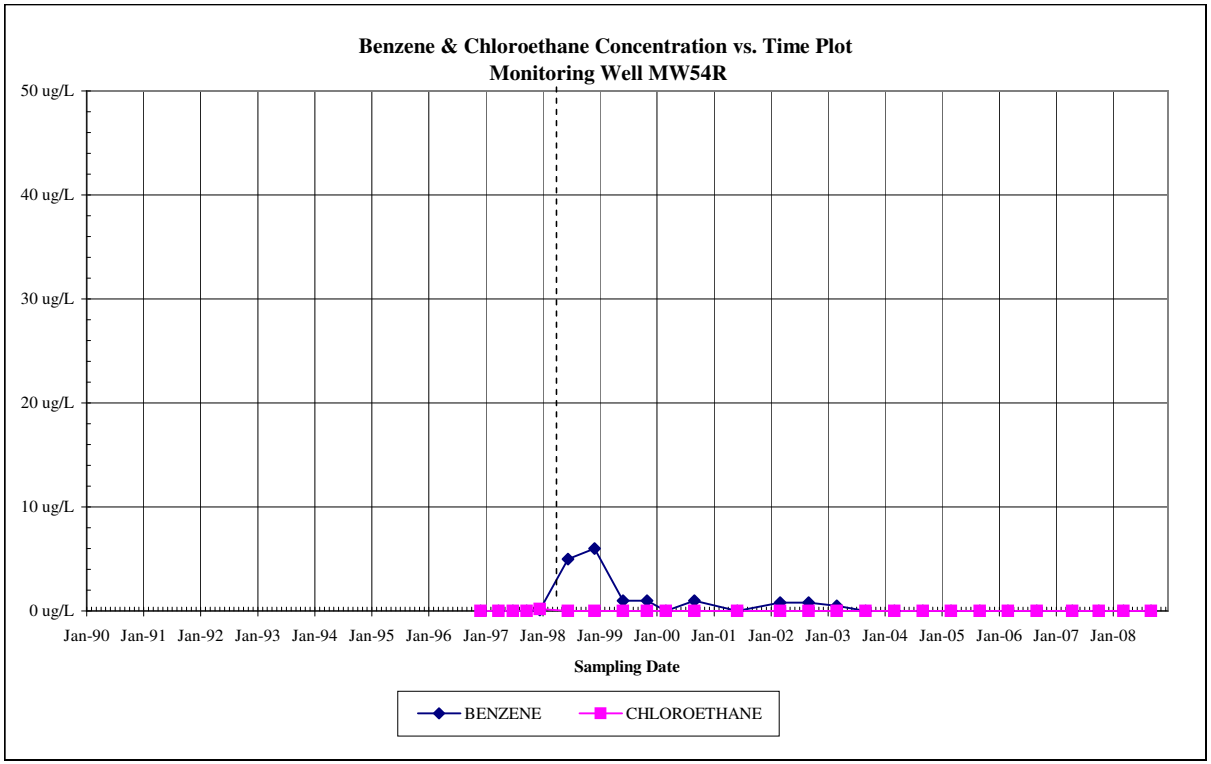
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW54R

DATE	BENZENE	CHLOROETHANE	
BASELINE	**10**	**10**	
August-89			
May-90			
January-95			
December-96	BDL	BDL	
March-97	BDL	BDL	
June-97	BDL	BDL	
September-97	BDL	BDL	
December-97	0.1 ug/L	0.2 ug/L	
June-98	5 ug/L	BDL	<- MW54R
December-98	6 ug/L	BDL	
June-99	1 ug/L	BDL	
November-99	1 ug/L	BDL	
March-00	BDL	BDL	
September-00	1 ug/L	BDL	
June-01	BDL	BDL	
March-02	1 ug/L	BDL	
September-02	1 ug/L	BDL	
March-03	0.5 ug/L	BDL	
September-03	BDL	BDL	
March-04	BDL	BDL	
September-04	BDL	BDL	
March-05	BDL	BDL	
September-05	BDL	BDL	
March-06	BDL	BDL	
September-06	BDL	BDL	
April-07	BDL	BDL	
October-07	BDL	BDL	
March-08	BDL	BDL	
September-08	BDL	BDL	

BDL = Below the Detection Limit
MW54 was damaged by a vehicle and was replaced with MW54R

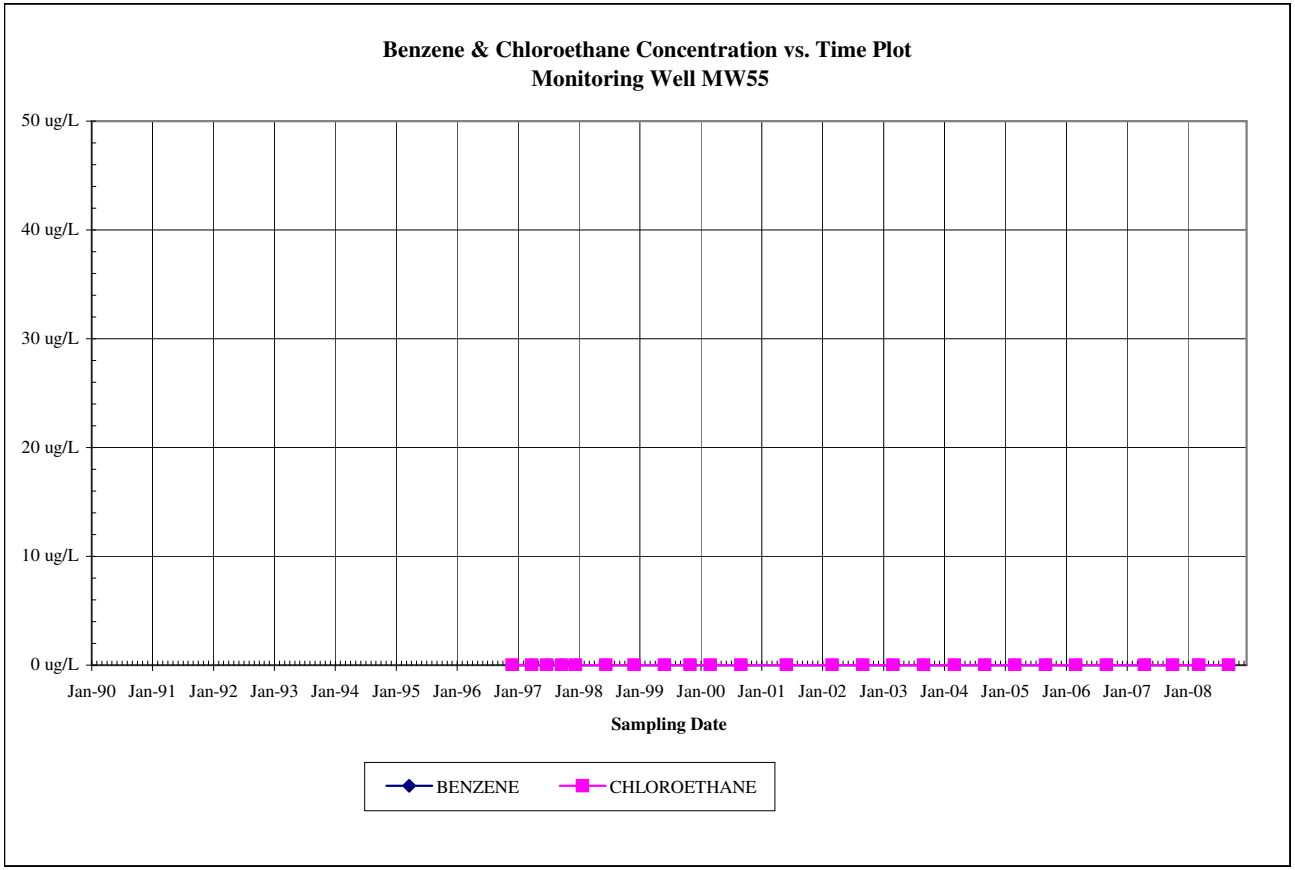


- - - - - - - - - - - Line indicates change to replacement well

Concentration vs. Time Plot for
Lower Aquifer Monitoring Well MW55

DATE	BENZENE	CHLOROETHANE
BASELINE	**10**	**10**
August-89		
May-90		
January-95		
December-96	BDL	BDL
March-97	BDL	BDL
June-97	BDL	BDL
September-97	BDL	BDL
December-97	BDL	BDL
June-98	BDL	BDL
December-98	BDL	BDL
June-99	BDL	BDL
November-99	BDL	BDL
March-00	BDL	BDL
September-00	BDL	BDL
June-01	BDL	BDL
March-02	BDL	BDL
September-02	BDL	BDL
March-03	BDL	BDL
September-03	BDL	BDL
March-04	BDL	BDL
September-04	BDL	BDL
March-05	BDL	BDL
September-05	BDL	BDL
March-06	BDL	BDL
September-06	BDL	BDL
April-07	BDL	BDL
October-07	BDL	BDL
March-08	BDL	BDL
September-08	BDL	BDL

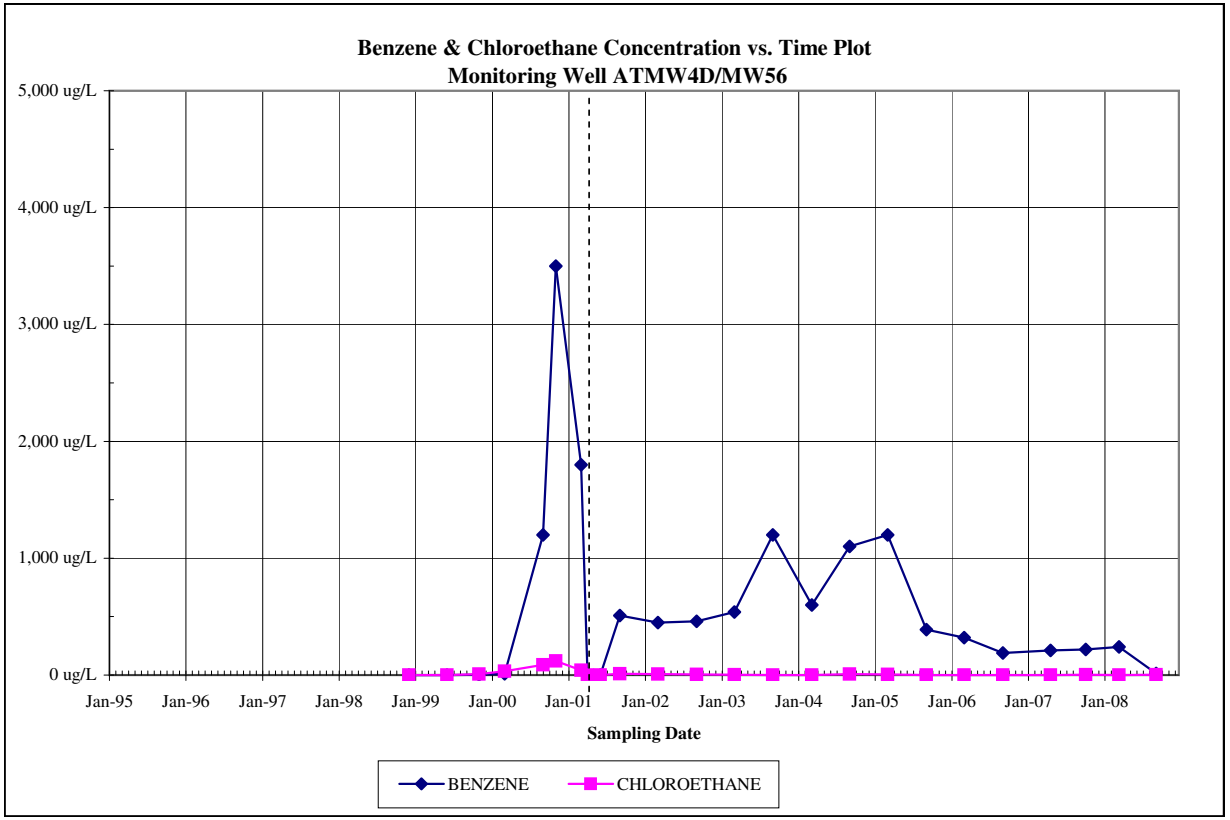
BDL = Below the Detection Limit



Concentration vs. Time Plot for
Lower Aquifer Monitoring Well ATMW4D-MW56

DATE	BENZENE	CHLOROETHANE	
BASELINE	-	-	
December-98	BDL	BDL	
June-99	BDL	BDL	
November-99	3 ug/L	9 ug/L	
March-00	12 ug/L	34 ug/L	
September-00	1,200 ug/L	88 ug/L	
November-00	3,500 ug/L	120 ug/L	
March-01	1,800 ug/L	42 ug/L	ATMW4D
April-01	BDL	BDL	MW56
June-01	BDL	BDL	
September-01	510 ug/L	10 ug/L	
March-02	450 ug/L	8 ug/L	
September-02	460 ug/L	6 ug/L	
March-03	540 ug/L	4 ug/L	
September-03	1,200 ug/L	BDL	
March-04	600 ug/L	BDL	
September-04	1,100 ug/L	7 ug/L	
March-05	1,200 ug/L	6.4 ug/L	
September-05	390 ug/L	BDL	
March-06	320 ug/L	BDL	
September-06	190 ug/L	BDL	
April-07	210 ug/L	BDL	
October-07	220 ug/L	1.8 ug/L	
March-08	240 ug/L	BDL	
September-08	13 ug/L	2.4 ug/L	

BDL = Below the Detection Limit



- - - - - - - - - - Line indicates change to replacement well

Appendix C

Laboratory Analytical Reports and Data Validation Narratives

Monitoring Well Results

Sample Delivery Group (SDG) ME0809B07 – VOCs
SDG ME0809B67 – VOCs

Data Validation Narrative – VOCs

Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Review

Residential Well Results

SDG ME0809C97 – VOCs, SVOCs, PCB/Pesticides, Inorganics, and Cyanide

Data Validation Narrative – Form 1s
Data Validation Narrative – VOCs
Data Validation Narrative – SVOCs
Data Validation Narrative – PCB/Pesticides
Data Validation Narrative – Metals
Data Validation Narrative – Cyanide

SDG ME0810733 – SVOCs and Thallium

Data Validation Narrative – Form 1s
Data Validation Narrative – SVOCs
Data Validation Narrative - Thallium

PARCC Review

Microbac

LEVEL IV
QA/QC DATA PACKAGE

CLIENT:	MWH, Inc.
PROJECT:	GW - SemiAnnual / ACS
LAB WORKORDER:	ME0809B07
DATE PACKAGE ISSUED:	10/16/08

TABLE OF CONTENTS

CLIENT: **MWH, Inc.**

PROJECT: **GW - SemiAnnual / ACS**

LAB WORKORDER: **ME0809B07**

CHAIN-OF-CUSTODY: **86558 / 85988**

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Case Narrative
VOA Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809B07

Twenty-two ground water samples were received on 9/24/2008 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for Volatile Organic Analytes using SW-846 Method 8260B.

The samples were collected on 9/22/2008 and 9/23/2008. The samples were analyzed on 9/25/2008 and 9/26/2008. All samples were analyzed within the prescribed maximum allowable holding time without exception.

The required instrument calibrations were} performed and the acceptance criteria met. The grand mean average was used to assess linearity.

Prior to analysis, the resultant mass spectra for BFB met all method criteria, and all samples were analyzed within 12-hour analytical sequences.

Prior to daily analysis, a CCV standard was analyzed and the acceptance criteria met for all CCCs and SPCCs with the following exception.

- CCV Standard E092602.D failed with a high bias for 1,1-Dichloroethene. This is considered insignificant as the concentration of affected samples remained below the reporting limit for this analyte.

The batch quality control tests were performed and the acceptance criteria met without exception with the following exceptions.

- MB 092608 (VOA-3) had a hit above the reporting limit for Methylene Chloride. This is considered insignificant as the concentration of Methylene Chloride in the affected samples remained below the reporting limit.
- LCS 092508 (VOA-3), LCS 092608 (VOA-3), and LCS 092608 (VOA-4) failed with a high bias for Chloromethane. This is considered insignificant as none of the affected samples had concentrations of Chloromethane above the reporting limit.

Surrogate compounds are spiked into each sample to evaluate analysis efficiency. All environmental samples yielded acceptable surrogate recovery.

Internal standards are spiked into each CCV standard and environmental sample. All internal standard responses met the criteria established for the CCVs. The internal standard responses in the environmental samples were evaluated and deemed adequate.

Case Narrative
VOA Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809B07

Matrix evaluation was performed on the following client-submitted samples. The accuracy and precision criteria were met as noted.

SAMPLE ID	QC TYPE	EVALUATION
ACS-GW-MW58-32	MS/MSD	Accuracy criteria met with the exception of 1,1-Dichloroethane, 1,2-Dichlorbenzene, 1,3-Dichlorobenzene, and 1,4-Dichlorobenzene which failed with a high bias. The precision criteria met without exception. This is considered insignificant as the concentration of the affected samples is below the reporting limit for these analytes.
ACS-GW-MW32-32	MS/MSD	Accuracy criteria met with the exception of Chloromethane which failed with a high bias. The precision criteria met without exception. This is considered insignificant as the concentration of the affected samples is below the reporting limit for this analyte.

This Case Narrative was prepared by Amy L. Sheehy, QA Assistant.

October 13, 2008

Christopher Daly
MWH, Inc.
175 West Jackson Boulevard, Suite 1900
Chicago, IL 60604

Work Order No.: ME0809B07

RE: GW - SemiAnnual / ACS

Dear Christopher Daly:

Microbac Laboratories, Inc. received 22 samples on 9/24/2008 1:30:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Ronald J. Misiunas
Client Services Manager

Enclosures

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WORK ORDER SAMPLE SUMMARY

Date: *Monday, October 13, 2008*

CLIENT: MWH, Inc.
Project: GW - SemiAnnual / ACS
Lab Order: ME0809B07

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME0809B07-01A	ACS-GW-TB01-32		9/22/2008 8:00:00 AM	9/24/2008
ME0809B07-02A	ACS-GW-EB01-32		9/22/2008 10:30:00 AM	9/24/2008
ME0809B07-03A	ACS-GW-DUP01-32		9/22/2008 11:00:00 AM	9/24/2008
ME0809B07-04A	ACS-GW-MW59-32		9/22/2008 12:00:00 PM	9/24/2008
ME0809B07-05A	ACS-GW-MW58-32		9/22/2008 12:05:00 PM	9/24/2008
ME0809B07-06A	ACS-GW-MW28-32		9/22/2008 2:35:00 PM	9/24/2008
ME0809B07-07A	ACS-GW-MW17-32		9/22/2008 2:55:00 PM	9/24/2008
ME0809B07-08A	ACS-GW-MW55-32		9/22/2008 4:00:00 PM	9/24/2008
ME0809B07-09A	ACS-GW-MW54R-32		9/22/2008 4:30:00 PM	9/24/2008
ME0809B07-10A	ACS-GW-EB02-32		9/23/2008 7:45:00 AM	9/24/2008
ME0809B07-11A	ACS-GW-MW31-32		9/23/2008 8:55:00 AM	9/24/2008
ME0809B07-12A	ACS-GW-MW08-32		9/23/2008 9:20:00 AM	9/24/2008
ME0809B07-13A	ACS-GW-MW32-32		9/23/2008 10:10:00 AM	9/24/2008
ME0809B07-14A	ACS-GW-MW51-32		9/23/2008 10:40:00 AM	9/24/2008
ME0809B07-15A	ACS-GW-MW33-32		9/23/2008 11:20:00 AM	9/24/2008
ME0809B07-16A	ACS-GW-MW30-32		9/23/2008 11:30:00 AM	9/24/2008
ME0809B07-17A	ACS-GW-DUP02-32		9/23/2008 12:00:00 PM	9/24/2008
ME0809B07-18A	ACS-GW-MW56-32		9/23/2008 2:05:00 PM	9/24/2008
ME0809B07-19A	ACS-GW-MW11-32		9/23/2008 2:05:00 PM	9/24/2008
ME0809B07-20A	ACS-GW-MW52-32		9/23/2008 3:05:00 PM	9/24/2008
ME0809B07-21A	ACS-GW-MW53-32		9/23/2008 3:25:00 PM	9/24/2008
ME0809B07-22A	ACS-GW-EB03-32		9/23/2008 8:10:00 AM	9/24/2008

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-01
Collection Date: 09/22/08 08:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/25/08 16:15
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:15
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/25/08 16:15
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:15
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/25/08 16:15
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/25/08 16:15
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/25/08 16:15
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/25/08 16:15
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:15
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/25/08 16:15
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:15
Chloromethane	A	***ND***	1	10		µg/L	1	09/25/08 16:15
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:15
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:15
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/25/08 16:15
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/25/08 16:15
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:15
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/25/08 16:15
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/25/08 16:15
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:15
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 16:15
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:15
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/25/08 16:15
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/25/08 16:15
Methylene chloride	A	***9.5***	3.1	10	J	µg/L	1	09/25/08 16:15
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 16:15
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/25/08 16:15
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/25/08 16:15
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:15
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:15
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:15
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:15
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/25/08 16:15
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:15
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/25/08 16:15
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/25/08 16:15
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/25/08 16:15
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/25/08 16:15
Surr: 4-Bromofluorobenzene	S	100	0	76.9-116		%REC	1	09/25/08 16:15

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-01
Collection Date: 09/22/08 08:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	09/25/08 16:15
Surr: 1,2-Dichloroethane-d4	S	87.8	0	74.2-136		%REC	1	09/25/08 16:15
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 16:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-02
Collection Date: 09/22/08 10:30
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/25/08 16:45
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:45
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/25/08 16:45
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:45
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/25/08 16:45
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/25/08 16:45
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/25/08 16:45
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/25/08 16:45
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:45
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/25/08 16:45
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:45
Chloromethane	A	***ND***	1	10		µg/L	1	09/25/08 16:45
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:45
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:45
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/25/08 16:45
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/25/08 16:45
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:45
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/25/08 16:45
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/25/08 16:45
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 16:45
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 16:45
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:45
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/25/08 16:45
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/25/08 16:45
Methylene chloride	A	***ND***	3.1	10		µg/L	1	09/25/08 16:45
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 16:45
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/25/08 16:45
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/25/08 16:45
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:45
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:45
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:45
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:45
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/25/08 16:45
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/25/08 16:45
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/25/08 16:45
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/25/08 16:45
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/25/08 16:45
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/25/08 16:45
Surr: 4-Bromofluorobenzene	S	101	0	76.9-116		%REC	1	09/25/08 16:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB01-32 — **Work Order / ID:** ME0809B07-02
Sample Description: — **Collection Date:** 09/22/08 10:30
Sample Matrix: Aqueous — **Date Received:** 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**								
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/25/08 16:45
Surr: 1,2-Dichloroethane-d4	S	93.2	0	74.2-136		%REC	1	09/25/08 16:45
Surr: Toluene-d8	S	103	0	81.4-122		%REC	1	09/25/08 16:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-03
Collection Date: 09/22/08 11:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*17*	5.8	50	J	µg/L	1	09/25/08 17:15
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:15
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 17:15
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/25/08 17:15
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 17:15
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:15
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/25/08 17:15
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 17:15
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 17:15
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:15
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 17:15
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 17:15
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:15
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 17:15
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 17:15
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 17:15
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:15
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 17:15
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 17:15
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 17:15
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 17:15
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 17:15
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 17:15
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 17:15
Surr: 4-Bromofluorobenzene	S	101	0	76.9-116		%REC	1	09/25/08 17:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-03
Collection Date: 09/22/08 11:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**								
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 17:15
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 17:15
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 17:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW59-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-04
Collection Date: 09/22/08 12:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*13*	5.8	50	J	µg/L	1	09/25/08 17:46
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:46
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 17:46
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/25/08 17:46
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 17:46
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:46
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/25/08 17:46
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 17:46
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 17:46
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:46
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 17:46
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 17:46
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:46
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 17:46
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 17:46
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 17:46
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:46
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 17:46
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 17:46
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 17:46
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 17:46
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 17:46
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 17:46
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 17:46
Surr: 4-Bromofluorobenzene	S	102	0	76.9-116		%REC	1	09/25/08 17:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW59-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-04
Collection Date: 09/22/08 12:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	110	0	78.4-125		%REC	1	09/25/08 17:46
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 17:46
Surr: Toluene-d8	S	107	0	81.4-122		%REC	1	09/25/08 17:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW58-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-05
Collection Date: 09/22/08 12:05
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*28*	5.8	50	J	µg/L	1	09/26/08 09:01
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 09:01
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/26/08 09:01
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/26/08 09:01
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 09:01
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 09:01
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/26/08 09:01
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 09:01
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 09:01
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 09:01
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 09:01
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 09:01
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 09:01
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 09:01
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 09:01
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 09:01
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 09:01
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 09:01
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 09:01
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 09:01
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/26/08 09:01
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 09:01
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 09:01
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 09:01
Surr: 4-Bromofluorobenzene	S	99.4	0	76.9-116		%REC	1	09/26/08 09:01

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW58-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-05
Collection Date: 09/22/08 12:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	102	0	78.4-125		%REC	1	09/26/08 09:01
Surr: 1,2-Dichloroethane-d4	S	91.8	0	74.2-136		%REC	1	09/26/08 09:01
Surr: Toluene-d8	S	105	0	81.4-122		%REC	1	09/26/08 09:01

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW28-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-06
Collection Date: 09/22/08 14:35
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/25/08 18:15
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 18:15
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/25/08 18:15
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/25/08 18:15
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/25/08 18:15
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/25/08 18:15
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/25/08 18:15
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/25/08 18:15
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 18:15
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/25/08 18:15
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/25/08 18:15
Chloromethane	A	***ND***	1	10		µg/L	1	09/25/08 18:15
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 18:15
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 18:15
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/25/08 18:15
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/25/08 18:15
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 18:15
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/25/08 18:15
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/25/08 18:15
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 18:15
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 18:15
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 18:15
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/25/08 18:15
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/25/08 18:15
Methylene chloride	A	***9.3***	3.1	10	J	µg/L	1	09/25/08 18:15
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 18:15
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/25/08 18:15
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/25/08 18:15
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 18:15
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 18:15
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 18:15
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 18:15
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/25/08 18:15
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/25/08 18:15
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/25/08 18:15
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/25/08 18:15
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/25/08 18:15
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/25/08 18:15
Surr: 4-Bromofluorobenzene	S	99.4	0	76.9-116		%REC	1	09/25/08 18:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW28-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-06
Collection Date: 09/22/08 14:35
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 18:15
Surr: 1,2-Dichloroethane-d4	S	106	0	74.2-136		%REC	1	09/25/08 18:15
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 18:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW17-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-07
Collection Date: 09/22/08 14:55
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*11*	5.8	50	J	µg/L	1	09/25/08 18:45
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 18:45
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 18:45
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/25/08 18:45
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 18:45
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 18:45
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/25/08 18:45
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 18:45
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 18:45
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 18:45
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 18:45
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 18:45
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 18:45
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 18:45
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 18:45
Methylene chloride	A	*9*	3.1	10	J	µg/L	1	09/25/08 18:45
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 18:45
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 18:45
Tetrachloroethene	A	*1.7*	1.3	5.0	J	µg/L	1	09/25/08 18:45
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 18:45
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 18:45
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 18:45
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 18:45
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 18:45
Surr: 4-Bromofluorobenzene	S	102	0	76.9-116		%REC	1	09/25/08 18:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW17-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-07
Collection Date: 09/22/08 14:55
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 18:45
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	09/25/08 18:45
Surr: Toluene-d8	S	105	0	81.4-122		%REC	1	09/25/08 18:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW55-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-08
Collection Date: 09/22/08 16:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***11***	5.8	50	J	µg/L	1	09/25/08 19:15
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 19:15
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/25/08 19:15
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/25/08 19:15
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/25/08 19:15
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/25/08 19:15
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/25/08 19:15
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/25/08 19:15
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 19:15
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/25/08 19:15
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/25/08 19:15
Chloromethane	A	***ND***	1	10		µg/L	1	09/25/08 19:15
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 19:15
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 19:15
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/25/08 19:15
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/25/08 19:15
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 19:15
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/25/08 19:15
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/25/08 19:15
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 19:15
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 19:15
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 19:15
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/25/08 19:15
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/25/08 19:15
Methylene chloride	A	***8.7***	3.1	10	J	µg/L	1	09/25/08 19:15
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 19:15
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/25/08 19:15
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/25/08 19:15
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 19:15
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 19:15
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 19:15
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 19:15
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/25/08 19:15
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/25/08 19:15
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/25/08 19:15
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/25/08 19:15
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/25/08 19:15
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/25/08 19:15
Surr: 4-Bromofluorobenzene	S	99.6	0	76.9-116		%REC	1	09/25/08 19:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW55-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-08
Collection Date: 09/22/08 16:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	113	0	78.4-125		%REC	1	09/25/08 19:15
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	09/25/08 19:15
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 19:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW54R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-09
Collection Date: 09/22/08 16:30
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*15*	5.8	50	J	µg/L	1	09/25/08 19:45
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:45
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 19:45
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/25/08 19:45
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 19:45
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 19:45
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/25/08 19:45
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 19:45
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 19:45
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 19:45
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 19:45
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 19:45
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:45
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 19:45
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 19:45
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 19:45
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:45
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 19:45
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 19:45
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 19:45
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 19:45
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 19:45
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 19:45
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 19:45
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/25/08 19:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW54R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-09
Collection Date: 09/22/08 16:30
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 19:45
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	09/25/08 19:45
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 19:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-10
Collection Date: 09/23/08 07:45
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/25/08 20:15
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 20:15
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/25/08 20:15
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/25/08 20:15
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/25/08 20:15
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/25/08 20:15
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/25/08 20:15
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/25/08 20:15
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 20:15
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/25/08 20:15
Chloroform	A	***1.1***	0.9	5.0	J	µg/L	1	09/25/08 20:15
Chloromethane	A	***ND***	1	10		µg/L	1	09/25/08 20:15
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 20:15
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 20:15
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/25/08 20:15
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/25/08 20:15
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 20:15
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/25/08 20:15
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/25/08 20:15
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 20:15
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 20:15
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 20:15
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/25/08 20:15
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/25/08 20:15
Methylene chloride	A	***ND***	3.1	10		µg/L	1	09/25/08 20:15
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 20:15
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/25/08 20:15
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/25/08 20:15
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 20:15
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 20:15
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 20:15
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 20:15
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/25/08 20:15
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/25/08 20:15
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/25/08 20:15
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/25/08 20:15
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/25/08 20:15
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/25/08 20:15
Surr: 4-Bromofluorobenzene	S	101	0	76.9-116		%REC	1	09/25/08 20:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB02-32 — **Work Order / ID:** ME0809B07-10
Sample Description: — **Collection Date:** 09/23/08 07:45
Sample Matrix: Aqueous — **Date Received:** 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**								
Surr: Dibromofluoromethane	S	106	0	78.4-125		%REC	1	09/25/08 20:15
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 20:15
Surr: Toluene-d8	S	102	0	81.4-122		%REC	1	09/25/08 20:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW31-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-11
Collection Date: 09/23/08 08:55
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*17*	5.8	50	J	µg/L	1	09/25/08 20:45
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 20:45
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 20:45
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/25/08 20:45
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 20:45
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 20:45
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/25/08 20:45
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 20:45
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 20:45
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 20:45
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 20:45
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 20:45
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 20:45
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 20:45
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 20:45
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 20:45
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 20:45
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 20:45
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 20:45
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 20:45
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 20:45
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 20:45
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 20:45
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 20:45
Surr: 4-Bromofluorobenzene	S	99.4	0	76.9-116		%REC	1	09/25/08 20:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW31-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-11
Collection Date: 09/23/08 08:55
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	103	0	78.4-125		%REC	1	09/25/08 20:45
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 20:45
Surr: Toluene-d8	S	103	0	81.4-122		%REC	1	09/25/08 20:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW08-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-12
Collection Date: 09/23/08 09:20
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*16*	5.8	50	J	µg/L	1	09/25/08 21:16
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 21:16
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 21:16
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/25/08 21:16
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 21:16
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 21:16
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/25/08 21:16
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 21:16
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 21:16
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 21:16
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 21:16
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 21:16
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 21:16
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 21:16
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 21:16
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 21:16
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 21:16
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 21:16
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 21:16
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 21:16
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 21:16
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 21:16
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 21:16
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 21:16
Surr: 4-Bromofluorobenzene	S	99.6	0	76.9-116		%REC	1	09/25/08 21:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW08-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-12
Collection Date: 09/23/08 09:20
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	09/25/08 21:16
Surr: 1,2-Dichloroethane-d4	S	114	0	74.2-136		%REC	1	09/25/08 21:16
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 21:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW32-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-13
Collection Date: 09/23/08 10:10
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***19***	5.8	50	J	µg/L	1	09/26/08 13:51
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 13:51
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/26/08 13:51
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/26/08 13:51
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/26/08 13:51
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/26/08 13:51
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/26/08 13:51
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/26/08 13:51
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 13:51
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/26/08 13:51
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/26/08 13:51
Chloromethane	A	***ND***	1	10		µg/L	1	09/26/08 13:51
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 13:51
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 13:51
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/26/08 13:51
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/26/08 13:51
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 13:51
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/26/08 13:51
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/26/08 13:51
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 13:51
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 13:51
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 13:51
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/26/08 13:51
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/26/08 13:51
Methylene chloride	A	***3.8***	3.1	10	J	µg/L	1	09/26/08 13:51
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 13:51
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/26/08 13:51
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/26/08 13:51
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 13:51
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 13:51
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 13:51
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 13:51
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/26/08 13:51
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/26/08 13:51
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/26/08 13:51
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/26/08 13:51
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/26/08 13:51
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/26/08 13:51
Surr: 4-Bromofluorobenzene	S	99.5	0	76.9-116		%REC	1	09/26/08 13:51

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW32-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-13
Collection Date: 09/23/08 10:10
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	09/26/08 13:51
Surr: 1,2-Dichloroethane-d4	S	103	0	74.2-136		%REC	1	09/26/08 13:51
Surr: Toluene-d8	S	101	0	81.4-122		%REC	1	09/26/08 13:51

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW51-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-14
Collection Date: 09/23/08 10:40
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/25/08 21:46
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 21:46
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/25/08 21:46
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/25/08 21:46
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/25/08 21:46
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/25/08 21:46
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/25/08 21:46
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/25/08 21:46
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 21:46
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/25/08 21:46
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/25/08 21:46
Chloromethane	A	***ND***	1	10		µg/L	1	09/25/08 21:46
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 21:46
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/25/08 21:46
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/25/08 21:46
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/25/08 21:46
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 21:46
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/25/08 21:46
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/25/08 21:46
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/25/08 21:46
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 21:46
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 21:46
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/25/08 21:46
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/25/08 21:46
Methylene chloride	A	***9.2***	3.1	10	J	µg/L	1	09/25/08 21:46
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/25/08 21:46
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/25/08 21:46
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/25/08 21:46
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 21:46
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 21:46
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/25/08 21:46
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/25/08 21:46
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/25/08 21:46
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/25/08 21:46
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/25/08 21:46
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/25/08 21:46
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/25/08 21:46
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/25/08 21:46
Surr: 4-Bromofluorobenzene	S	105	0	76.9-116		%REC	1	09/25/08 21:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW51-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-14
Collection Date: 09/23/08 10:40
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	123	0	78.4-125		%REC	1	09/25/08 21:46
Surr: 1,2-Dichloroethane-d4	S	123	0	74.2-136		%REC	1	09/25/08 21:46
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 21:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW33-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-15
Collection Date: 09/23/08 11:20
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	09/25/08 22:16
Benzene	A	4.5	0.8	5.0	J	µg/L	1	09/25/08 22:16
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/25/08 22:16
Bromoform	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
Bromomethane	A	ND	1.8	10		µg/L	1	09/25/08 22:16
2-Butanone	A	ND	3.6	10		µg/L	1	09/25/08 22:16
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/25/08 22:16
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/25/08 22:16
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
Chloroethane	A	ND	2.3	10		µg/L	1	09/25/08 22:16
Chloroform	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
Chloromethane	A	ND	1	10		µg/L	1	09/25/08 22:16
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/25/08 22:16
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/25/08 22:16
cis-1,2-Dichloroethene	A	1.7	0.8	5.0	J	µg/L	1	09/25/08 22:16
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/25/08 22:16
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/25/08 22:16
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/25/08 22:16
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
2-Hexanone	A	ND	2.4	10		µg/L	1	09/25/08 22:16
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/25/08 22:16
Methylene chloride	A	ND	3.1	10		µg/L	1	09/25/08 22:16
Styrene	A	ND	0.7	5.0		µg/L	1	09/25/08 22:16
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/25/08 22:16
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/25/08 22:16
Toluene	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/25/08 22:16
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/25/08 22:16
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/25/08 22:16
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/25/08 22:16
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/25/08 22:16
Surr: 4-Bromofluorobenzene	S	99.3	0	76.9-116		%REC	1	09/25/08 22:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW33-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-15
Collection Date: 09/23/08 11:20
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 22:16
Surr: 1,2-Dichloroethane-d4	S	113	0	74.2-136		%REC	1	09/25/08 22:16
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 22:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW30-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-16
Collection Date: 09/23/08 11:30
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*9.8*	5.8	50	J	µg/L	1	09/26/08 10:32
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 10:32
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/26/08 10:32
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/26/08 10:32
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 10:32
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 10:32
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/26/08 10:32
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 10:32
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 10:32
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 10:32
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 10:32
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 10:32
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 10:32
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 10:32
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 10:32
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 10:32
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 10:32
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 10:32
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 10:32
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 10:32
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/26/08 10:32
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 10:32
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 10:32
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 10:32
Surr: 4-Bromofluorobenzene	S	97.0	0	76.9-116		%REC	1	09/26/08 10:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW30-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-16
Collection Date: 09/23/08 11:30
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	09/26/08 10:32
Surr: 1,2-Dichloroethane-d4	S	97.2	0	74.2-136		%REC	1	09/26/08 10:32
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/26/08 10:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-17
Collection Date: 09/23/08 12:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/26/08 11:02
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 11:02
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/26/08 11:02
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/26/08 11:02
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/26/08 11:02
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/26/08 11:02
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/26/08 11:02
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/26/08 11:02
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 11:02
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/26/08 11:02
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/26/08 11:02
Chloromethane	A	***ND***	1	10		µg/L	1	09/26/08 11:02
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 11:02
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 11:02
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/26/08 11:02
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/26/08 11:02
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 11:02
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/26/08 11:02
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/26/08 11:02
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 11:02
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 11:02
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 11:02
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/26/08 11:02
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/26/08 11:02
Methylene chloride	A	***ND***	3.1	10		µg/L	1	09/26/08 11:02
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 11:02
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/26/08 11:02
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/26/08 11:02
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 11:02
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 11:02
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 11:02
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 11:02
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/26/08 11:02
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/26/08 11:02
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/26/08 11:02
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/26/08 11:02
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/26/08 11:02
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/26/08 11:02
Surr: 4-Bromofluorobenzene	S	100	0	76.9-116		%REC	1	09/26/08 11:02

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-17
Collection Date: 09/23/08 12:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**								
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/26/08 11:02
Surr: 1,2-Dichloroethane-d4	S	100	0	74.2-136		%REC	1	09/26/08 11:02
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/26/08 11:02

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW56-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-18
Collection Date: 09/23/08 14:05
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	09/26/08 11:32
Benzene	A	13	0.8	5.0		µg/L	1	09/26/08 11:32
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/26/08 11:32
Bromoform	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
Bromomethane	A	ND	1.8	10		µg/L	1	09/26/08 11:32
2-Butanone	A	ND	3.6	10		µg/L	1	09/26/08 11:32
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/26/08 11:32
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/26/08 11:32
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
Chloroethane	A	2.4	2.3	10	J	µg/L	1	09/26/08 11:32
Chloroform	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
Chloromethane	A	ND	1	10		µg/L	1	09/26/08 11:32
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/26/08 11:32
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/26/08 11:32
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/26/08 11:32
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/26/08 11:32
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/26/08 11:32
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
2-Hexanone	A	ND	2.4	10		µg/L	1	09/26/08 11:32
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/26/08 11:32
Methylene chloride	A	ND	3.1	10		µg/L	1	09/26/08 11:32
Styrene	A	ND	0.7	5.0		µg/L	1	09/26/08 11:32
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/26/08 11:32
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/26/08 11:32
Toluene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/26/08 11:32
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/26/08 11:32
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/26/08 11:32
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/26/08 11:32
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/26/08 11:32
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/26/08 11:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW56-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-18
Collection Date: 09/23/08 14:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/26/08 11:32
Surr: 1,2-Dichloroethane-d4	S	109	0	74.2-136		%REC	1	09/26/08 11:32
Surr: Toluene-d8	S	103	0	81.4-122		%REC	1	09/26/08 11:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW11-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-19
Collection Date: 09/23/08 14:05
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/26/08 15:34
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 15:34
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/26/08 15:34
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/26/08 15:34
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/26/08 15:34
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/26/08 15:34
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/26/08 15:34
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/26/08 15:34
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 15:34
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/26/08 15:34
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/26/08 15:34
Chloromethane	A	***ND***	1	10		µg/L	1	09/26/08 15:34
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 15:34
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 15:34
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/26/08 15:34
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/26/08 15:34
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 15:34
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/26/08 15:34
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/26/08 15:34
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 15:34
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 15:34
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 15:34
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/26/08 15:34
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/26/08 15:34
Methylene chloride	A	***ND***	3.1	10		µg/L	1	09/26/08 15:34
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 15:34
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/26/08 15:34
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/26/08 15:34
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 15:34
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 15:34
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 15:34
Trichloroethene	A	***1.3***	0.9	5.0	J	µg/L	1	09/26/08 15:34
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/26/08 15:34
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/26/08 15:34
1,2,4-Trichlorobenzene	A	***2.4***	2	5.0	J	µg/L	1	09/26/08 15:34
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/26/08 15:34
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/26/08 15:34
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/26/08 15:34
Surr: 4-Bromofluorobenzene	S	100	0	76.9-116		%REC	1	09/26/08 15:34

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW11-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-19
Collection Date: 09/23/08 14:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	99.8	0	78.4-125		%REC	1	09/26/08 15:34
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	09/26/08 15:34
Surr: Toluene-d8	S	107	0	81.4-122		%REC	1	09/26/08 15:34

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW52-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-20
Collection Date: 09/23/08 15:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Acetone	A	***ND***	5.8	50		µg/L	1	09/26/08 16:05
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:05
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/26/08 16:05
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:05
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/26/08 16:05
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/26/08 16:05
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/26/08 16:05
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/26/08 16:05
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:05
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/26/08 16:05
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:05
Chloromethane	A	***ND***	1	10		µg/L	1	09/26/08 16:05
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:05
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:05
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/26/08 16:05
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/26/08 16:05
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:05
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/26/08 16:05
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/26/08 16:05
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:05
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 16:05
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:05
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/26/08 16:05
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/26/08 16:05
Methylene chloride	A	***ND***	3.1	10		µg/L	1	09/26/08 16:05
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 16:05
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/26/08 16:05
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/26/08 16:05
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:05
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:05
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:05
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:05
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/26/08 16:05
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:05
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/26/08 16:05
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/26/08 16:05
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/26/08 16:05
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/26/08 16:05
Surr: 4-Bromofluorobenzene	S	99.2	0	76.9-116		%REC	1	09/26/08 16:05

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW52-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-20
Collection Date: 09/23/08 15:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	09/26/08 16:05
Surr: 1,2-Dichloroethane-d4	S	109	0	74.2-136		%REC	1	09/26/08 16:05
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/26/08 16:05

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW53-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-21
Collection Date: 09/23/08 15:25
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***8.6***	5.8	50	J	µg/L	1	09/26/08 16:35
Benzene	A	***1.2***	0.8	5.0	J	µg/L	1	09/26/08 16:35
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/26/08 16:35
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:35
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/26/08 16:35
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/26/08 16:35
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/26/08 16:35
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/26/08 16:35
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:35
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/26/08 16:35
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:35
Chloromethane	A	***ND***	1	10		µg/L	1	09/26/08 16:35
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:35
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:35
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/26/08 16:35
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/26/08 16:35
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:35
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/26/08 16:35
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/26/08 16:35
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 16:35
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 16:35
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:35
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/26/08 16:35
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/26/08 16:35
Methylene chloride	A	***ND***	3.1	10		µg/L	1	09/26/08 16:35
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 16:35
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/26/08 16:35
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/26/08 16:35
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:35
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:35
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:35
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:35
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/26/08 16:35
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/26/08 16:35
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/26/08 16:35
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/26/08 16:35
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/26/08 16:35
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/26/08 16:35
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/26/08 16:35

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW53-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-21
Collection Date: 09/23/08 15:25
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/26/08 16:35
Surr: 1,2-Dichloroethane-d4	S	113	0	74.2-136		%REC	1	09/26/08 16:35
Surr: Toluene-d8	S	109	0	81.4-122		%REC	1	09/26/08 16:35

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-22
Collection Date: 09/23/08 08:10
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	09/26/08 17:06
Benzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 17:06
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	09/26/08 17:06
Bromoform	A	***ND***	0.8	5.0		µg/L	1	09/26/08 17:06
Bromomethane	A	***ND***	1.8	10		µg/L	1	09/26/08 17:06
2-Butanone	A	***ND***	3.6	10		µg/L	1	09/26/08 17:06
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	09/26/08 17:06
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	09/26/08 17:06
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 17:06
Chloroethane	A	***ND***	2.3	10		µg/L	1	09/26/08 17:06
Chloroform	A	***ND***	0.9	5.0		µg/L	1	09/26/08 17:06
Chloromethane	A	***ND***	1	10		µg/L	1	09/26/08 17:06
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 17:06
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	09/26/08 17:06
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	09/26/08 17:06
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	09/26/08 17:06
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 17:06
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	09/26/08 17:06
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	09/26/08 17:06
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	09/26/08 17:06
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 17:06
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 17:06
2-Hexanone	A	***ND***	2.4	10		µg/L	1	09/26/08 17:06
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	09/26/08 17:06
Methylene chloride	A	***ND***	3.1	10		µg/L	1	09/26/08 17:06
Styrene	A	***ND***	0.7	5.0		µg/L	1	09/26/08 17:06
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	09/26/08 17:06
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	09/26/08 17:06
Toluene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 17:06
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 17:06
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	09/26/08 17:06
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	09/26/08 17:06
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	09/26/08 17:06
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	09/26/08 17:06
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	09/26/08 17:06
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	09/26/08 17:06
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	09/26/08 17:06
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	09/26/08 17:06
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/26/08 17:06

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Microbac®

ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB03-32 — **Work Order / ID:** ME0809B07-22
Sample Description: — **Collection Date:** 09/23/08 08:10
Sample Matrix: Aqueous — **Date Received:** 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**								
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/26/08 17:06
Surr: 1,2-Dichloroethane-d4	S	113	0	74.2-136		%REC	1	09/26/08 17:06
Surr: Toluene-d8	S	108	0	81.4-122		%REC	1	09/26/08 17:06

Microbac®

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	N/A	=	Not Applicable			
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	=	Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	=	Nanograms per Liter (ppt)

U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL
D	=	Surrogate recoveries are not calculated due to sample dilution
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate

DF = Dilution Factor RL = Reporting Limit ST = Sample Type MDL = Method Detection Limit

SAMPLE TYPES

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)

Baltimore Division - Baltimore, MD
Camp Hill Division - Camp Hill, PA
Camp Hill Division (SC) - Pittston, PA
Chicagoland Division - Merrillville, IN
Chicagoland Division (SC) - Indianapolis, IN
Corona Division - Corona, CA
Erie Division - Erie, PA
Fayetteville Division - Fayetteville, NC
Hauser Division - Boulder, CO
Kentucky Division - Louisville, KY
Kentucky Division (Sat) - Evansville, IN
Kentucky Division (Sat) - Lexington, KY
Kentucky Division (Sat) - Paducah, KY
Knoxville Division - Maryville, TN
Massachusetts Division - Marlborough, MA
Microbac Corporate Office - Wexford, PA
Microbac NY - Cortland Office - Cortland, NY
Microbac NY - Waverly Office - Waverly, NY
New Castle Division - New Castle, PA
Pittsburgh Division - Warrendale, PA
Richmond Division - Richmond, VA
South Carolina Division - New Ellenton, SC
South Jersey Division - Turnersville, NJ
Southern Headquarters - Poquoson, VA
Southern Testing Division - Wilson, NC
Southern Testing Division (Sat) - Greensboro, NC
Venice Division - Venice, FL

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-TB01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-01A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituted Benzoic Acid	3.11	7.0	

FORM I TIC

92516.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-EB01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-02A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

92517.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-DUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-03A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.81	9.1	

FORM I TIC

92518.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW59-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-04A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.81	12.3	
	Unknown Alcohol	4.19	8.8	
	Unknown	6.70	5.7	
	Unknown	7.98	62.5	

FORM I TIC

92519.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW58-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-05A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Alcohol	1.80	9.1	
	Unknown Alcohol	4.19	12.0	
	Unknown Alcohol	6.71	6.7	
	Unknown	7.99	21.0	

FORM I TIC

92605.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW28-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-06A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.71	17.4	

FORM I TIC

92520.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW17-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-07A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	2.13	8.5	
	Unknown	9.04	70.6	

FORM I TIC

92521.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW55-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-08A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Acid	1.78	7.6	
	Unknown Acid	2.66	13.4	
	Unknown	9.07	50.7	

FORM I TIC

92522.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW54R-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-09A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.81	7.0	
	Unknown Alcohol	4.19	6.4	
	Unknown	8.00	52.7	

FORM I TIC

92523.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-EB02-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-10A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

92524.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW31-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-11A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.75	10.7	
	Unknown	9.06	68.4	

FORM I TIC

92525.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW08-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-12A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

92526.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW32-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-13A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\DATA\D092608\D09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	5.78	6.5	

FORM I TIC

92613.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW51-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-14A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	3.09	943.0	
	Unknown	8.00	49.8	

FORM I TIC

92527.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW33-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-15A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 6 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.76	18.4	
	Unknown	3.09	5.9	
	Unknown	5.86	140.8	
	Unknown Alcohol	6.70	14.8	
	Unknown	7.56	9.5	
	Unknown	8.00	77.1	

FORM I TIC

92528.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW30-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-16A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.76	9.3	
	Unknown	8.00	54.4	

FORM I TIC

92608.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-DUP02-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-17A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	9.05	38.2	

FORM I TIC

92609.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW56-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-18A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.68	7.5	
	Unknown	9.07	51.0	

FORM I TIC

92610.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW11-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-19A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

92616.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW52-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-20A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND	Unknown	2.88	50.0	

FORM I TIC

92617.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW53-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-21A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

92618.D

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-EB03-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-22A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

92619.D

Microbac®

COOLER INSPECTION

Date: Monday, October 13, 2008

Client Name: ***MWH, Inc.***

Date / Time Received: ***9/24/2008 1:30:00 PM***

Work Order Number ***ME0809B07***

Received by: DEB

Checklist completed by DEB | 9/24/2008 3:50:29 PM

Reviewed by RJM | 9/25/2008 1:54:49 PM

Carrier name: Microbac

After-Hour Arrival?	Yes ☐	No ☑	
Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody included sufficient client identification?	Yes ☑	No ☐	
Chain of custody included sufficient sample collector information?	Yes ☑	No ☐	
Chain of custody included a sample description?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Chain of custody identified the appropriate matrix?	Yes ☑	No ☐	
Chain of custody included date of collection?	Yes ☑	No ☐	
Chain of custody included time of collection?	Yes ☑	No ☐	
Chain of custody identified the appropriate number of containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
If samples are preserved, are the preservatives identified?	Yes ☑	No ☐	
Samples properly preserved?	Yes ☑	No ☐	

If No, adjusted by? _____ Date/Time _____

Chain of custody included the requested analyses?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Samples received on ice?	Yes ☑	No ☐

Container/Temp Blank temperatures

Cooler	Temp
1	1 ºC

VOA vials for aqueous samples have zero headspace? No VOA vials submitted ☐ Yes ☑ No ☐

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

General Comments:

Sample ID	Client Sample ID	Comments
ME0809B07-01A	ACS-GW-TB01-32	
ME0809B07-02A	ACS-GW-EB01-32	
ME0809B07-03A	ACS-GW-DUP01-32	
ME0809B07-04A	ACS-GW-MW59-32	
ME0809B07-05A	ACS-GW-MW58-32	
ME0809B07-06A	ACS-GW-MW28-32	
ME0809B07-07A	ACS-GW-MW17-32	
ME0809B07-08A	ACS-GW-MW55-32	
ME0809B07-09A	ACS-GW-MW54R-32	
ME0809B07-10A	ACS-GW-EB02-32	
ME0809B07-11A	ACS-GW-MW31-32	
ME0809B07-12A	ACS-GW-MW08-32	
ME0809B07-13A	ACS-GW-MW32-32	
ME0809B07-14A	ACS-GW-MW51-32	

Sample ID	Client Sample ID	Comments
ME0809B07-15A	ACS-GW-MW33-32	
ME0809B07-16A	ACS-GW-MW30-32	
ME0809B07-17A	ACS-GW-DUP02-32	
ME0809B07-18A	ACS-GW-MW56-32	
ME0809B07-19A	ACS-GW-MW11-32	
ME0809B07-20A	ACS-GW-MW52-32	
ME0809B07-21A	ACS-GW-MW53-32	
ME0809B07-22A	ACS-GW-EB03-32	

ME0809B07 MONT. WATSON-IL-CHICAG 10/1/2008
GW - SemiAnnual / ACS
Justin Finger
RJM

Microbac®

Samples Submitted to:
[X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 86558

Instructions on back

Client Name: MWH	Project: ACS GROUNDWATER	Turnaround Time	Report Type
Address: 175 W. JACKSON BLVD, SUITE 1900	Location: GRIFFITH, IN	[X] Routine (7 working days)	[ ] Results Only [ ] Level II
City, State, Zip: CHICAGO, IL 60604	PO #: 4050577.03010601	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: JUSTIN FINGER	Compliance Monitoring? [ ] Yes(1) [ ] No	_____ (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #: (312) 831-3447	(1)Agency/Program		[ ] EDD

Sampled by (PRINT): J. FINGER, A. BUTLER, D. ARMBRUSTER Sampler Signature: [signature] Sampler Phone #: _____

Send Report via: [X] Mail [ ] Telephone [ ] Fax (fax #) _____ [X] e-mail (address) JUSTIN.E.FINGER@MWHGLOBAL.COM

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	VOCs + TICs								For Lab Use Only 0809B07
ACS-GW-TB01-32	GW	X			9/22/08	0800	1	3	X								01 A
ACS-GW-EB01-32	GW	X			9/22/08	1030	3	3	X								02
ACS-GW-DUP01-32	GW	X			9/22/08	1100	3	3	X								03
ACS-GW-MW59-32	GW	X			9/22/08	1200	3	3	X								04
ACS-GW-MW58-32	GW	X			9/22/08	1205	9	3	X								05
ACS-GW-MW28-32	GW	X			9/22/08	1435	3	3	X								06
ACS-GW-MW17-32	GW	X			9/22/08	1455	3	3	X								07
ACS-GW-MW55-32	GW	X			9/22/08	1600	3	3	X								08
ACS-GW-MW54R-32	GW	X			9/22/08	1630	3	3	X								09
ACS-GW-EB02-32	GW	X			9/23/08	0745	3	3	X								10
ACS-GW-MW31-32	GW	X			9/23/08	0855	3	3	X								11

Possible Hazard Identification: [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition: [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
MS/MSD COLLECTED WITH ACS-GW-MW58-32	[signature]	9/24/08 0900	[signature]	9/24/08 1250
RUN SAMPLES ON REGULAR LEVEL MACHINES	[signature]	9/24/08 1330	Received By (signature):	Date/Time:
Sample temperature upon receipt in degrees C = 1 °C	Relinquished By (signature):	Date/Time:	Received for Lab By (signature): [signature]	Date/Time: 9/24/08 1830

rev. 11/04/04

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Samples Submitted to: [ ] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664 [ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 85988

Instructions on back

Client Name SEE PAGE 1	Project	Turnaround Time	Report Type
Address	Location	[ ] Routine (7 working days)	[ ] Results Only [ ] Level II
City, State, Zip	PO #	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact	Compliance Monitoring? [ ] Yes(1) [ ] No	_____ (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) _____ Sampler Signature _____ Sampler Phone # _____

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) _____ [ ] e-mail (address) _____

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	VOCs + TICs								For Lab Use Only 0809B07
ACS-GW-MW08-32	GW	X			9/23/08	0920	3	3	X								12 A
ACS-GW-MW32-32	GW	X			9/23/08	1010	9	3	X								13
ACS-GW-MW51-32	GW	X			9/23/08	1040	3	3	X								14
ACS-GW-MW33-32	GW	X			9/23/08	1120	3	3	X								15
ACS-GW-MW30-32	GW	X			9/23/08	1130	3	3	X								16
ACS-GW-DUP02-32	GW	X			9/23/08	1200	3	3	X								17
ACS-GW-MW56-32	GW	X			9/23/08	1405	3	3	X								18
ACS-GW-MW11-32	GW	X			9/23/08	1405	3	3	X								19
ACS-GW-MW52-32	GW	X			9/23/08	1505	3	3	X								20
ACS-GW-MW53-32	GW	X			9/23/08	1525	3	3	X								21
ACS-GW-EB03-32	GW	X		(W)	9/24/08	0810	3	3	X								22

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
MS/MSD COLLECTED WITH ACS-GW-MW32-32	[signature]	9/24/08 0900	[signature]	9/24/08 1230
RUN SAMPLES ON REGULAR LEVEL MACHINES	Relinquished By (signature) [signature]	Date/Time 9/24/08	Received By (signature)	Date/Time
Sample temperature upon receipt in degrees C = 1 OK	Relinquished By (signature)	Date/Time	Received for Lab By (signature) [signature]	Date/Time 9/24/08 1330

rev. 11/04/04

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Microbac Laboratories, Inc.

Date: *15-Oct-08*

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118819

Sample ID: **MB 9/25** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 8:27:00 AM** SeqNo: **1892947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	ND	10									
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118819

Sample ID: **MB 9/25** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 8:27:00 AM** SeqNo: **1892947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	48.22	0	50	0	96.4	76.9	116	0	0		
Surr: Dibromofluoromethane	49.75	0	50	0	99.5	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	44.8	0	50	0	89.6	74.2	136	0	0		
Surr: Toluene-d8	52.95	0	50	0	106	81.4	122	0	0		

Sample ID: **LCS 20PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 8:57:00 AM** SeqNo: **1892948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.88	5.0	20	0	104	75.5	121	0	0		
Bromodichloromethane	19.84	5.0	20	0	99.2	63.1	132	0	0		
Bromoform	22.07	5.0	20	0	110	33.5	173	0	0		
Bromomethane	15.86	10	20	0	79.3	10	226	0	0		
Carbon tetrachloride	21.02	5.0	20	0	105	68.7	143	0	0		
Chlorobenzene	23.77	5.0	20	0	119	67.9	138	0	0		
Chloroethane	27.92	10	20	0	140	35.6	190	0	0		
Chloroform	22.71	5.0	20	0	114	72.6	134	0	0		
Chloromethane	28.15	10	20	0	141	34.7	130	0	0		S
Dibromochloromethane	20.74	5.0	20	0	104	61.4	141	0	0		
1,1-Dichloroethane	22.17	5.0	20	0	111	76.1	139	0	0		
1,2-Dichloroethane	20.3	5.0	20	0	102	63	145	0	0		
1,1-Dichloroethene	17.32	5.0	20	0	86.6	44	149	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118819

Sample ID: **LCS 20PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 8:57:00 AM** SeqNo: **1892948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	20.54	5.0	20	0	103	52.5	152	0	0		
1,2-Dichloropropane	21.08	5.0	20	0	105	75.3	124	0	0		
cis-1,3-Dichloropropene	20.9	5.0	20	0	104	48.4	152	0	0		
trans-1,3-Dichloropropene	21.31	5.0	20	0	107	39.9	176	0	0		
Ethylbenzene	23.54	5.0	20	0	118	76.1	125	0	0		
Methylene chloride	27.3	10	20	0	136	26.3	157	0	0		
1,1,2,2-Tetrachloroethane	19.34	5.0	20	0	96.7	56.5	136	0	0		
Tetrachloroethene	24.36	5.0	20	0	122	68.7	150	0	0		
Toluene	23.27	5.0	20	0	116	63.9	131	0	0		
1,1,1-Trichloroethane	21.37	5.0	20	0	107	70.1	136	0	0		
1,1,2-Trichloroethane	20.56	5.0	20	0	103	66.6	137	0	0		
Trichloroethene	22.33	5.0	20	0	112	45.2	154	0	0		
Vinyl chloride	16.7	10	20	0	83.5	45	140	0	0		
1,2-Dichlorobenzene	22.4	10	20	0	112	79.6	121	0	0		
1,3-Dichlorobenzene	22.2	10	20	0	111	73.8	113	0	0		
1,4-Dichlorobenzene	22.69	10	20	0	113	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	49.66	0	50	0	99.3	76.9	116	0	0		
Surr: Dibromofluoromethane	54.32	0	50	0	109	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	47.15	0	50	0	94.3	74.2	136	0	0		
Surr: Toluene-d8	51.53	0	50	0	103	81.4	122	0	0		

Sample ID: **ME0809988-01AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 11:49:00 AM** SeqNo: **1897362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	190.9	50	200	0	95.4	60.6	130	0	0		
Bromodichloromethane	194.6	50	200	0	97.3	65.8	126	0	0		
Bromoform	208.8	50	200	0	104	40.5	146	0	0		
Bromomethane	216.1	100	200	0	108	0	243	0	0		
Carbon tetrachloride	200.2	50	200	0	100	47.2	149	0	0		
Chlorobenzene	219.1	50	200	0	110	75.6	127	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118819

Sample ID: **ME0809988-01AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 11:49:00 AM** SeqNo: **1897362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	235.6	100	200	0	118	0	357	0	0		
Chloroform	226	50	200	0	113	71.2	120	0	0		
Chloromethane	258.3	100	200	0	129	10.8	155	0	0		
Dibromochloromethane	208.7	50	200	0	104	60.1	136	0	0		
1,1-Dichloroethane	210.3	50	200	0	105	68	119	0	0		
1,2-Dichloroethane	207.7	50	200	0	104	67.7	133	0	0		
1,1-Dichloroethene	152	50	200	0	76	50.1	125	0	0		
trans-1,2-Dichloroethene	188.4	50	200	0	94.2	56.9	132	0	0		
1,2-Dichloropropane	190.5	50	200	0	95.2	71.4	125	0	0		
cis-1,3-Dichloropropene	189.9	50	200	0	95	66.9	134	0	0		
trans-1,3-Dichloropropene	197.5	50	200	0	98.8	69.9	130	0	0		
Ethylbenzene	216.5	50	200	0	108	60.6	144	0	0		
Methylene chloride	298.9	100	200	0	149	55.4	130	0	0		S
1,1,2,2-Tetrachloroethane	203.7	50	200	0	102	46.8	168	0	0		
Tetrachloroethene	224.6	50	200	0	112	60.1	144	0	0		
Toluene	216.9	50	200	0	108	69.7	130	0	0		
1,1,1-Trichloroethane	192	50	200	0	96	63	136	0	0		
1,1,2-Trichloroethane	187	50	200	0	93.5	40.6	165	0	0		
Trichloroethene	189	50	200	0	94.5	48.6	139	0	0		
Vinyl chloride	171.1	100	200	0	85.6	33	151	0	0		
1,2-Dichlorobenzene	220.9	100	200	0	110	76.7	123	0	0		
1,3-Dichlorobenzene	219	100	200	0	110	69.3	116	0	0		
1,4-Dichlorobenzene	217.6	100	200	0	109	73.9	122	0	0		
Surr: 4-Bromofluorobenzene	510.7	0	500	0	102	76.9	116	0	0		
Surr: Dibromofluoromethane	547	0	500	0	109	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	522.7	0	500	0	105	74.2	136	0	0		
Surr: Toluene-d8	512.1	0	500	0	102	81.4	122	0	0		

Qualifiers:
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R - RPD outside accepted recovery limits
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H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118819

Sample ID: **ME0809988-01AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 12:19:00 PM** SeqNo: **1897363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	162.2	50	200	0	81.1	60.6	130	190.9	16.3	23.7	
Bromodichloromethane	157	50	200	0	78.5	65.8	126	194.6	21.4	28.4	
Bromoform	169.5	50	200	0	84.8	40.5	146	208.8	20.8	28.8	
Bromomethane	135.2	100	200	0	67.6	0	243	216.1	46.1	52.8	
Carbon tetrachloride	168.6	50	200	0	84.3	47.2	149	200.2	17.1	31.1	
Chlorobenzene	177.2	50	200	0	88.6	75.6	127	219.1	21.1	23	
Chloroethane	176.9	100	200	0	88.4	0	357	235.6	28.5	29.3	
Chloroform	180	50	200	0	90	71.2	120	226	22.7	25	
Chloromethane	239.9	100	200	0	120	10.8	155	258.3	7.39	90.9	
Dibromochloromethane	160.2	50	200	0	80.1	60.1	136	208.7	26.3	27.1	
1,1-Dichloroethane	176.3	50	200	0	88.2	68	119	210.3	17.6	14.2	R
1,2-Dichloroethane	153.3	50	200	0	76.6	67.7	133	207.7	30.1	23.3	R
1,1-Dichloroethene	137.9	50	200	0	69	50.1	125	152	9.73	31	
trans-1,2-Dichloroethene	154.8	50	200	0	77.4	56.9	132	188.4	19.6	66.1	
1,2-Dichloropropane	162.7	50	200	0	81.4	71.4	125	190.5	15.7	26	
cis-1,3-Dichloropropene	160	50	200	0	80	66.9	134	189.9	17.1	28.7	
trans-1,3-Dichloropropene	170.8	50	200	0	85.4	69.9	130	197.5	14.5	27.9	
Ethylbenzene	179.2	50	200	0	89.6	60.6	144	216.5	18.9	25.2	
Methylene chloride	245.9	100	200	0	123	55.4	130	298.9	19.5	28.7	
1,1,2,2-Tetrachloroethane	170.3	50	200	0	85.2	46.8	168	203.7	17.9	22.3	
Tetrachloroethene	209.8	50	200	0	105	60.1	144	224.6	6.81	29.7	
Toluene	173.4	50	200	0	86.7	69.7	130	216.9	22.3	25.4	
1,1,1-Trichloroethane	164.2	50	200	0	82.1	63	136	192	15.6	29	
1,1,2-Trichloroethane	176.1	50	200	0	88	40.6	165	187	6.00	25.9	
Trichloroethene	160.7	50	200	0	80.4	48.6	139	189	16.2	26.9	
Vinyl chloride	155.7	100	200	0	77.8	33	151	171.1	9.42	31.2	
1,2-Dichlorobenzene	183.3	100	200	0	91.7	76.7	123	220.9	18.6	17.8	R
1,3-Dichlorobenzene	182.5	100	200	0	91.2	69.3	116	219	18.2	18.2	
1,4-Dichlorobenzene	175.4	100	200	0	87.7	73.9	122	217.6	21.5	17.1	R
Surr: 4-Bromofluorobenzene	477	0	500	0	95.4	76.9	116	0	0	0	
Surr: Dibromofluoromethane	530.1	0	500	0	106	78.4	125	0	0	0	

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118819

Sample ID: **ME0809988-01AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080925A**
Client ID: **ZZZZZ** Batch ID: **R118819** TestNo: **SW8260B** Analysis Date: **9/25/2008 12:19:00 PM** SeqNo: **1897363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	477.9	0	500	0	95.6	74.2	136	0	0	0	
Surr: Toluene-d8	529.4	0	500	0	106	81.4	122	0	0	0	

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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **MB-W-092608** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: ZZZZZ Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:05:00 AM** SeqNo: **1896198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	ND	10									
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									

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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **MB-W-092608** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:05:00 AM** SeqNo: **1896198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	48.81	0	50	0	97.6	76.9	116	0	0		
Surr: Dibromofluoromethane	49.41	0	50	0	98.8	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	49.94	0	50	0	99.9	74.2	136	0	0		
Surr: Toluene-d8	51.61	0	50	0	103	81.4	122	0	0		

Sample ID: **LCS-W-20 PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:35:00 AM** SeqNo: **1896199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.35	5.0	20	0	96.8	75.5	121	0	0		
Bromodichloromethane	18.68	5.0	20	0	93.4	63.1	132	0	0		
Bromoform	19.13	5.0	20	0	95.7	33.5	173	0	0		
Bromomethane	22.53	10	20	0	113	10	226	0	0		
Carbon tetrachloride	22.58	5.0	20	0	113	68.7	143	0	0		
Chlorobenzene	20.27	5.0	20	0	101	67.9	138	0	0		
Chloroethane	22.89	10	20	0	114	35.6	190	0	0		
Chloroform	20.3	5.0	20	0	102	72.6	134	0	0		
Chloromethane	23.9	10	20	0	120	34.7	130	0	0		
Dibromochloromethane	18.39	5.0	20	0	92	61.4	141	0	0		
1,1-Dichloroethane	20.12	5.0	20	0	101	76.1	139	0	0		
1,2-Dichloroethane	20.93	5.0	20	0	105	63	145	0	0		
1,1-Dichloroethene	21.16	5.0	20	0	106	44	149	0	0		
trans-1,2-Dichloroethene	20.6	5.0	20	0	103	52.5	152	0	0		
1,2-Dichloropropane	16.95	5.0	20	0	84.8	75.3	124	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **LCS-W-20 PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:35:00 AM** SeqNo: **1896199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	18.04	5.0	20	0	90.2	48.4	152	0	0		
trans-1,3-Dichloropropene	19.66	5.0	20	0	98.3	39.9	176	0	0		
Ethylbenzene	20.25	5.0	20	0	101	76.1	125	0	0		
Methylene chloride	24.19	10	20	0	121	26.3	157	0	0		
1,1,2,2-Tetrachloroethane	18.93	5.0	20	0	94.6	56.5	136	0	0		
Tetrachloroethene	21.22	5.0	20	0	106	68.7	150	0	0		
Toluene	20.13	5.0	20	0	101	63.9	131	0	0		
1,1,1-Trichloroethane	21.77	5.0	20	0	109	70.1	136	0	0		
1,1,2-Trichloroethane	19.03	5.0	20	0	95.2	66.6	137	0	0		
Trichloroethene	19.93	5.0	20	0	99.7	45.2	154	0	0		
Vinyl chloride	19.53	10	20	0	97.6	45	140	0	0		
1,2-Dichlorobenzene	20.58	10	20	0	103	79.6	121	0	0		
1,3-Dichlorobenzene	19.04	10	20	0	95.2	73.8	113	0	0		
1,4-Dichlorobenzene	19.14	10	20	0	95.7	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	51.19	0	50	0	102	76.9	116	0	0		
Surr: Dibromofluoromethane	51.48	0	50	0	103	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	51.7	0	50	0	103	74.2	136	0	0		
Surr: Toluene-d8	51.69	0	50	0	103	81.4	122	0	0		

Sample ID: **ME0809A94-17AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:04:00 PM** SeqNo: **1896207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.87	5.0	20	0	94.4	60.6	130	0	0		
Bromodichloromethane	19.36	5.0	20	0	96.8	65.8	126	0	0		
Bromoform	19.35	5.0	20	0	96.8	40.5	146	0	0		
Bromomethane	27.65	10	20	0	138	0	243	0	0		
Carbon tetrachloride	23.08	5.0	20	0	115	47.2	149	0	0		
Chlorobenzene	20.83	5.0	20	0	104	75.6	127	0	0		
Chloroethane	24.22	10	20	0	121	0	357	0	0		
Chloroform	21.52	5.0	20	0	108	71.2	120	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **ME0809A94-17AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:04:00 PM** SeqNo: **1896207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	24.96	10	20	0	125	10.8	155	0	0		
Dibromochloromethane	18.69	5.0	20	0	93.4	60.1	136	0	0		
1,1-Dichloroethane	19.44	5.0	20	0	97.2	68	119	0	0		
1,2-Dichloroethane	21.45	5.0	20	0	107	67.7	133	0	0		
1,1-Dichloroethene	21.45	5.0	20	0	107	50.1	125	0	0		
trans-1,2-Dichloroethene	21.16	5.0	20	0	106	56.9	132	0	0		
1,2-Dichloropropane	16.12	5.0	20	0	80.6	71.4	125	0	0		
cis-1,3-Dichloropropene	18.95	5.0	20	0	94.8	66.9	134	0	0		
trans-1,3-Dichloropropene	21.03	5.0	20	0	105	69.9	130	0	0		
Ethylbenzene	21.79	5.0	20	0	109	60.6	144	0	0		
Methylene chloride	23.51	10	20	0	118	55.4	130	0	0		
1,1,2,2-Tetrachloroethane	18.73	5.0	20	0	93.6	46.8	168	0	0		
Tetrachloroethene	22.77	5.0	20	0	114	60.1	144	0	0		
Toluene	22.19	5.0	20	0	111	69.7	130	0	0		
1,1,1-Trichloroethane	23.41	5.0	20	0	117	63	136	0	0		
1,1,2-Trichloroethane	19.31	5.0	20	0	96.6	40.6	165	0	0		
Trichloroethene	19.4	5.0	20	0	97	48.6	139	0	0		
Vinyl chloride	21.41	10	20	0	107	33	151	0	0		
1,2-Dichlorobenzene	19.72	10	20	0	98.6	76.7	123	0	0		
1,3-Dichlorobenzene	19.7	10	20	0	98.5	69.3	116	0	0		
1,4-Dichlorobenzene	19.66	10	20	0	98.3	73.9	122	0	0		
Surr: 4-Bromofluorobenzene	54.36	0	50	0	109	76.9	116	0	0		
Surr: Dibromofluoromethane	49.92	0	50	0	99.8	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	54.34	0	50	0	109	74.2	136	0	0		
Surr: Toluene-d8	54.31	0	50	0	109	81.4	122	0	0		

Sample ID: **ME0809A94-17AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:35:00 PM** SeqNo: **1896208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.52	5.0	20	0	97.6	60.6	130	18.87	3.39	23.7	

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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **ME0809A94-17AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:35:00 PM** SeqNo: **1896208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	19.61	5.0	20	0	98	65.8	126	19.36	1.28	28.4	
Bromoform	19.6	5.0	20	0	98	40.5	146	19.35	1.28	28.8	
Bromomethane	31.51	10	20	0	158	0	243	27.65	13.0	52.8	
Carbon tetrachloride	24.72	5.0	20	0	124	47.2	149	23.08	6.86	31.1	
Chlorobenzene	21.31	5.0	20	0	107	75.6	127	20.83	2.28	23	
Chloroethane	26.69	10	20	0	133	0	357	24.22	9.70	29.3	
Chloroform	22.6	5.0	20	0	113	71.2	120	21.52	4.90	25	
Chloromethane	26.24	10	20	0	131	10.8	155	24.96	5.00	90.9	
Dibromochloromethane	19.33	5.0	20	0	96.7	60.1	136	18.69	3.37	27.1	
1,1-Dichloroethane	19.61	5.0	20	0	98	68	119	19.44	0.871	14.2	
1,2-Dichloroethane	22.17	5.0	20	0	111	67.7	133	21.45	3.30	23.3	
1,1-Dichloroethene	22.31	5.0	20	0	112	50.1	125	21.45	3.93	31	
trans-1,2-Dichloroethene	22	5.0	20	0	110	56.9	132	21.16	3.89	66.1	
1,2-Dichloropropane	16.67	5.0	20	0	83.4	71.4	125	16.12	3.35	26	
cis-1,3-Dichloropropene	18.16	5.0	20	0	90.8	66.9	134	18.95	4.26	28.7	
trans-1,3-Dichloropropene	20.43	5.0	20	0	102	69.9	130	21.03	2.89	27.9	
Ethylbenzene	21.82	5.0	20	0	109	60.6	144	21.79	0.138	25.2	
Methylene chloride	23.19	10	20	0	116	55.4	130	23.51	1.37	28.7	
1,1,2,2-Tetrachloroethane	18.09	5.0	20	0	90.4	46.8	168	18.73	3.48	22.3	
Tetrachloroethene	23.01	5.0	20	0	115	60.1	144	22.77	1.05	29.7	
Toluene	22.27	5.0	20	0	111	69.7	130	22.19	0.360	25.4	
1,1,1-Trichloroethane	23.85	5.0	20	0	119	63	136	23.41	1.86	29	
1,1,2-Trichloroethane	20.05	5.0	20	0	100	40.6	165	19.31	3.76	25.9	
Trichloroethene	20.54	5.0	20	0	103	48.6	139	19.4	5.71	26.9	
Vinyl chloride	23.44	10	20	0	117	33	151	21.41	9.05	31.2	
1,2-Dichlorobenzene	20.45	10	20	0	102	76.7	123	19.72	3.63	17.8	
1,3-Dichlorobenzene	19.65	10	20	0	98.2	69.3	116	19.7	0.254	18.2	
1,4-Dichlorobenzene	20.14	10	20	0	101	73.9	122	19.66	2.41	17.1	
Surr: 4-Bromofluorobenzene	51.67	0	50	0	103	76.9	116	0	0	0	
Surr: Dibromofluoromethane	49.8	0	50	0	99.6	78.4	125	0	0	0	
Surr: 1,2-Dichloroethane-d4	55.28	0	50	0	111	74.2	136	0	0	0	

Qualifiers:
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **ME0809A94-17AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:35:00 PM** SeqNo: **1896208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	53.42	0	50	0	107	81.4	122	0	0	0	

Qualifiers:
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R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118880

Sample ID: **MB 9/26** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ZZZZZ** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:27:00 AM** SeqNo: **1894141**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	15.12	10									
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									

Qualifiers:
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R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118880

Sample ID: **MB 9/26** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ZZZZZ** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:27:00 AM** SeqNo: **1894141**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	48.24	0	50	0	96.5	76.9	116	0	0		
Surr: Dibromofluoromethane	49.92	0	50	0	99.8	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	42.85	0	50	0	85.7	74.2	136	0	0		
Surr: Toluene-d8	53.67	0	50	0	107	81.4	122	0	0		

Sample ID: **LCS 20PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ZZZZZ** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:57:00 AM** SeqNo: **1894142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.86	5.0	20	0	99.3	75.5	121	0	0		
Bromodichloromethane	19.17	5.0	20	0	95.8	63.1	132	0	0		
Bromoform	20.67	5.0	20	0	103	33.5	173	0	0		
Bromomethane	17.67	10	20	0	88.4	10	226	0	0		
Carbon tetrachloride	19.84	5.0	20	0	99.2	68.7	143	0	0		
Chlorobenzene	21.55	5.0	20	0	108	67.9	138	0	0		
Chloroethane	26.55	10	20	0	133	35.6	190	0	0		
Chloroform	21.41	5.0	20	0	107	72.6	134	0	0		
Chloromethane	29.5	10	20	0	148	34.7	130	0	0		S
Dibromochloromethane	18.98	5.0	20	0	94.9	61.4	141	0	0		
1,1-Dichloroethane	20.82	5.0	20	0	104	76.1	139	0	0		
1,2-Dichloroethane	20.44	5.0	20	0	102	63	145	0	0		
1,1-Dichloroethene	14.2	5.0	20	0	71	44	149	0	0		
trans-1,2-Dichloroethene	17.87	5.0	20	0	89.4	52.5	152	0	0		
1,2-Dichloropropane	19.92	5.0	20	0	99.6	75.3	124	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118880

Sample ID: **LCS 20PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ZZZZZ** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:57:00 AM** SeqNo: **1894142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	18.59	5.0	20	0	93	48.4	152	0	0		
trans-1,3-Dichloropropene	19.19	5.0	20	0	96	39.9	176	0	0		
Ethylbenzene	21.15	5.0	20	0	106	76.1	125	0	0		
Methylene chloride	32.32	10	20	15.12	86	26.3	157	0	0		B
1,1,2,2-Tetrachloroethane	19.8	5.0	20	0	99	56.5	136	0	0		
Tetrachloroethene	20.89	5.0	20	0	104	68.7	150	0	0		
Toluene	19.56	5.0	20	0	97.8	63.9	131	0	0		
1,1,1-Trichloroethane	19.16	5.0	20	0	95.8	70.1	136	0	0		
1,1,2-Trichloroethane	19.48	5.0	20	0	97.4	66.6	137	0	0		
Trichloroethene	19.4	5.0	20	0	97	45.2	154	0	0		
Vinyl chloride	18.29	10	20	0	91.4	45	140	0	0		
1,2-Dichlorobenzene	21.26	10	20	0	106	79.6	121	0	0		
1,3-Dichlorobenzene	20.86	10	20	0	104	73.8	113	0	0		
1,4-Dichlorobenzene	21.01	10	20	0	105	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	50.98	0	50	0	102	76.9	116	0	0		
Surr: Dibromofluoromethane	55.32	0	50	0	111	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	49.86	0	50	0	99.7	74.2	136	0	0		
Surr: Toluene-d8	50.58	0	50	0	101	81.4	122	0	0		

Sample ID: **ME0809B07-05AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ACS-GW-MW58-32** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 9:31:00 AM** SeqNo: **1896175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.18	5.0	20	0	116	60.6	130	0	0		
Bromodichloromethane	21.35	5.0	20	0	107	65.8	126	0	0		
Bromoform	24.03	5.0	20	0	120	40.5	146	0	0		
Bromomethane	33.09	10	20	0	165	0	243	0	0		
Carbon tetrachloride	25.53	5.0	20	0	128	47.2	149	0	0		
Chlorobenzene	25.34	5.0	20	0	127	75.6	127	0	0		
Chloroethane	39.29	10	20	0	196	0	357	0	0		
Chloroform	24.29	5.0	20	0	121	71.2	120	0	0		S

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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118880

Sample ID: **ME0809B07-05AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ACS-GW-MW58-32** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 9:31:00 AM** SeqNo: **1896175**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	32.29	10	20	0	161	10.8	155	0	0		S
Dibromochloromethane	23.15	5.0	20	0	116	60.1	136	0	0		
1,1-Dichloroethane	25.7	5.0	20	0	128	68	119	0	0		S
1,2-Dichloroethane	21.85	5.0	20	0	109	67.7	133	0	0		
1,1-Dichloroethene	17.86	5.0	20	0	89.3	50.1	125	0	0		
trans-1,2-Dichloroethene	23.12	5.0	20	0	116	56.9	132	0	0		
1,2-Dichloropropane	22.55	5.0	20	0	113	71.4	125	0	0		
cis-1,3-Dichloropropene	21.72	5.0	20	0	109	66.9	134	0	0		
trans-1,3-Dichloropropene	22.75	5.0	20	0	114	69.9	130	0	0		
Ethylbenzene	25.59	5.0	20	0	128	60.6	144	0	0		
Methylene chloride	18.73	10	20	0	93.6	55.4	130	0	0		B
1,1,2,2-Tetrachloroethane	22.3	5.0	20	0	112	46.8	168	0	0		
Tetrachloroethene	27.35	5.0	20	0	137	60.1	144	0	0		
Toluene	24.52	5.0	20	0	123	69.7	130	0	0		
1,1,1-Trichloroethane	23.97	5.0	20	0	120	63	136	0	0		
1,1,2-Trichloroethane	22.97	5.0	20	0	115	40.6	165	0	0		
Trichloroethene	23.6	5.0	20	0	118	48.6	139	0	0		
Vinyl chloride	21.51	10	20	0	108	33	151	0	0		
1,2-Dichlorobenzene	25.02	10	20	0	125	76.7	123	0	0		S
1,3-Dichlorobenzene	25.02	10	20	0	125	69.3	116	0	0		S
1,4-Dichlorobenzene	24.84	10	20	0	124	73.9	122	0	0		S
Surr: 4-Bromofluorobenzene	51.35	0	50	0	103	76.9	116	0	0		
Surr: Dibromofluoromethane	54.36	0	50	0	109	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	48.23	0	50	0	96.5	74.2	136	0	0		
Surr: Toluene-d8	52.6	0	50	0	105	81.4	122	0	0		

Sample ID: **ME0809B07-05AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ACS-GW-MW58-32** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 10:01:00 AM** SeqNo: **1896176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.66	5.0	20	0	108	60.6	130	23.18	6.78	23.7	

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R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118880

Sample ID: **ME0809B07-05AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ACS-GW-MW58-32** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 10:01:00 AM** SeqNo: **1896176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	21.56	5.0	20	0	108	65.8	126	21.35	0.979	28.4	
Bromoform	24.65	5.0	20	0	123	40.5	146	24.03	2.55	28.8	
Bromomethane	19.29	10	20	0	96.5	0	243	33.09	52.7	52.8	
Carbon tetrachloride	22.41	5.0	20	0	112	47.2	149	25.53	13.0	31.1	
Chlorobenzene	25.97	5.0	20	0	130	75.6	127	25.34	2.46	23	S
Chloroethane	31.74	10	20	0	159	0	357	39.29	21.3	29.3	
Chloroform	23.37	5.0	20	0	117	71.2	120	24.29	3.86	25	
Chloromethane	30.35	10	20	0	152	10.8	155	32.29	6.19	90.9	
Dibromochloromethane	22.39	5.0	20	0	112	60.1	136	23.15	3.34	27.1	
1,1-Dichloroethane	24.15	5.0	20	0	121	68	119	25.7	6.22	14.2	S
1,2-Dichloroethane	21.58	5.0	20	0	108	67.7	133	21.85	1.24	23.3	
1,1-Dichloroethene	17.09	5.0	20	0	85.4	50.1	125	17.86	4.41	31	
trans-1,2-Dichloroethene	21.13	5.0	20	0	106	56.9	132	23.12	8.99	66.1	
1,2-Dichloropropane	21.7	5.0	20	0	108	71.4	125	22.55	3.84	26	
cis-1,3-Dichloropropene	20.33	5.0	20	0	102	66.9	134	21.72	6.61	28.7	
trans-1,3-Dichloropropene	22.4	5.0	20	0	112	69.9	130	22.75	1.55	27.9	
Ethylbenzene	25.93	5.0	20	0	130	60.6	144	25.59	1.32	25.2	
Methylene chloride	22.94	10	20	0	115	55.4	130	18.73	20.2	28.7	B
1,1,2,2-Tetrachloroethane	24.41	5.0	20	0	122	46.8	168	22.3	9.03	22.3	
Tetrachloroethene	27.37	5.0	20	0	137	60.1	144	27.35	0.0731	29.7	
Toluene	25.16	5.0	20	0	126	69.7	130	24.52	2.58	25.4	
1,1,1-Trichloroethane	24.04	5.0	20	0	120	63	136	23.97	0.292	29	
1,1,2-Trichloroethane	22.42	5.0	20	0	112	40.6	165	22.97	2.42	25.9	
Trichloroethene	21.48	5.0	20	0	107	48.6	139	23.6	9.41	26.9	
Vinyl chloride	19.74	10	20	0	98.7	33	151	21.51	8.58	31.2	
1,2-Dichlorobenzene	24.89	10	20	0	124	76.7	123	25.02	0.521	17.8	S
1,3-Dichlorobenzene	24.77	10	20	0	124	69.3	116	25.02	1.00	18.2	S
1,4-Dichlorobenzene	24.49	10	20	0	122	73.9	122	24.84	1.42	17.1	S
Surr: 4-Bromofluorobenzene	48.88	0	50	0	97.8	76.9	116	0	0	0	
Surr: Dibromofluoromethane	51.79	0	50	0	104	78.4	125	0	0	0	
Surr: 1,2-Dichloroethane-d4	46.95	0	50	0	93.9	74.2	136	0	0	0	

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118880

Sample ID: **ME0809B07-05AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-3_080926A**
Client ID: **ACS-GW-MW58-32** Batch ID: **R118880** TestNo: **SW8260B** Analysis Date: **9/26/2008 10:01:00 AM** SeqNo: **1896176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	53.15	0	50	0	106	81.4	122	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118885

Sample ID: **BK-9/26/08** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ZZZZZ** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 8:14:00 AM** SeqNo: **1896128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
Methylene chloride	5.38	10									J
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118885

Sample ID: **BK-9/26/08** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ZZZZZ** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 8:14:00 AM** SeqNo: **1896128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	49.38	0	50	0	98.8	76.9	116	0	0		
Surr: Dibromofluoromethane	55.61	0	50	0	111	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	49.03	0	50	0	98.1	74.2	136	0	0		
Surr: Toluene-d8	49.37	0	50	0	98.7	81.4	122	0	0		

Sample ID: **LCS-20 PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ZZZZZ** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 8:49:00 AM** SeqNo: **1896129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.6	5.0	20	0	108	75.5	121	0	0		
Bromodichloromethane	21.29	5.0	20	0	106	63.1	132	0	0		
Bromoform	22.61	5.0	20	0	113	33.5	173	0	0		
Bromomethane	22.99	10	20	0	115	10	226	0	0		
Carbon tetrachloride	21.24	5.0	20	0	106	68.7	143	0	0		
Chlorobenzene	21.56	5.0	20	0	108	67.9	138	0	0		
Chloroethane	28.23	10	20	0	141	35.6	190	0	0		
Chloroform	23.42	5.0	20	0	117	72.6	134	0	0		
Chloromethane	40.01	10	20	0	200	34.7	130	0	0		S
1,1-Dichloroethane	22.18	5.0	20	0	111	76.1	139	0	0		
1,2-Dichloroethane	20.67	5.0	20	0	103	63	145	0	0		
1,1-Dichloroethene	19.36	5.0	20	0	96.8	44	149	0	0		
trans-1,2-Dichloroethene	21.95	5.0	20	0	110	52.5	152	0	0		
1,2-Dichloropropane	22.03	5.0	20	0	110	75.3	124	0	0		
cis-1,3-Dichloropropene	20.47	5.0	20	0	102	48.4	152	0	0		
trans-1,3-Dichloropropene	20.03	5.0	20	0	100	39.9	176	0	0		
Ethylbenzene	21.45	5.0	20	0	107	76.1	125	0	0		

Qualifiers:
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R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118885

Sample ID: **LCS-20 PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ZZZZZ** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 8:49:00 AM** SeqNo: **1896129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	22.37	10	20	0	112	26.3	157	0	0		
1,1,2,2-Tetrachloroethane	20.1	5.0	20	0	100	56.5	136	0	0		
Tetrachloroethene	23.14	5.0	20	0	116	68.7	150	0	0		
Toluene	21.98	5.0	20	0	110	63.9	131	0	0		
1,1,1-Trichloroethane	22.19	5.0	20	0	111	70.1	136	0	0		
1,1,2-Trichloroethane	21.39	5.0	20	0	107	66.6	137	0	0		
Trichloroethene	22.11	5.0	20	0	111	45.2	154	0	0		
Vinyl chloride	23.27	10	20	0	116	45	140	0	0		
1,2-Dichlorobenzene	21.75	10	20	0	109	79.6	121	0	0		
1,3-Dichlorobenzene	21.9	10	20	0	110	73.8	113	0	0		
1,4-Dichlorobenzene	21.27	10	20	0	106	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	49.34	0	50	0	98.7	76.9	116	0	0		
Surr: Dibromofluoromethane	53.57	0	50	0	107	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	48.72	0	50	0	97.4	74.2	136	0	0		
Surr: Toluene-d8	49.5	0	50	0	99	81.4	122	0	0		

Sample ID: **ME0809B07-13AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ACS-GW-MW32-32** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 2:27:00 PM** SeqNo: **1896137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	16.87	5.0	20	0	84.4	60.6	130	0	0		
Bromodichloromethane	16.93	5.0	20	0	84.6	65.8	126	0	0		
Bromoform	19.77	5.0	20	0	98.8	40.5	146	0	0		
Bromomethane	21.39	10	20	0	107	0	243	0	0		
Carbon tetrachloride	16.56	5.0	20	0	82.8	47.2	149	0	0		
Chlorobenzene	17.99	5.0	20	0	90	75.6	127	0	0		
Chloroethane	25.13	10	20	0	126	0	357	0	0		
Chloroform	18.62	5.0	20	0	93.1	71.2	120	0	0		
Chloromethane	32.09	10	20	0	160	10.8	155	0	0		S
1,1-Dichloroethane	17.92	5.0	20	0	89.6	68	119	0	0		
1,2-Dichloroethane	17.12	5.0	20	0	85.6	67.7	133	0	0		

Qualifiers:
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R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118885

Sample ID: **ME0809B07-13AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ACS-GW-MW32-32** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 2:27:00 PM** SeqNo: **1896137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.49	5.0	20	0	72.4	50.1	125	0	0		
trans-1,2-Dichloroethene	16.7	5.0	20	0	83.5	56.9	132	0	0		
1,2-Dichloropropane	17.23	5.0	20	0	86.2	71.4	125	0	0		
cis-1,3-Dichloropropene	16.58	5.0	20	0	82.9	66.9	134	0	0		
trans-1,3-Dichloropropene	16.45	5.0	20	0	82.2	69.9	130	0	0		
Ethylbenzene	17.97	5.0	20	0	89.8	60.6	144	0	0		
Methylene chloride	17.6	10	20	0	88	55.4	130	0	0		
1,1,2,2-Tetrachloroethane	18.08	5.0	20	0	90.4	46.8	168	0	0		
Tetrachloroethene	18.35	5.0	20	0	91.8	60.1	144	0	0		
Toluene	18.19	5.0	20	0	91	69.7	130	0	0		
1,1,1-Trichloroethane	16.4	5.0	20	0	82	63	136	0	0		
1,1,2-Trichloroethane	17.59	5.0	20	0	88	40.6	165	0	0		
Trichloroethene	17.63	5.0	20	0	88.2	48.6	139	0	0		
Vinyl chloride	19.27	10	20	0	96.4	33	151	0	0		
1,2-Dichlorobenzene	18.2	10	20	0	91	76.7	123	0	0		
1,3-Dichlorobenzene	18.55	10	20	0	92.8	69.3	116	0	0		
1,4-Dichlorobenzene	18.12	10	20	0	90.6	73.9	122	0	0		
Surr: 4-Bromofluorobenzene	50.24	0	50	0	100	76.9	116	0	0		
Surr: Dibromofluoromethane	55.08	0	50	0	110	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	51.35	0	50	0	103	74.2	136	0	0		
Surr: Toluene-d8	51.58	0	50	0	103	81.4	122	0	0		

Sample ID: **ME0809B07-13AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ACS-GW-MW32-32** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 3:02:00 PM** SeqNo: **1896138**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.17	5.0	20	0	95.8	60.6	130	16.87	12.8	23.7	
Bromodichloromethane	19.16	5.0	20	0	95.8	65.8	126	16.93	12.4	28.4	
Bromoform	21.06	5.0	20	0	105	40.5	146	19.77	6.32	28.8	
Bromomethane	25.65	10	20	0	128	0	243	21.39	18.1	52.8	
Carbon tetrachloride	18.43	5.0	20	0	92.2	47.2	149	16.56	10.7	31.1	

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CLIENT: MWH, Inc.
Work Order: ME0809B07
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118885

Sample ID: **ME0809B07-13AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_080926A**
Client ID: **ACS-GW-MW32-32** Batch ID: **R118885** TestNo: **SW8260B** Analysis Date: **9/26/2008 3:02:00 PM** SeqNo: **1896138**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	19.84	5.0	20	0	99.2	75.6	127	17.99	9.78	23	
Chloroethane	24.72	10	20	0	124	0	357	25.13	1.64	29.3	
Chloroform	20.23	5.0	20	0	101	71.2	120	18.62	8.29	25	
Chloromethane	36.27	10	20	0	181	10.8	155	32.09	12.2	90.9	S
1,1-Dichloroethane	19.36	5.0	20	0	96.8	68	119	17.92	7.73	14.2	
1,2-Dichloroethane	18.27	5.0	20	0	91.4	67.7	133	17.12	6.50	23.3	
1,1-Dichloroethene	16.37	5.0	20	0	81.8	50.1	125	14.49	12.2	31	
trans-1,2-Dichloroethene	18.39	5.0	20	0	92	56.9	132	16.7	9.63	66.1	
1,2-Dichloropropane	19.05	5.0	20	0	95.2	71.4	125	17.23	10.0	26	
cis-1,3-Dichloropropene	18.03	5.0	20	0	90.2	66.9	134	16.58	8.38	28.7	
trans-1,3-Dichloropropene	18.04	5.0	20	0	90.2	69.9	130	16.45	9.22	27.9	
Ethylbenzene	19.95	5.0	20	0	99.8	60.6	144	17.97	10.4	25.2	
Methylene chloride	18.63	10	20	0	93.2	55.4	130	17.6	5.69	28.7	
1,1,2,2-Tetrachloroethane	18.65	5.0	20	0	93.3	46.8	168	18.08	3.10	22.3	
Tetrachloroethene	20.42	5.0	20	0	102	60.1	144	18.35	10.7	29.7	
Toluene	19.67	5.0	20	0	98.4	69.7	130	18.19	7.82	25.4	
1,1,1-Trichloroethane	18.3	5.0	20	0	91.5	63	136	16.4	11.0	29	
1,1,2-Trichloroethane	19.03	5.0	20	0	95.2	40.6	165	17.59	7.86	25.9	
Trichloroethene	19	5.0	20	0	95	48.6	139	17.63	7.48	26.9	
Vinyl chloride	20.7	10	20	0	104	33	151	19.27	7.16	31.2	
1,2-Dichlorobenzene	19.86	10	20	0	99.3	76.7	123	18.2	8.72	17.8	
1,3-Dichlorobenzene	19.77	10	20	0	98.8	69.3	116	18.55	6.37	18.2	
1,4-Dichlorobenzene	19.21	10	20	0	96	73.9	122	18.12	5.84	17.1	
Surr: 4-Bromofluorobenzene	49.39	0	50	0	98.8	76.9	116	0	0	0	
Surr: Dibromofluoromethane	54.74	0	50	0	109	78.4	125	0	0	0	
Surr: 1,2-Dichloroethane-d4	49.68	0	50	0	99.4	74.2	136	0	0	0	
Surr: Toluene-d8	51.08	0	50	0	102	81.4	122	0	0	0	

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VOA GC/MS
RAW DATA

METHOD BLANK
RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092503.D Vial: 3
Acq On : 25 Sep 2008 8:27 am Operator: MT
Sample : ,MBLK,MB 9/25,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 9:23 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

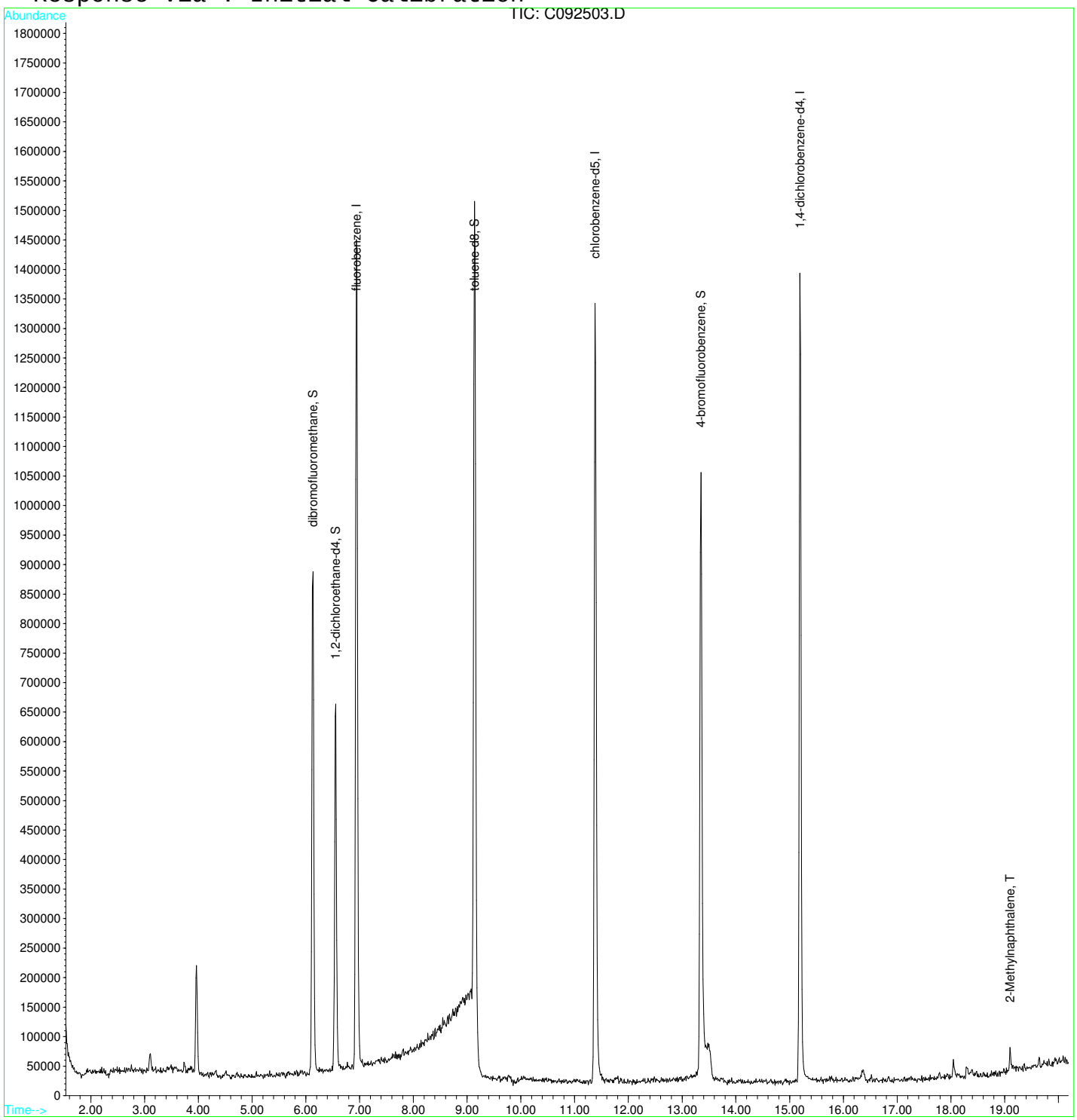
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1771491	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.38	117	1263969	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.19	152	535260	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	677683	49.75 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	568736	44.80 ug/L	0.00
44) toluene-d8	9.14	98	1592812	52.95 ug/L	-0.01
63) 4-bromofluorobenzene	13.35	95	638991	48.22 ug/L	-0.01
Target Compounds					Qvalue
85) 2-Methylnaphthalene	19.10	142	21104	3.13 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092503.D Vial: 3
Acq On : 25 Sep 2008 8:27 am Operator: MT
Sample : ,MBLK,MB 9/25,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 9:23 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092603.D Vial: 3
Acq On : 26 Sep 2008 7:27 am Operator: NLT
Sample : ,MBLK,MB 9/26,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 7:54 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

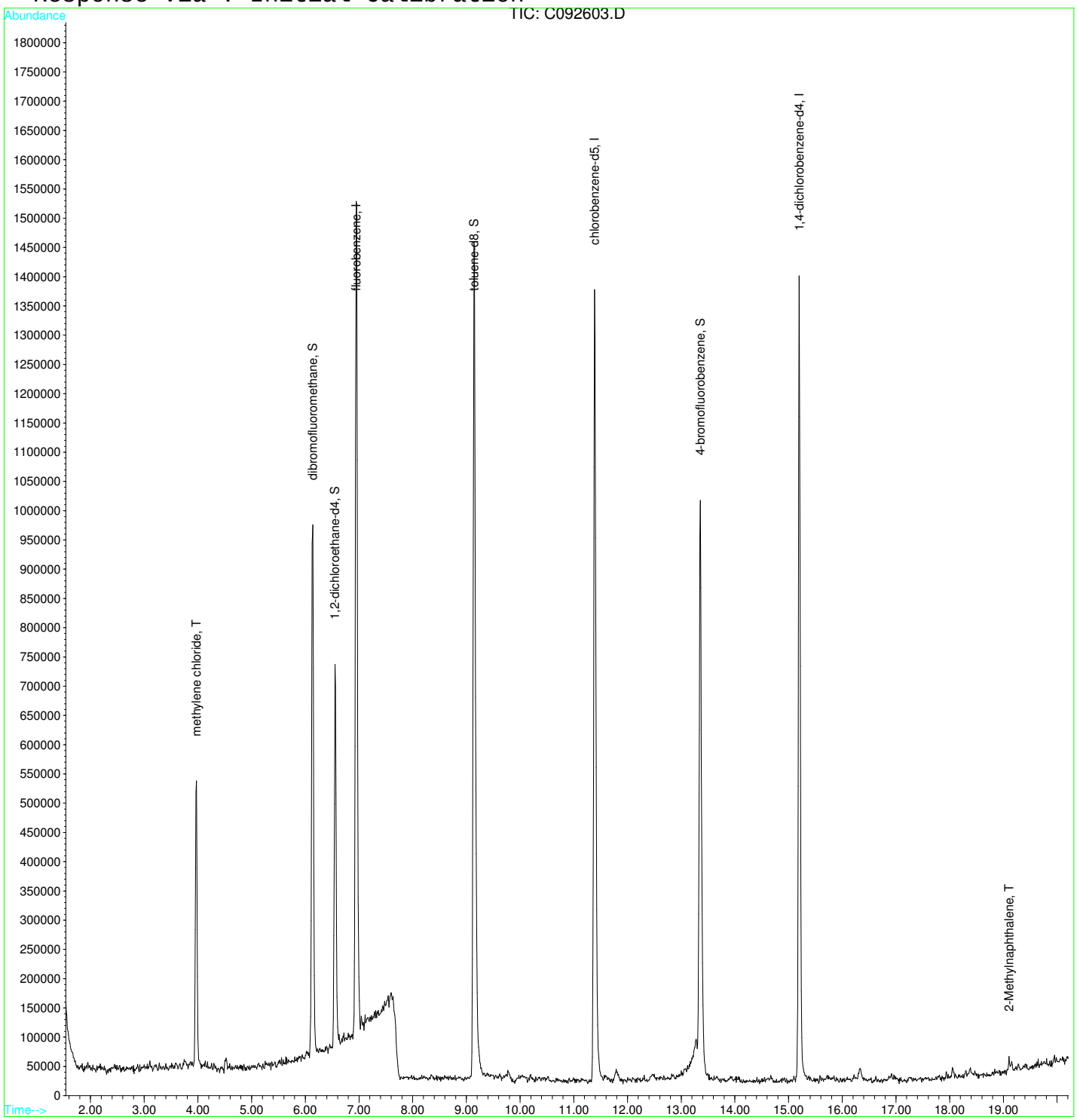
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1899157	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1327081	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	529803	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	729065	49.92 ug/L	0.00
30) 1,2-dichloroethane-d4	6.55	65	583126	42.85 ug/L	0.00
44) toluene-d8	9.14	98	1695024	53.67 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	671194	48.24 ug/L	0.00
Target Compounds					Qvalue
13) methylene chloride	3.97	84	277554	15.12 ug/L	92
85) 2-Methylnaphthalene	19.11	142	13308	1.99 ug/L	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092603.D Vial: 3
Acq On : 26 Sep 2008 7:27 am Operator: NLT
Sample : ,MBLK,MB 9/26,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 7:54 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092604.D Vial: 4
Acq On : 26 Sep 2008 8:14 am Operator: BR
Sample : ,MBLK,BK-9/26/08,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 9:12 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1406543	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	984686	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.83	152	486930	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	440793	55.61 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	531593	49.03 ug/L	-0.02
44) toluene-d8	9.31	98	1261020	49.37 ug/L	-0.02
63) 4-bromofluorobenzene	13.87	95	563119	49.38 ug/L	-0.03
Target Compounds					Qvalue
6) bromomethane	2.22	94	664	8.37 ug/L #	13
13) methylene chloride	3.83	84	52845	5.38 ug/L #	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report

```
Data File : C:\HPCHEM\1\DATA\D092608\D092604.D          Vial: 4
Acq On    : 26 Sep 2008   8:14 am                    Operator: BR
Sample    : ,MBLK,BK-9/26/08,1,                      Inst    : VOA 4
Misc      : 8260+_W                                  Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26  9:12 2008              Quant Results File: VOA0818.RES

Method       : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title        : VOA ICAL 08/18/08
Last Update  : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
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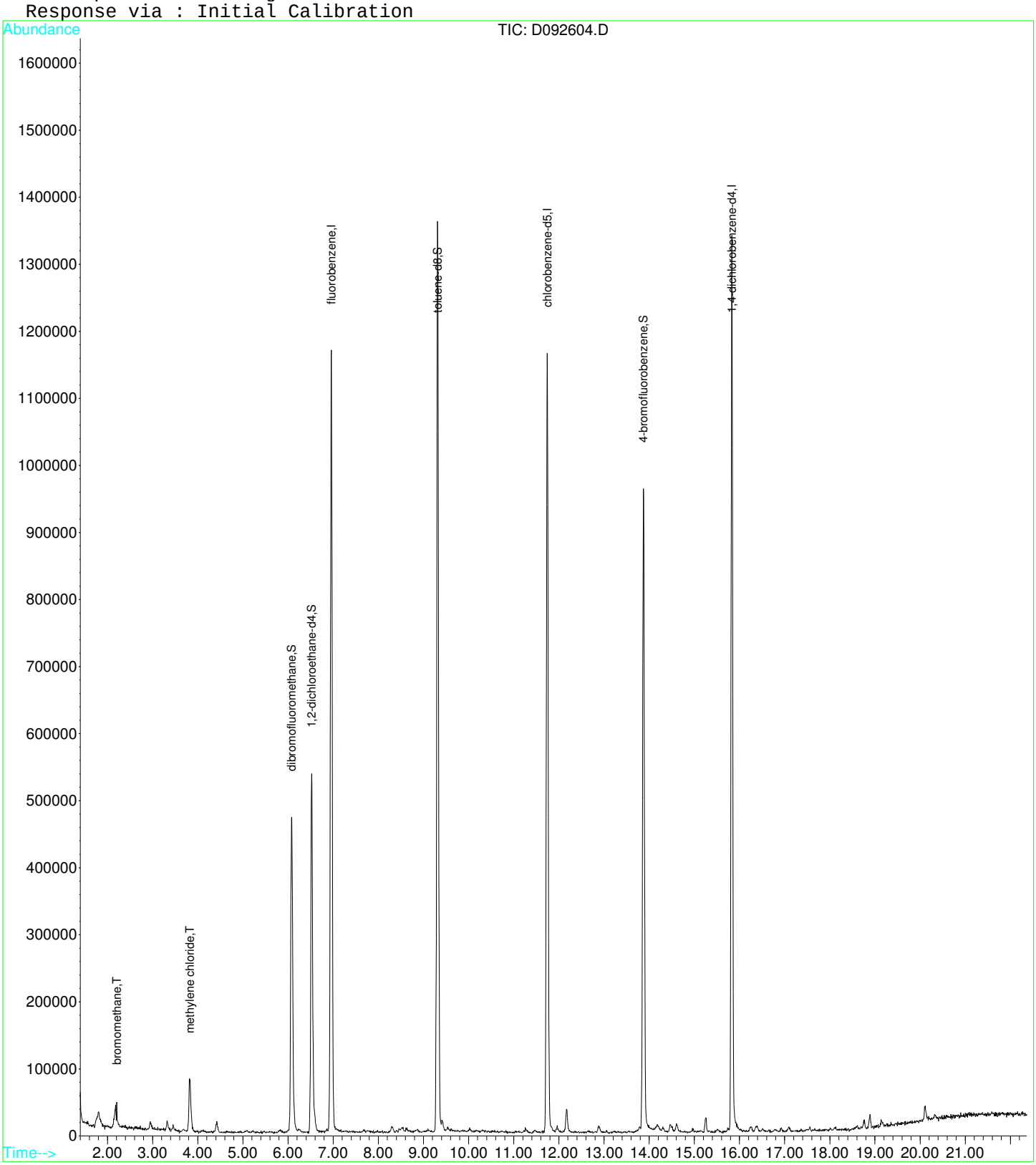


Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092603.D Vial: 3
Acq On : 26 Sep 2008 7:05 am Operator: NLT
Sample : ,MBLK,MB-W-092608,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 7:55 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

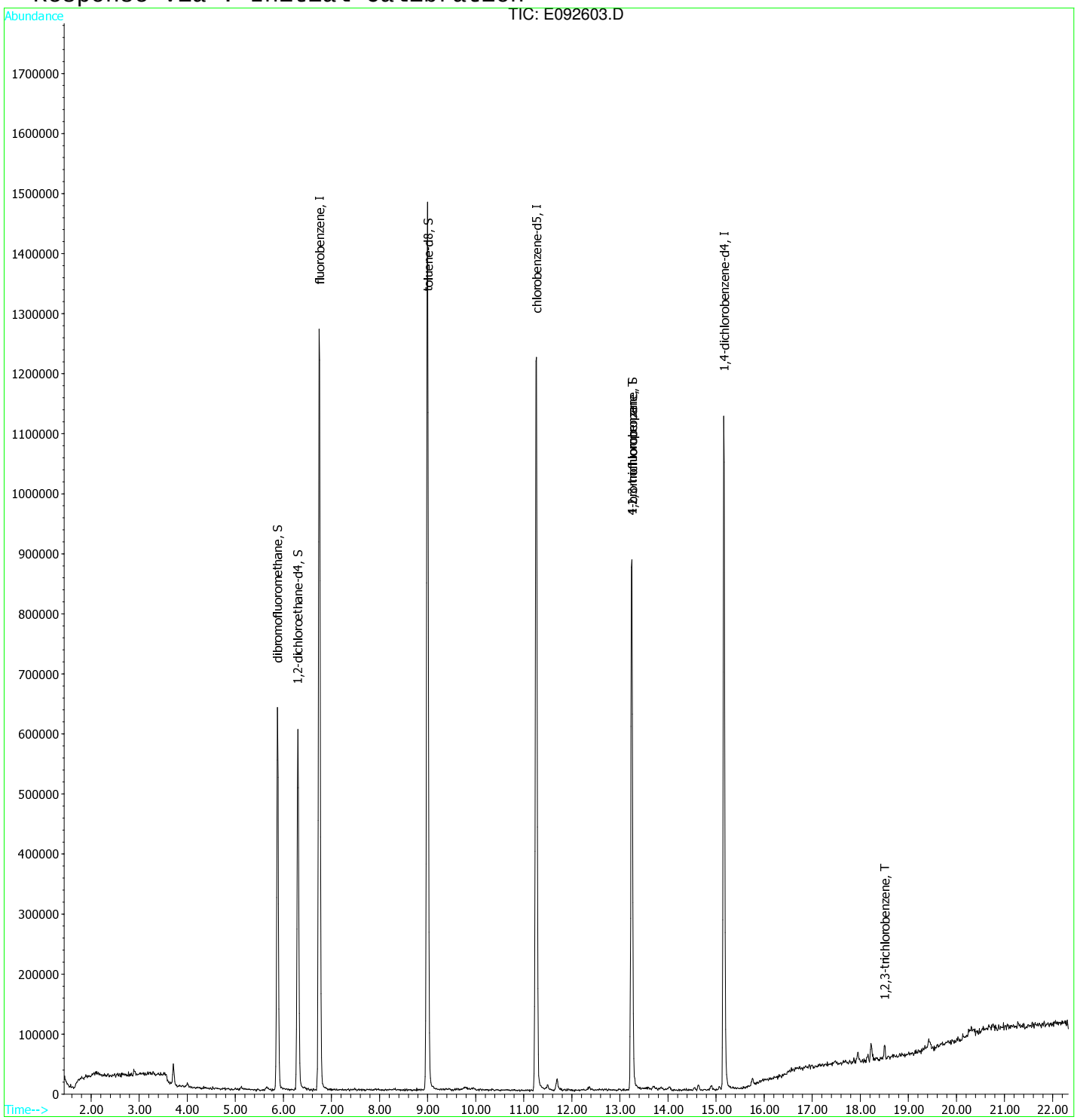
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.74	96	1632994	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.26	117	1150685	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	444728	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	515392	49.41 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.30	65	498637	49.94 ug/L	-0.02
44) toluene-d8	9.00	98	1414296	51.61 ug/L	0.00
63) 4-bromofluorobenzene	13.24	95	508684	48.81 ug/L	-0.02
Target Compounds					Qvalue
64) 1,2,3-trichloropropane	13.24	75	198667	22.67 ug/L #	49
84) 1,2,3-trichlorobenzene	18.52	180	10321	2.48 ug/L	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092603.D Vial: 3
Acq On : 26 Sep 2008 7:05 am Operator: NLT
Sample : ,MBLK,MB-W-092608,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 7:55 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



LABORATORY CONTROL SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092504.D Vial: 4
Acq On : 25 Sep 2008 8:57 am Operator: MT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 9:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1845194	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.38	117	1372490	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.19	152	648986	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	770801	54.32 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	623478	47.15 ug/L	0.00
44) toluene-d8	9.14	98	1683267	51.53 ug/L	-0.01
63) 4-bromofluorobenzene	13.35	95	714660	49.66 ug/L	-0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	307643	16.87 ug/L	87
3) chloromethane	1.88	50	420198	28.15 ug/L	95
5) vinyl chloride	1.98	62	202613	16.70 ug/L	92
6) bromomethane	2.34	94	32462	15.86 ug/L	91
7) chloroethane	2.46	64	80351	27.92 ug/L	90
8) trichlorofluoromethane	2.74	101	263266	21.82 ug/L	92
9) acrolein	3.30	56	13969	35.28 ug/L #	70
10) 1,1-dichloroethene	3.35	96	91231	17.32 ug/L	93
11) acetone	3.49	43	43031	18.89 ug/L	97
12) carbon disulfide	3.58	76	279602	14.24 ug/L	97
13) methylene chloride	3.97	84	486908	27.30 ug/L	98
14) acrylonitrile	4.31	53	69833	15.17 ug/L	85
15) trans-1,2-dichloroethene	4.25	96	222375	20.54 ug/L	98
16) methyl-t-butyl ether	4.24	73	493250	18.44 ug/L	92
19) 1,1-dichloroethane	4.78	63	449777	22.17 ug/L	96
20) vinyl acetate	4.85	43	350444	22.95 ug/L	98
21) cis-1,2-dichloroethene	5.50	96	248168	20.61 ug/L #	82
22) 2,2-dichloropropane	5.45	77	345999	21.31 ug/L	96
23) 2-butanone	5.56	72	16451	14.89 ug/L	77
25) chloroform	5.92	83	500792	22.71 ug/L	92
27) 1,1,1-trichloroethane	6.08	97	344323	21.37 ug/L	97
29) carbon tetrachloride	6.27	117	296255	21.02 ug/L	87
31) benzene	6.57	78	814590	20.88 ug/L	97
32) 1,1-dichloropropene	6.29	75	323566	21.02 ug/L #	93
33) 1,2-dichloroethane	6.65	62	328693	20.30 ug/L	93
34) trichloroethene	7.43	95	237543	22.33 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092504.D Vial: 4
Acq On : 25 Sep 2008 8:57 am Operator: MT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 9:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,2-dichloropropane	7.77	63	239385	21.08 ug/L	90
38) dibromomethane	7.95	93	187236	20.67 ug/L	97
39) bromodichloromethane	8.19	83	359080	19.84 ug/L	92
40) 2-chloroethyl vinyl ether	8.61	63	26180	5.93 ug/L #	94
42) cis-1,3-dichloropropene	8.80	75	394282	20.90 ug/L	90
43) 4-methyl-2-pentanone	9.04	43	194646	15.73 ug/L	96
45) toluene	9.23	92	496217	23.27 ug/L #	85
46) 1,1,2-trichloroethane	9.93	83	182629	20.56 ug/L	93
47) 1,3-dichloropropane	10.18	76	358600	20.92 ug/L	91
48) tetrachloroethene	10.04	164	170475	24.36 ug/L	94
49) trans-1,3-dichloropropene	9.66	75	347208	21.31 ug/L	93
50) 2-hexanone	10.31	43	124571	15.29 ug/L	94
51) dibromochloromethane	10.53	129	288384	20.74 ug/L	95
52) 1,2-dibromoethane	10.68	107	266277	22.08 ug/L #	91
53) chlorobenzene	11.43	112	609186	23.77 ug/L	92
54) 1,1,1,2-tetrachloroethane	11.58	131	208975	21.42 ug/L	87
55) ethylbenzene	11.59	91	994410	23.54 ug/L	99
56) m,p-xylene	11.77	106	668758	46.48 ug/L	97
58) o-xylene	12.43	106	327555	23.51 ug/L	96
59) styrene	12.48	104	574428	22.16 ug/L	96
60) isopropylbenzene	13.04	105	873935	26.07 ug/L	99
61) bromobenzene	13.59	156	243476	22.76 ug/L	88
62) bromoform	12.85	173	186991	22.07 ug/L	94
64) 1,2,3-trichloropropane	13.73	75	212762	20.55 ug/L	96
65) n-propylbenzene	13.74	91	1141085	22.71 ug/L	98
66) 2-chlorotoluene	13.90	91	695585	22.82 ug/L	98
67) 4-chlorotoluene	14.09	91	772469	22.62 ug/L	97
68) 1,3,5-trimethylbenzene	14.06	105	692864	22.98 ug/L	95
70) 1,1,2,2-tetrachloroethane	13.69	83	301979	19.34 ug/L	95
71) tert-butylbenzene	14.56	119	537876	20.86 ug/L	90
72) sec-butylbenzene	14.90	105	835370	19.31 ug/L	96
73) 1,2,4-trimethylbenzene	14.65	105	675542	20.76 ug/L	96
74) 1,3-dichlorobenzene	15.09	146	422237	22.20 ug/L	94
75) p-isopropyltoluene	15.12	119	683085	21.83 ug/L	94
77) 1,4-dichlorobenzene	15.23	146	431103	22.69 ug/L	99
78) 1,2-dichlorobenzene	15.76	146	400956	22.40 ug/L	96
79) n-butylbenzene	15.72	91	668572	18.48 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092504.D Vial: 4
Acq On : 25 Sep 2008 8:57 am Operator: MT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 9:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

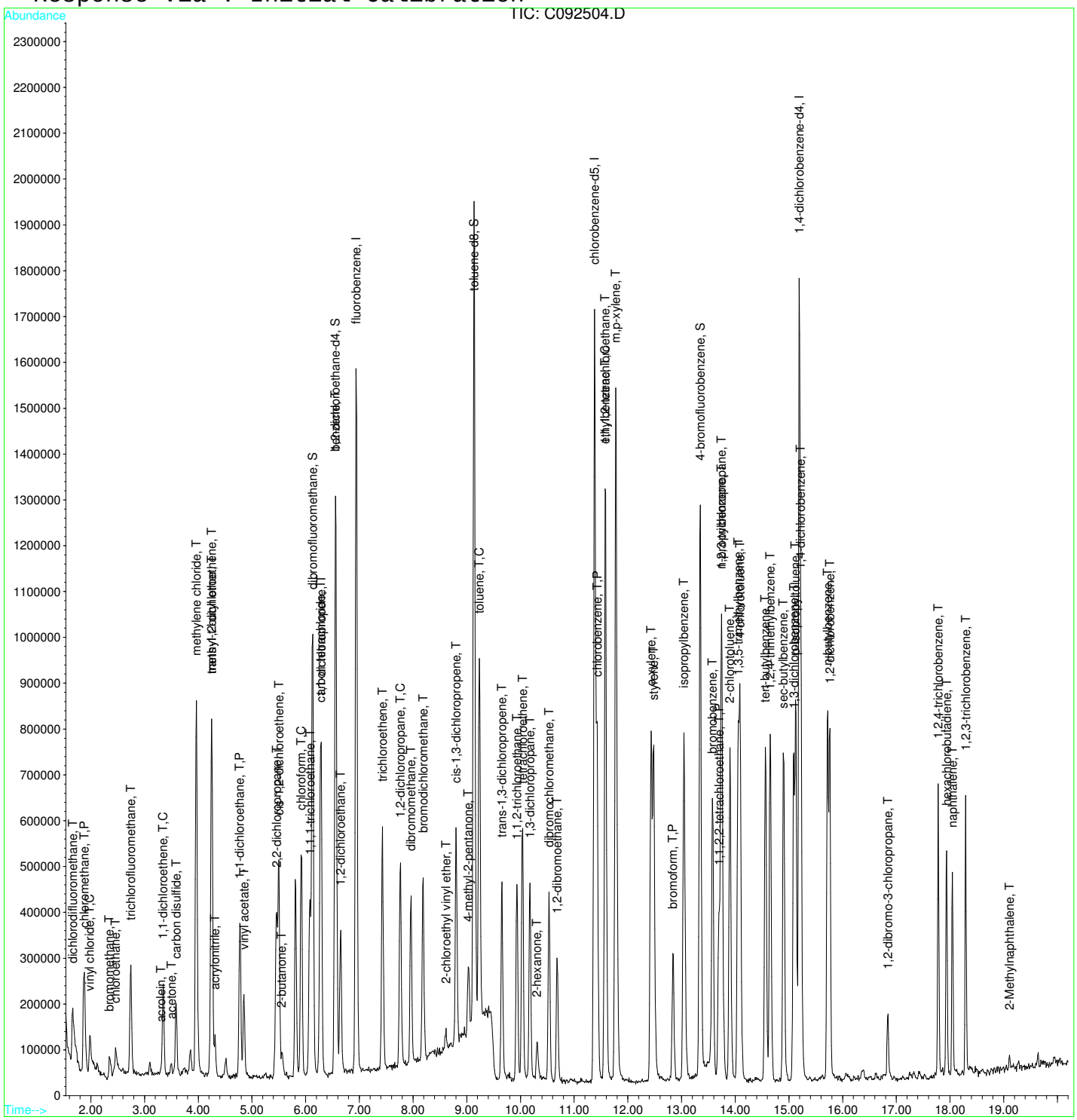
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
80) 1,2-dibromo-3-chloropropan	16.84	75	46862	17.03 ug/L	86
81) 1,2,4-trichlorobenzene	17.78	180	199401	17.57 ug/L	93
82) hexachlorobutadiene	17.94	225	87812	16.86 ug/L	91
83) naphthalene	18.05	128	370553	13.48 ug/L	100
84) 1,2,3-trichlorobenzene	18.29	180	179478	16.91 ug/L	98
85) 2-Methylnaphthalene	19.11	142	15492	1.89 ug/L #	72

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092504.D Vial: 4
Acq On : 25 Sep 2008 8:57 am Operator: MT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 9:24 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092604.D Vial: 4
Acq On : 26 Sep 2008 7:57 am Operator: NLT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 8:18 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1724555	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1337852	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.19	152	611417	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	733675	55.32 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	616138	49.86 ug/L	0.00
44) toluene-d8	9.14	98	1610337	50.58 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	715040	50.98 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	287028	16.84 ug/L	93
3) chloromethane	1.88	50	411605	29.50 ug/L	96
5) vinyl chloride	1.99	62	207317	18.29 ug/L	91
6) bromomethane	2.35	94	33807	17.67 ug/L	87
7) chloroethane	2.47	64	71403	26.55 ug/L	97
8) trichlorofluoromethane	2.75	101	274224	24.32 ug/L	96
9) acrolein	3.31	56	18609	50.28 ug/L #	68
10) 1,1-dichloroethene	3.36	96	69897	14.20 ug/L #	85
11) acetone	3.50	43	48278	22.67 ug/L	96
12) carbon disulfide	3.59	76	318018	17.33 ug/L	96
13) methylene chloride	3.97	84	538677	32.32 ug/L	91
14) acrylonitrile	4.31	53	88593	20.59 ug/L	99
15) trans-1,2-dichloroethene	4.25	96	180836	17.87 ug/L	91
16) methyl-t-butyl ether	4.24	73	556088	22.24 ug/L	92
17) acetonitrile	3.86	41	45254	22.77 ug/L #	73
19) 1,1-dichloroethane	4.78	63	394934	20.82 ug/L	96
20) vinyl acetate	4.85	43	537359	37.65 ug/L	99
21) cis-1,2-dichloroethene	5.50	96	223739	19.88 ug/L	95
22) 2,2-dichloropropane	5.46	77	317276	20.91 ug/L	97
23) 2-butanone	5.57	72	22100	21.40 ug/L #	48
25) chloroform	5.92	83	441278	21.41 ug/L	99
27) 1,1,1-trichloroethane	6.08	97	288535	19.16 ug/L	97
29) carbon tetrachloride	6.27	117	261312	19.84 ug/L	99
31) benzene	6.57	78	724134	19.86 ug/L	97
32) 1,1-dichloropropene	6.29	75	263815	18.34 ug/L	93
33) 1,2-dichloroethane	6.66	62	309212	20.44 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092604.D Vial: 4
Acq On : 26 Sep 2008 7:57 am Operator: NLT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 8:18 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) trichloroethene	7.43	95	192889	19.40 ug/L #	86
36) 1,2-dichloropropane	7.77	63	211347	19.92 ug/L	98
37) methyl methacrylate	7.76	41	111990	12.64 ug/L #	49
38) dibromomethane	7.97	93	170362	20.12 ug/L	95
39) bromodichloromethane	8.19	83	324324	19.17 ug/L	90
40) 2-chloroethyl vinyl ether	8.61	63	21664	5.25 ug/L #	93
42) cis-1,3-dichloropropene	8.81	75	341869	18.59 ug/L	88
43) 4-methyl-2-pentanone	9.04	43	252137	20.90 ug/L #	95
45) toluene	9.25	92	406485	19.56 ug/L	88
46) 1,1,2-trichloroethane	9.93	83	168705	19.48 ug/L	91
47) 1,3-dichloropropane	10.18	76	325475	19.48 ug/L	95
48) tetrachloroethene	10.04	164	142502	20.89 ug/L	99
49) trans-1,3-dichloropropene	9.66	75	304779	19.19 ug/L	94
50) 2-hexanone	10.32	43	137599	17.33 ug/L	76
51) dibromochloromethane	10.54	129	257359	18.98 ug/L	96
52) 1,2-dibromoethane	10.68	107	238482	20.29 ug/L	83
53) chlorobenzene	11.43	112	538436	21.55 ug/L	92
54) 1,1,1,2-tetrachloroethane	11.59	131	211867	22.28 ug/L	97
55) ethylbenzene	11.59	91	871112	21.15 ug/L	98
56) m,p-xylene	11.79	106	600896	42.84 ug/L	96
58) o-xylene	12.44	106	293056	21.57 ug/L	96
59) styrene	12.48	104	518337	20.51 ug/L	94
60) isopropylbenzene	13.06	105	731875	22.40 ug/L	100
61) bromobenzene	13.59	156	220757	21.17 ug/L	88
62) bromoform	12.85	173	170721	20.67 ug/L	93
64) 1,2,3-trichloropropane	13.74	75	197270	19.55 ug/L	91
65) n-propylbenzene	13.76	91	963914	19.68 ug/L	98
66) 2-chlorotoluene	13.90	91	623093	20.97 ug/L	100
67) 4-chlorotoluene	13.90	91	623093	18.72 ug/L	95
68) 1,3,5-trimethylbenzene	14.06	105	583080	19.84 ug/L	99
70) 1,1,2,2-tetrachloroethane	13.70	83	291389	19.80 ug/L	93
71) tert-butylbenzene	14.57	119	421309	17.34 ug/L	93
72) sec-butylbenzene	14.91	105	632791	15.52 ug/L	99
73) 1,2,4-trimethylbenzene	14.66	105	567561	18.51 ug/L	89
74) 1,3-dichlorobenzene	15.09	146	373673	20.86 ug/L	94
75) p-isopropyltoluene	15.13	119	498472	16.91 ug/L	97
77) 1,4-dichlorobenzene	15.23	146	376073	21.01 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092604.D Vial: 4
Acq On : 26 Sep 2008 7:57 am Operator: NLT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 8:18 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

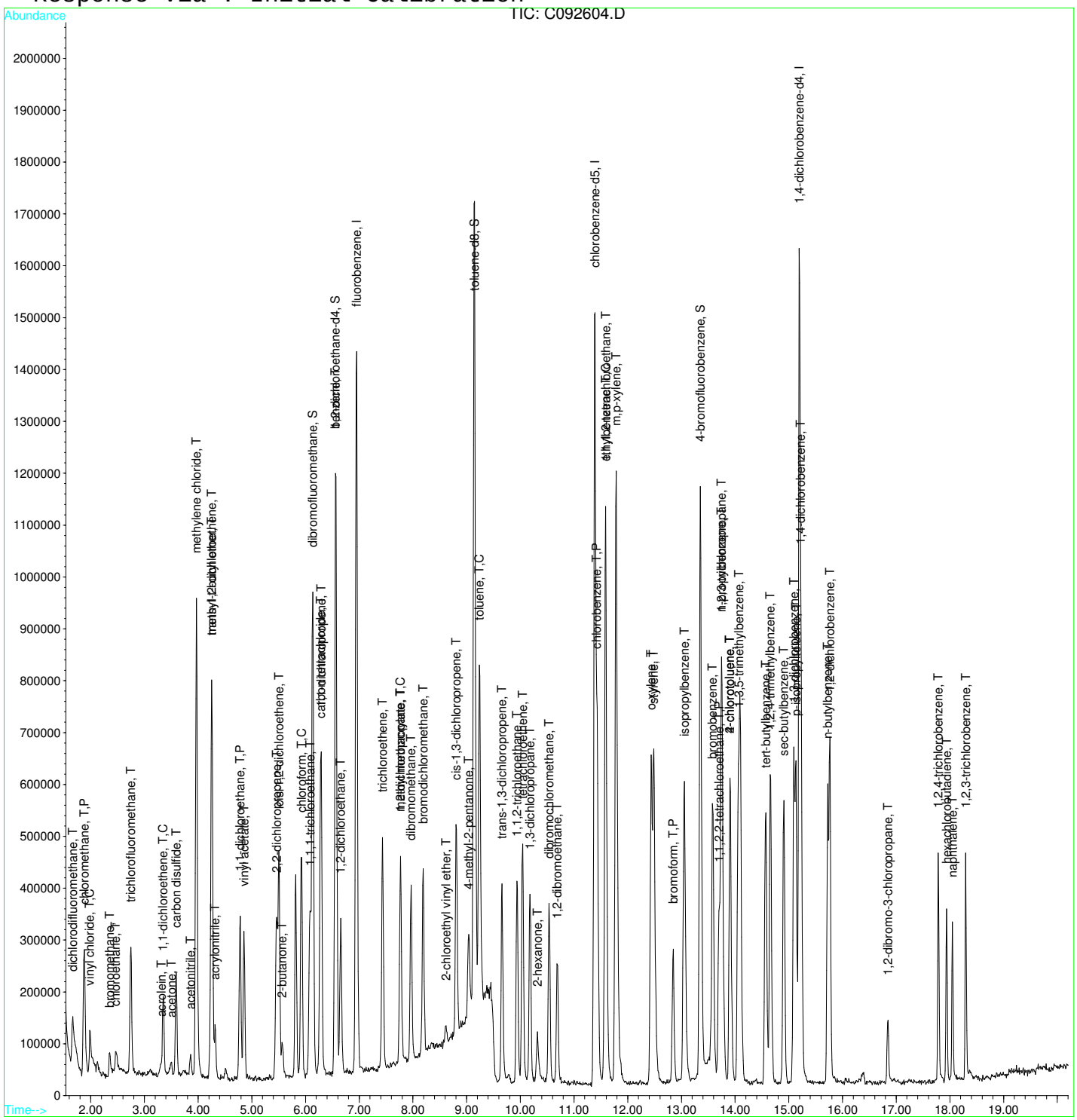
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) 1,2-dichlorobenzene	15.76	146	358639	21.26 ug/L	99
79) n-butylbenzene	15.72	91	452793	13.29 ug/L	97
80) 1,2-dibromo-3-chloropropan	16.84	75	42947	16.57 ug/L	91
81) 1,2,4-trichlorobenzene	17.78	180	142530	13.33 ug/L	96
82) hexachlorobutadiene	17.94	225	56691	11.55 ug/L	84
83) naphthalene	18.05	128	245836	9.49 ug/L	100
84) 1,2,3-trichlorobenzene	18.29	180	128762	12.88 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092604.D Vial: 4
Acq On : 26 Sep 2008 7:57 am Operator: NLT
Sample : ,LCS,LCS 20PPB,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 8:18 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092605.D Vial: 5
Acq On : 26 Sep 2008 8:49 am Operator: BR
Sample : ,LCS,LCS-20 PPB,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 19:31 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1367629	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	971112	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.83	152	473740	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	412920	53.57 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.53	65	513660	48.72 ug/L	-0.02
44) toluene-d8	9.31	98	1246702	49.50 ug/L	-0.02
63) 4-bromofluorobenzene	13.87	95	554908	49.34 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.57	85	185049	17.37 ug/L	96
3) chloromethane	1.85	50	247596	40.01 ug/L	89
4) vinyl chloride	1.87	62	235245	23.27 ug/L	90
6) bromomethane	2.22	94	63358	22.99 ug/L	85
7) chloroethane	2.33	64	151411	28.23 ug/L	86
8) trichlorofluoromethane	2.61	101	297958	23.36 ug/L	99
9) acrolein	3.14	56	45003	70.50 ug/L	86
10) 1,1-dichloroethene	3.20	96	120746	19.36 ug/L	97
11) acetone	3.32	43	111398	23.91 ug/L	90
12) carbon disulfide	3.47	76	522111m3	21.64 ug/L	
13) methylene chloride	3.82	84	213799	22.37 ug/L	92
14) acrylonitrile	4.15	53	90907	29.10 ug/L	89
15) trans-1,2-dichloroethene	4.13	96	151860	21.95 ug/L	96
16) methyl-t-butyl ether	4.11	73	547427	25.24 ug/L	93
17) acetonitrile	3.68	41	41082	29.66 ug/L #	81
19) 1,1-dichloroethane	4.66	63	311548	22.18 ug/L	98
20) vinyl acetate	4.72	43	423091	41.11 ug/L	99
21) cis-1,2-dichloroethene	5.41	96	165343	21.70 ug/L	96
22) 2,2-dichloropropane	5.39	77	215718	19.84 ug/L	100
23) 2-butanone	5.46	72	23719	26.04 ug/L #	55
25) chloroform	5.87	83	307861	23.42 ug/L	95
27) 1,1,1-trichloroethane	6.04	97	245870	22.19 ug/L	95
29) carbon tetrachloride	6.26	117	175394	21.24 ug/L	98
31) benzene	6.56	78	592703	21.60 ug/L	98
32) 1,1-dichloropropene	6.27	75	234101	21.90 ug/L	98
33) 1,2-dichloroethane	6.63	62	267147	20.67 ug/L	95
34) trichloroethene	7.48	95	158703	22.11 ug/L	99
36) 1,2-dichloropropane	7.83	63	168010	22.03 ug/L	99
38) dibromomethane	8.03	93	107396	22.87 ug/L	94
39) bromodichloromethane	8.28	83	222191	21.29 ug/L	94
40) 2-chloroethyl vinyl ether	8.73	63	58447	13.21 ug/L	98
42) cis-1,3-dichloropropene	8.94	75	247408	20.47 ug/L	98
43) 4-methyl-2-pentanone	9.17	43	242372	22.92 ug/L	98
45) toluene	9.42	92	386941	21.98 ug/L	98
46) 1,1,2-trichloroethane	10.17	83	115599	21.39 ug/L	93
47) 1,3-dichloropropane	10.43	76	256784	20.55 ug/L	99
48) tetrachloroethene	10.29	164	123749	23.14 ug/L	92
49) trans-1,3-dichloropropene	9.86	75	194133	20.03 ug/L	99
50) 2-hexanone	10.56	43	163985	21.91 ug/L	98
51) dibromochloromethane	10.82	129	153698	21.24 ug/L	90
52) 1,2-dibromoethane	10.98	107	146281	20.83 ug/L	99
53) chlorobenzene	11.79	112	393114	21.56 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.96	131	140183	21.51 ug/L	97
55) ethylbenzene	11.96	91	723090	21.45 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092605.D Vial: 5
Acq On : 26 Sep 2008 8:49 am Operator: BR
Sample : ,LCS,LCS-20 PPB,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 19:31 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
56)	m,p-xylene	12.16	106	545077	44.56	ug/L		98
58)	o-xylene	12.88	106	257342	21.78	ug/L	#	84
59)	styrene	12.93	104	429900	20.60	ug/L		95
60)	isopropylbenzene	13.55	105	683736	24.02	ug/L		100
61)	bromobenzene	14.13	156	163391	22.82	ug/L		96
62)	bromoform	13.32	173	105597	22.61	ug/L		94
64)	1,2,3-trichloropropane	14.28	75	154109	19.55	ug/L		97
65)	n-propylbenzene	14.30	91	856296	21.67	ug/L		100
66)	2-chlorotoluene	14.47	91	505084	20.71	ug/L		99
67)	4-chlorotoluene	14.66	91	584707	20.91	ug/L		99
68)	1,3,5-trimethylbenzene	14.62	105	560690	21.18	ug/L		99
70)	1,1,2,2-tetrachloroethane	14.23	83	185814	20.10	ug/L		95
71)	tert-butylbenzene	15.16	119	481136	21.31	ug/L		99
72)	sec-butylbenzene	15.51	105	709306	19.57	ug/L		98
73)	1,2,4-trimethylbenzene	15.25	105	581350	20.52	ug/L		97
74)	1,3-dichlorobenzene	15.72	146	298110	21.90	ug/L		97
75)	p-isopropyltoluene	15.75	119	615996	21.80	ug/L		98
77)	1,4-dichlorobenzene	15.87	146	298415	21.27	ug/L		98
78)	1,2-dichlorobenzene	16.44	146	283718	21.75	ug/L		98
79)	n-butylbenzene	16.39	91	608403	20.38	ug/L		97
80)	1,2-dibromo-3-chloropropan	17.60	75	39271	18.99	ug/L		93
81)	1,2,4-trichlorobenzene	18.60	180	230331	21.54	ug/L		95
82)	hexachlorobutadiene	18.76	225	113282	18.22	ug/L		90
83)	naphthalene	18.89	128	453098	18.67	ug/L		100
84)	1,2,3-trichlorobenzene	19.15	180	213188	21.27	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

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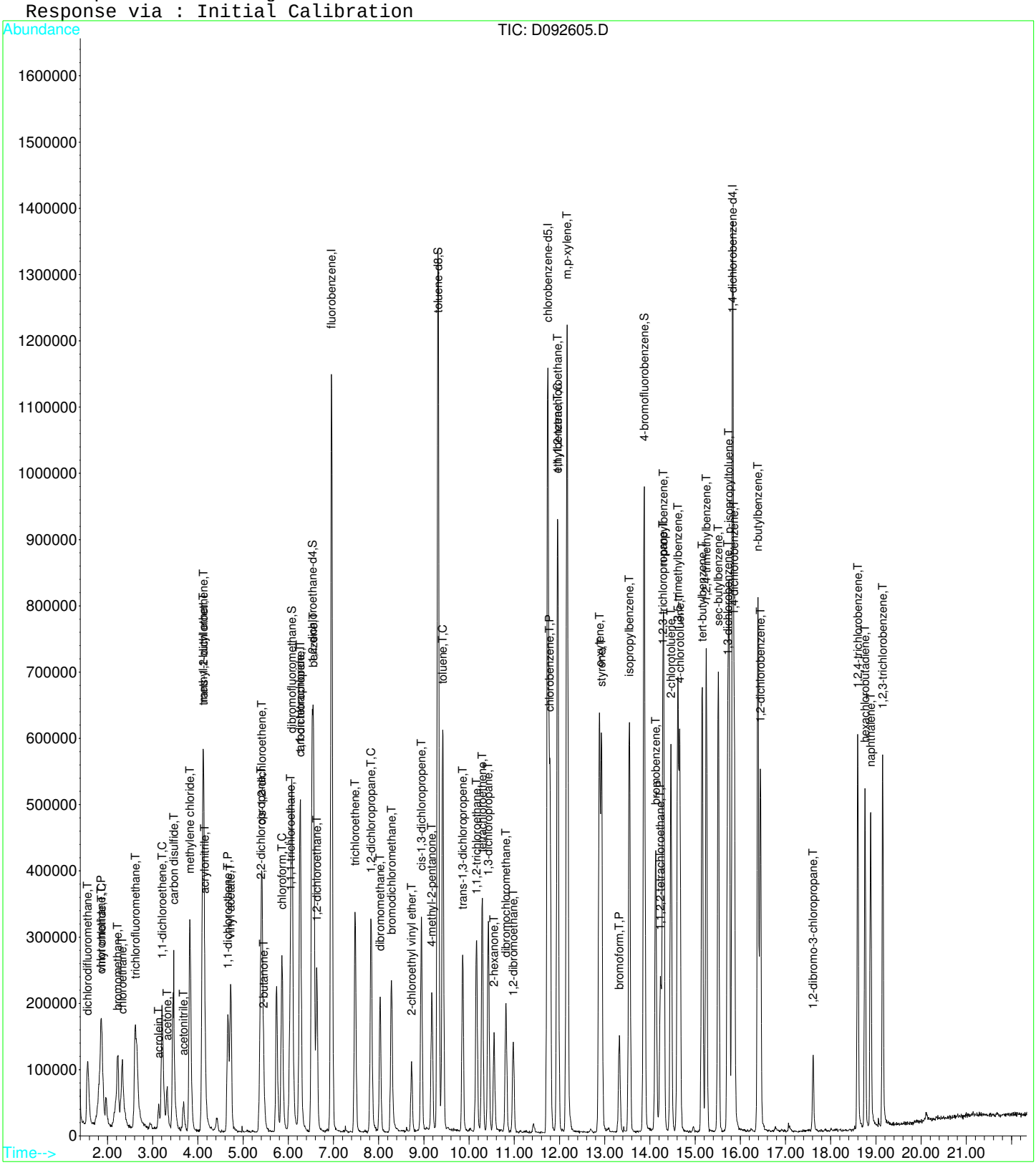
Data File : C:\HPCHEM\1\DATA\D092608\D092605.D          Vial: 5
Acq On    : 26 Sep 2008   8:49 am                    Operator: BR
Sample    : ,LCS,LCS-20 PPB,1,                       Inst    : VOA 4
Misc      : 8260+_W                                  Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 19:31 2008              Quant Results File: VOA0818.RES

Method       : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title        : VOA ICAL 08/18/08
Last Update  : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
```



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1462968	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.25	117	1050538	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.16	152	446260	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	481082	51.48 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.29	65	462467	51.70 ug/L	-0.03
44) toluene-d8	8.99	98	1293017	51.69 ug/L	-0.02
63) 4-bromofluorobenzene	13.24	95	487031	51.19 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	107637	24.48 ug/L	93
3) chloromethane	1.68	50	172259	23.90 ug/L	98
4) vinyl chloride	1.78	62	132780	19.53 ug/L	97
6) bromomethane	2.14	94	47656	22.53 ug/L	99
7) chloroethane	2.26	64	75743	22.89 ug/L	92
8) trichlorofluoromethane	2.55	101	145255	24.47 ug/L	94
9) acrolein	3.02	56	30116	47.21 ug/L	96
10) 1,1-dichloroethene	3.13	96	70850	21.16 ug/L #	84
11) acetone	3.20	43	93627	29.29 ug/L	98
12) carbon disulfide	3.38	76	217823	21.84 ug/L	98
13) methylene chloride	3.70	84	192164	24.19 ug/L	95
14) acrylonitrile	3.99	53	86741	18.42 ug/L	94
15) trans-1,2-dichloroethene	4.03	96	121404	20.60 ug/L	93
16) methyl-t-butyl ether	4.04	73	391010	19.35 ug/L	96
19) 1,1-dichloroethane	4.53	63	248641	20.12 ug/L	95
20) vinyl acetate	4.61	43	385218	31.92 ug/L	99
21) cis-1,2-dichloroethene	5.26	96	145401	19.13 ug/L #	88
22) 2,2-dichloropropane	5.24	77	161383	20.48 ug/L	99
23) 2-butanone	5.28	72	22633	19.67 ug/L	76
25) chloroform	5.67	83	231099	20.30 ug/L	94
27) 1,1,1-trichloroethane	5.89	97	163881	21.77 ug/L	99
29) carbon tetrachloride	6.12	117	152709	22.58 ug/L	87
31) benzene	6.37	78	495460	19.35 ug/L	96
32) 1,1-dichloropropene	6.11	75	151265	18.76 ug/L #	92
33) 1,2-dichloroethane	6.40	62	216346	20.93 ug/L	95
34) trichloroethene	7.26	95	124703	19.93 ug/L #	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,2-dichloropropane	7.55	63	139396	16.95 ug/L	99
37) methyl methacrylate	7.55	41	85651	9.11 ug/L #	35
38) dibromomethane	7.73	93	111724	20.08 ug/L	99
39) bromodichloromethane	7.97	83	181599	18.68 ug/L	100
40) 2-chloroethyl vinyl ether	8.40	63	63401	36.86 ug/L	99
42) cis-1,3-dichloropropene	8.61	75	214711	18.04 ug/L	98
43) 4-methyl-2-pentanone	8.83	43	191325	17.29 ug/L	94
45) toluene	9.09	92	289804	20.13 ug/L	97
46) 1,1,2-trichloroethane	9.73	83	116384	19.03 ug/L	93
47) 1,3-dichloropropane	9.97	76	237436	19.01 ug/L	95
48) tetrachloroethene	9.94	164	92188	21.22 ug/L	96
49) trans-1,3-dichloropropene	9.45	75	197191	19.66 ug/L	99
50) 2-hexanone	10.12	43	120718	15.86 ug/L	93
51) dibromochloromethane	10.34	129	160286	18.39 ug/L	99
52) 1,2-dibromoethane	10.50	107	173013	19.92 ug/L	96
53) chlorobenzene	11.30	112	350097	20.27 ug/L	95
54) 1,1,1,2-tetrachloroethane	11.44	131	120969	18.25 ug/L	92
55) ethylbenzene	11.49	91	505335	20.25 ug/L	94
56) m,p-xylene	11.69	106	406683	41.17 ug/L	97
58) o-xylene	12.35	106	200815	20.32 ug/L	97
59) styrene	12.38	104	330870	18.31 ug/L	99
60) isopropylbenzene	12.98	105	445565	22.14 ug/L	96
61) bromobenzene	13.48	156	143024	19.45 ug/L	98
62) bromoform	12.68	173	112855	19.13 ug/L	99
64) 1,2,3-trichloropropane	13.57	75	150636	18.83 ug/L	93
65) n-propylbenzene	13.70	91	507203	19.69 ug/L	99
66) 2-chlorotoluene	13.82	91	330024	19.98 ug/L	89
67) 4-chlorotoluene	14.02	91	375443	20.57 ug/L	93
68) 1,3,5-trimethylbenzene	14.01	105	358571	20.53 ug/L	90
70) 1,1,2,2-tetrachloroethane	13.53	83	197368	18.93 ug/L	97
71) tert-butylbenzene	14.54	119	269446	18.92 ug/L	95
72) sec-butylbenzene	14.90	105	381443	18.94 ug/L	99
73) 1,2,4-trimethylbenzene	14.63	105	374786	20.26 ug/L	98
74) 1,3-dichlorobenzene	15.05	146	210535	19.04 ug/L	96
75) p-isopropyltoluene	15.13	119	335770	20.57 ug/L	99
77) 1,4-dichlorobenzene	15.20	146	218681	19.14 ug/L	96
78) 1,2-dichlorobenzene	15.75	146	221022	20.58 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

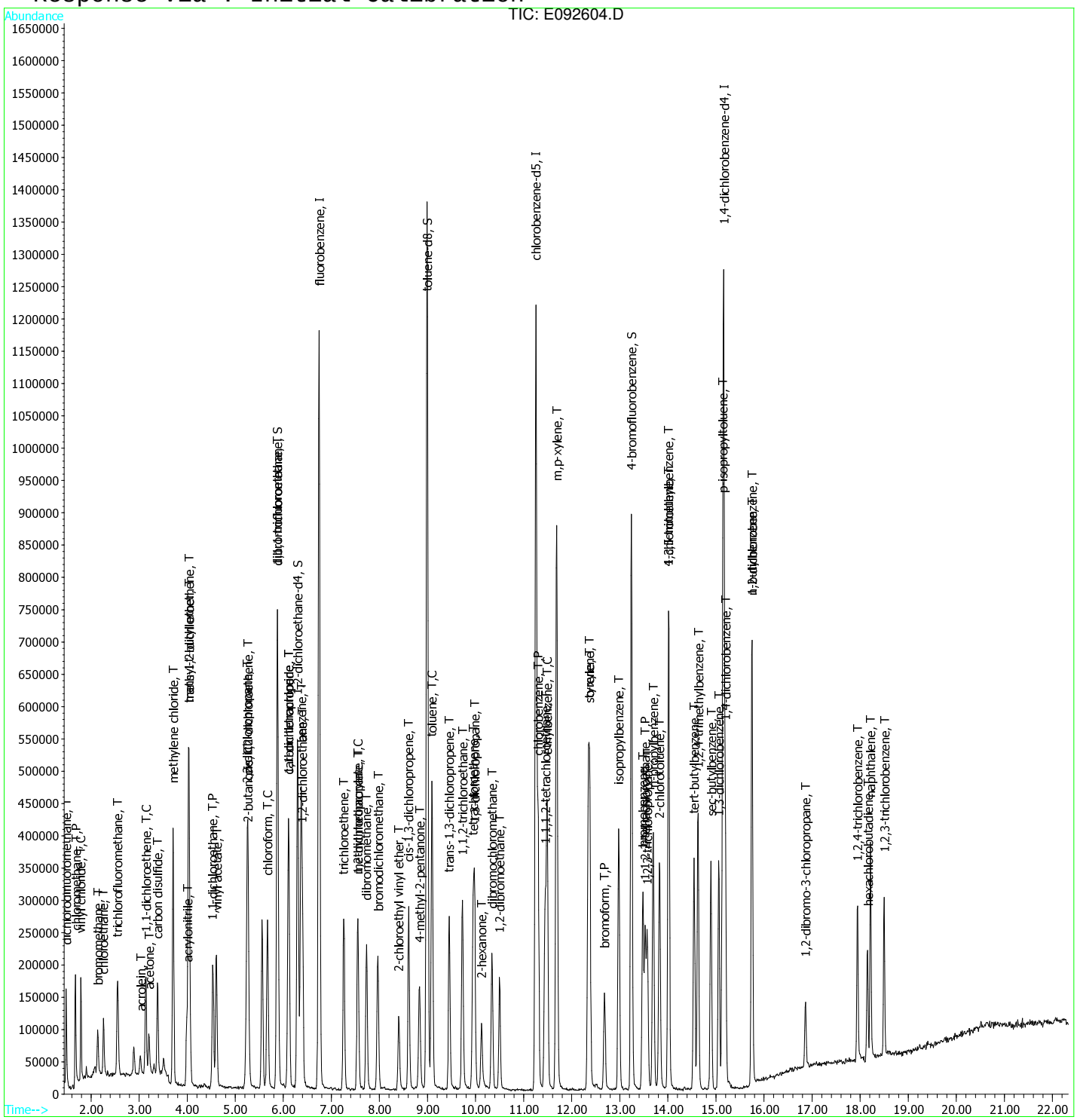
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	n-butylbenzene	15.75	91	277410	20.44 ug/L	92
80)	1,2-dibromo-3-chloropropan	16.85	75	31350	22.19 ug/L #	79
81)	1,2,4-trichlorobenzene	17.95	180	100150	21.51 ug/L	96
82)	hexachlorobutadiene	18.15	225	41374	21.02 ug/L	99
83)	naphthalene	18.21	128	295279	20.38 ug/L	100
84)	1,2,3-trichlorobenzene	18.50	180	95000	22.79 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



MATRIX SPIKE/MATRIX SPIKE DUPLICATE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092506.D Vial: 6
Acq On : 25 Sep 2008 10:19 am Operator: MT
Sample : ,SAMP,ME0809988-01A,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 10:43 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

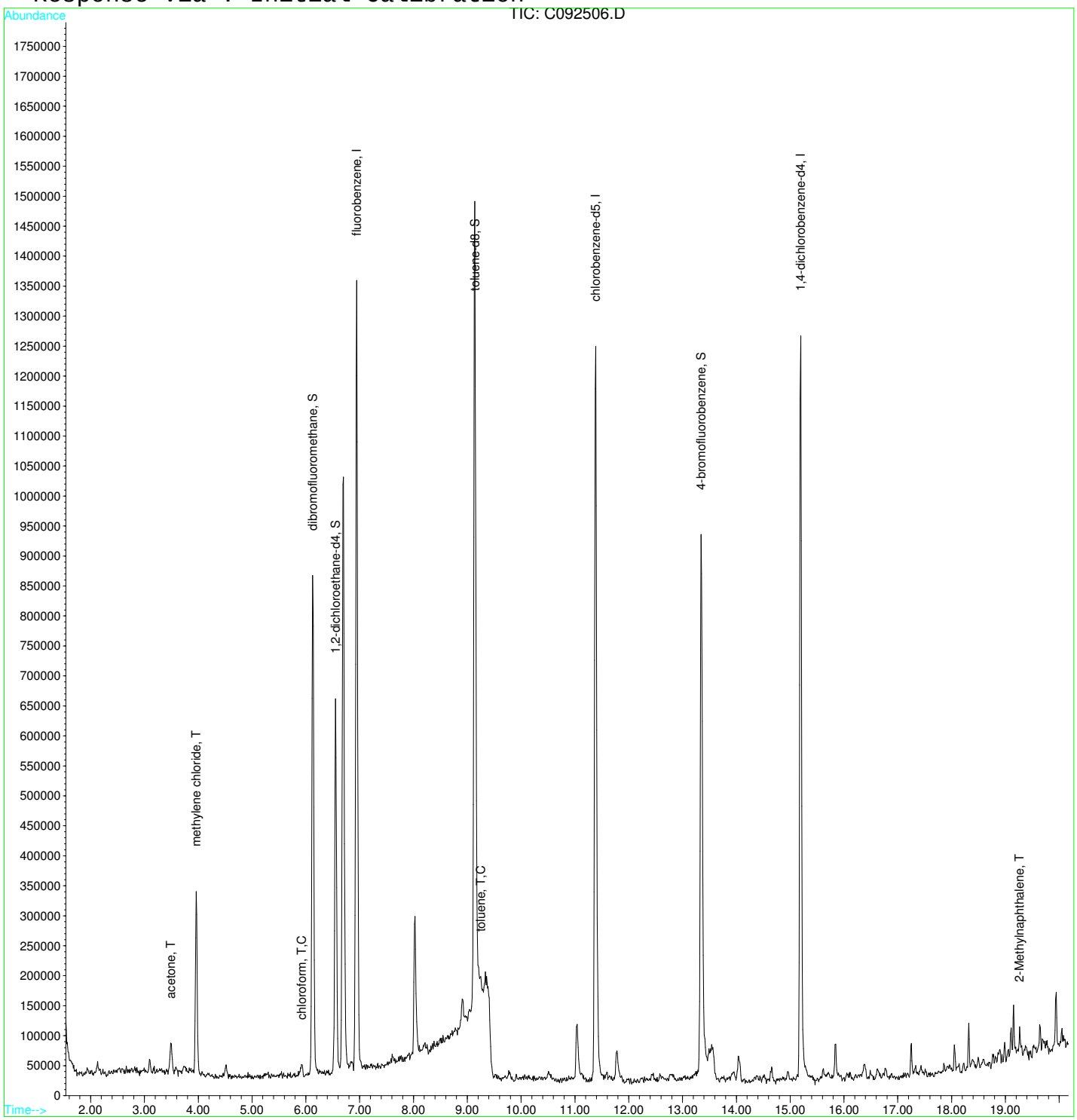
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1629905	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1140552	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	501134	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	649472	51.82 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.55	65	524978	44.95 ug/L	0.00
44) toluene-d8	9.14	98	1418203	52.25 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	602172	50.36 ug/L	-0.02
Target Compounds					Qvalue
11) acetone	3.50	43	87865	43.66 ug/L	75
13) methylene chloride	3.96	84	165577	10.51 ug/L	99
25) chloroform	5.92	83	14305	0.73 ug/L	92
45) toluene	9.25	92	14452	0.82 ug/L #	69
85) 2-Methylnaphthalene	19.26	142	18403	2.91 ug/L	81

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092506.D Vial: 6
Acq On : 25 Sep 2008 10:19 am Operator: MT
Sample : ,SAMP,ME0809988-01A,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 10:43 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092509.D Vial: 9
Acq On : 25 Sep 2008 11:49 am Operator: MT
Sample : ,MS,ME0809988-01AMS,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:58 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1495604	50.00 ug/L	0.00
41) chlorobenzene-d5	11.38	117	1144578	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.19	152	523117	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	629150	54.70 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	560166	52.27 ug/L	0.00
44) toluene-d8	9.14	98	1395052	51.21 ug/L	-0.01
63) 4-bromofluorobenzene	13.35	95	612826	51.07 ug/L	-0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.65	85	240218	16.25 ug/L	96
3) chloromethane	1.87	50	312548	25.83 ug/L	98
5) vinyl chloride	1.98	62	168221	17.11 ug/L	88
6) bromomethane	2.35	94	35863	21.61 ug/L #	65
7) chloroethane	2.46	64	54937	23.56 ug/L	87
8) trichlorofluoromethane	2.74	101	198779	20.33 ug/L	89
9) acrolein	3.30	56	10056	31.33 ug/L	82
10) 1,1-dichloroethene	3.35	96	64911	15.20 ug/L #	75
11) acetone	3.49	43	134570	72.87 ug/L	85
12) carbon disulfide	3.58	76	207144	13.02 ug/L	98
13) methylene chloride	3.97	84	432153	29.89 ug/L	91
14) acrylonitrile	4.31	53	59756	16.02 ug/L	96
15) trans-1,2-dichloroethene	4.25	96	165267	18.84 ug/L	93
16) methyl-t-butyl ether	4.24	73	395781	18.25 ug/L	94
17) acetonitrile	3.85	41	40431	23.46 ug/L #	89
19) 1,1-dichloroethane	4.77	63	345933	21.03 ug/L	94
20) vinyl acetate	4.85	43	264002	21.33 ug/L	98
21) cis-1,2-dichloroethene	5.50	96	201443	20.64 ug/L #	86
22) 2,2-dichloropropane	5.45	77	263957	20.05 ug/L	96
23) 2-butanone	5.56	72	13718	15.32 ug/L	71
25) chloroform	5.92	83	403829	22.60 ug/L	98
27) 1,1,1-trichloroethane	6.08	97	250717	19.20 ug/L	95
29) carbon tetrachloride	6.27	117	228735	20.02 ug/L	90
31) benzene	6.57	78	603807	19.09 ug/L	98
32) 1,1-dichloropropene	6.29	75	244426	19.59 ug/L #	91
33) 1,2-dichloroethane	6.66	62	272537	20.77 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092509.D Vial: 9
Acq On : 25 Sep 2008 11:49 am Operator: MT
Sample : ,MS,ME0809988-01AMS,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:58 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) trichloroethene	7.43	95	162970	18.90 ug/L	90
36) 1,2-dichloropropane	7.77	63	175292	19.05 ug/L	99
38) dibromomethane	7.95	93	152257	20.73 ug/L	99
39) bromodichloromethane	8.19	83	285488	19.46 ug/L	95
40) 2-chloroethyl vinyl ether	8.61	63	50708	14.17 ug/L	93
42) cis-1,3-dichloropropene	8.80	75	298748	18.99 ug/L	91
43) 4-methyl-2-pentanone	9.04	43	160864	15.59 ug/L #	97
45) toluene	9.23	92	385582	21.69 ug/L	99
46) 1,1,2-trichloroethane	9.93	83	138567	18.70 ug/L	93
47) 1,3-dichloropropane	10.18	76	278494	19.48 ug/L	92
48) tetrachloroethene	10.04	164	131106	22.46 ug/L	94
49) trans-1,3-dichloropropene	9.66	75	268317	19.75 ug/L	96
50) 2-hexanone	10.31	43	106858	15.73 ug/L	93
51) dibromochloromethane	10.53	129	242083	20.87 ug/L	96
52) 1,2-dibromoethane	10.68	107	199771	19.86 ug/L #	99
53) chlorobenzene	11.43	112	468352	21.91 ug/L	90
54) 1,1,1,2-tetrachloroethane	11.59	131	173975	21.38 ug/L	97
55) ethylbenzene	11.59	91	762714	21.65 ug/L	98
56) m,p-xylene	11.78	106	493357	41.11 ug/L	93
58) o-xylene	12.44	106	248824	21.41 ug/L	96
59) styrene	12.48	104	451503	20.89 ug/L	95
60) isopropylbenzene	13.05	105	661865	23.68 ug/L	96
61) bromobenzene	13.59	156	190811	21.38 ug/L	93
62) bromoform	12.85	173	147545	20.88 ug/L	92
64) 1,2,3-trichloropropane	13.74	75	159928	18.52 ug/L	97
65) n-propylbenzene	13.75	91	870468	20.77 ug/L	95
66) 2-chlorotoluene	13.90	91	524383	20.63 ug/L	95
67) 4-chlorotoluene	14.10	91	607507	21.34 ug/L	91
68) 1,3,5-trimethylbenzene	14.06	105	547546	21.78 ug/L	95
70) 1,1,2,2-tetrachloroethane	13.70	83	256447	20.37 ug/L	95
71) tert-butylbenzene	14.57	119	399976	19.24 ug/L	98
72) sec-butylbenzene	14.90	105	615586	17.65 ug/L	95
73) 1,2,4-trimethylbenzene	14.66	105	526990	20.09 ug/L	97
74) 1,3-dichlorobenzene	15.09	146	335739	21.90 ug/L	94
75) p-isopropyltoluene	15.13	119	497315	19.72 ug/L	95
77) 1,4-dichlorobenzene	15.23	146	333177	21.76 ug/L	99
78) 1,2-dichlorobenzene	15.76	146	318744	22.09 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092509.D Vial: 9
Acq On : 25 Sep 2008 11:49 am Operator: MT
Sample : ,MS,ME0809988-01AMS,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:58 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

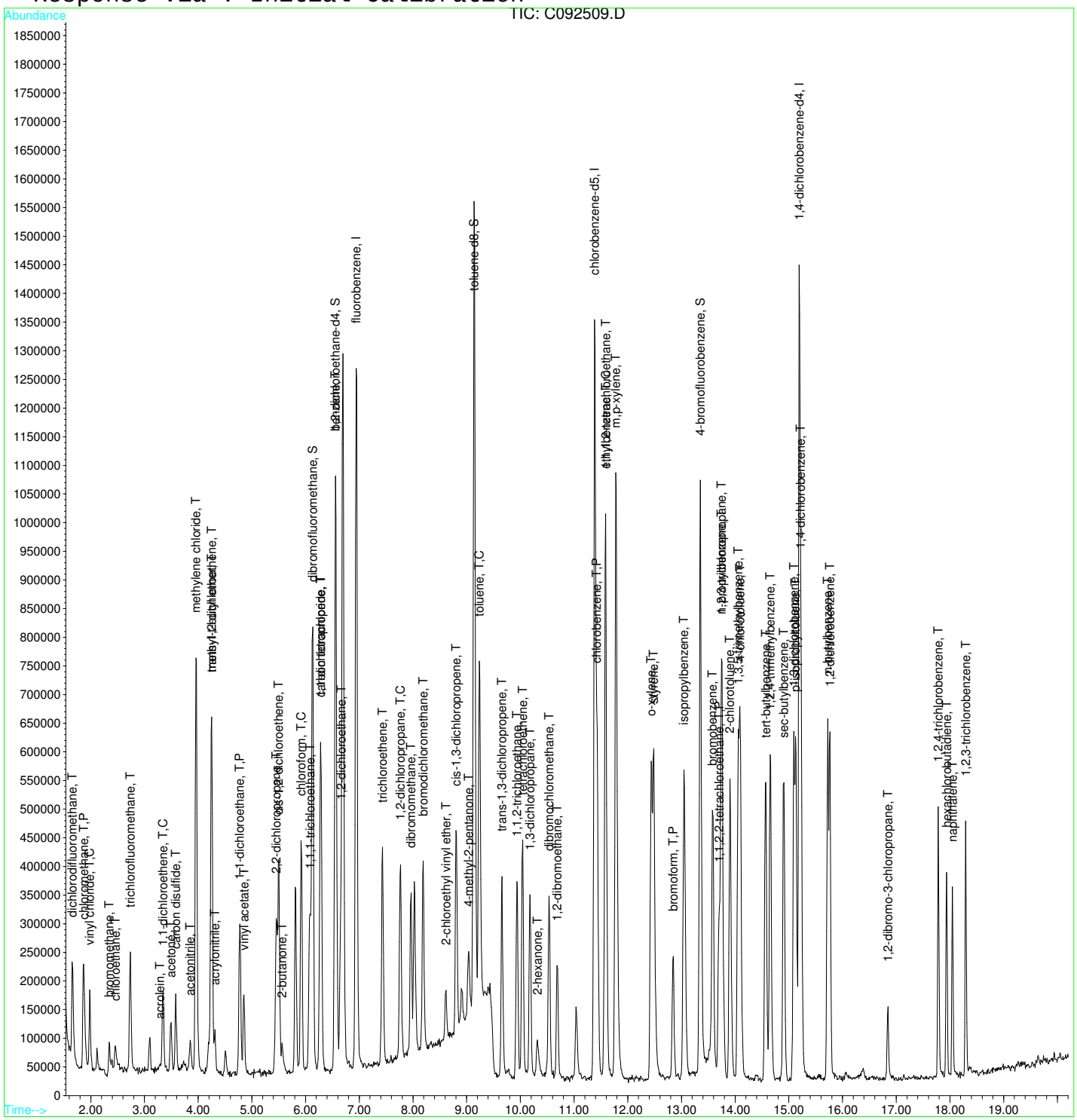
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	n-butylbenzene	15.72	91	509062	17.46 ug/L	94
80)	1,2-dibromo-3-chloropropan	16.84	75	42331	19.09 ug/L	93
81)	1,2,4-trichlorobenzene	17.78	180	148098	16.19 ug/L	96
82)	hexachlorobutadiene	17.94	225	66746	15.90 ug/L	93
83)	naphthalene	18.05	128	263357	11.88 ug/L	100
84)	1,2,3-trichlorobenzene	18.29	180	141012	16.48 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092509.D Vial: 9
Acq On : 25 Sep 2008 11:49 am Operator: MT
Sample : ,MS,ME0809988-01AMS,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:58 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092510.D Vial: 10
Acq On : 25 Sep 2008 12:19 pm Operator: MT
Sample : ,MSD,ME0809988-01AMSD,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:59 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1472795	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1043578	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	443906	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	600421	53.01 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.55	65	504383	47.79 ug/L	0.00
44) toluene-d8	9.14	98	1315145	52.95 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	521939	47.70 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.65	85	224446	15.42 ug/L	91
3) chloromethane	1.86	50	285874	23.99 ug/L	97
5) vinyl chloride	1.98	62	150734	15.57 ug/L	94
6) bromomethane	2.34	94	22091	13.52 ug/L	87
7) chloroethane	2.46	64	40629	17.69 ug/L	88
8) trichlorofluoromethane	2.73	101	204652	21.25 ug/L	99
9) acrolein	3.31	56	8968	28.37 ug/L	78
10) 1,1-dichloroethene	3.35	96	58003	13.79 ug/L #	64
11) acetone	3.49	43	126090	69.34 ug/L	97
12) carbon disulfide	3.58	76	162724	10.39 ug/L	94
13) methylene chloride	3.96	84	350111	24.59 ug/L	96
14) acrylonitrile	4.31	53	65560	17.84 ug/L	96
15) trans-1,2-dichloroethene	4.25	96	133767	15.48 ug/L	94
16) methyl-t-butyl ether	4.25	73	316009	14.80 ug/L	95
19) 1,1-dichloroethane	4.77	63	285484	17.63 ug/L	92
20) vinyl acetate	4.85	43	222690	18.27 ug/L	100
21) cis-1,2-dichloroethene	5.50	96	151166	15.73 ug/L	93
22) 2,2-dichloropropane	5.46	77	208385	16.08 ug/L	93
23) 2-butanone	5.57	72	16314	18.50 ug/L	70
25) chloroform	5.92	83	316791	18.00 ug/L	98
27) 1,1,1-trichloroethane	6.08	97	211186	16.42 ug/L	95
29) carbon tetrachloride	6.27	117	189667	16.86 ug/L	87
31) benzene	6.56	78	505074	16.22 ug/L	97
32) 1,1-dichloropropene	6.29	75	205903	16.76 ug/L #	89
33) 1,2-dichloroethane	6.65	62	198057	15.33 ug/L	97
34) trichloroethene	7.43	95	136391	16.07 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092510.D Vial: 10
Acq On : 25 Sep 2008 12:19 pm Operator: MT
Sample : ,MSD,ME0809988-01AMSD,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:59 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,2-dichloropropane	7.78	63	147440	16.27 ug/L #	74
37) methyl methacrylate	8.03	41	30606	4.04 ug/L #	52
38) dibromomethane	7.96	93	114422	15.82 ug/L	96
39) bromodichloromethane	8.19	83	226843	15.70 ug/L	94
40) 2-chloroethyl vinyl ether	8.61	63	40813	11.58 ug/L	92
42) cis-1,3-dichloropropene	8.81	75	229577	16.00 ug/L	88
43) 4-methyl-2-pentanone	9.04	43	172836	18.37 ug/L	98
45) toluene	9.24	92	281109	17.34 ug/L	91
46) 1,1,2-trichloroethane	9.93	83	118969	17.61 ug/L #	85
47) 1,3-dichloropropane	10.18	76	219629	16.85 ug/L	98
48) tetrachloroethene	10.04	164	111656	20.98 ug/L	96
49) trans-1,3-dichloropropene	9.66	75	211589	17.08 ug/L	92
50) 2-hexanone	10.32	43	102801	16.60 ug/L	95
51) dibromochloromethane	10.53	129	169366	16.02 ug/L	95
52) 1,2-dibromoethane	10.68	107	154407	16.84 ug/L #	86
53) chlorobenzene	11.44	112	345380	17.72 ug/L	89
54) 1,1,1,2-tetrachloroethane	11.59	131	132839	17.91 ug/L	97
55) ethylbenzene	11.59	91	575657	17.92 ug/L	99
56) m,p-xylene	11.78	106	377523	34.51 ug/L	89
58) o-xylene	12.44	106	188012	17.74 ug/L	96
59) styrene	12.49	104	313910	15.93 ug/L	97
60) isopropylbenzene	13.05	105	493635	19.37 ug/L	100
61) bromobenzene	13.59	156	139374	17.13 ug/L	97
62) bromoform	12.85	173	109213	16.95 ug/L	98
64) 1,2,3-trichloropropane	13.74	75	123400	15.67 ug/L	94
65) n-propylbenzene	13.75	91	623854	16.33 ug/L	99
66) 2-chlorotoluene	13.91	91	391094	16.87 ug/L	99
67) 4-chlorotoluene	14.10	91	439680	16.94 ug/L	91
68) 1,3,5-trimethylbenzene	14.06	105	391634	17.08 ug/L	96
70) 1,1,2,2-tetrachloroethane	13.70	83	181916	17.03 ug/L	95
71) tert-butylbenzene	14.57	119	293522	16.64 ug/L	92
72) sec-butylbenzene	14.90	105	471629	15.94 ug/L	94
73) 1,2,4-trimethylbenzene	14.66	105	382541	17.19 ug/L	97
74) 1,3-dichlorobenzene	15.10	146	237343	18.25 ug/L	93
75) p-isopropyltoluene	15.13	119	363049	16.96 ug/L	95
77) 1,4-dichlorobenzene	15.24	146	227934	17.54 ug/L	95
78) 1,2-dichlorobenzene	15.76	146	224474	18.33 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092510.D Vial: 10
Acq On : 25 Sep 2008 12:19 pm Operator: MT
Sample : ,MSD,ME0809988-01AMSD,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:59 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

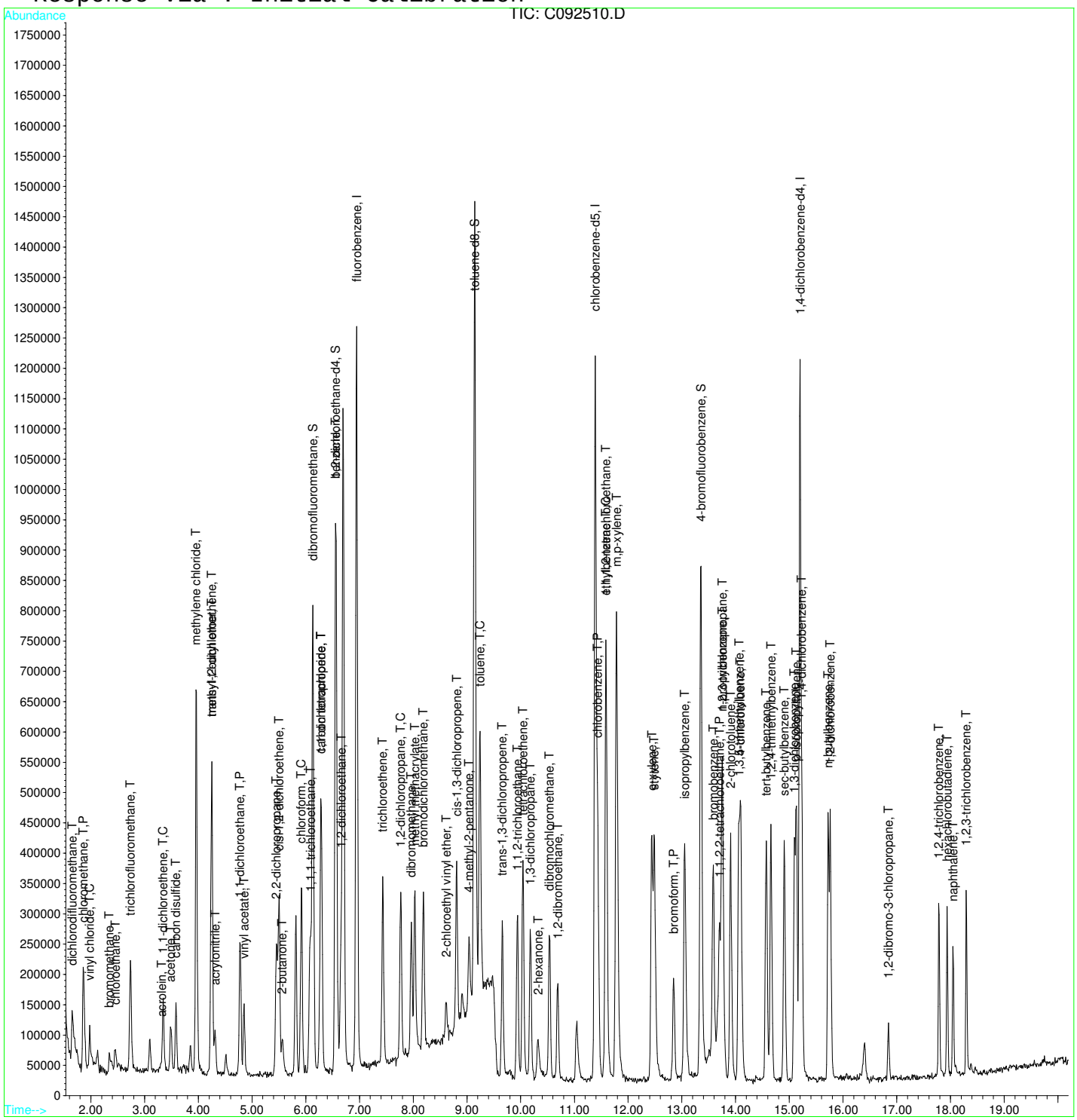
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) n-butylbenzene	15.72	91	352170	14.24 ug/L	95
80) 1,2-dibromo-3-chloropropan	16.84	75	25001	13.29 ug/L #	83
81) 1,2,4-trichlorobenzene	17.79	180	97711	12.59 ug/L	96
82) hexachlorobutadiene	17.94	225	47715	13.39 ug/L	93
83) naphthalene	18.05	128	177104	9.42 ug/L	100
84) 1,2,3-trichlorobenzene	18.29	180	90388	12.45 ug/L	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092510.D Vial: 10
Acq On : 25 Sep 2008 12:19 pm Operator: MT
Sample : ,MSD,ME0809988-01AMSD,10, Inst : VOA #3
Misc : 1311_V Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 12:59 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

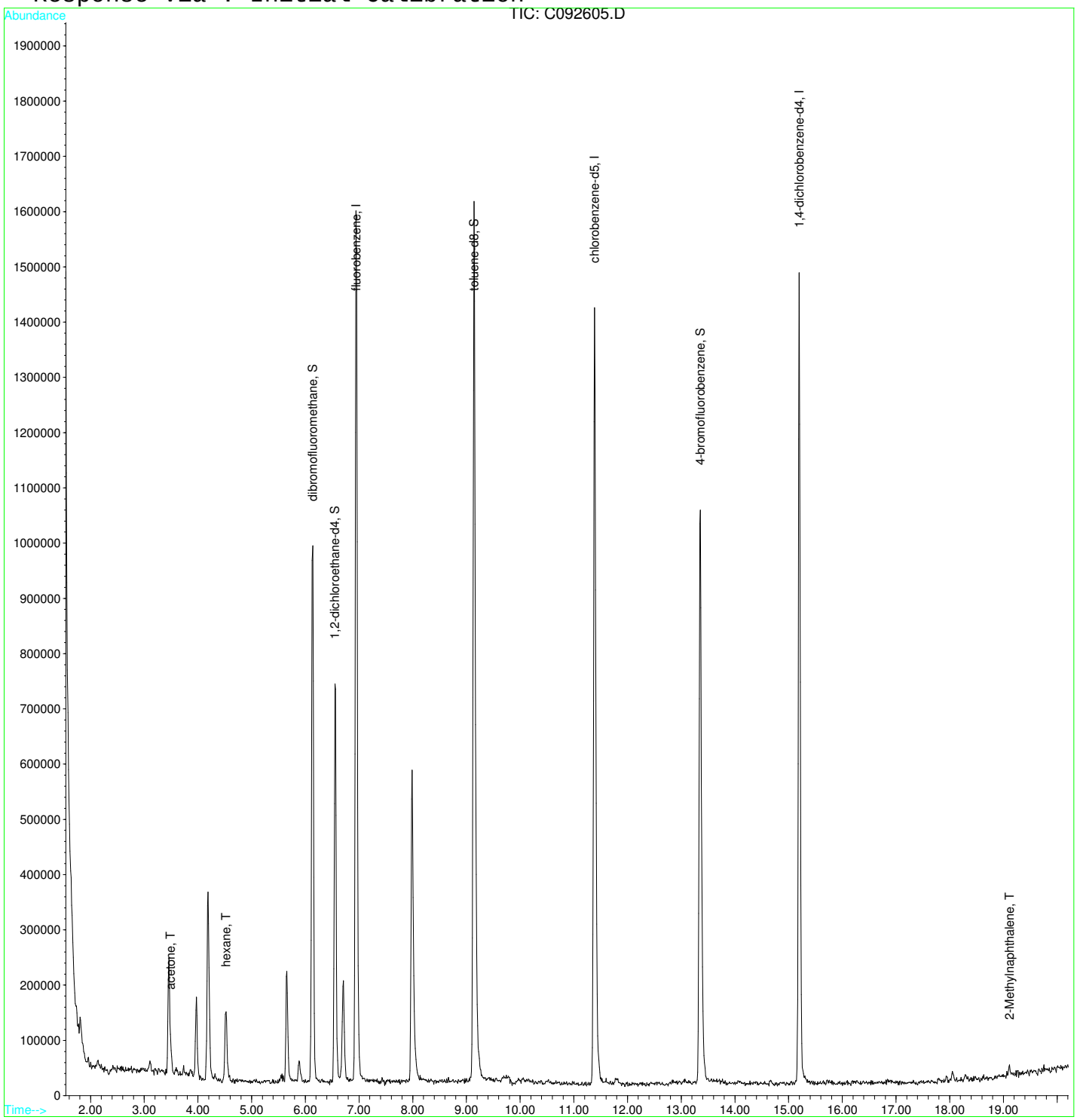
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1984738	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1427371	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	589745	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	781966	51.23 ug/L	0.00
30) 1,2-dichloroethane-d4	6.55	65	652873	45.91 ug/L	0.00
44) toluene-d8	9.14	98	1791196	52.73 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	743509	49.68 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.50	43	69512	28.37 ug/L	98
18) hexane	4.53	57	87387	3.69 ug/L	82
85) 2-Methylnaphthalene	19.11	142	8961	1.21 ug/L #	75

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:24 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092606.D Vial: 2
Acq On : 26 Sep 2008 9:31 am Operator: NLT
Sample : ,MS,ME0809B07-05AMS,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 22:07 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1725809	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1301590	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.19	152	592415	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	721367	54.36 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	596491	48.23 ug/L	0.00
44) toluene-d8	9.15	98	1629263	52.60 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	700785	51.35 ug/L	-0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	342116	20.06 ug/L	92
3) chloromethane	1.88	50	450868	32.29 ug/L	98
5) vinyl chloride	1.99	62	244049	21.51 ug/L	93
6) bromomethane	2.35	94	63362	33.09 ug/L	94
7) chloroethane	2.47	64	105746	39.29 ug/L	96
8) trichlorofluoromethane	2.75	101	332284	29.45 ug/L	98
9) acrolein	3.31	56	18936	51.13 ug/L	100
10) 1,1-dichloroethene	3.36	96	88002	17.86 ug/L	96
11) acetone	3.49	43	71035	33.34 ug/L	79
12) carbon disulfide	3.59	76	401736	21.88 ug/L	100
13) methylene chloride	3.97	84	312367	18.73 ug/L	97
14) acrylonitrile	4.32	53	86609	20.12 ug/L	91
15) trans-1,2-dichloroethene	4.26	96	234095	23.12 ug/L	96
16) methyl-t-butyl ether	4.25	73	603136	24.10 ug/L	98
19) 1,1-dichloroethane	4.78	63	487693	25.70 ug/L	96
20) vinyl acetate	4.85	43	571126	39.99 ug/L	99
21) cis-1,2-dichloroethene	5.50	96	255771	22.71 ug/L	87
22) 2,2-dichloropropane	5.46	77	370541	24.40 ug/L	93
23) 2-butanone	5.56	72	25433	24.61 ug/L #	47
25) chloroform	5.93	83	501012	24.29 ug/L	89
27) 1,1,1-trichloroethane	6.08	97	361092	23.97 ug/L	97
29) carbon tetrachloride	6.27	117	336511	25.53 ug/L	95
31) benzene	6.58	78	845780	23.18 ug/L	97
32) 1,1-dichloropropene	6.29	75	333969	23.19 ug/L	96
33) 1,2-dichloroethane	6.65	62	330832	21.85 ug/L	99
34) trichloroethene	7.43	95	234722	23.60 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092606.D Vial: 2
Acq On : 26 Sep 2008 9:31 am Operator: NLT
Sample : ,MS,ME0809B07-05AMS,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 22:07 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,2-dichloropropane	7.77	63	239461	22.55 ug/L	94
38) dibromomethane	7.96	93	199125	23.50 ug/L	91
39) bromodichloromethane	8.19	83	361369	21.35 ug/L	89
42) cis-1,3-dichloropropene	8.80	75	388587	21.72 ug/L	97
43) 4-methyl-2-pentanone	9.04	43	251713	21.45 ug/L	98
45) toluene	9.24	92	495726	24.52 ug/L	90
46) 1,1,2-trichloroethane	9.94	83	193502	22.97 ug/L	94
47) 1,3-dichloropropane	10.18	76	352613	21.69 ug/L	98
48) tetrachloroethene	10.04	164	181509	27.35 ug/L	92
49) trans-1,3-dichloropropene	9.66	75	351526	22.75 ug/L	96
50) 2-hexanone	10.31	43	144974	18.77 ug/L	98
51) dibromochloromethane	10.53	129	305315	23.15 ug/L	95
52) 1,2-dibromoethane	10.69	107	272373	23.82 ug/L #	89
53) chlorobenzene	11.43	112	615796	25.34 ug/L	94
54) 1,1,1,2-tetrachloroethane	11.59	131	241782	26.13 ug/L	95
55) ethylbenzene	11.59	91	1025322	25.59 ug/L	99
56) m,p-xylene	11.78	106	698565	51.19 ug/L	98
58) o-xylene	12.43	106	346415	26.21 ug/L	91
59) styrene	12.48	104	584657	23.78 ug/L	90
60) isopropylbenzene	13.05	105	904238	28.44 ug/L	96
61) bromobenzene	13.59	156	245973	24.24 ug/L	91
62) bromoform	12.85	173	193098	24.03 ug/L	93
64) 1,2,3-trichloropropane	13.74	75	213823	21.78 ug/L	97
65) n-propylbenzene	13.75	91	1173554	24.63 ug/L	99
66) 2-chlorotoluene	13.90	91	719970	24.91 ug/L	99
67) 4-chlorotoluene	14.10	91	808849	24.98 ug/L	94
68) 1,3,5-trimethylbenzene	14.06	105	703824	24.62 ug/L	99
70) 1,1,2,2-tetrachloroethane	13.69	83	317936	22.30 ug/L	97
71) tert-butylbenzene	14.57	119	505928	21.50 ug/L	90
72) sec-butylbenzene	14.91	105	800825	20.28 ug/L	97
73) 1,2,4-trimethylbenzene	14.65	105	683902	23.02 ug/L	94
74) 1,3-dichlorobenzene	15.09	146	434335	25.02 ug/L	95
75) p-isopropyltoluene	15.13	119	636676	22.29 ug/L	95
77) 1,4-dichlorobenzene	15.23	146	430764	24.84 ug/L	94
78) 1,2-dichlorobenzene	15.76	146	408847	25.02 ug/L	98
79) n-butylbenzene	15.72	91	605091	18.33 ug/L	100
80) 1,2-dibromo-3-chloropropan	16.85	75	44893m3	17.88 ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092606.D Vial: 2
Acq On : 26 Sep 2008 9:31 am Operator: NLT
Sample : ,MS,ME0809B07-05AMS,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 22:07 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

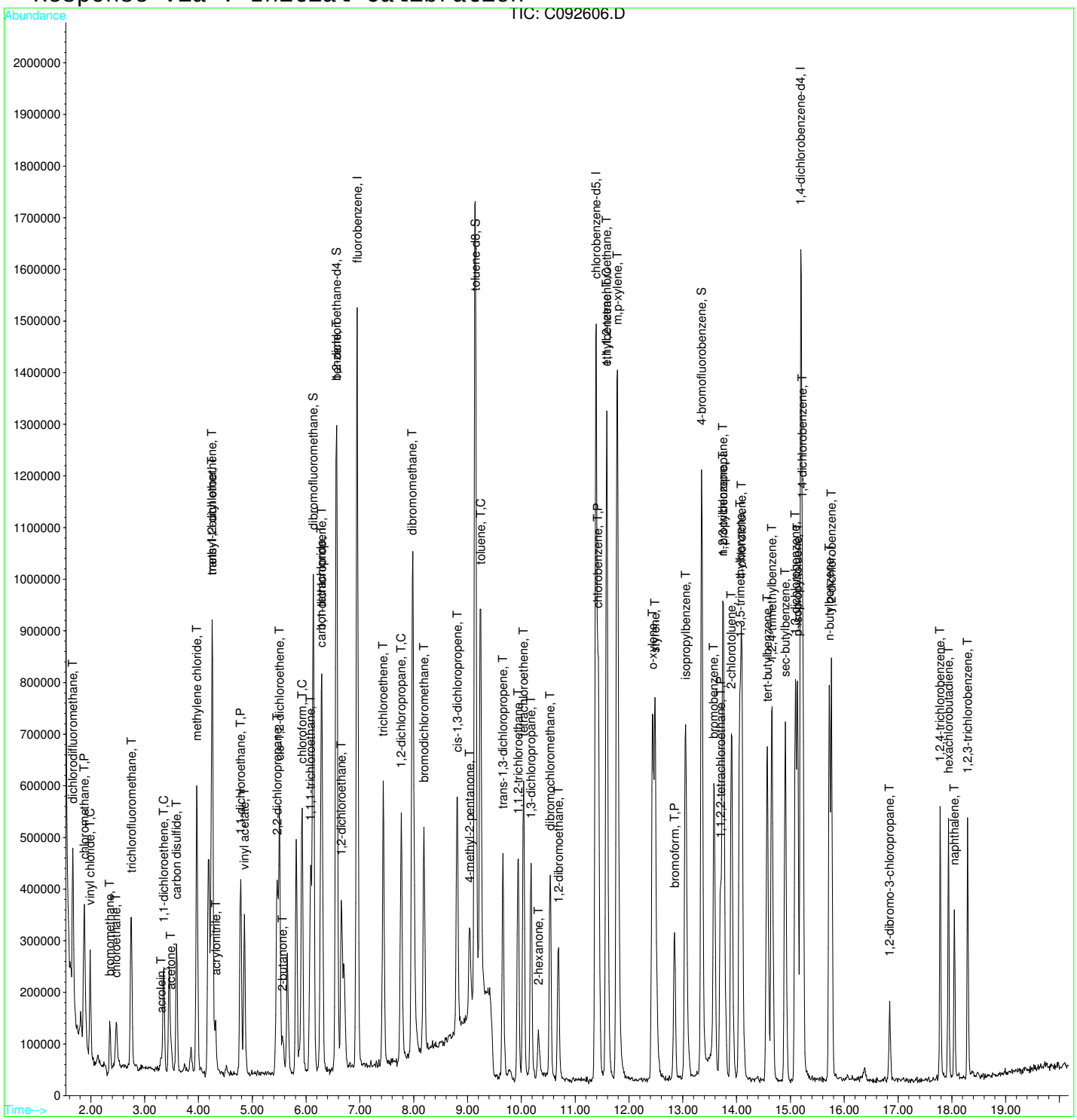
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 1,2,4-trichlorobenzene	17.78	180	168825	16.30 ug/L	98
82) hexachlorobutadiene	17.94	225	83544	17.57 ug/L	92
83) naphthalene	18.05	128	274612	10.94 ug/L	100
84) 1,2,3-trichlorobenzene	18.29	180	151841	15.67 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092606.D Vial: 2
Acq On : 26 Sep 2008 9:31 am Operator: NLT
Sample : ,MS,ME0809B07-05AMS,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 22:07 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092607.D Vial: 3
Acq On : 26 Sep 2008 10:01 am Operator: NLT
Sample : ,MSD,ME0809B07-05AMSD,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:25 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1813415	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	1363559	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	616302	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	722230	51.79 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	610107	46.95 ug/L	0.00
44) toluene-d8	9.14	98	1724697	53.15 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	698791	48.88 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.67	85	336694	18.78 ug/L	89
3) chloromethane	1.88	50	445313	30.35 ug/L	95
5) vinyl chloride	1.98	62	235358	19.74 ug/L	93
6) bromomethane	2.35	94	38813	19.29 ug/L #	70
7) chloroethane	2.46	64	89755	31.74 ug/L	86
8) trichlorofluoromethane	2.74	101	311970	26.31 ug/L	96
9) acrolein	3.30	56	20201	51.91 ug/L	86
10) 1,1-dichloroethene	3.35	96	88503	17.09 ug/L	91
11) acetone	3.49	43	86882	38.80 ug/L	91
12) carbon disulfide	3.59	76	403925	20.94 ug/L	100
13) methylene chloride	3.97	84	402055	22.94 ug/L	94
14) acrylonitrile	4.32	53	106585	23.56 ug/L	98
15) trans-1,2-dichloroethene	4.26	96	224797	21.13 ug/L	98
16) methyl-t-butyl ether	4.25	73	637534	24.25 ug/L	93
17) acetonitrile	3.86	41	54352	26.01 ug/L #	86
18) hexane	4.51	57	119130	5.50 ug/L	94
19) 1,1-dichloroethane	4.78	63	481687	24.15 ug/L	95
20) vinyl acetate	4.86	43	612097	40.79 ug/L	98
21) cis-1,2-dichloroethene	5.51	96	269563	22.78 ug/L	91
22) 2,2-dichloropropane	5.46	77	362256	22.70 ug/L	97
23) 2-butanone	5.57	72	28175	25.95 ug/L #	96
25) chloroform	5.93	83	506384	23.37 ug/L	94
27) 1,1,1-trichloroethane	6.08	97	380605	24.04 ug/L	86
29) carbon tetrachloride	6.27	117	310407	22.41 ug/L	88
31) benzene	6.57	78	830642	21.66 ug/L	97
32) 1,1-dichloropropene	6.29	75	327117	21.62 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092607.D Vial: 3
Acq On : 26 Sep 2008 10:01 am Operator: NLT
Sample : ,MSD,ME0809B07-05AMSD,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:25 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33) 1,2-dichloroethane	6.65	62	343257	21.58 ug/L	99
34) trichloroethene	7.44	95	224555	21.48 ug/L	99
36) 1,2-dichloropropane	7.76	63	242119	21.70 ug/L	94
37) methyl methacrylate	7.98	41	21193	2.27 ug/L #	59
38) dibromomethane	7.97	93	200607	22.53 ug/L	93
39) bromodichloromethane	8.19	83	383458	21.56 ug/L	89
42) cis-1,3-dichloropropene	8.81	75	381158	20.33 ug/L	98
43) 4-methyl-2-pentanone	9.03	43	296502	24.12 ug/L	92
45) toluene	9.25	92	532936	25.16 ug/L	96
46) 1,1,2-trichloroethane	9.94	83	197855	22.42 ug/L	97
47) 1,3-dichloropropane	10.18	76	373603	21.94 ug/L	91
48) tetrachloroethene	10.05	164	190327	27.37 ug/L #	87
49) trans-1,3-dichloropropene	9.66	75	362534	22.40 ug/L #	88
50) 2-hexanone	10.31	43	203201	25.11 ug/L	97
51) dibromochloromethane	10.54	129	309360	22.39 ug/L	98
52) 1,2-dibromoethane	10.69	107	285559	23.83 ug/L	92
53) chlorobenzene	11.43	112	661169	25.97 ug/L	96
54) 1,1,1,2-tetrachloroethane	11.58	131	252052	26.01 ug/L	92
55) ethylbenzene	11.59	91	1088132	25.93 ug/L	100
56) m,p-xylene	11.79	106	731430	51.17 ug/L	93
58) o-xylene	12.44	106	357729	25.84 ug/L	90
59) styrene	12.49	104	600302	23.31 ug/L	92
60) isopropylbenzene	13.05	105	933642	28.03 ug/L	95
61) bromobenzene	13.58	156	263604	24.80 ug/L	94
62) bromoform	12.84	173	207532	24.65 ug/L	99
64) 1,2,3-trichloropropane	13.74	75	239988	23.33 ug/L	92
65) n-propylbenzene	13.76	91	1172119	23.48 ug/L	97
66) 2-chlorotoluene	13.91	91	731634	24.16 ug/L	96
67) 4-chlorotoluene	14.09	91	833809	24.58 ug/L	95
68) 1,3,5-trimethylbenzene	14.06	105	714861	23.87 ug/L	92
70) 1,1,2,2-tetrachloroethane	13.70	83	362010	24.41 ug/L	93
71) tert-butylbenzene	14.58	119	525346	21.46 ug/L	98
72) sec-butylbenzene	14.90	105	814654	19.83 ug/L	94
73) 1,2,4-trimethylbenzene	14.65	105	680763	22.03 ug/L	88
74) 1,3-dichlorobenzene	15.10	146	447443	24.77 ug/L	91
75) p-isopropyltoluene	15.14	119	622747	20.96 ug/L	94
77) 1,4-dichlorobenzene	15.24	146	441901	24.49 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092607.D Vial: 3
Acq On : 26 Sep 2008 10:01 am Operator: NLT
Sample : ,MSD,ME0809B07-05AMSD,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:25 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

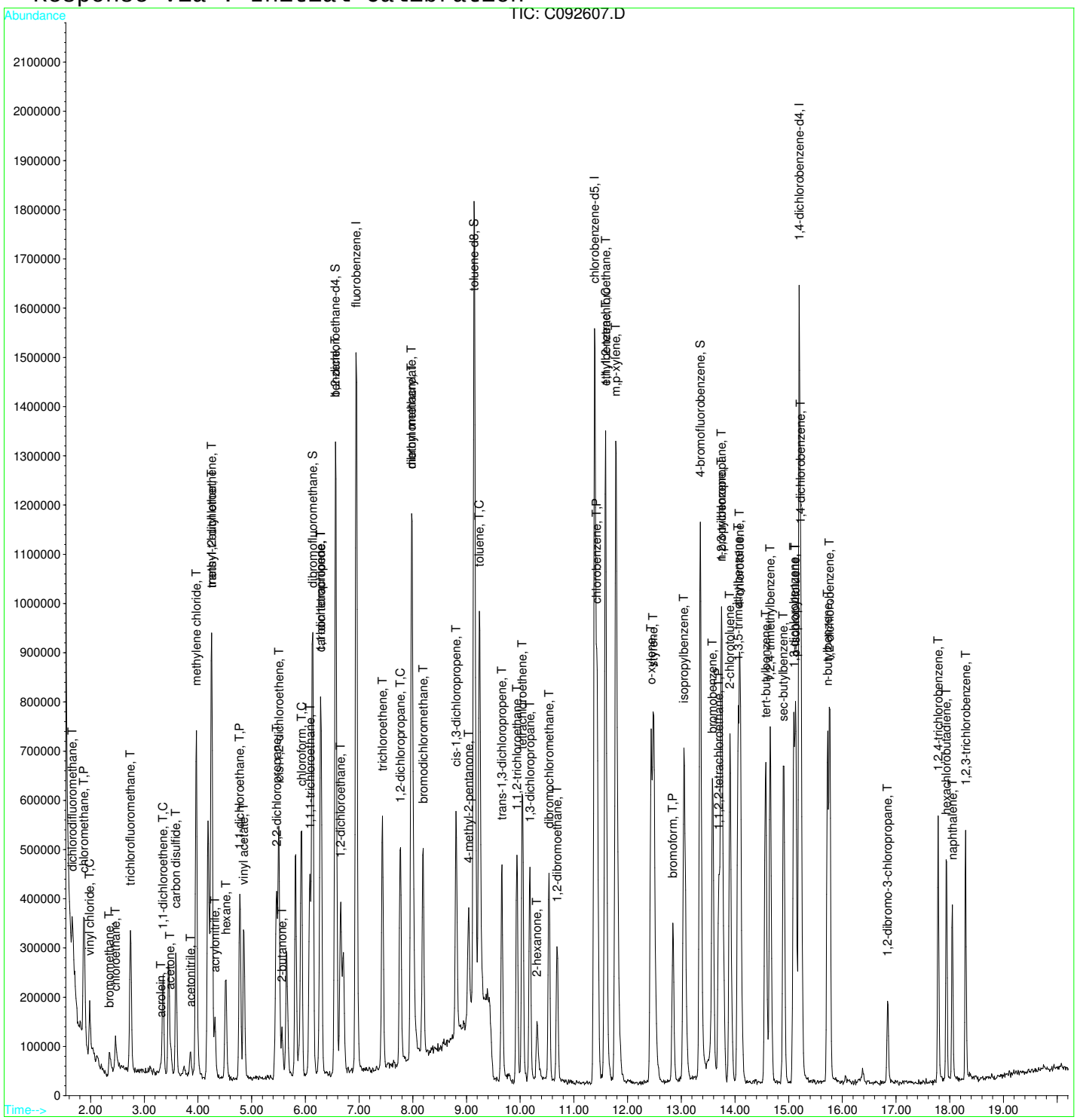
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) 1,2-dichlorobenzene	15.77	146	423259	24.89 ug/L	98
79) n-butylbenzene	15.73	91	596430	17.36 ug/L	96
80) 1,2-dibromo-3-chloropropan	16.84	75	53432	20.45 ug/L	86
81) 1,2,4-trichlorobenzene	17.79	180	180515	16.75 ug/L	95
82) hexachlorobutadiene	17.94	225	81671	16.51 ug/L	86
83) naphthalene	18.05	128	306427	11.74 ug/L	100
84) 1,2,3-trichlorobenzene	18.30	180	163993	16.27 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092607.D Vial: 3
Acq On : 26 Sep 2008 10:01 am Operator: NLT
Sample : ,MSD,ME0809B07-05AMSD,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:25 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092613.D Vial: 13
Acq On : 26 Sep 2008 1:51 pm Operator: BR
Sample : ,SAMP,ME0809B07-13A,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 19:57 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

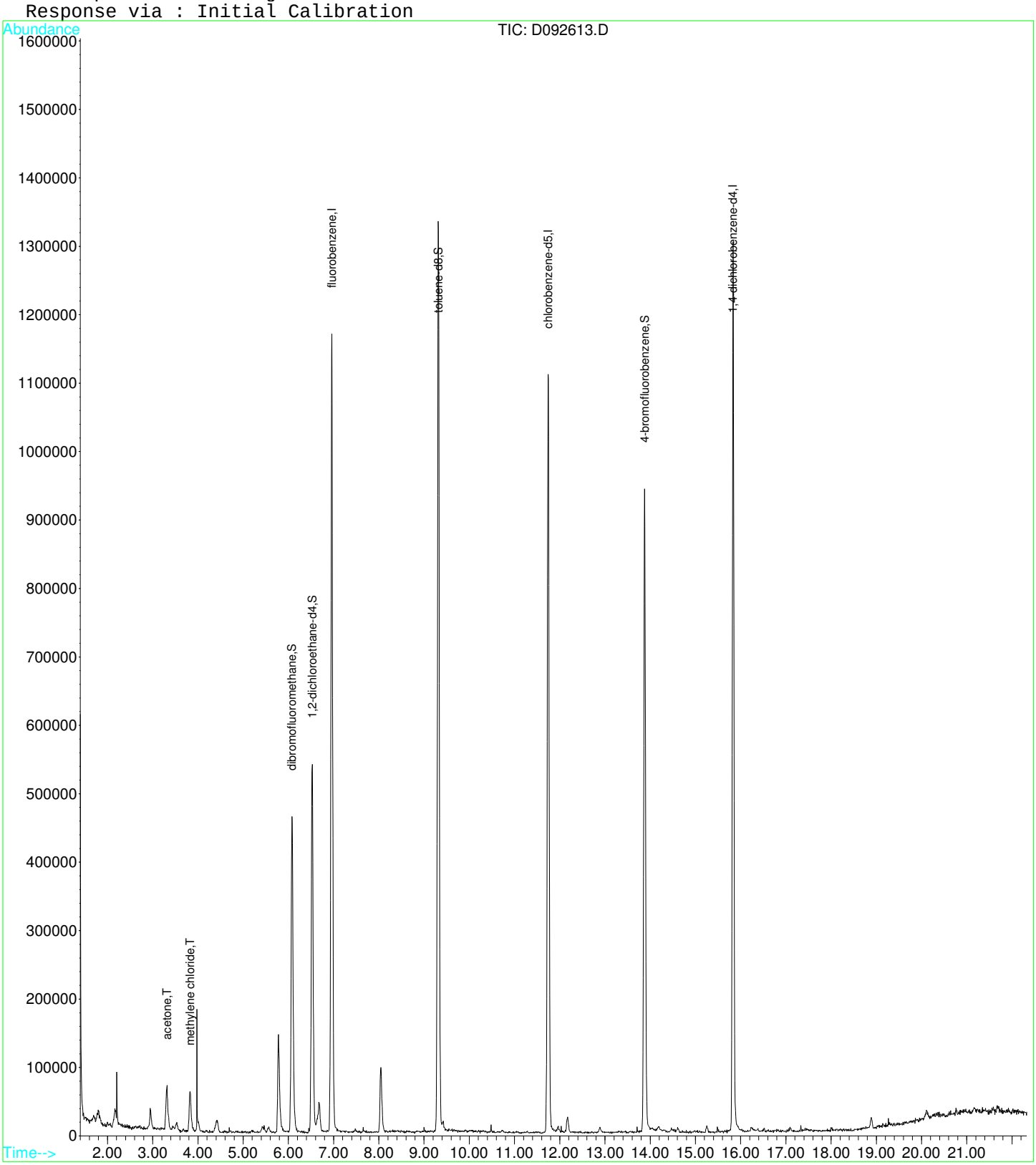
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1378005	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.75	117	945744	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.83	152	462896	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	421337	54.25 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.53	65	547763	51.57 ug/L	-0.02
44) toluene-d8	9.31	98	1233553	50.29 ug/L	-0.02
63) 4-bromofluorobenzene	13.88	95	544789	49.74 ug/L	-0.02
Target Compounds					Qvalue
11) acetone	3.32	43	90669	19.32 ug/L	91
13) methylene chloride	3.83	84	36609	3.80 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092608\D092613.D Vial: 13
Acq On : 26 Sep 2008 1:51 pm Operator: BR
Sample : ,SAMP,ME0809B07-13A,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 19:57 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092614.D Vial: 14
Acq On : 26 Sep 2008 2:27 pm Operator: BR
Sample : ,MS,ME0809B07-13AMS,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:43 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1463864	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.75	117	988719	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.84	152	481892	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	454425	55.08 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.53	65	579431	51.35 ug/L	-0.02
44) toluene-d8	9.32	98	1322630	51.58 ug/L	-0.02
63) 4-bromofluorobenzene	13.89	95	575337	50.24 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.57	85	161839	14.20 ug/L	96
3) chloromethane	1.85	50	212584	32.09 ug/L	91
4) vinyl chloride	1.87	62	208557	19.27 ug/L	96
6) bromomethane	2.23	94	60534	21.39 ug/L	94
7) chloroethane	2.34	64	144250	25.13 ug/L	89
8) trichlorofluoromethane	2.62	101	270436	19.81 ug/L	96
9) acrolein	3.13	56	36921	54.04 ug/L	95
10) 1,1-dichloroethene	3.21	96	96709	14.49 ug/L	97
11) acetone	3.32	43	154870	31.06 ug/L	95
12) carbon disulfide	3.45	76	443236	17.16 ug/L	100
13) methylene chloride	3.82	84	180056	17.60 ug/L	96
14) acrylonitrile	4.15	53	87189	26.07 ug/L	98
15) trans-1,2-dichloroethene	4.13	96	123645	16.70 ug/L	100
16) methyl-t-butyl ether	4.11	73	495862	21.36 ug/L	96
17) acetonitrile	3.68	41	39202	26.44 ug/L	98
19) 1,1-dichloroethane	4.67	63	269390	17.92 ug/L	99
20) vinyl acetate	4.74	43	400295	36.34 ug/L	98
21) cis-1,2-dichloroethene	5.42	96	143263	17.57 ug/L	91
22) 2,2-dichloropropane	5.39	77	172958	14.86 ug/L	99
23) 2-butanone	5.46	72	23289	23.89 ug/L	97
25) chloroform	5.87	83	261871	18.62 ug/L	94
27) 1,1,1-trichloroethane	6.05	97	194461	16.40 ug/L	98
29) carbon tetrachloride	6.26	117	146315	16.56 ug/L	85
31) benzene	6.56	78	495522	16.87 ug/L	98
32) 1,1-dichloropropene	6.28	75	193228	16.88 ug/L	99
33) 1,2-dichloroethane	6.64	62	236832	17.12 ug/L	99
34) trichloroethene	7.48	95	135402	17.63 ug/L	99
36) 1,2-dichloropropane	7.84	63	140643	17.23 ug/L	88
37) methyl methacrylate	7.84	41	117329	10.65 ug/L #	45
38) dibromomethane	8.04	93	91946	18.29 ug/L	95
39) bromodichloromethane	8.29	83	189060	16.93 ug/L	95
42) cis-1,3-dichloropropene	8.95	75	204014	16.58 ug/L	91
43) 4-methyl-2-pentanone	9.18	43	245549	22.81 ug/L	94
45) toluene	9.43	92	326122	18.19 ug/L	99
46) 1,1,2-trichloroethane	10.17	83	96797	17.59 ug/L	91
47) 1,3-dichloropropane	10.43	76	225190	17.70 ug/L	99
48) tetrachloroethene	10.30	164	99894	18.35 ug/L	94
49) trans-1,3-dichloropropene	9.87	75	162314	16.45 ug/L	99
50) 2-hexanone	10.56	43	167637	21.99 ug/L	96
51) dibromochloromethane	10.82	129	133589	18.14 ug/L	97
52) 1,2-dibromoethane	10.98	107	132886	18.59 ug/L	99
53) chlorobenzene	11.80	112	333981	17.99 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.96	131	115743	17.44 ug/L	97
55) ethylbenzene	11.97	91	616670	17.97 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092614.D Vial: 14
Acq On : 26 Sep 2008 2:27 pm Operator: BR
Sample : ,MS,ME0809B07-13AMS,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:43 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

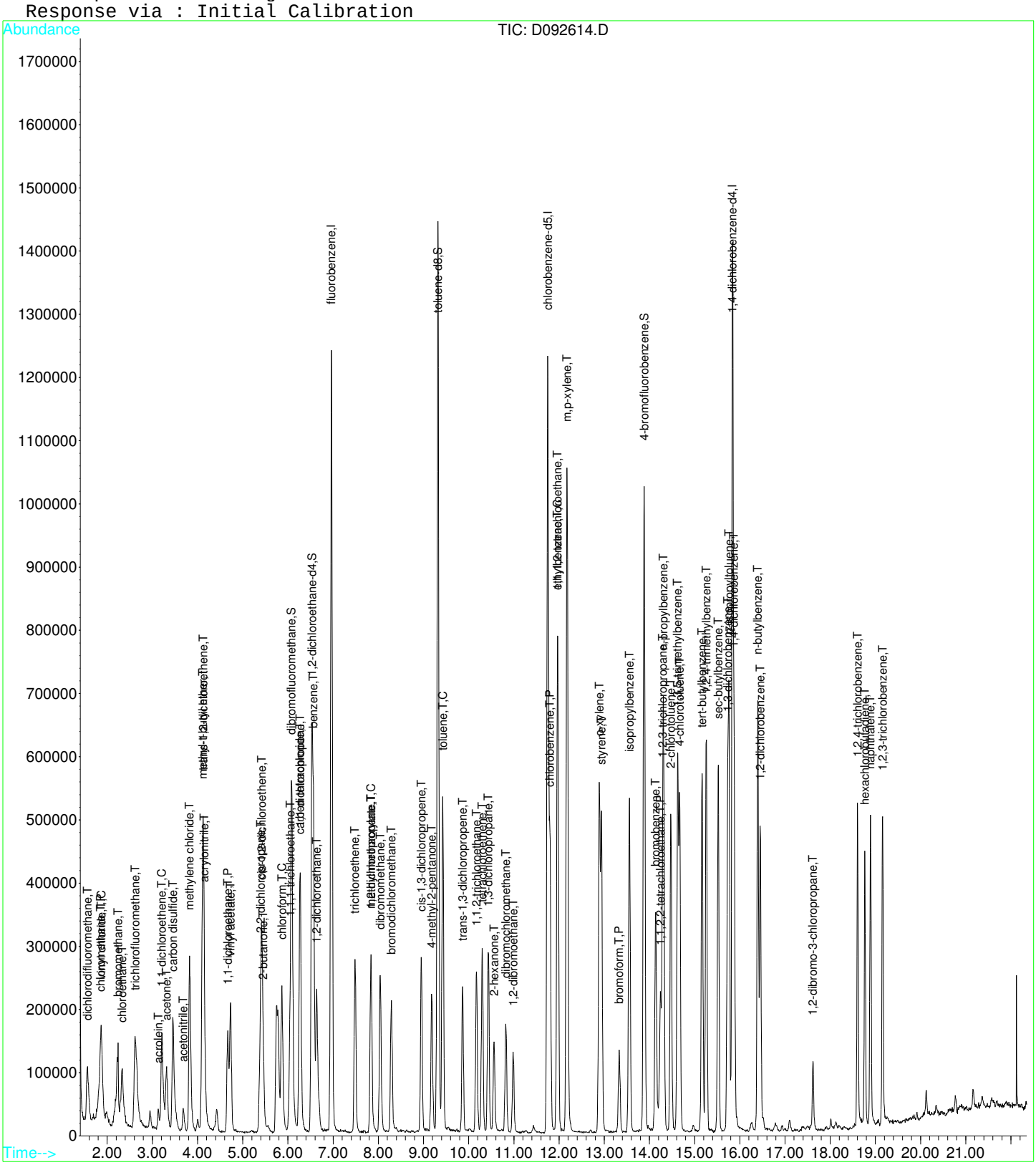
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
56)	m,p-xylene	12.17	106	461510	37.05 ug/L	94
58)	o-xylene	12.89	106	226059	18.79 ug/L	95
59)	styrene	12.94	104	363277	17.10 ug/L	95
60)	isopropylbenzene	13.56	105	577950	19.95 ug/L	99
61)	bromobenzene	14.14	156	137136	18.81 ug/L	97
62)	bromoform	13.33	173	94025	19.77 ug/L	95
64)	1,2,3-trichloropropane	14.29	75	140889	17.55 ug/L	98
65)	n-propylbenzene	14.31	91	717301	17.83 ug/L	99
66)	2-chlorotoluene	14.47	91	438282	17.65 ug/L	99
67)	4-chlorotoluene	14.66	91	505820	17.76 ug/L	98
68)	1,3,5-trimethylbenzene	14.62	105	479225	17.78 ug/L	99
70)	1,1,2,2-tetrachloroethane	14.24	83	169972	18.08 ug/L	98
71)	tert-butylbenzene	15.16	119	403217	17.56 ug/L	97
72)	sec-butylbenzene	15.52	105	603698	16.38 ug/L	98
73)	1,2,4-trimethylbenzene	15.26	105	507302	17.61 ug/L	96
74)	1,3-dichlorobenzene	15.73	146	256865	18.55 ug/L	98
75)	p-isopropyltoluene	15.76	119	542364	18.87 ug/L	98
77)	1,4-dichlorobenzene	15.87	146	258595	18.12 ug/L	98
78)	1,2-dichlorobenzene	16.45	146	241462	18.20 ug/L	96
79)	n-butylbenzene	16.40	91	520603	17.14 ug/L	97
80)	1,2-dibromo-3-chloropropan	17.62	75	36297	17.25 ug/L	99
81)	1,2,4-trichlorobenzene	18.60	180	197087	18.12 ug/L	97
82)	hexachlorobutadiene	18.77	225	103106	16.30 ug/L	97
83)	naphthalene	18.89	128	451046	18.28 ug/L	100
84)	1,2,3-trichlorobenzene	19.16	180	176790	17.34 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092608\D092614.D Vial: 14
Acq On : 26 Sep 2008 2:27 pm Operator: BR
Sample : ,MS,ME0809B07-13AMS,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:43 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092615.D Vial: 15
Acq On : 26 Sep 2008 3:02 pm Operator: BR
Sample : ,MSD,ME0809B07-13AMSD,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:43 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1361596	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.75	117	927808	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.84	152	451320	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	420049	54.74 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.53	65	521423	49.68 ug/L	-0.02
44) toluene-d8	9.32	98	1229337	51.08 ug/L	-0.02
63) 4-bromofluorobenzene	13.88	95	530690	49.39 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.57	85	161557	15.24 ug/L	95
3) chloromethane	1.83	50	223442	36.27 ug/L	90
4) vinyl chloride	1.87	62	208424	20.70 ug/L	98
6) bromomethane	2.23	94	74336	25.65 ug/L	90
7) chloroethane	2.34	64	131981	24.72 ug/L	94
8) trichlorofluoromethane	2.62	101	258949	20.39 ug/L	97
9) acrolein	3.13	56	31361	49.35 ug/L	99
10) 1,1-dichloroethene	3.21	96	101605	16.37 ug/L	88
11) acetone	3.32	43	134152	28.92 ug/L	97
12) carbon disulfide	3.45	76	417744	17.39 ug/L	99
13) methylene chloride	3.83	84	177219	18.63 ug/L	96
14) acrylonitrile	4.15	53	74694	24.01 ug/L	97
15) trans-1,2-dichloroethene	4.13	96	126697	18.39 ug/L	90
16) methyl-t-butyl ether	4.10	73	451166	20.90 ug/L	94
19) 1,1-dichloroethane	4.67	63	270686	19.36 ug/L	99
20) vinyl acetate	4.73	43	340352	33.22 ug/L	100
21) cis-1,2-dichloroethene	5.42	96	144637	19.07 ug/L	94
22) 2,2-dichloropropane	5.39	77	176420	16.30 ug/L	100
23) 2-butanone	5.46	72	22338	24.64 ug/L #	58
25) chloroform	5.87	83	264746	20.23 ug/L	99
27) 1,1,1-trichloroethane	6.05	97	201927	18.30 ug/L	98
29) carbon tetrachloride	6.26	117	151476	18.43 ug/L	92
31) benzene	6.56	78	523955	19.17 ug/L	100
32) 1,1-dichloropropene	6.27	75	199090	18.70 ug/L	99
33) 1,2-dichloroethane	6.63	62	235034	18.27 ug/L	98
34) trichloroethene	7.48	95	135744	19.00 ug/L	98
36) 1,2-dichloropropane	7.83	63	144683	19.05 ug/L	92
37) methyl methacrylate	7.83	41	121908	11.89 ug/L #	48
38) dibromomethane	8.04	93	94901	20.30 ug/L	97
39) bromodichloromethane	8.28	83	199070	19.16 ug/L	97
42) cis-1,3-dichloropropene	8.95	75	208245	18.03 ug/L	94
43) 4-methyl-2-pentanone	9.18	43	203645	20.16 ug/L	94
45) toluene	9.43	92	330912	19.67 ug/L	96
46) 1,1,2-trichloroethane	10.17	83	98261	19.03 ug/L	94
47) 1,3-dichloropropane	10.44	76	223995	18.76 ug/L	98
48) tetrachloroethene	10.30	164	104348	20.42 ug/L	97
49) trans-1,3-dichloropropene	9.86	75	167058	18.04 ug/L	99
50) 2-hexanone	10.56	43	137061	19.16 ug/L	96
51) dibromochloromethane	10.82	129	136717	19.78 ug/L	98
52) 1,2-dibromoethane	10.98	107	130568	19.46 ug/L	99
53) chlorobenzene	11.79	112	345663	19.84 ug/L	99
54) 1,1,1,2-tetrachloroethane	11.96	131	125596	20.17 ug/L	97
55) ethylbenzene	11.97	91	642464	19.95 ug/L	97
56) m,p-xylene	12.17	106	472555	40.43 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092615.D Vial: 15
Acq On : 26 Sep 2008 3:02 pm Operator: BR
Sample : ,MSD,ME0809B07-13AMSD,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:43 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
58)	o-xylene	12.88	106	229291	20.31	ug/L	98
59)	styrene	12.94	104	372205	18.67	ug/L	91
60)	isopropylbenzene	13.55	105	594728	21.87	ug/L	99
61)	bromobenzene	14.13	156	141493	20.68	ug/L	95
62)	bromoform	13.33	173	93972	21.06	ug/L	98
64)	1,2,3-trichloropropane	14.29	75	135760	18.02	ug/L	96
65)	n-propylbenzene	14.31	91	739951	19.60	ug/L	98
66)	2-chlorotoluene	14.47	91	441912	18.96	ug/L	100
67)	4-chlorotoluene	14.67	91	516188	19.32	ug/L	100
68)	1,3,5-trimethylbenzene	14.62	105	492516	19.48	ug/L	98
70)	1,1,2,2-tetrachloroethane	14.24	83	164214	18.65	ug/L	96
71)	tert-butylbenzene	15.16	119	416039	19.35	ug/L	97
72)	sec-butylbenzene	15.52	105	621968	18.02	ug/L	99
73)	1,2,4-trimethylbenzene	15.25	105	508315	18.84	ug/L	97
74)	1,3-dichlorobenzene	15.73	146	256442	19.77	ug/L	97
75)	p-isopropyltoluene	15.76	119	535170	19.88	ug/L	100
77)	1,4-dichlorobenzene	15.87	146	256759	19.21	ug/L	98
78)	1,2-dichlorobenzene	16.45	146	246837	19.86	ug/L	99
79)	n-butylbenzene	16.40	91	531382	18.68	ug/L	97
80)	1,2-dibromo-3-chloropropan	17.62	75	37116	18.84	ug/L	99
81)	1,2,4-trichlorobenzene	18.60	180	197054	19.35	ug/L	94
82)	hexachlorobutadiene	18.76	225	105923	17.88	ug/L	97
83)	naphthalene	18.89	128	433817	18.77	ug/L	100
84)	1,2,3-trichlorobenzene	19.16	180	189171	19.81	ug/L	99

(#) = qualifier out of range (m) = manual integration

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Data File : C:\HPCHEM\1\DATA\D092608\D092615.D          Vial: 15
Acq On    : 26 Sep 2008   3:02 pm                   Operator: BR
Sample    : ,MSD,ME0809B07-13AMSD,1,                Inst    : VOA 4
Misc      : 8260+_W                                 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:43 2008            Quant Results File: VOA0818.RES

Method       : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title        : VOA ICAL 08/18/08
Last Update  : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
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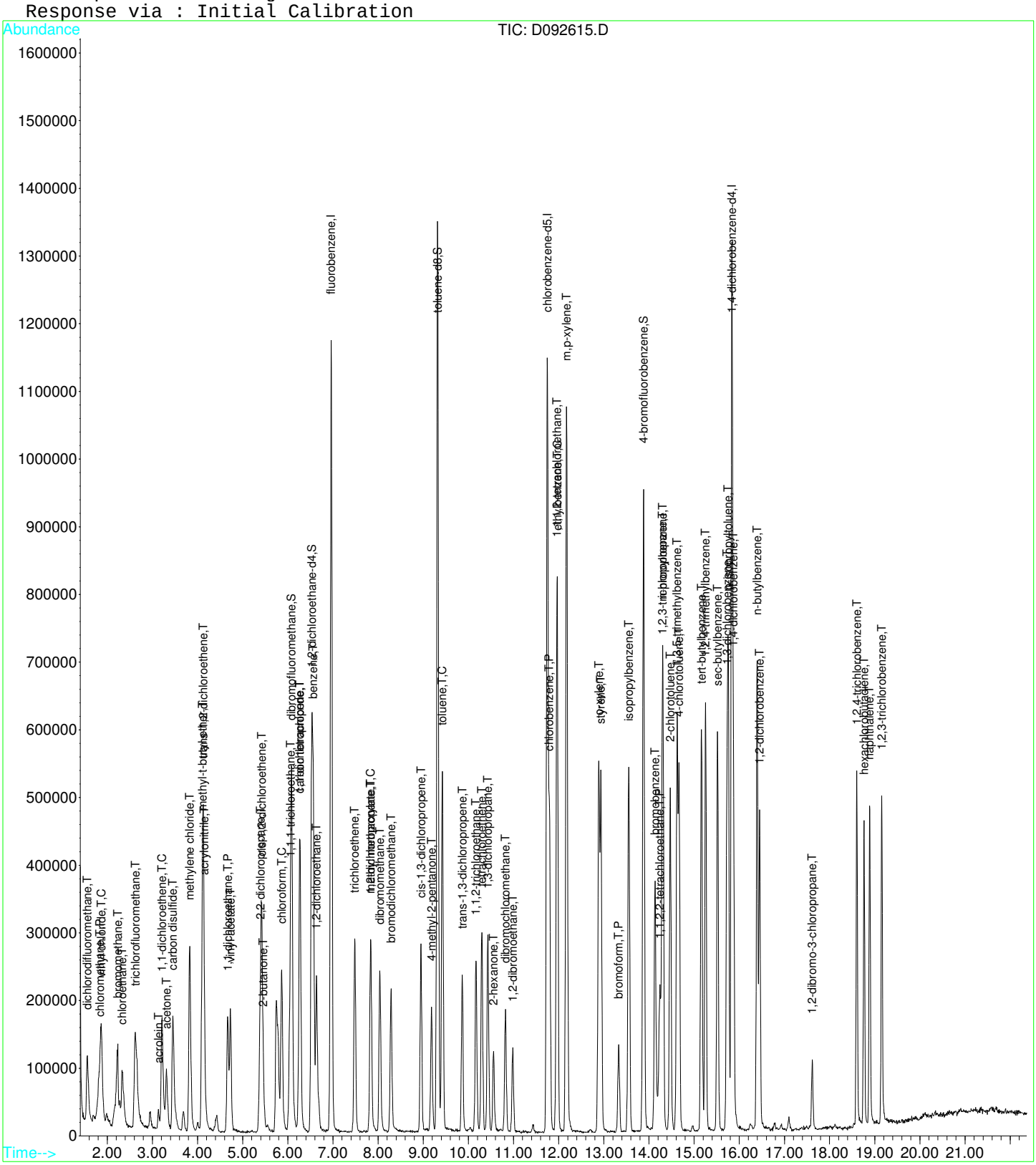


Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092606.D Vial: 6
Acq On : 26 Sep 2008 9:00 am Operator: NLT
Sample : ,SAMP,ME0809A94-17A,1,RA, Inst : VOA5
Misc : BTEX+M_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 11:09 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

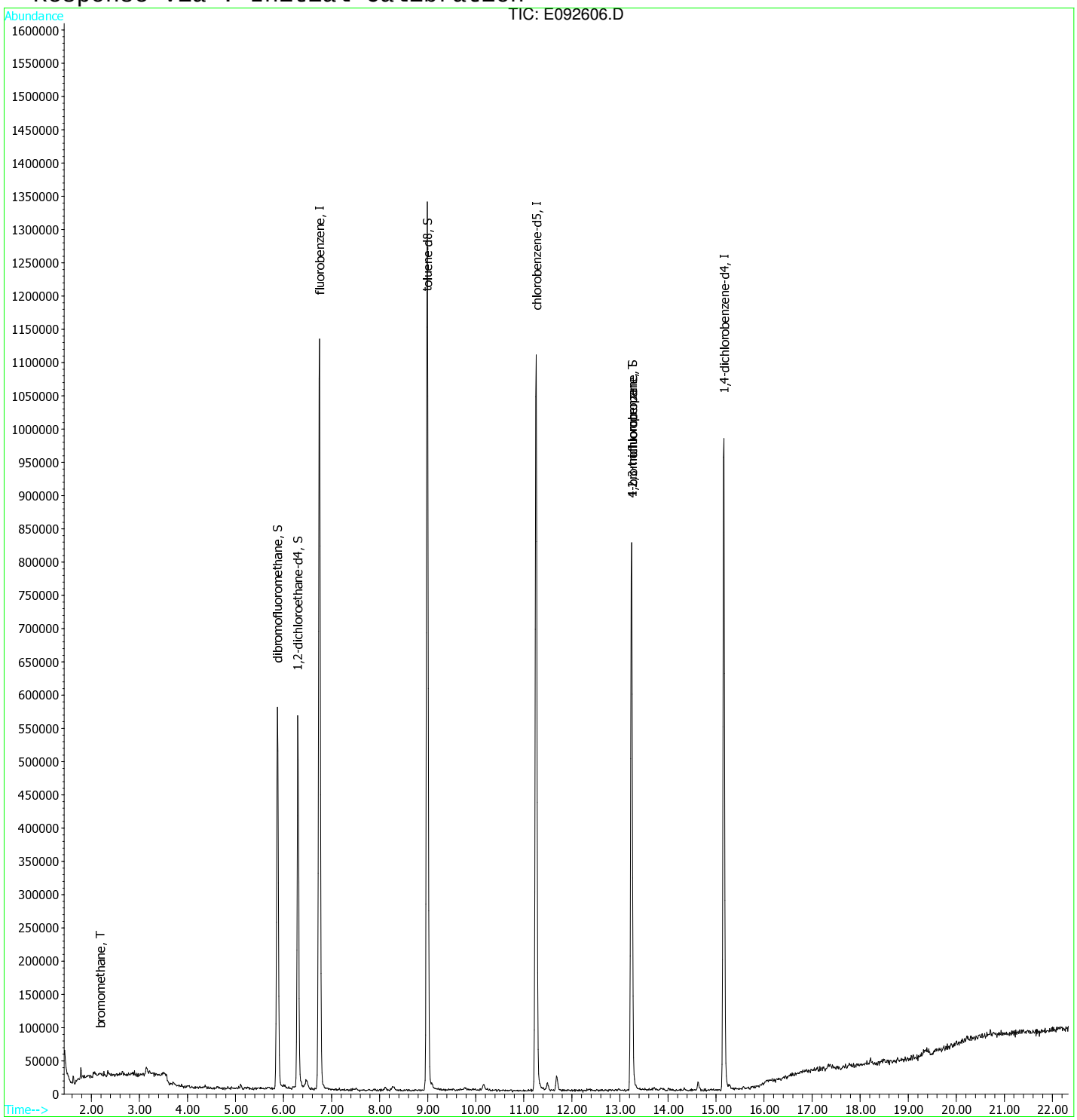
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1420633	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	1001537	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	386223	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	462670	50.99 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.30	65	466084	53.66 ug/L	-0.02
44) toluene-d8	8.99	98	1240665	52.02 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	459997	50.71 ug/L	-0.01
Target Compounds					Qvalue
6) bromomethane	2.17	94	3811	1.86 ug/L #	43
64) 1,2,3-trichloropropane	13.25	75	182459	23.92 ug/L #	48

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092606.D Vial: 6
Acq On : 26 Sep 2008 9:00 am Operator: NLT
Sample : ,SAMP,ME0809A94-17A,1,RA, Inst : VOA5
Misc : BTEX+M_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 11:09 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.74	96	1260382	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.25	117	854126	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.16	152	377350	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	401851	49.92 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.29	65	418798	54.34 ug/L	-0.03
44) toluene-d8	8.99	98	1104707	54.31 ug/L	-0.02
63) 4-bromofluorobenzene	13.24	95	420541	54.36 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	95579	25.23 ug/L	99
3) chloromethane	1.67	50	154960	24.96 ug/L	98
4) vinyl chloride	1.78	62	125411	21.41 ug/L	98
6) bromomethane	2.14	94	50374	27.65 ug/L	99
7) chloroethane	2.26	64	69041	24.22 ug/L	95
8) trichlorofluoromethane	2.55	101	147241	28.79 ug/L	99
9) acrolein	3.02	56	29180	53.10 ug/L	95
10) 1,1-dichloroethene	3.13	96	61872	21.45 ug/L	89
11) acetone	3.20	43	69867	25.37 ug/L	90
12) carbon disulfide	3.38	76	214051	24.91 ug/L	100
13) methylene chloride	3.70	84	160896	23.51 ug/L	99
14) acrylonitrile	3.99	53	78575	19.37 ug/L	95
15) trans-1,2-dichloroethene	4.03	96	107455	21.16 ug/L	92
16) methyl-t-butyl ether	4.04	73	357097	20.51 ug/L	99
17) acetonitrile	3.51	41	27179	23.18 ug/L #	82
19) 1,1-dichloroethane	4.53	63	206995	19.44 ug/L	96
20) vinyl acetate	4.60	43	352335	33.89 ug/L	100
21) cis-1,2-dichloroethene	5.25	96	124549	19.02 ug/L	93
22) 2,2-dichloropropane	5.24	77	149968	22.09 ug/L	98
23) 2-butanone	5.28	72	18568	18.73 ug/L	97
25) chloroform	5.67	83	211104	21.52 ug/L	96
27) 1,1,1-trichloroethane	5.88	97	151846	23.41 ug/L	95
29) carbon tetrachloride	6.10	117	134444	23.08 ug/L	91
31) benzene	6.36	78	416408	18.87 ug/L	99
32) 1,1-dichloropropene	6.10	75	134308	19.33 ug/L	99
33) 1,2-dichloroethane	6.39	62	190994	21.45 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) trichloroethene	7.26	95	104575	19.40 ug/L	91
36) 1,2-dichloropropane	7.54	63	114184	16.12 ug/L	85
38) dibromomethane	7.72	93	95674	19.96 ug/L	89
39) bromodichloromethane	7.97	83	162128	19.36 ug/L	97
40) 2-chloroethyl vinyl ether	8.40	63	59113	39.90 ug/L	97
42) cis-1,3-dichloropropene	8.61	75	183418	18.95 ug/L	92
43) 4-methyl-2-pentanone	8.83	43	169688	18.86 ug/L	97
45) toluene	9.09	92	259727	22.19 ug/L	90
46) 1,1,2-trichloroethane	9.72	83	96054	19.31 ug/L	96
47) 1,3-dichloropropane	9.97	76	195127	19.21 ug/L	97
48) tetrachloroethene	9.94	164	80414	22.77 ug/L	94
49) trans-1,3-dichloropropene	9.45	75	171507	21.03 ug/L	96
50) 2-hexanone	10.12	43	102367	16.54 ug/L	96
51) dibromochloromethane	10.34	129	132427	18.69 ug/L	96
52) 1,2-dibromoethane	10.49	107	141811	20.09 ug/L #	99
53) chlorobenzene	11.30	112	292602	20.83 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.44	131	105995	19.66 ug/L	87
55) ethylbenzene	11.49	91	441941	21.79 ug/L	94
56) m,p-xylene	11.69	106	354483	44.13 ug/L	94
58) o-xylene	12.34	106	168480	20.96 ug/L	90
59) styrene	12.38	104	296209	20.16 ug/L	95
60) isopropylbenzene	12.98	105	391416	23.92 ug/L	91
61) bromobenzene	13.48	156	123016	20.58 ug/L	98
62) bromoform	12.68	173	92851	19.35 ug/L	96
64) 1,2,3-trichloropropane	13.58	75	130535	20.07 ug/L #	88
65) n-propylbenzene	13.68	91	449299	21.46 ug/L	95
66) 2-chlorotoluene	13.82	91	286800	21.35 ug/L #	87
67) 4-chlorotoluene	14.01	91	323986	21.84 ug/L	92
68) 1,3,5-trimethylbenzene	14.01	105	300668	21.17 ug/L	91
70) 1,1,2,2-tetrachloroethane	13.53	83	165172	18.73 ug/L	96
71) tert-butylbenzene	14.54	119	226690	18.83 ug/L #	86
72) sec-butylbenzene	14.89	105	335196	19.68 ug/L	94
73) 1,2,4-trimethylbenzene	14.63	105	318322	20.35 ug/L	93
74) 1,3-dichlorobenzene	15.05	146	184182	19.70 ug/L	98
75) p-isopropyltoluene	15.13	119	277850	20.13 ug/L	92
77) 1,4-dichlorobenzene	15.19	146	189893	19.66 ug/L	95
78) 1,2-dichlorobenzene	15.74	146	179127	19.72 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

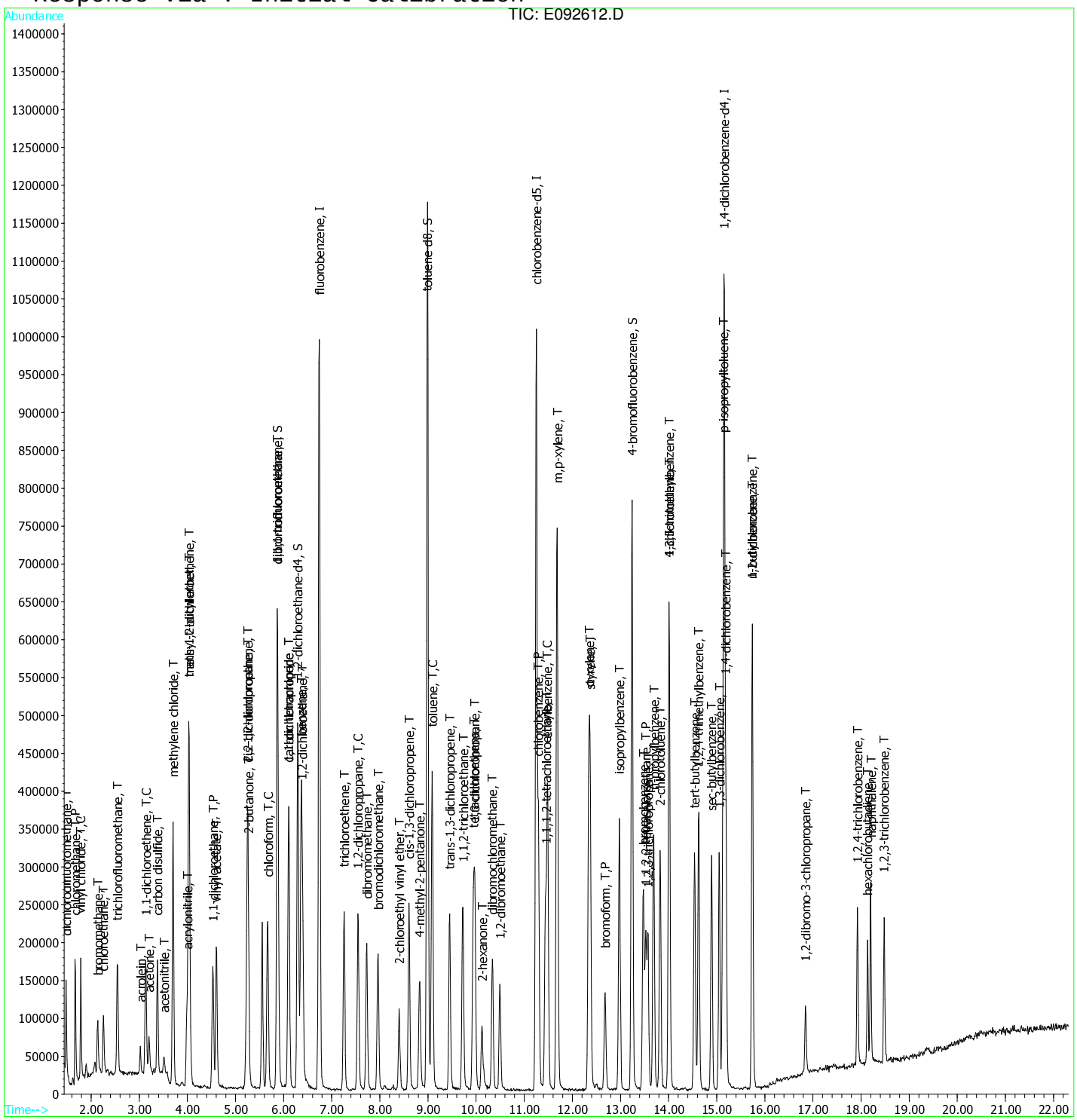
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	n-butylbenzene	15.74	91	236118	20.58 ug/L	95
80)	1,2-dibromo-3-chloropropan	16.84	75	27797	23.27 ug/L #	89
81)	1,2,4-trichlorobenzene	17.93	180	80725	20.51 ug/L	88
82)	hexachlorobutadiene	18.13	225	34507	20.73 ug/L	96
83)	naphthalene	18.20	128	228992	18.69 ug/L	100
84)	1,2,3-trichlorobenzene	18.49	180	75864	21.52 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.74	96	1255509	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.25	117	874842	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.16	152	372870	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	399382	49.80 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.30	65	424343	55.28 ug/L	-0.02
44) toluene-d8	8.98	98	1112806	53.42 ug/L	-0.02
63) 4-bromofluorobenzene	13.24	95	409373	51.67 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	101435	26.88 ug/L	99
3) chloromethane	1.67	50	162301	26.24 ug/L	99
4) vinyl chloride	1.79	62	136799	23.44 ug/L	96
6) bromomethane	2.14	94	57190	31.51 ug/L	95
7) chloroethane	2.25	64	75791	26.69 ug/L	94
8) trichlorofluoromethane	2.55	101	152736	29.98 ug/L	96
9) acrolein	3.02	56	27926	51.01 ug/L	93
10) 1,1-dichloroethene	3.14	96	64111	22.31 ug/L #	79
11) acetone	3.21	43	58571	21.35 ug/L	91
12) carbon disulfide	3.38	76	228414	26.69 ug/L	98
13) methylene chloride	3.71	84	158107	23.19 ug/L	90
14) acrylonitrile	3.98	53	74841	18.52 ug/L	94
15) trans-1,2-dichloroethene	4.03	96	111282	22.00 ug/L #	82
16) methyl-t-butyl ether	4.03	73	365842	21.09 ug/L	98
19) 1,1-dichloroethane	4.54	63	207912	19.61 ug/L	97
20) vinyl acetate	4.60	43	349410	33.74 ug/L	99
21) cis-1,2-dichloroethene	5.25	96	132742	20.35 ug/L	95
22) 2,2-dichloropropane	5.24	77	156813	23.19 ug/L	96
23) 2-butanone	5.27	72	18043	18.28 ug/L	91
25) chloroform	5.67	83	220818	22.60 ug/L	96
27) 1,1,1-trichloroethane	5.88	97	154123	23.85 ug/L	96
29) carbon tetrachloride	6.11	117	143442	24.72 ug/L	96
31) benzene	6.37	78	428938	19.52 ug/L	97
32) 1,1-dichloropropene	6.10	75	135355	19.56 ug/L	97
33) 1,2-dichloroethane	6.40	62	196641	22.17 ug/L	98
34) trichloroethene	7.25	95	110274	20.54 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	1,2-dichloropropane	7.55	63	117626	16.67 ug/L	96
37)	methyl methacrylate	7.55	41	80727	10.00 ug/L #	39
38)	dibromomethane	7.72	93	95964	20.10 ug/L	98
39)	bromodichloromethane	7.96	83	163632	19.61 ug/L	96
40)	2-chloroethyl vinyl ether	8.40	63	59310	40.18 ug/L	93
42)	cis-1,3-dichloropropene	8.60	75	179998	18.16 ug/L	98
43)	4-methyl-2-pentanone	8.83	43	161264	17.50 ug/L	98
45)	toluene	9.09	92	267084	22.27 ug/L	94
46)	1,1,2-trichloroethane	9.72	83	102156	20.05 ug/L	97
47)	1,3-dichloropropane	9.98	76	202122	19.43 ug/L	100
48)	tetrachloroethene	9.94	164	83253	23.01 ug/L	97
49)	trans-1,3-dichloropropene	9.45	75	170645	20.43 ug/L	96
50)	2-hexanone	10.12	43	101263	15.97 ug/L	93
51)	dibromochloromethane	10.34	129	140257	19.33 ug/L	97
52)	1,2-dibromoethane	10.50	107	151166	20.90 ug/L	99
53)	chlorobenzene	11.30	112	306624	21.31 ug/L	97
54)	1,1,1,2-tetrachloroethane	11.45	131	108495	19.65 ug/L	86
55)	ethylbenzene	11.48	91	453333	21.82 ug/L	99
56)	m,p-xylene	11.68	106	372939	45.33 ug/L	98
58)	o-xylene	12.34	106	173983	21.14 ug/L	92
59)	styrene	12.37	104	294585	19.57 ug/L	98
60)	isopropylbenzene	12.97	105	401388	23.95 ug/L	92
61)	bromobenzene	13.47	156	121913	19.91 ug/L	95
62)	bromoform	12.68	173	96326	19.60 ug/L	96
64)	1,2,3-trichloropropane	13.57	75	128337	19.26 ug/L	98
65)	n-propylbenzene	13.69	91	464181	21.64 ug/L	96
66)	2-chlorotoluene	13.83	91	303238	22.04 ug/L	89
67)	4-chlorotoluene	14.01	91	340285	22.39 ug/L	93
68)	1,3,5-trimethylbenzene	14.01	105	317166	21.80 ug/L	91
70)	1,1,2,2-tetrachloroethane	13.52	83	157601	18.09 ug/L	97
71)	tert-butylbenzene	14.55	119	238123	20.01 ug/L	91
72)	sec-butylbenzene	14.89	105	348849	20.73 ug/L	96
73)	1,2,4-trimethylbenzene	14.62	105	328969	21.28 ug/L	90
74)	1,3-dichlorobenzene	15.06	146	181537	19.65 ug/L	94
75)	p-isopropyltoluene	15.13	119	290876	21.33 ug/L	94
77)	1,4-dichlorobenzene	15.20	146	192211	20.14 ug/L	97
78)	1,2-dichlorobenzene	15.74	146	183528	20.45 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

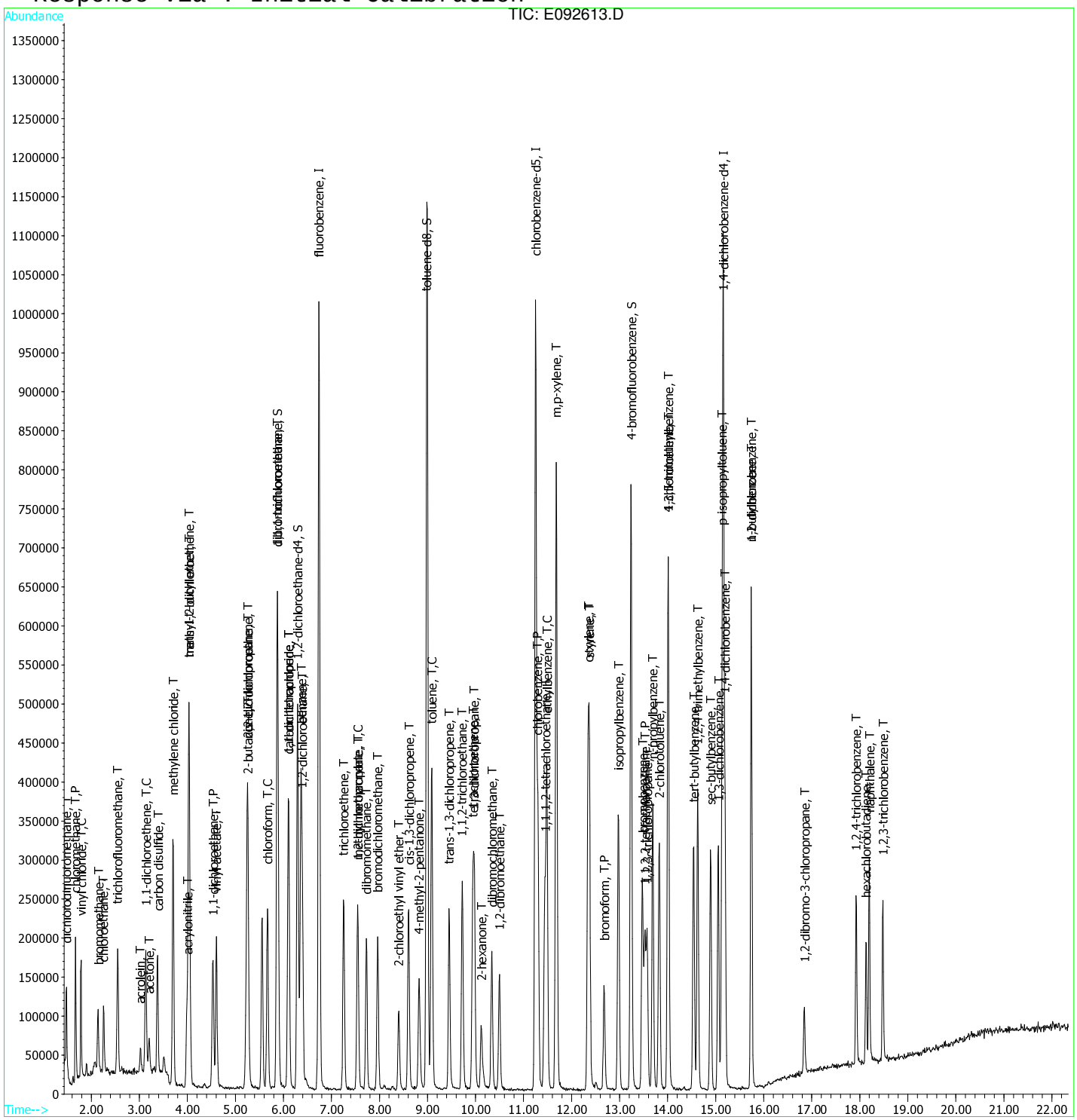
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	n-butylbenzene	15.74	91	248034	21.88 ug/L	93
80)	1,2-dibromo-3-chloropropan	16.84	75	25569	21.66 ug/L	93
81)	1,2,4-trichlorobenzene	17.92	180	86609	22.27 ug/L	93
82)	hexachlorobutadiene	18.14	225	36001	21.89 ug/L	96
83)	naphthalene	18.20	128	238380	19.69 ug/L	100
84)	1,2,3-trichlorobenzene	18.48	180	80724	23.18 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

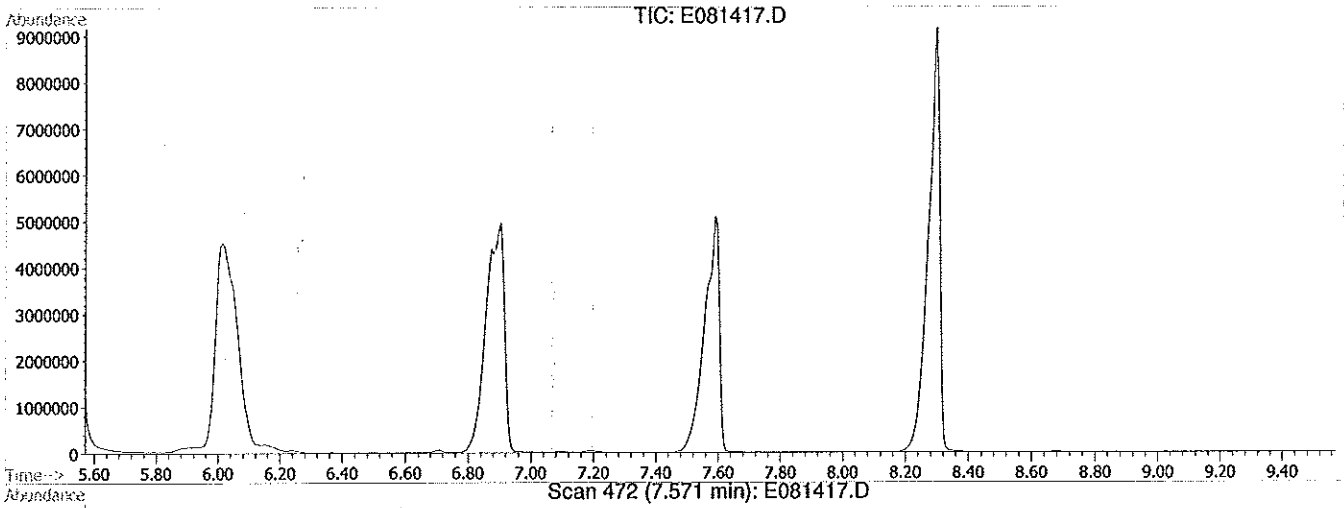
Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration

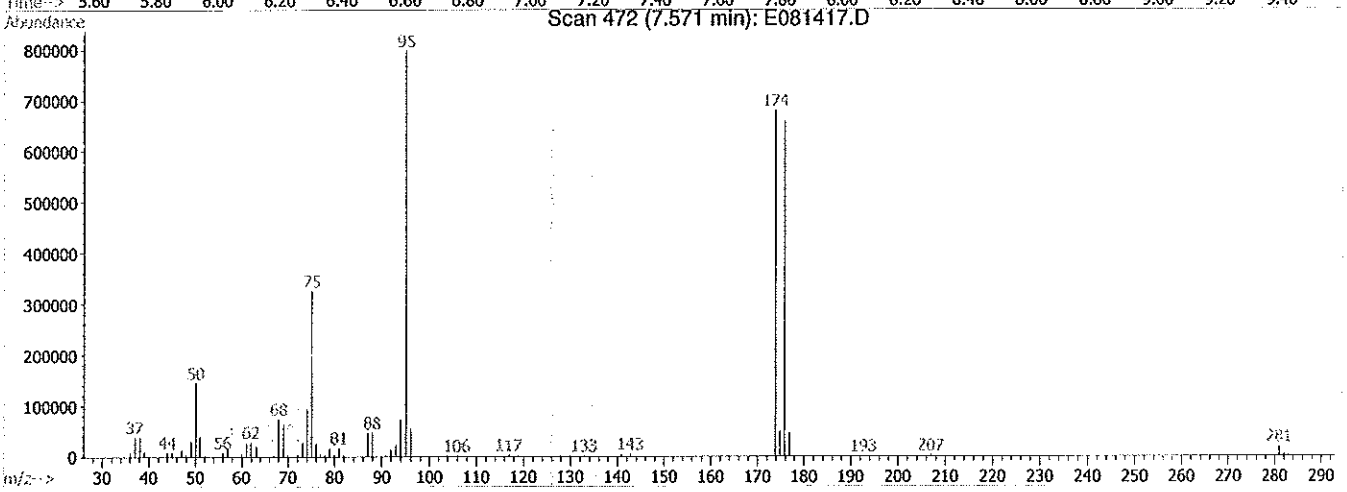


TUNING RAW DATA

BFB

Data File : C:\HPCHEM\4\DATA\E081408\E081417.D Vial: 1
Acq On : 14 Aug 2008 6:50 pm Operator: BR
Sample : ,tune,bfbtune,1, Inst : VOA5
Misc : bfb Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\4\METHODS\SOIL0814.M (RTE Integrator)
Title : Soil ICAL 08/14/08-Misc Included





Spectrum Information: Scan 472

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	146176	PASS
75	95	30	60	40.9	326272	PASS
95	95	100	100	100.0	798016	PASS
96	95	5	9	6.9	54960	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	85.2	679744	PASS
175	174	5	9	7.3	49528	PASS
176	174	95	101	97.0	659520	PASS
177	176	5	9	7.1	46704	PASS

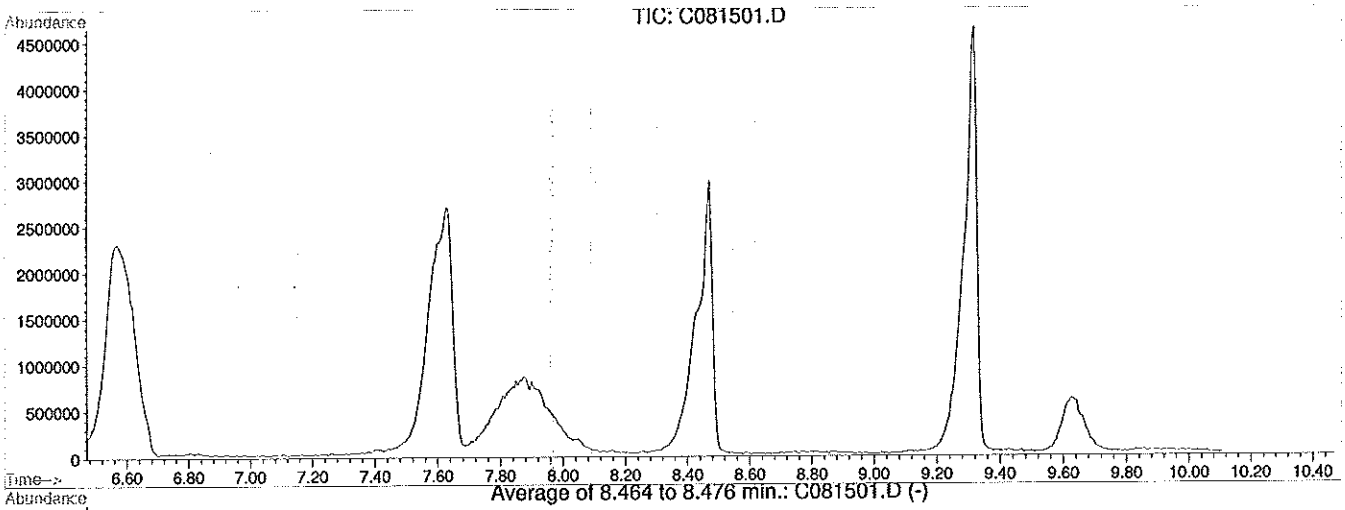
E081417.D SOIL0814.M Thu Aug 14 19:02:02 2008

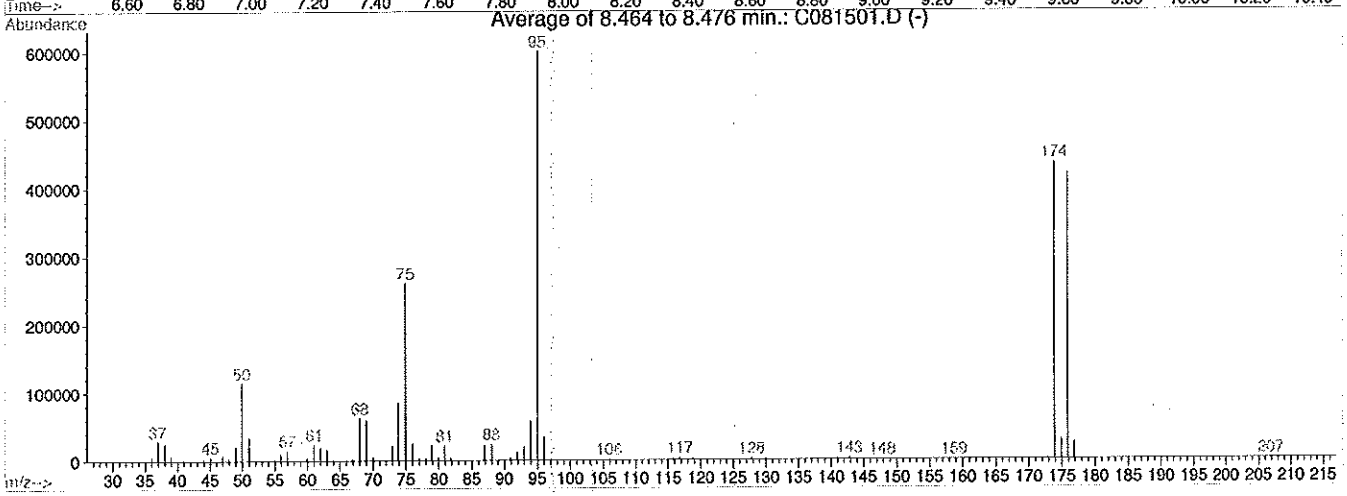
JN 8/14/08
08/18/08

BFB

Data File : C:\HPCHEM\3\DATA\C081508\C081501.D
Acq On : 15 Aug 2008 8:32 am
Sample : ,TUNE,BFB TUNE,1,
Misc : BFB
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included

Vial: 1
Operator: BR
Inst : VOA #3
Multiplr: 1.00





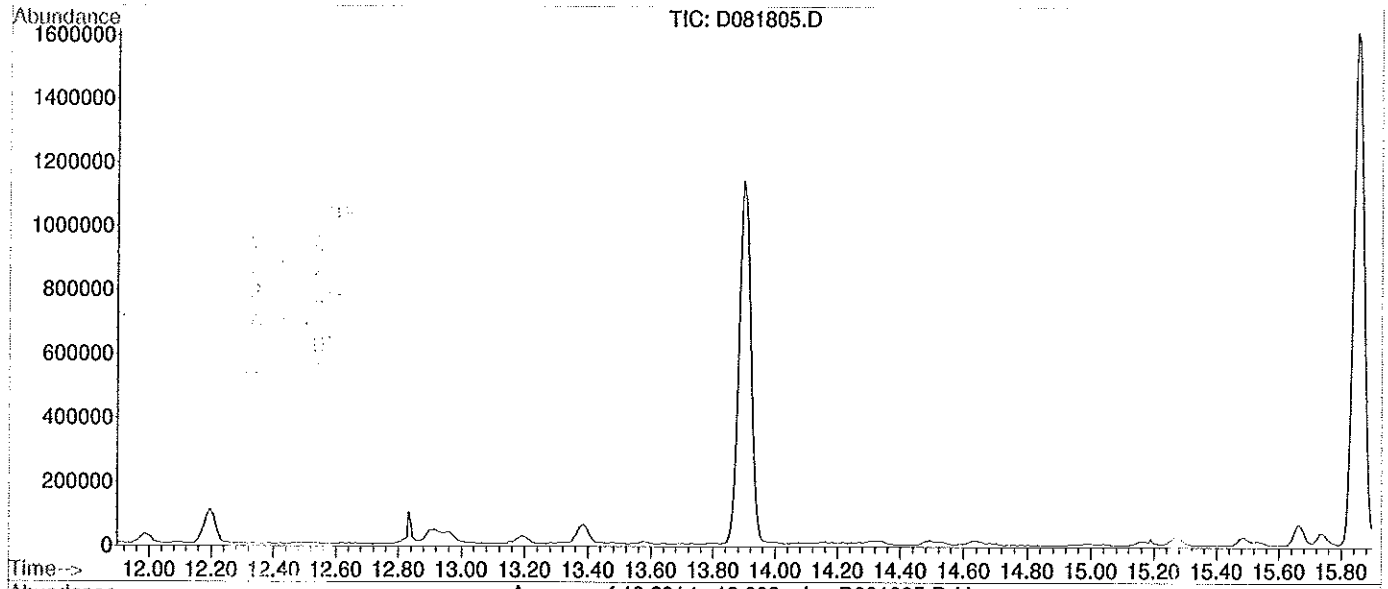
Spectrum Information: Average of 8.464 to 8.476 min.

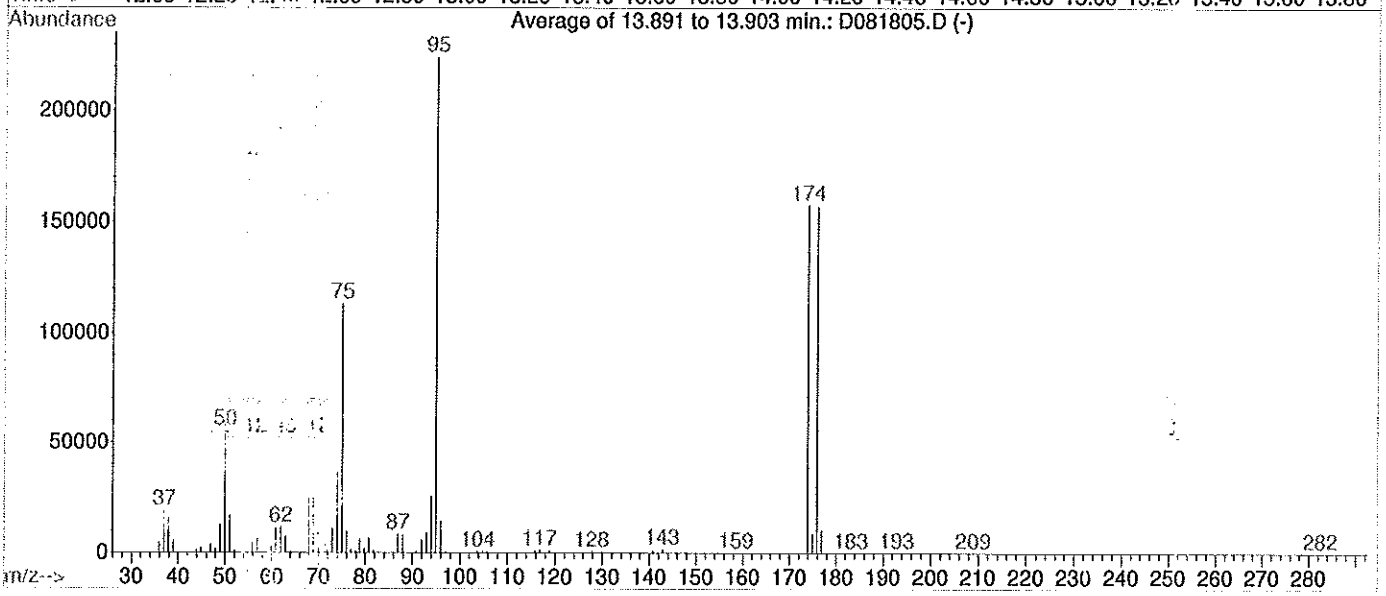
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	115320	PASS
75	95	30	60	43.4	261262	PASS
95	95	100	100	100.0	601657	PASS
96	95	5	9	5.7	34549	PASS
173	174	0.00	2	0.3	1505	PASS
174	95	50	250	72.5	436217	PASS
175	174	5	9	6.7	29309	PASS
176	174	95	101	96.3	420128	PASS
177	176	5	9	5.9	24744	PASS

C081501.D VOA0815.M Mon Aug 18 12:22:24 2008 VOA8 8/18/08 8/18/08

BFB

Data File : C:\HPCHEM\1\DATA\d081808\D081805.D Vial: 5
Acq On : 18 Aug 2008 2:16 pm Operator: jdb
Sample : ,TUNE,BFB TUNE,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\VOA0603.M (RTE Integrator)
Title : VOA ICAL 06/03/08





AutoFind: Scans 2078, 2079, 2080; Background Corrected with Scan 2065

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	55661	PASS
75	95	30	60	50.5	113336	PASS
95	95	100	100	100.0	224405	PASS
96	95	5	9	6.4	14426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	70.3	157696	PASS
175	174	5	9	5.7	8942	PASS
176	174	95	101	99.5	156928	PASS
177	176	5	9	6.6	10314	PASS

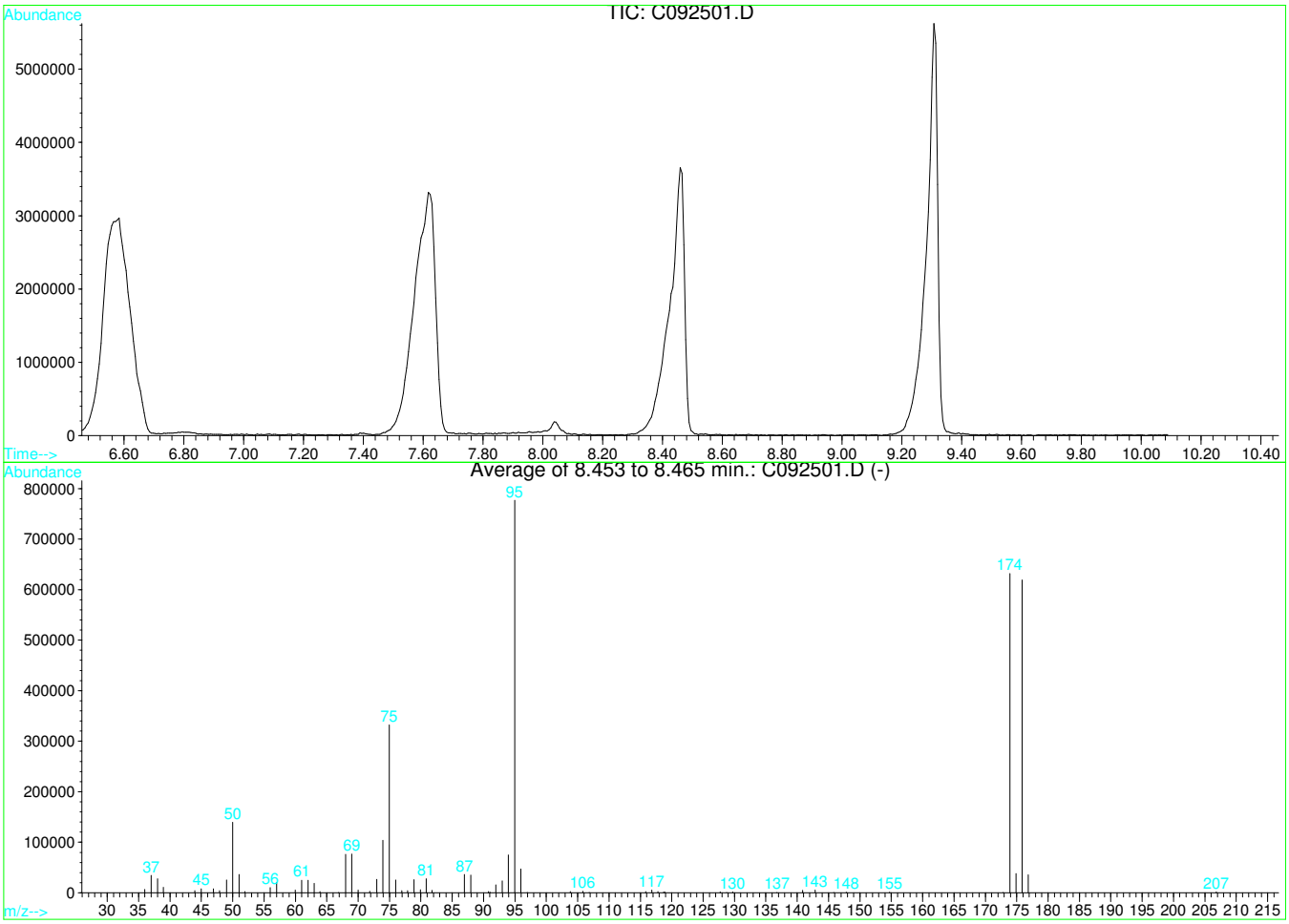
8/18/08
MLT

D081805.D VOA0603.M Mon Aug 18 14:32:37 2008 VOA4

8/18/08

BFB

Data File : C:\HPCHEM\3\DATA\C092508\C092501.D Vial: 1
Acq On : 25 Sep 2008 7:37 am Operator: MT
Sample : ,TUNE,BFB TUNE,1, Inst : VOA #3
Misc : BFB Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included



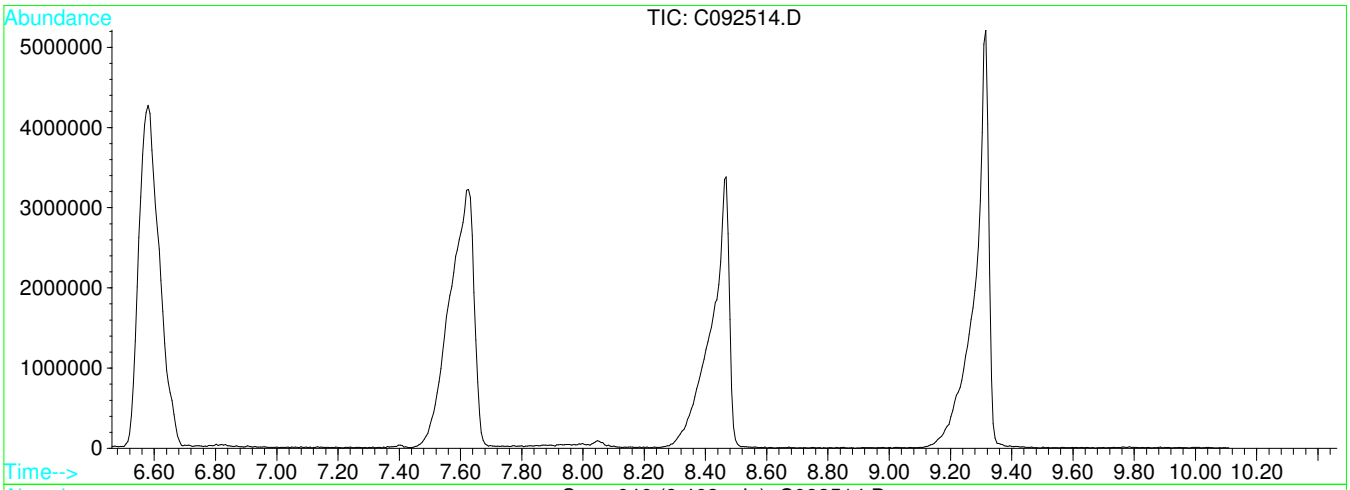
AutoFind: Scans 644, 645, 646; Background Corrected with Scan 613

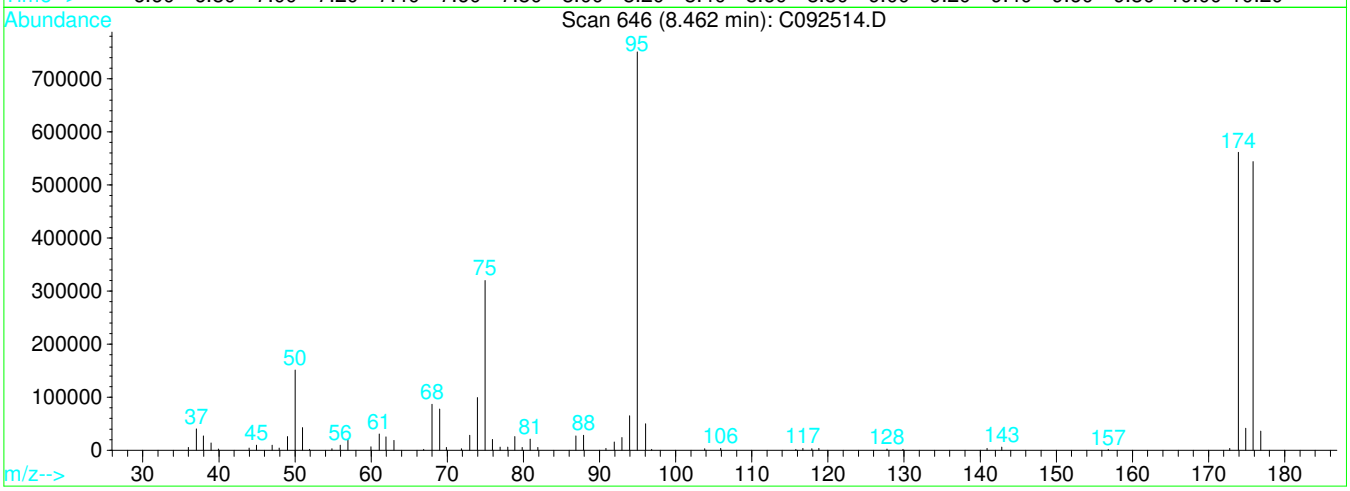
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	139483	PASS
75	95	30	60	42.8	332075	PASS
95	95	100	100	100.0	776661	PASS
96	95	5	9	6.1	47285	PASS
173	174	0.00	2	0.1	869	PASS
174	95	50	250	81.3	631659	PASS
175	174	5	9	6.1	38355	PASS
176	174	95	101	98.0	619285	PASS
177	176	5	9	5.7	35560	PASS

C092501.D VOA0815.M Thu Sep 25 07:48:59 2008 VOA8

BFB

Data File : C:\HPCHEM\3\DATA\C092508\C092514.D Vial: 14
Acq On : 25 Sep 2008 2:36 pm Operator: MT
Sample : ,TUNE,BFB TUNE,1, Inst : VOA #3
Misc : BFB Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included





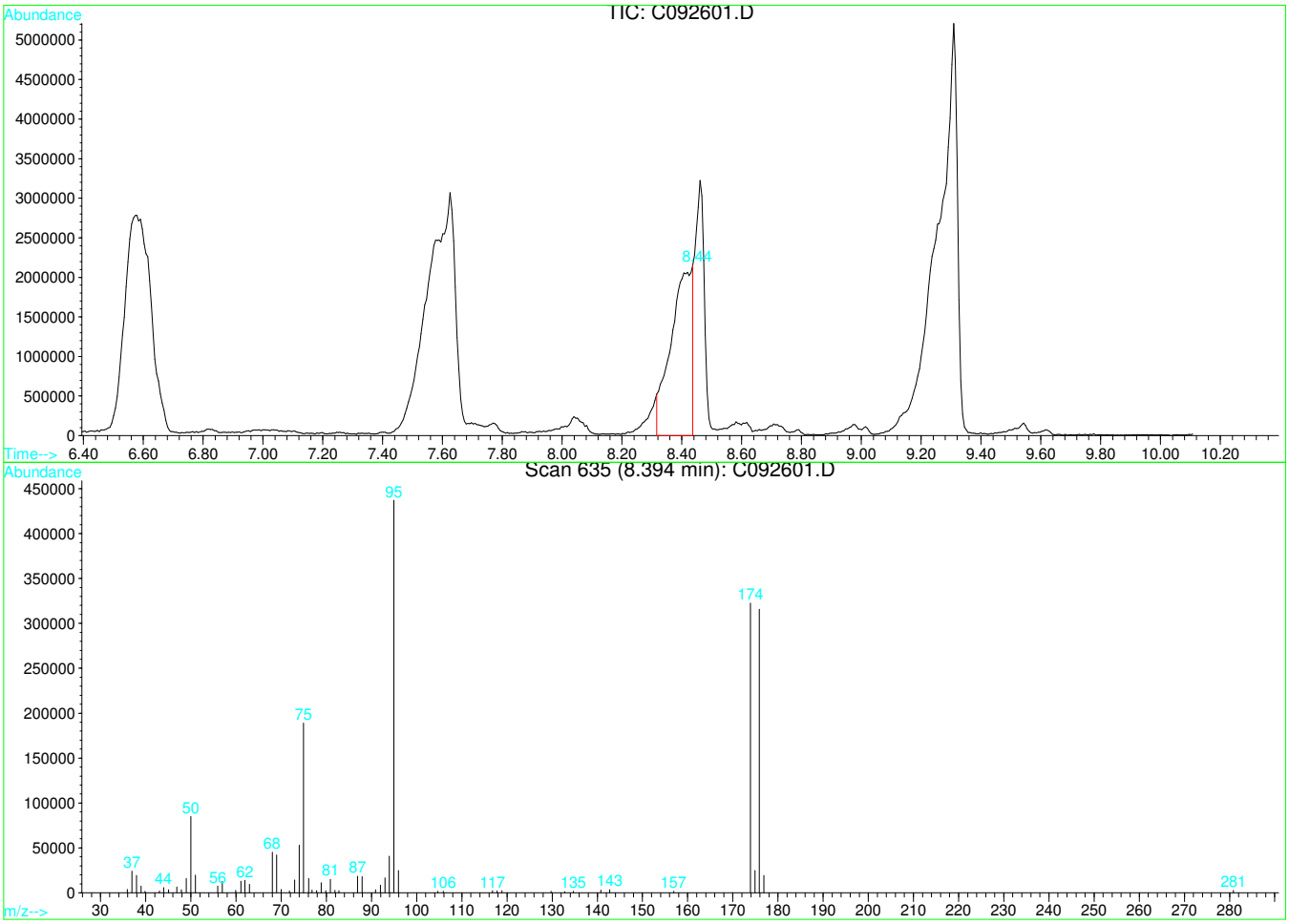
Spectrum Information: Scan 646

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	151168	PASS
75	95	30	60	42.7	320128	PASS
95	95	100	100	100.0	750528	PASS
96	95	5	9	6.6	49896	PASS
173	174	0.00	2	0.6	3478	PASS
174	95	50	250	74.8	561472	PASS
175	174	5	9	7.4	41488	PASS
176	174	95	101	96.9	544256	PASS
177	176	5	9	6.6	36168	PASS

C092514.D VOA0815.M Thu Sep 25 14:56:18 2008 VOA8

BFB

Data File : C:\HPCHEM\3\DATA\C092608\C092601.D Vial: 1
Acq On : 26 Sep 2008 6:28 am Operator: NLT
Sample : ,TUNE,BFB TUNE,1, Inst : VOA #3
Misc : BFB Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included



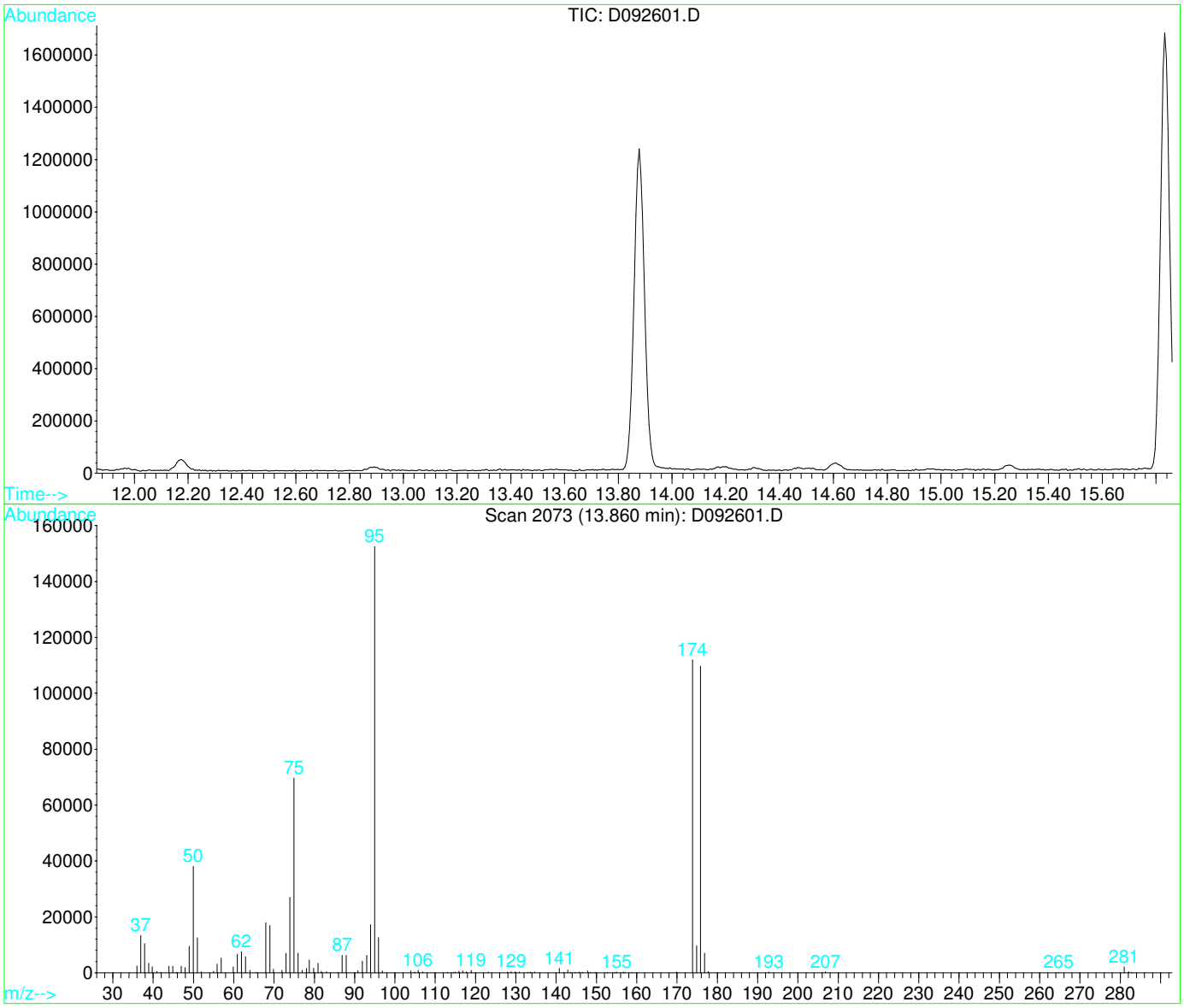
Spectrum Information: Scan 635

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	85072	PASS
75	95	30	60	43.2	188928	PASS
95	95	100	100	100.0	436992	PASS
96	95	5	9	5.6	24680	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	73.8	322496	PASS
175	174	5	9	7.7	24856	PASS
176	174	95	101	97.9	315776	PASS
177	176	5	9	6.1	19368	PASS

C092601.D VOA0815.M Fri Sep 26 06:44:12 2008 VOA8

BFB

```
Data File : C:\HPCHEM\1\DATA\D092608\D092601.D          Vial: 1
Acq On    : 26 Sep 2008   6:25 am                    Operator: BR
Sample    : ,TUNE,BFB TUNE,1,                        Inst    : VOA 4
Misc      : BFB                                      Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title     : VOA ICAL 08/18/08
```



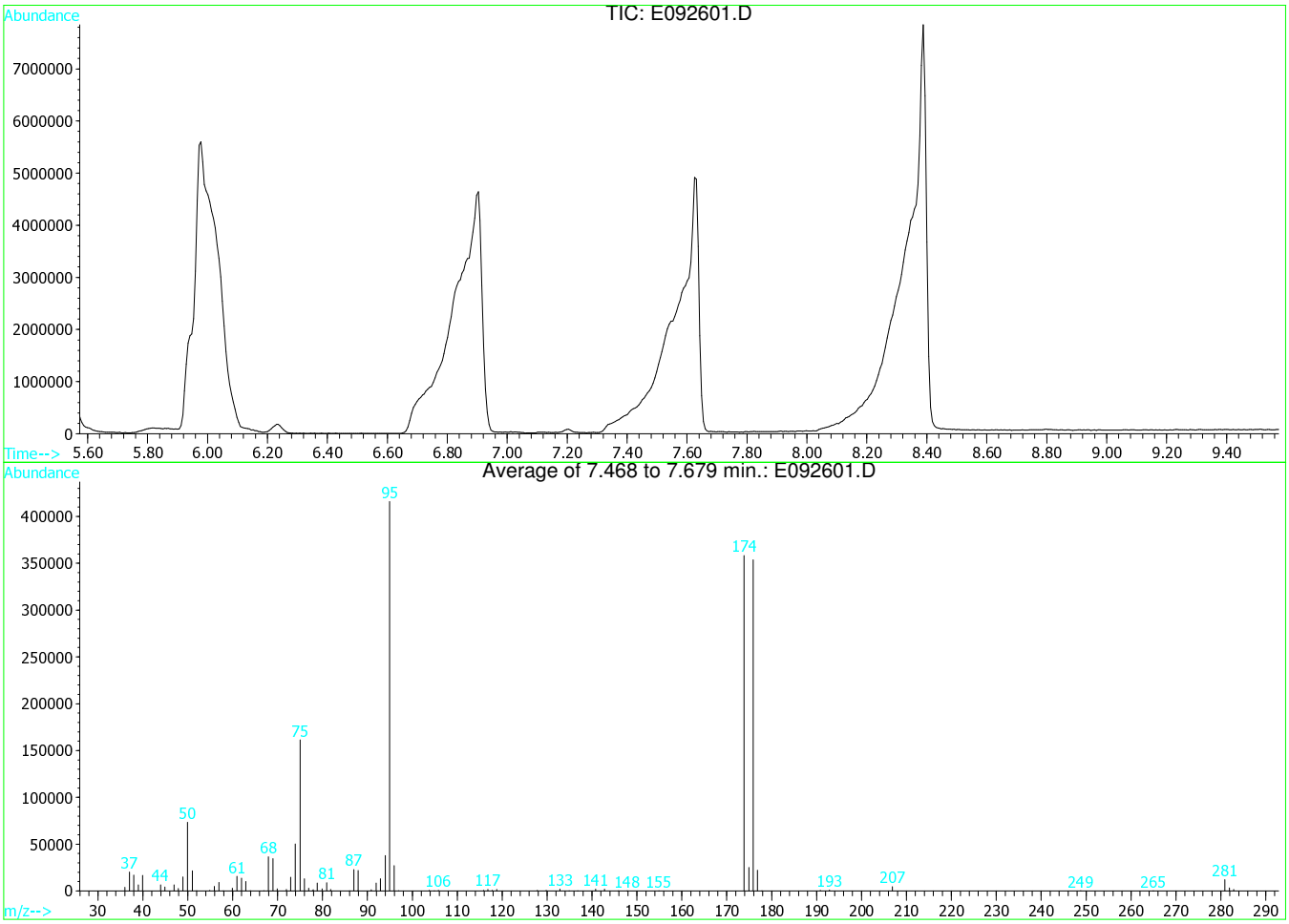
Spectrum Information: Scan 2073

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	38096	PASS
75	95	30	60	45.7	69688	PASS
95	95	100	100	100.0	152512	PASS
96	95	5	9	8.3	12597	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	73.4	111936	PASS
175	174	5	9	8.7	9709	PASS
176	174	95	101	98.0	109752	PASS
177	176	5	9	6.4	7064	PASS

D092601.D VOA0818.M Fri Sep 26 06:52:02 2008 VOA4

BFB

Data File : C:\HPCHEM\4\DATA\E092608\E092601.D Vial: 1
Acq On : 26 Sep 2008 6:04 am Operator: NLT
Sample : ,TUNE,BFB TUNE,1, Inst : VOA5
Misc : BFB Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included



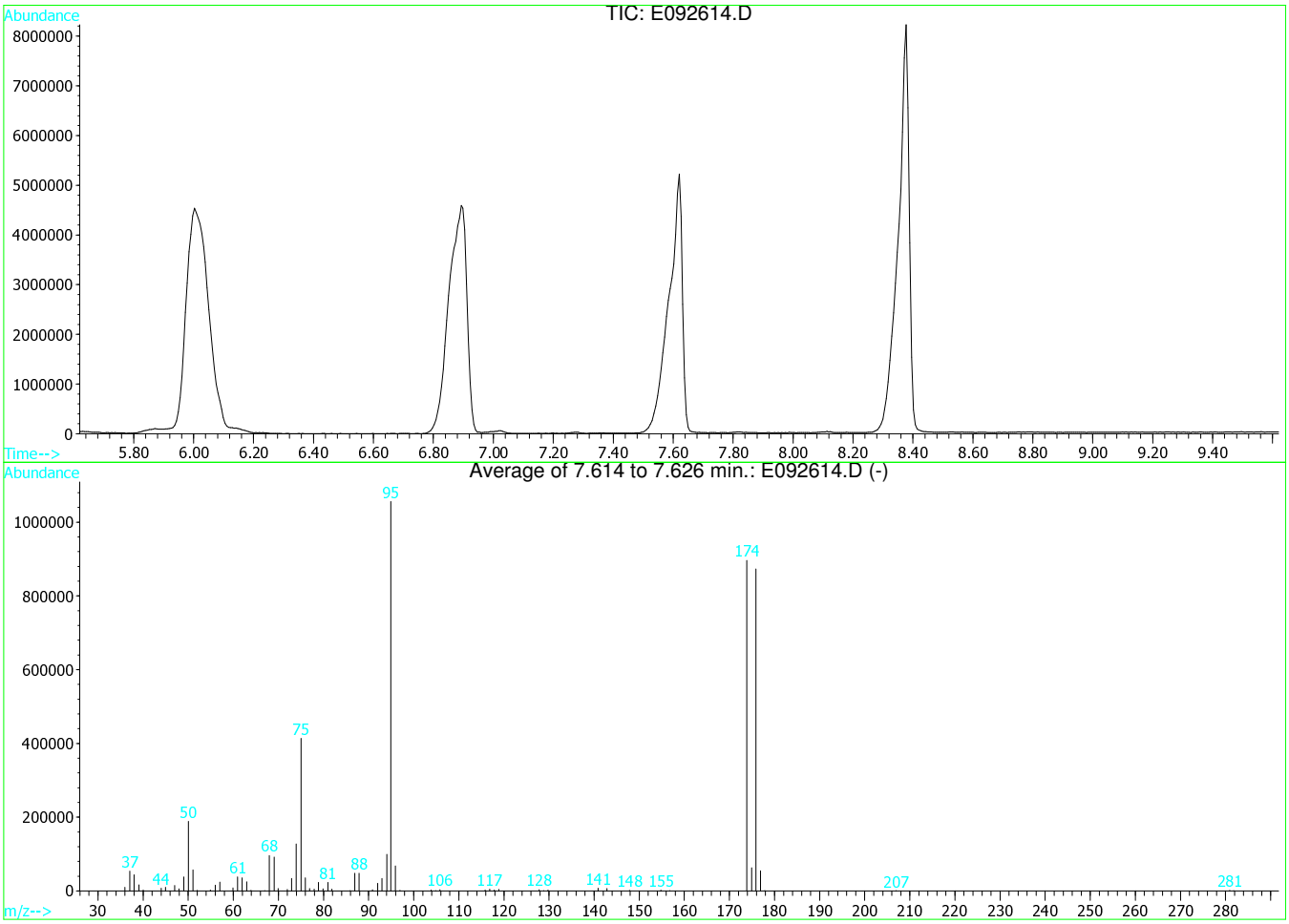
Spectrum Information: Average of 7.468 to 7.679 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	73452	PASS
75	95	30	60	38.8	161292	PASS
95	95	100	100	100.0	416059	PASS
96	95	5	9	6.5	27179	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	86.1	358315	PASS
175	174	5	9	7.0	25219	PASS
176	174	95	101	98.7	353719	PASS
177	176	5	9	6.2	22104	PASS

E092601.D WTR0814.M Fri Sep 26 06:35:02 2008

BFB

Data File : C:\HPCHEM\4\DATA\E092608\E092614.D Vial: 14
Acq On : 26 Sep 2008 2:31 pm Operator: BR
Sample : ,TUNE,BFB TUNE,1, Inst : VOA5
Misc : BFB Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included



AutoFind: Scans 480, 481, 482; Background Corrected with Scan 455

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	189035	PASS
75	95	30	60	39.2	413824	PASS
95	95	100	100	100.0	1056192	PASS
96	95	5	9	6.4	67557	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	84.9	896619	PASS
175	174	5	9	7.0	62869	PASS
176	174	95	101	97.4	872917	PASS
177	176	5	9	6.2	54347	PASS

E092614.D WTR0814.M Fri Sep 26 14:50:00 2008

INITIAL CALIBRATION RAW DATA

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration

Avg %RSD = 7.78156

Calibration Files

				70	= E081422.D
5	=E081418.D	10	=E081419.D	20	=E081420.D
50	=E081421.D	100	=E081423.D	200	=E081424.D

		Compound	5	10	20	50	100	200	Avg	%RSD
1)	I	fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)	T	dichlorodifluoromet	0.162	0.177	0.129	0.151	0.146	0.139	0.150	10.30
3)	T,P	chloromethane	0.280	0.251	0.218	0.235	0.248	0.244	0.246	7.55
4)	T,C	vinyl chloride	0.269	0.247	0.197	0.225	0.226	0.233	0.232	9.53
5)	T	1,3-butadiene	0.240	0.209	0.168	0.190	0.191	0.184	0.196	11.63
6)	T	bromomethane	0.106	0.102	0.077	0.042	pgl=70		0.072	45.62
7)	T	chloroethane	0.148	0.123	0.102	0.104	0.100	pgl=100	0.113	16.86
8)	T	trichlorofluorometh	0.220	0.228	0.188	0.202	0.196	0.187	0.203	7.56
9)	T	acrolein	0.021	0.021	0.020	0.023	0.024	0.023	0.022	6.79
10)	T,C	1,1-dichloroethene	0.126	0.137	0.096	0.111	0.112	0.109	0.114	11.58
11)	T	acetone	pgl=50		0.128	0.112	0.106	0.094	0.109	11.30
12)	T	carbon disulfide	0.391	0.385	0.308	0.332	0.326	0.323	0.341	9.60
13)	T	methylene chloride	pgl=10	0.313	0.256	0.269	0.264	0.262	0.272	7.69
14)	T	acrylonitrile	0.143	0.163	0.152	0.174	0.166	0.156	0.161	7.09
15)	T	trans-1,2-dichloroe	0.215	0.219	0.182	0.201	0.199	0.195	0.201	6.02
16)	T	methyl-t-butyl ethe	0.620	0.678	0.646	0.733	0.729	0.715	0.691	6.36
17)	T	acetonitrile	0.044	0.046	0.044	0.048	0.047	0.048	0.047	3.65
18)	T	hexane	0.356	0.271	0.231	0.253	0.240	0.241	0.264	16.18
19)	T,P	1,1-dichloroethane	0.417	0.436	0.385	0.432	0.428	0.431	0.422	4.11
20)	T	vinyl acetate	0.380	0.392	0.377	0.436	0.430	0.448	0.412	7.02
21)	T	cis-1,2-dichloroeth	0.260	0.266	0.239	0.266	0.263	0.262	0.260	3.56
22)	T	2,2-dichloropropane	0.291	0.301	0.254	0.271	0.255	0.254	0.269	7.23
23)	T	2-butanone	0.038	0.037	0.036	0.041	0.041	0.042	0.039	6.08
24)	T	methyl acrylate	0.319	0.344	0.351	0.401	0.396	0.398	0.372	8.99
25)	T,C	chloroform	0.361	0.404	0.364	0.400	0.396	0.399	0.389	4.66
26)	S	dibromofluoromethan	0.317	0.318	0.319	0.330	0.319	0.311	0.319	1.84
27)	T	1,1,1-trichloroetha	0.270	0.279	0.238	0.260	0.247	0.250	0.257	5.41
28)	T	cyclohexane	0.388	0.381	0.317	0.347	0.332	0.329	0.348	7.75
29)	T	carbon tetrachlorid	0.235	0.256	0.215	0.232	0.225	0.226	0.231	5.55
30)	S	1,2-dichloroethane-	0.298	0.305	0.303	0.316	0.306	0.296	0.306	2.58
31)	T	benzene	0.961	0.914	0.802	0.872	0.856	0.865	0.875	5.70
32)	T	1,1-dichloropropene	0.318	0.304	0.242	0.272	0.261	0.266	0.276	9.50
33)	T	1,2-dichloroethane	0.324	0.344	0.336	0.377	0.367	0.362	0.353	5.40
34)	T	trichloroethene	0.226	0.227	0.195	0.211	0.211	0.214	0.214	5.05
35)	T	ethyl acrylate	0.405	0.464	0.499	0.560	0.550	0.560	0.511	11.47
36)	T,C	1,2-dichloropropane	0.265	0.277	0.255	0.290	0.295	0.299	0.281	5.77
37)	T	methyl methacrylate	0.259	0.305	0.309	0.343	0.343	0.347	0.321	10.09
38)	T	dibromomethane	0.166	0.181	0.181	0.204	0.199	0.200	0.190	7.51
39)	T	bromodichloromethan	0.309	0.309	0.311	0.352	0.350	0.354	0.332	6.48

8/15/08

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration

Calibration Files
5 =E081418.D 10 =E081419.D 20 =E081420.D
50 =E081421.D 100 =E081423.D 200 =E081424.D

		Compound	5	10	20	50	100	200	Avg	%RSD
40)	T	2-chloroethyl vinyl pyl-ro	0.049	0.048	0.061	0.064	0.065	0.059		14.10
41)	I	chlorobenzene-d5	----------ISTD----------							
42)	T	cis-1,3-dichloropro	0.539	0.551	0.519	0.580	0.587	0.592	0.567	5.36
43)	T	4-methyl-2-pentanon	0.448	0.505	0.494	0.562	0.559	0.566	0.527	8.50
44)	S	toluene-d8	1.193	1.185	1.193	1.200	1.194	1.164	1.191	1.14
45)	T,C	toluene	0.691	0.730	0.634	0.687	0.668	0.683	0.685	4.35
46)	T	1,1,2-trichloroetha	0.260	0.272	0.273	0.313	0.304	0.312	0.291	7.57
47)	T	1,3-dichloropropane	0.525	0.577	0.563	0.616	0.627	0.627	0.595	6.77
48)	T	tetrachloroethene	0.227	0.222	0.184	0.204	0.200	0.202	0.207	6.90
49)	T	trans-1,3-dichlorop	0.414	0.454	0.442	0.508	0.506	0.512	0.477	8.36
50)	T	2-hexanone	0.299	0.312	0.320	0.397	0.402	0.409	0.362	13.63
51)	T	dibromochloromethan	0.361	0.376	0.376	0.443	0.451	0.455	0.415	9.94
52)	T	1,2-dibromoethane	0.354	0.397	0.397	0.444	0.433	0.434	0.413	7.85
53)	T,P	chlorobenzene	0.822	0.845	0.760	0.832	0.834	0.828	0.822	3.45
54)	T	1,1,1,2-tetrachloro	0.281	0.298	0.292	0.326	0.334	0.345	0.316	7.81
55)	T,C	ethylbenzene	1.226	1.231	1.086	1.193	1.193	1.184	1.187	4.04
56)	T	m,p-xylene	0.493	0.481	0.430	0.480	0.468	0.463	0.470	4.25
57)	T	butyl acrylate	0.784	0.874	0.947	1.079	1.085	1.047	0.985	12.16
58)	T	o-xylene	0.478	0.473	0.425	0.485	0.477	0.471	0.470	4.38
59)	T	styrene	0.811	0.834	0.793	0.898	0.884	0.892	0.860	5.45
60)	T	isopropylbenzene	1.013	0.977	0.860	0.982	0.945	0.954	0.958	5.06
61)	T	bromobenzene	0.331	0.330	0.313	0.364	0.369	0.372	0.350	7.01
62)	T,P	bromoform	0.211	0.250	0.255	0.301	0.320	0.322	0.281	15.02
63)	S	4-bromofluorobenzen	0.435	0.436	0.450	0.461	0.463	0.455	0.453	2.97
64)	T	1,2,3-trichloroprop	0.321	0.358	0.358	0.411	0.408	0.402	0.381	9.29
65)	T	n-propylbenzene	1.297	1.245	1.085	1.234	1.218	1.238	1.226	5.47
66)	T	2-chlorotoluene	0.797	0.784	0.711	0.794	0.811	0.797	0.786	4.41
67)	T	4-chlorotoluene	0.872	0.864	0.785	0.892	0.889	0.875	0.869	4.49
68)	T	1,3,5-trimethylbenz	0.863	0.837	0.737	0.857	0.840	0.830	0.831	5.24
69)	I	1,4-dichlorobenzene-d	----------ISTD----------							
70)	T,P	1,1,2,2-tetrachloro	1.024	1.158	1.118	1.214	1.206	1.243	1.168	6.54
71)	T	tert-butylbenzene	1.721	1.754	1.449	1.612	1.489	1.583	1.595	7.03
72)	T	sec-butylbenzene	2.537	2.453	2.042	2.229	2.107	2.191	2.257	7.90
73)	T	1,2,4-trimethylbenz	2.221	2.157	1.898	2.076	1.980	2.102	2.073	5.19
74)	T	1,3-dichlorobenzene	1.238	1.256	1.133	1.265	1.223	1.299	1.239	4.24
75)	T	p-isopropyltoluene	2.050	1.891	1.640	1.833	1.742	1.803	1.829	6.94
76)	T	dicyclopentadiene	3.314	3.214	2.811	2.916	2.763	2.801	2.957	7.35
77)	T	1,4-dichlorobenzene	1.322	1.328	1.171	1.294	1.263	1.309	1.280	4.20

(#) = Out of Range ### Number of calibration levels exceeded format ###

8/15/08

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration

Calibration Files
5 =E081418.D 10 =E081419.D 20 =E081420.D
50 =E081421.D 100 =E081423.D 200 =E081424.D

		Compound	5	10	20	50	100	200	Avg	%RSD
78)	T	1,2-dichlorobenzene	1.189	1.188	1.123	1.241	1.197	1.246	1.204	3.64
79)	T	n-butylbenzene	1.723	1.635	1.365	1.496	1.440	1.463	1.520	7.99
80)	T	1,2-dibromo-3-chlor	0.168	0.147	0.136	0.170	0.165	0.164	0.158	7.84
81)	T	1,2,4-trichlorobenz	0.550	0.499	0.462	0.520	0.527	0.560	0.522	6.31
82)	T	hexachlorobutadiene	0.281	0.237	0.192	0.210	0.205	0.212	0.221	13.55
83)	T	naphthalene	1.510	1.509	1.428	1.686	1.715	1.789	1.623	8.50
84)	T	1,2,3-trichlorobenz	0.477	0.467	0.406	0.471	0.469	0.496	0.467	6.16
85)	T	2-Methylnaphthalene	0.417	0.437	0.443	0.495	0.542	0.577	0.494	12.72

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2464145	50.00 ug/L	0.01
41) chlorobenzene-d5	11.28	117	1799952	50.00 ug/L	0.01
69) 1,4-dichlorobenzene-d4	15.18	152	753535	50.00 ug/L	0.01
System Monitoring Compounds					
26) dibromofluoromethane	5.91	113	780493	56.04 ug/L	0.01
30) 1,2-dichloroethane-d4	6.33	65	733572	61.24 ug/L	0.01
44) toluene-d8	9.02	98	2147539	47.93 ug/L	0.01
63) 4-bromofluorobenzene	13.27	95	783552	47.65 ug/L	0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	39971	3.29 ug/L	99
3) chloromethane	1.70	50	69002	4.40 ug/L	97
4) vinyl chloride	1.82	62	66325	4.71 ug/L	99
5) 1,3-butadiene	1.86	39	59191	8.73 ug/L	96
6) bromomethane	2.18	94	26047	5.09 ug/L	94
7) chloroethane	2.30	64	36425	5.45 ug/L	93
8) trichlorofluoromethane	2.58	101	54118	4.82 ug/L	97
9) acrolein	3.06	56	50572	91.56 ug/L	85
10) 1,1-dichloroethene	3.17	96	30973	4.72 ug/L	88
11) acetone	3.23	43	58314	16.37 ug/L	95
12) carbon disulfide	3.42	76	96248	4.88 ug/L	95
13) methylene chloride	3.74	84	82532	5.40 ug/L	92
14) acrylonitrile	4.02	53	351824	59.60 ug/L	97
15) trans-1,2-dichloroethene	4.07	96	52869	4.34 ug/L #	80
16) methyl-t-butyl ether	4.07	73	152796	4.43 ug/L	97
17) acetonitrile	3.55	41	109109	47.95 ug/L	97
18) hexane	4.39	57	87834	7.44 ug/L #	96
19) 1,1-dichloroethane	4.57	63	102789	5.02 ug/L	95
20) vinyl acetate	4.64	43	93591	5.37 ug/L	99
21) cis-1,2-dichloroethene	5.29	96	64002	4.23 ug/L	95
22) 2,2-dichloropropane	5.28	77	71659	5.31 ug/L	97
23) 2-butanone	5.30	72	9354	5.62 ug/L #	53
24) methyl acrylate	5.44	55	78625	5.11 ug/L	94
25) chloroform	5.70	83	89071	4.36 ug/L	94
27) 1,1,1-trichloroethane	5.92	97	66429	4.79 ug/L	94
28) cyclohexane	6.00	56	95688	5.82 ug/L	96

(#) = qualifier out of range (m) = manual integration
E081418.D WTR0814.M Fri Aug 15 10:25:04 2008 8/15/08 Page 1

8/15/08

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	carbon tetrachloride	6.13	117	57978	4.98 ug/L	97
31)	benzene	6.40	78	236690	5.20 ug/L	98
32)	1,1-dichloropropene	6.13	75	78257	5.65 ug/L	91
33)	1,2-dichloroethane	6.43	62	79735	4.79 ug/L	98
34)	trichloroethene	7.29	95	55709	4.72 ug/L	89
35)	ethyl acrylate	7.44	55	99774	4.76 ug/L	97
36)	1,2-dichloropropane	7.58	63	65385	4.96 ug/L	90
37)	methyl methacrylate	7.77	41	63941	4.85 ug/L	93
38)	dibromomethane	7.76	93	40969	4.10 ug/L	88
39)	bromodichloromethane	7.98	83	76068	4.52 ug/L	93
42)	cis-1,3-dichloropropene	8.63	75	96950	4.48 ug/L	95
43)	4-methyl-2-pentanone	8.86	43	80711	4.85 ug/L	95
45)	toluene	9.13	92	124391	4.11 ug/L	89
46)	1,1,2-trichloroethane	9.76	83	46816	3.95 ug/L	98
47)	1,3-dichloropropane	10.00	76	94524	3.97 ug/L	97
48)	tetrachloroethene	9.97	164	40909	4.63 ug/L	95
49)	trans-1,3-dichloropropene	9.48	75	74536	4.21 ug/L	96
50)	2-hexanone	10.15	43	53740	4.90 ug/L	85
51)	dibromochloromethane	10.37	129	65063	4.44 ug/L	79
52)	1,2-dibromoethane	10.52	107	63637	3.84 ug/L #	93
53)	chlorobenzene	11.32	112	147996	4.15 ug/L	95
54)	1,1,1,2-tetrachloroethane	11.47	131	50640	4.12 ug/L	98
55)	ethylbenzene	11.52	91	220657	4.39 ug/L	96
56)	m,p-xylene	11.72	106	177435	8.72 ug/L	93
57)	butyl acrylate	12.37	55	141150	4.36 ug/L	94
58)	o-xylene	12.37	106	85960	4.18 ug/L	95
59)	styrene	12.39	104	145917	3.99 ug/L	93
60)	isopropylbenzene	13.00	105	182371	4.56 ug/L	96
61)	bromobenzene	13.51	156	59553	4.26 ug/L	92
62)	bromoform	12.71	173	38065	3.66 ug/L	95
64)	1,2,3-trichloropropane	13.61	75	57732	4.26 ug/L #	87
65)	n-propylbenzene	13.71	91	233409	4.62 ug/L	98
66)	2-chlorotoluene	13.85	91	143375	4.38 ug/L	94
67)	4-chlorotoluene	14.04	91	156906m2	4.32 ug/L	
68)	1,3,5-trimethylbenzene	14.04	105	155415	4.61 ug/L	98
70)	1,1,2,2-tetrachloroethane	13.56	83	77128	3.90 ug/L	96
71)	tert-butylbenzene	14.57	119	129659	4.76 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

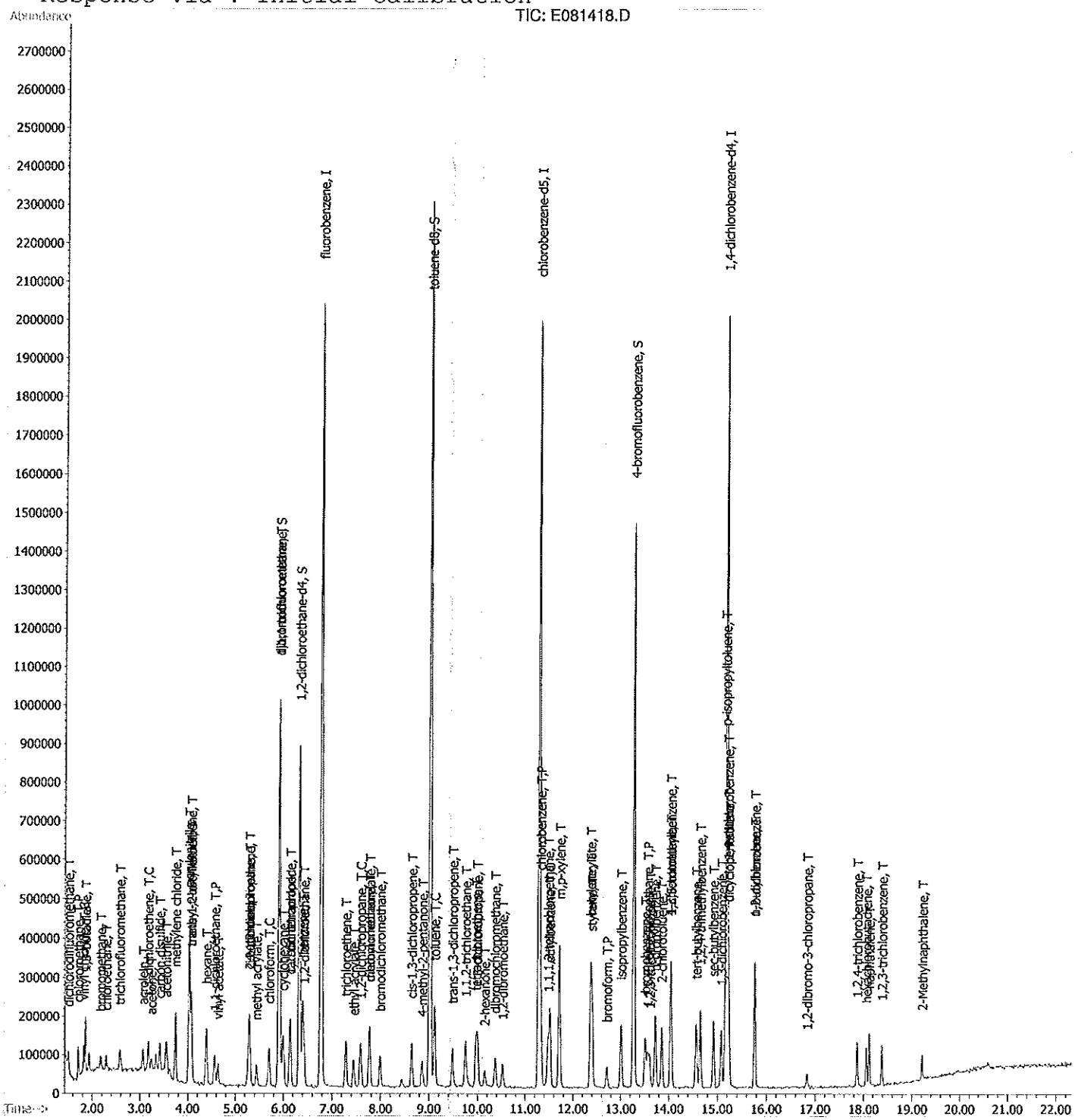
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72)	sec-butylbenzene	14.91	105	191141	4.71 ug/L	99
73)	1,2,4-trimethylbenzene	14.65	105	167397	4.58 ug/L	91
74)	1,3-dichlorobenzene	15.08	146	93256	4.40 ug/L	97
75)	p-isopropyltoluene	15.15	119	154470	5.06 ug/L	99
76)	dicyclopentadiene	15.23	66	249694	5.16 ug/L	98
77)	1,4-dichlorobenzene	15.22	146	99615	4.59 ug/L	90
78)	1,2-dichlorobenzene	15.76	146	89622	4.42 ug/L	98
79)	n-butylbenzene	15.76	91	129825	5.35 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.83	75	12623	6.03 ug/L #	70
81)	1,2,4-trichlorobenzene	17.86	180	41464	5.90 ug/L	98
82)	hexachlorobutadiene	18.05	225	21181	6.98 ug/L	89
83)	naphthalene	18.11	128	113808	6.02 ug/L	100
84)	1,2,3-trichlorobenzene	18.38	180	35925	5.66 ug/L	89
85)	2-Methylnaphthalene	19.22	142	31408	8.33 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2219037	50.00 ug/L	0.00
41) chlorobenzene-d5	11.28	117	1633162	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.18	152	656505	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.89	113	705730	56.27 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	677585	62.81 ug/L	0.00
44) toluene-d8	9.01	98	1935016	47.59 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	711304	47.68 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	78441	7.17 ug/L	96
3) chloromethane	1.70	50	111347	7.88 ug/L	99
4) vinyl chloride	1.82	62	109666	8.64 ug/L	95
5) 1,3-butadiene	1.86	39	92796	15.19 ug/L	94
6) bromomethane	2.17	94	45288	9.82 ug/L	94
7) chloroethane	2.29	64	54649	9.08 ug/L	97
8) trichlorofluoromethane	2.58	101	101059	10.00 ug/L	96
9) acrolein	3.05	56	92125	185.22 ug/L	88
10) 1,1-dichloroethene	3.17	96	60850	10.30 ug/L #	83
11) acetone	3.24	43	86347	26.92 ug/L	84
12) carbon disulfide	3.41	76	170668	9.61 ug/L	93
13) methylene chloride	3.74	84	139020	10.11 ug/L	96
14) acrylonitrile	4.01	53	721605	135.74 ug/L	97
15) trans-1,2-dichloroethene	4.06	96	97010	8.84 ug/L	94
16) methyl-t-butyl ether	4.06	73	301098	9.70 ug/L	98
17) acetonitrile	3.54	41	206260	100.66 ug/L	89
18) hexane	4.39	57	120329	11.31 ug/L #	96
19) 1,1-dichloroethane	4.56	63	193696	10.50 ug/L	99
20) vinyl acetate	4.63	43	173845	11.08 ug/L	97
21) cis-1,2-dichloroethene	5.28	96	118103	8.66 ug/L	96
22) 2,2-dichloropropane	5.27	77	133667	11.00 ug/L	98
23) 2-butanone	5.30	72	16347	10.92 ug/L	80
24) methyl acrylate	5.43	55	152573	11.00 ug/L	99
25) chloroform	5.70	83	179162	9.74 ug/L	93
27) 1,1,1-trichloroethane	5.91	97	123769	9.92 ug/L	90
28) cyclohexane	5.98	56	169125	11.42 ug/L	94

(#) = qualifier out of range (m) = manual integration
E081419.D WTR0814.M Fri Aug 15 09:43:34 2008 8/16/08 8/15/08 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.14	117	113704	10.85 ug/L	88
31) benzene	6.40	78	405628	9.89 ug/L	99
32) 1,1-dichloropropene	6.13	75	134993	10.82 ug/L	97
33) 1,2-dichloroethane	6.43	62	152805	10.19 ug/L	93
34) trichloroethene	7.28	95	100647	9.46 ug/L	93
35) ethyl acrylate	7.44	55	206130	10.92 ug/L	98
36) 1,2-dichloropropane	7.58	63	123022	10.36 ug/L	96
37) methyl methacrylate	7.76	41	135442	11.40 ug/L	93
38) dibromomethane	7.75	93	80170	8.91 ug/L	96
39) bromodichloromethane	7.99	83	137150	9.05 ug/L	99
40) 2-chloroethyl vinyl ether	8.42	63	21539	3.20 ug/L #	80
42) cis-1,3-dichloropropene	8.63	75	180091	9.18 ug/L	98
43) 4-methyl-2-pentanone	8.86	43	165099	10.93 ug/L	95
45) toluene	9.11	92	238555	8.69 ug/L	99
46) 1,1,2-trichloroethane	9.75	83	88820	8.26 ug/L	93
47) 1,3-dichloropropane	10.00	76	188453	8.72 ug/L	97
48) tetrachloroethene	9.97	164	72372	9.02 ug/L	96
49) trans-1,3-dichloropropene	9.48	75	148381	9.24 ug/L	97
50) 2-hexanone	10.14	43	101890	10.24 ug/L	97
51) dibromochloromethane	10.36	129	122906	9.23 ug/L	92
52) 1,2-dibromoethane	10.52	107	129664	8.62 ug/L	87
53) chlorobenzene	11.32	112	276155	8.53 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.46	131	97307	8.73 ug/L	95
55) ethylbenzene	11.50	91	402131	8.81 ug/L	95
56) m,p-xylene	11.70	106	314408	17.02 ug/L	95
57) butyl acrylate	12.35	55	285434	9.71 ug/L	97
58) o-xylene	12.37	106	154584	8.28 ug/L	94
59) styrene	12.39	104	272282	8.20 ug/L	94
60) isopropylbenzene	13.00	105	319274	8.79 ug/L	99
61) bromobenzene	13.49	156	107863	8.51 ug/L	90
62) bromoform	12.71	173	81807	8.66 ug/L	92
64) 1,2,3-trichloropropane	13.59	75	116984	9.50 ug/L	99
65) n-propylbenzene	13.71	91	406535	8.86 ug/L	99
66) 2-chlorotoluene	13.85	91	256026	8.61 ug/L	95
67) 4-chlorotoluene	14.03	91	282101	8.56 ug/L	96
68) 1,3,5-trimethylbenzene	14.03	105	273403	8.94 ug/L	100
70) 1,1,2,2-tetrachloroethane	13.55	83	152051	8.83 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

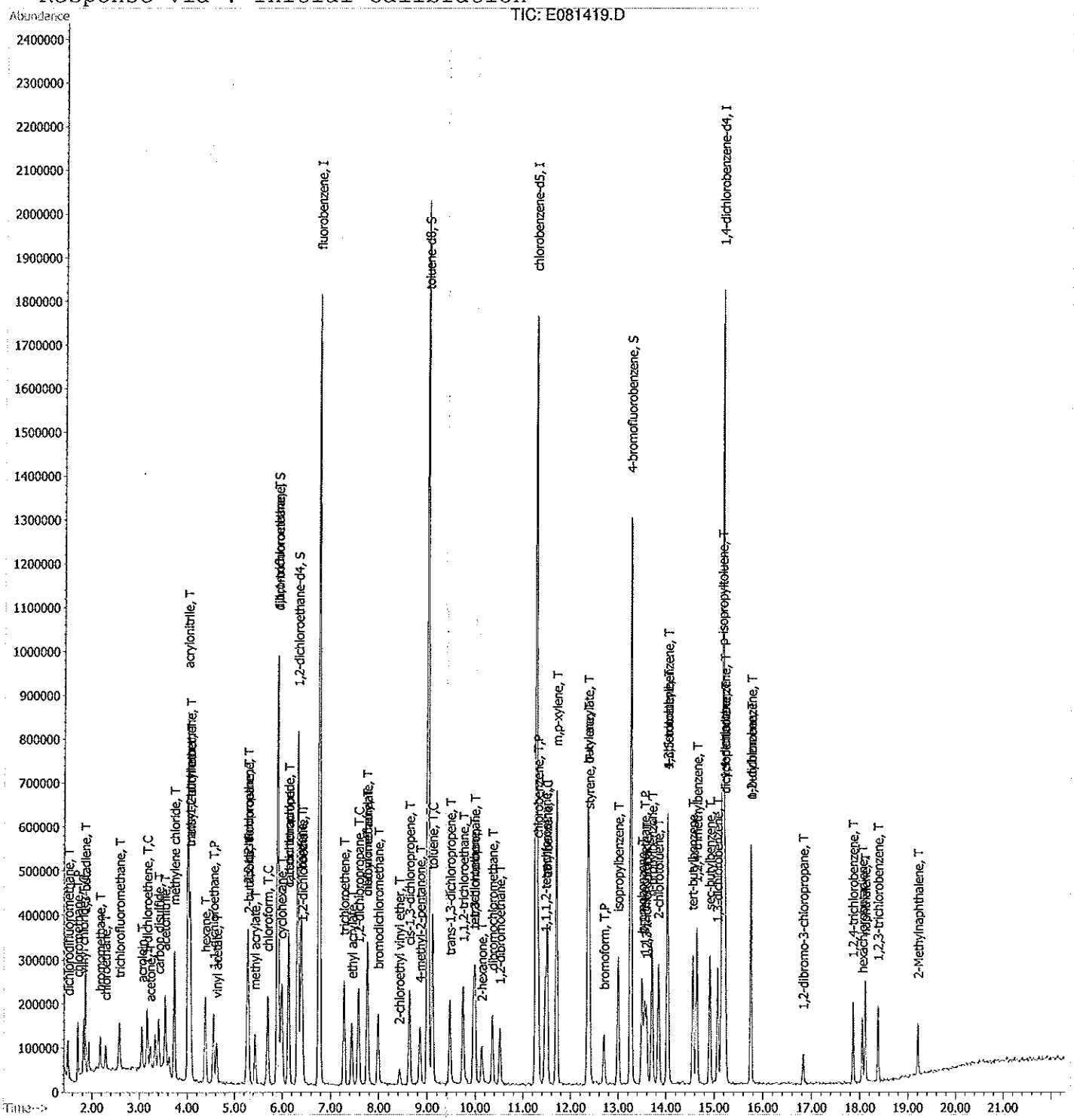
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.57	119	230312	9.71 ug/L	98
72)	sec-butylbenzene	14.91	105	322030	9.10 ug/L	95
73)	1,2,4-trimethylbenzene	14.64	105	283272	8.90 ug/L	99
74)	1,3-dichlorobenzene	15.07	146	164952	8.93 ug/L	94
75)	p-isopropyltoluene	15.15	119	248310	9.33 ug/L	98
76)	dicyclopentadiene	15.23	66	421993	10.00 ug/L	99
77)	1,4-dichlorobenzene	15.22	146	174404	9.22 ug/L	96
78)	1,2-dichlorobenzene	15.76	146	156042	8.83 ug/L	96
79)	n-butylbenzene	15.76	91	214645	10.15 ug/L	94
80)	1,2-dibromo-3-chloropropan	16.83	75	19249	10.55 ug/L	93
81)	1,2,4-trichlorobenzene	17.85	180	65486	10.69 ug/L	97
82)	hexachlorobutadiene	18.05	225	31072	11.75 ug/L	95
83)	naphthalene	18.11	128	198176	12.02 ug/L	100
84)	1,2,3-trichlorobenzene	18.37	180	61267	11.08 ug/L	96
85)	2-Methylnaphthalene	19.21	142	57362	17.46 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2163003	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1585636	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	668864	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.90	113	690677	56.49 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	656141	62.40 ug/L	0.00
44) toluene-d8	9.01	98	1891283	47.91 ug/L	0.00
63) 4-bromofluorobenzene	13.25	95	713098	49.23 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	111665	10.47 ug/L	99
3) chloromethane	1.70	50	189000	13.72 ug/L	98
4) vinyl chloride	1.81	62	170279	13.77 ug/L	97
5) 1,3-butadiene	1.85	39	145453	24.43 ug/L	95
6) bromomethane	2.17	94	66504	14.79 ug/L	99
7) chloroethane	2.29	64	88426	15.07 ug/L	96
8) trichlorofluoromethane	2.58	101	162741	16.52 ug/L	95
9) acrolein	3.05	56	169725	350.08 ug/L	97
10) 1,1-dichloroethene	3.16	96	82771	14.37 ug/L	99
11) acetone	3.23	43	110909	35.48 ug/L	91
12) carbon disulfide	3.41	76	266913	15.41 ug/L	100
13) methylene chloride	3.73	84	221660	16.54 ug/L	97
14) acrylonitrile	4.01	53	1317629	254.28 ug/L	96
15) trans-1,2-dichloroethene	4.06	96	157750	14.74 ug/L	98
16) methyl-t-butyl ether	4.06	73	558524	18.47 ug/L	96
17) acetonitrile	3.54	41	381510	191.02 ug/L	92
18) hexane	4.38	57	199948	19.29 ug/L #	93
19) 1,1-dichloroethane	4.56	63	333427	18.55 ug/L	97
20) vinyl acetate	4.63	43	326001	21.32 ug/L	96
21) cis-1,2-dichloroethene	5.28	96	207134	15.59 ug/L	99
22) 2,2-dichloropropane	5.26	77	219514	18.53 ug/L #	89
23) 2-butanone	5.30	72	30995	21.23 ug/L	90
24) methyl acrylate	5.43	55	303932	22.49 ug/L	98
25) chloroform	5.69	83	315109	17.58 ug/L	99
27) 1,1,1-trichloroethane	5.91	97	205506	16.89 ug/L	96
28) cyclohexane	5.98	56	274016	18.98 ug/L	96

(#) = qualifier out of range (m) = manual integration
E081420.D WTR0814.M Fri Aug 15 09:43:57 2008 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.13	117	185881	18.19 ug/L	99
31) benzene	6.39	78	694085	17.37 ug/L	98
32) 1,1-dichloropropene	6.13	75	209393	17.23 ug/L	95
33) 1,2-dichloroethane	6.42	62	290928	19.90 ug/L	94
34) trichloroethene	7.28	95	168452	16.25 ug/L	92
35) ethyl acrylate	7.44	55	431377	23.45 ug/L	98
36) 1,2-dichloropropane	7.57	63	220390	19.04 ug/L	99
37) methyl methacrylate	7.76	41	267166	23.07 ug/L	95
38) dibromomethane	7.75	93	156428	17.83 ug/L	97
39) bromodichloromethane	7.99	83	269083	18.22 ug/L	97
40) 2-chloroethyl vinyl ether	8.42	63	41673	6.36 ug/L	94
42) cis-1,3-dichloropropene	8.63	75	328986	17.27 ug/L	99
43) 4-methyl-2-pentanone	8.84	43	313637	21.39 ug/L	97
45) toluene	9.11	92	402104	15.08 ug/L	99
46) 1,1,2-trichloroethane	9.74	83	173011	16.58 ug/L	98
47) 1,3-dichloropropane	9.99	76	357188	17.02 ug/L	97
48) tetrachloroethene	9.97	164	116777	14.99 ug/L	92
49) trans-1,3-dichloropropene	9.47	75	280360	17.99 ug/L	99
50) 2-hexanone	10.13	43	202967	21.02 ug/L	98
51) dibromochloromethane	10.36	129	238540	18.46 ug/L	97
52) 1,2-dibromoethane	10.52	107	251706	17.24 ug/L #	97
53) chlorobenzene	11.31	112	481950	15.33 ug/L	95
54) 1,1,1,2-tetrachloroethane	11.46	131	185099	17.10 ug/L	95
55) ethylbenzene	11.50	91	689100	15.55 ug/L	98
56) m,p-xylene	11.70	106	546046	30.45 ug/L	97
57) butyl acrylate	12.35	55	600635	21.04 ug/L	97
58) o-xylene	12.36	106	269678	14.88 ug/L #	83
59) styrene	12.39	104	502957	15.61 ug/L	94
60) isopropylbenzene	13.00	105	545320	15.47 ug/L	98
61) bromobenzene	13.49	156	198391	16.11 ug/L	86
62) bromoform	12.70	173	161583	17.62 ug/L	99
64) 1,2,3-trichloropropane	13.59	75	226924	18.99 ug/L	99
65) n-propylbenzene	13.71	91	688096	15.45 ug/L	100
66) 2-chlorotoluene	13.84	91	450672	15.61 ug/L	94
67) 4-chlorotoluene	14.03	91	498193	15.58 ug/L	93
68) 1,3,5-trimethylbenzene	14.03	105	467165	15.74 ug/L	99
70) 1,1,2,2-tetrachloroethane	13.55	83	299188	17.06 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

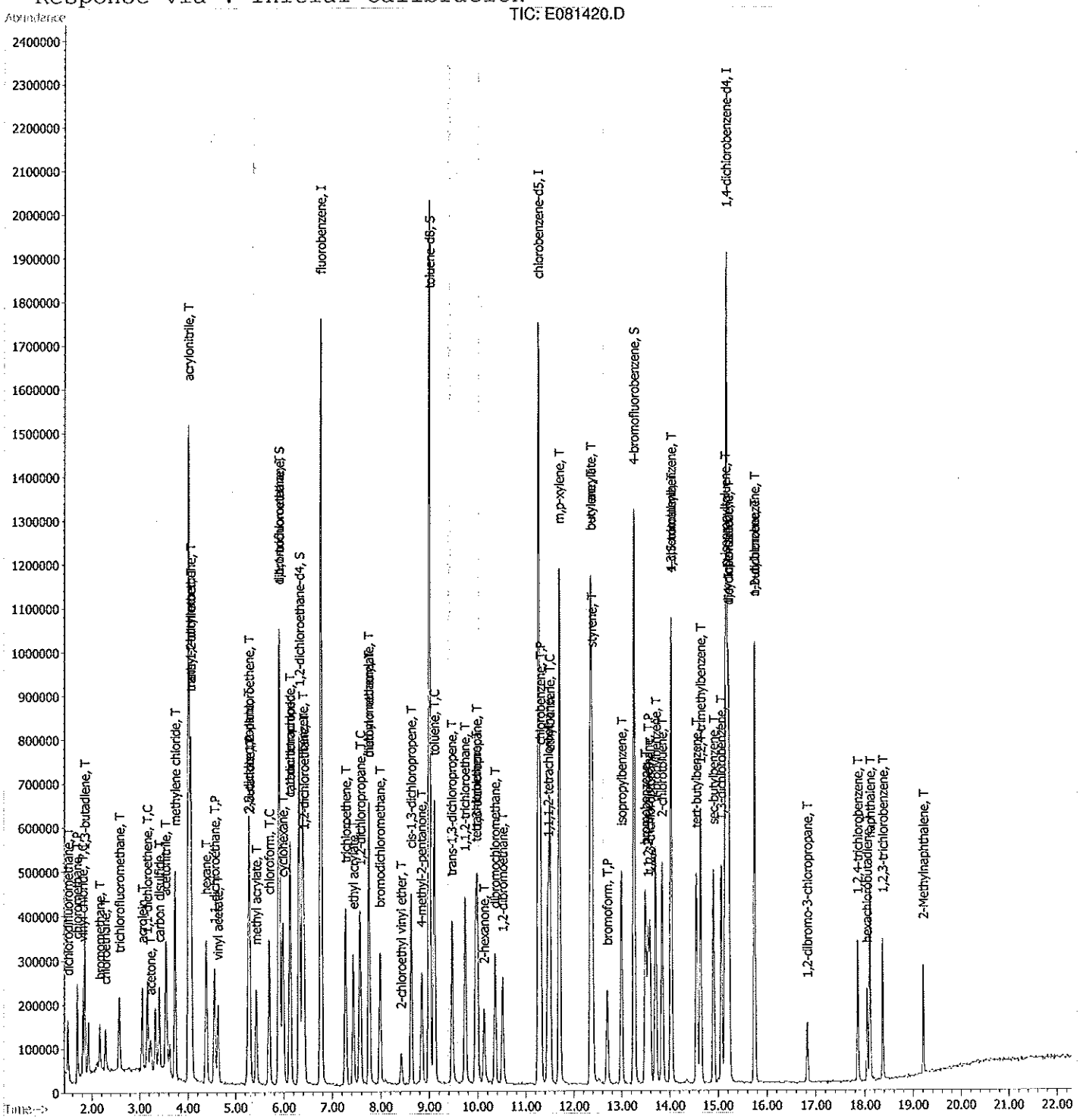
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	387549	16.03 ug/L	94
72)	sec-butylbenzene	14.91	105	546363	15.16 ug/L	97
73)	1,2,4-trimethylbenzene	14.64	105	507802	15.66 ug/L	95
74)	1,3-dichlorobenzene	15.07	146	303020	16.10 ug/L	99
75)	p-isopropyltoluene	15.14	119	438898	16.19 ug/L	99
76)	dicyclopentadiene	15.22	66	751957	17.49 ug/L	99
77)	1,4-dichlorobenzene	15.21	146	313273	16.26 ug/L	99
78)	1,2-dichlorobenzene	15.75	146	300410	16.69 ug/L	98
79)	n-butylbenzene	15.75	91	365177	16.95 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.82	75	36495	19.64 ug/L	86
81)	1,2,4-trichlorobenzene	17.86	180	123623	19.81 ug/L	91
82)	hexachlorobutadiene	18.06	225	51332	19.06 ug/L	96
83)	naphthalene	18.11	128	382109	22.75 ug/L	100
84)	1,2,3-trichlorobenzene	18.37	180	108633	19.29 ug/L	90
85)	2-Methylnaphthalene	19.21	142	118641	35.44 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D Vial: 5
Acq On : 14 Aug 2008 9:08 pm Operator: BR
Sample : ,ical,ical W 50 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	2088265	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1572306	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	699472	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.90	113	689706	58.43 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	660629	65.07 ug/L	0.00
44) toluene-d8	9.01	98	1886992	48.21 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	724675	50.45 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	315538	30.63 ug/L	100
3) chloromethane	1.69	50	490635	36.89 ug/L	100
4) vinyl chloride	1.81	62	469305	39.31 ug/L	100
5) 1,3-butadiene	1.85	39	396517	68.99 ug/L	100
6) bromomethane	2.16	94	88052	20.29 ug/L	99
7) chloroethane	2.27	64	216969	38.29 ug/L	100
8) trichlorofluoromethane	2.57	101	421483	44.32 ug/L	100
9) acrolein	3.05	56	480581	1026.75 ug/L	100
10) 1,1-dichloroethene	3.16	96	231852	41.69 ug/L	100
11) acetone	3.23	43	233603	77.40 ug/L	100
12) carbon disulfide	3.41	76	692582	41.43 ug/L	100
13) methylene chloride	3.73	84	562158	43.44 ug/L	100
14) acrylonitrile	4.01	53	3623392	724.28 ug/L	100
15) trans-1,2-dichloroethene	4.06	96	420170	40.68 ug/L	100
16) methyl-t-butyl ether	4.07	73	1531058	52.43 ug/L	100
17) acetonitrile	3.53	41	1004521	520.95 ug/L	100
18) hexane	4.38	57	528316	52.79 ug/L	100
19) 1,1-dichloroethane	4.56	63	902265	51.99 ug/L	100
20) vinyl acetate	4.63	43	910211	61.65 ug/L	100
21) cis-1,2-dichloroethene	5.28	96	555507	43.30 ug/L	100
22) 2,2-dichloropropane	5.27	77	566269	49.50 ug/L	100
23) 2-butanone	5.30	72	86379	61.29 ug/L	100
24) methyl acrylate	5.42	55	838272	64.24 ug/L	100
25) chloroform	5.69	83	836237	48.33 ug/L	100
27) 1,1,1-trichloroethane	5.91	97	542334	46.18 ug/L	100
28) cyclohexane	5.98	56	724898	52.02 ug/L	100

(#) = qualifier out of range (m) = manual integration
E081421.D WTR0814.M Fri Aug 15 09:44:21 2008 8/15/08 8/15/08 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D Vial: 5
Acq On : 14 Aug 2008 9:08 pm Operator: BR
Sample : ,ical,ical W 50 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.12	117	483983	49.06 ug/L	100
31) benzene	6.39	78	1820824	47.19 ug/L	100
32) 1,1-dichloropropene	6.12	75	567989	48.40 ug/L	100
33) 1,2-dichloroethane	6.42	62	788047	55.82 ug/L	100
34) trichloroethene	7.27	95	440380	43.99 ug/L	100
35) ethyl acrylate	7.43	55	1170436	65.90 ug/L	100
36) 1,2-dichloropropane	7.57	63	606484	54.27 ug/L	100
37) methyl methacrylate	7.76	41	715267	63.97 ug/L	100
38) dibromomethane	7.75	93	426864	50.39 ug/L	100
39) bromodichloromethane	7.98	83	734369	51.51 ug/L	100
40) 2-chloroethyl vinyl ether	8.42	63	127009	20.07 ug/L	100
42) cis-1,3-dichloropropene	8.62	75	911397	48.25 ug/L	100
43) 4-methyl-2-pentanone	8.84	43	883095	60.74 ug/L	100
45) toluene	9.11	92	1080678	40.87 ug/L	100
46) 1,1,2-trichloroethane	9.74	83	491811	47.52 ug/L	100
47) 1,3-dichloropropane	9.99	76	969000	46.56 ug/L	100
48) tetrachloroethene	9.96	164	321515	41.62 ug/L	100
49) trans-1,3-dichloropropene	9.47	75	799105	51.71 ug/L	100
50) 2-hexanone	10.13	43	624711	65.24 ug/L	100
51) dibromochloromethane	10.36	129	696744	54.38 ug/L	100
52) 1,2-dibromoethane	10.51	107	697795	48.20 ug/L	100
53) chlorobenzene	11.31	112	1308083	41.97 ug/L	100
54) 1,1,1,2-tetrachloroethane	11.46	131	512762	47.78 ug/L	100
55) ethylbenzene	11.50	91	1876030	42.68 ug/L	100
56) m,p-xylene	11.70	106	1508971	84.86 ug/L	100
57) butyl acrylate	12.34	55	1696030	59.92 ug/L	100
58) o-xylene	12.35	106	761934	42.40 ug/L	100
59) styrene	12.38	104	1411968	44.19 ug/L	100
60) isopropylbenzene	12.99	105	1543378	44.16 ug/L	100
61) bromobenzene	13.50	156	572435	46.89 ug/L	100
62) bromoform	12.70	173	472543	51.97 ug/L	100
64) 1,2,3-trichloropropane	13.58	75	647001	54.59 ug/L	100
65) n-propylbenzene	13.70	91	1940678	43.94 ug/L	100
66) 2-chlorotoluene	13.84	91	1248752	43.63 ug/L	100
67) 4-chlorotoluene	14.03	91	1402358	44.22 ug/L	100
68) 1,3,5-trimethylbenzene	14.03	105	1347224	45.78 ug/L	100
70) 1,1,2,2-tetrachloroethane	13.54	83	849450	46.32 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D Vial: 5
Acq On : 14 Aug 2008 9:08 pm Operator: BR
Sample : ,ical,ical W 50 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) tert-butylbenzene	14.56	119	1127435	44.61 ug/L	100
72) sec-butylbenzene	14.90	105	1559172	41.36 ug/L	100
73) 1,2,4-trimethylbenzene	14.64	105	1452396	42.82 ug/L	100
74) 1,3-dichlorobenzene	15.07	146	884997	44.97 ug/L	100
75) p-isopropyltoluene	15.14	119	1282343	45.24 ug/L	100
76) dicyclopentadiene	15.22	66	2039569	45.36 ug/L	100
77) 1,4-dichlorobenzene	15.21	146	905413	44.94 ug/L	100
78) 1,2-dichlorobenzene	15.75	146	867960	46.11 ug/L	100
79) n-butylbenzene	15.75	91	1046196	46.44 ug/L	100
80) 1,2-dibromo-3-chloropropan	16.82	75	119098	61.29 ug/L	100
81) 1,2,4-trichlorobenzene	17.86	180	363819	55.74 ug/L	100
82) hexachlorobutadiene	18.05	225	146614	52.05 ug/L	100
83) naphthalene	18.11	128	1179380	67.16 ug/L	100
84) 1,2,3-trichlorobenzene	18.37	180	329584	55.96 ug/L	100
85) 2-Methylnaphthalene	19.20	142	345953	98.83 ug/L	100

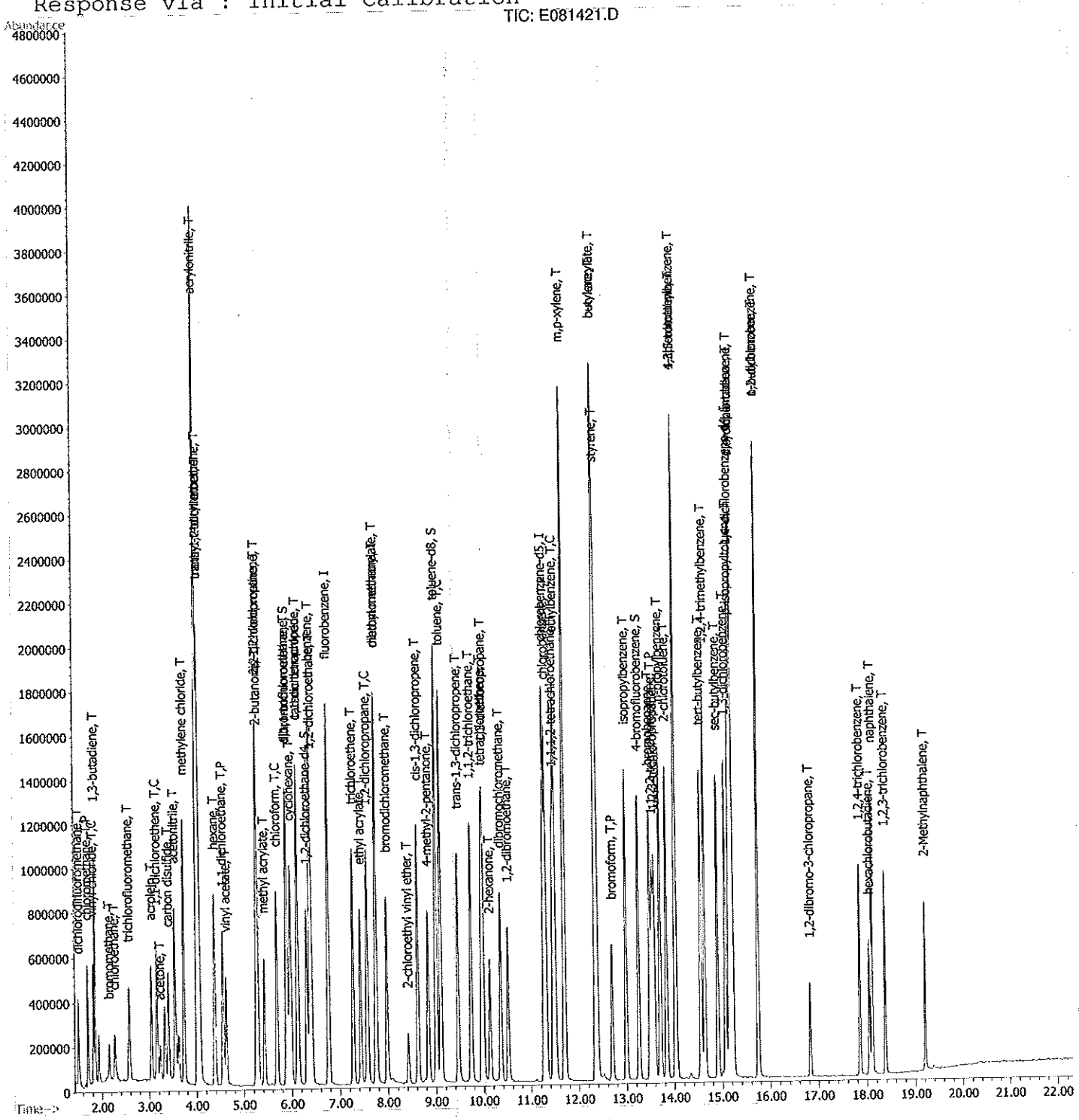
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D
Acq On : 14 Aug 2008 9:08 pm
Sample : ,ical,ical W 50 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Vial: 5
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D Vial: 6
Acq On : 14 Aug 2008 9:39 pm Operator: BR
Sample : ,ical,ical W 70 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2116707	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1559582	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.18	152	692407	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.89	113	680998	56.92 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	667408	64.86 ug/L	0.00
44) toluene-d8	9.00	98	1881143	48.45 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	732851	51.44 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.50	85	437484	41.90 ug/L	97
3) chloromethane	1.70	50	733534	54.41 ug/L	99
4) vinyl chloride	1.82	62	682332	56.38 ug/L	99
5) 1,3-butadiene	1.86	39	570322	97.90 ug/L	91
6) bromomethane	2.15	94	102591	23.32 ug/L	99
7) chloroethane	2.27	64	301242	52.45 ug/L	93
8) trichlorofluoromethane	2.58	101	590434	61.25 ug/L	96
9) acrolein	3.05	56	671796	1415.99 ug/L	98
10) 1,1-dichloroethene	3.16	96	325698	57.78 ug/L	94
11) acetone	3.24	43	313381	102.43 ug/L	99
12) carbon disulfide	3.40	76	954066	56.30 ug/L	98
13) methylene chloride	3.73	84	784954	59.84 ug/L	99
14) acrylonitrile	4.01	53	5148772	1015.36 ug/L	99
15) trans-1,2-dichloroethene	4.05	96	590244	56.37 ug/L	97
16) methyl-t-butyl ether	4.06	73	2118421	71.58 ug/L	96
17) acetonitrile	3.54	41	1421903	727.50 ug/L	97
18) hexane	4.38	57	759010	74.82 ug/L #	97
19) 1,1-dichloroethane	4.55	63	1262645	71.78 ug/L	98
20) vinyl acetate	4.62	43	1258502	84.10 ug/L	99
21) cis-1,2-dichloroethene	5.28	96	776212	59.69 ug/L	97
22) 2,2-dichloropropane	5.26	77	768600	66.29 ug/L	98
23) 2-butanone	5.29	72	120196	84.14 ug/L	92
24) methyl acrylate	5.42	55	1174559	88.79 ug/L	97
25) chloroform	5.70	83	1184314	67.52 ug/L	98
27) 1,1,1-trichloroethane	5.90	97	764095	64.19 ug/L	98
28) cyclohexane	5.98	56	1014420	71.81 ug/L	97

(#) = qualifier out of range (m) = manual integration
E081422.D WTR0814.M Fri Aug 15 09:44:44 2008 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D Vial: 6
Acq On : 14 Aug 2008 9:39 pm Operator: BR
Sample : ,ical,ical W 70 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	carbon tetrachloride	6.13	117	678839	67.89 ug/L	96
31)	benzene	6.38	78	2539733	64.94 ug/L	99
32)	1,1-dichloropropene	6.13	75	788127	66.25 ug/L	99
33)	1,2-dichloroethane	6.41	62	1071795	74.90 ug/L	98
34)	trichloroethene	7.27	95	631747	62.26 ug/L	94
35)	ethyl acrylate	7.43	55	1585371	88.07 ug/L	98
36)	1,2-dichloropropane	7.57	63	845277	74.62 ug/L	95
37)	methyl methacrylate	7.75	41	1019775	89.98 ug/L	96
38)	dibromomethane	7.74	93	590761	68.81 ug/L	98
39)	bromodichloromethane	7.98	83	1013231	70.11 ug/L	99
40)	2-chloroethyl vinyl ether	8.42	63	196199	30.59 ug/L	92
42)	cis-1,3-dichloropropene	8.62	75	1305833	69.69 ug/L	99
43)	4-methyl-2-pentanone	8.84	43	1205335	83.59 ug/L	99
45)	toluene	9.10	92	1535325	58.54 ug/L	98
46)	1,1,2-trichloroethane	9.74	83	665182	64.80 ug/L	97
47)	1,3-dichloropropane	10.00	76	1367060	66.22 ug/L	99
48)	tetrachloroethene	9.96	164	453068	59.12 ug/L	95
49)	trans-1,3-dichloropropene	9.47	75	1104060	72.03 ug/L	99
50)	2-hexanone	10.14	43	867450	91.32 ug/L	92
51)	dibromochloromethane	10.35	129	961097	75.62 ug/L	98
52)	1,2-dibromoethane	10.51	107	949074	66.10 ug/L #	96
53)	chlorobenzene	11.32	112	1821999	58.94 ug/L	96
54)	1,1,1,2-tetrachloroethane	11.46	131	726469	68.24 ug/L	97
55)	ethylbenzene	11.50	91	2617283	60.04 ug/L	99
56)	m,p-xylene	11.70	106	2077150	117.76 ug/L	96
57)	butyl acrylate	12.34	55	2363280	84.18 ug/L	96
58)	o-xylene	12.36	106	1057435	59.32 ug/L	97
59)	styrene	12.39	104	1987982	62.73 ug/L	96
60)	isopropylbenzene	12.99	105	2127990	61.38 ug/L	100
61)	bromobenzene	13.49	156	807392	66.68 ug/L	93
62)	bromoform	12.69	173	670601	74.36 ug/L	96
64)	1,2,3-trichloropropane	13.59	75	890089	75.71 ug/L	93
65)	n-propylbenzene	13.71	91	2758366	62.96 ug/L	98
66)	2-chlorotoluene	13.84	91	1770324	62.36 ug/L	95
67)	4-chlorotoluene	14.03	91	1972154	62.69 ug/L	98
68)	1,3,5-trimethylbenzene	14.02	105	1868913	64.02 ug/L	98
70)	1,1,2,2-tetrachloroethane	13.54	83	1178874	64.94 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D Vial: 6
Acq On : 14 Aug 2008 9:39 pm Operator: BR
Sample : ,ical,ical W 70 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	1513508	60.49 ug/L	96
72)	sec-butylbenzene	14.91	105	2170052	58.15 ug/L	98
73)	1,2,4-trimethylbenzene	14.64	105	2012787	59.95 ug/L	97
74)	1,3-dichlorobenzene	15.07	146	1220440	62.65 ug/L	99
75)	p-isopropyltoluene	15.15	119	1784583	63.60 ug/L	99
76)	dicyclopentadiene	15.22	66	2795479	62.81 ug/L	100
77)	1,4-dichlorobenzene	15.20	146	1233908	61.87 ug/L	98
78)	1,2-dichlorobenzene	15.75	146	1201974	64.50 ug/L	98
79)	n-butylbenzene	15.75	91	1475302	66.16 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.82	75	153352	79.73 ug/L	96
81)	1,2,4-trichlorobenzene	17.85	180	516815	79.99 ug/L	98
82)	hexachlorobutadiene	18.05	225	201284	72.18 ug/L	93
83)	naphthalene	18.11	128	1673617	96.27 ug/L	100
84)	1,2,3-trichlorobenzene	18.37	180	468620	80.38 ug/L	98
85)	2-Methylnaphthalene	19.21	142	529975	152.95 ug/L	99

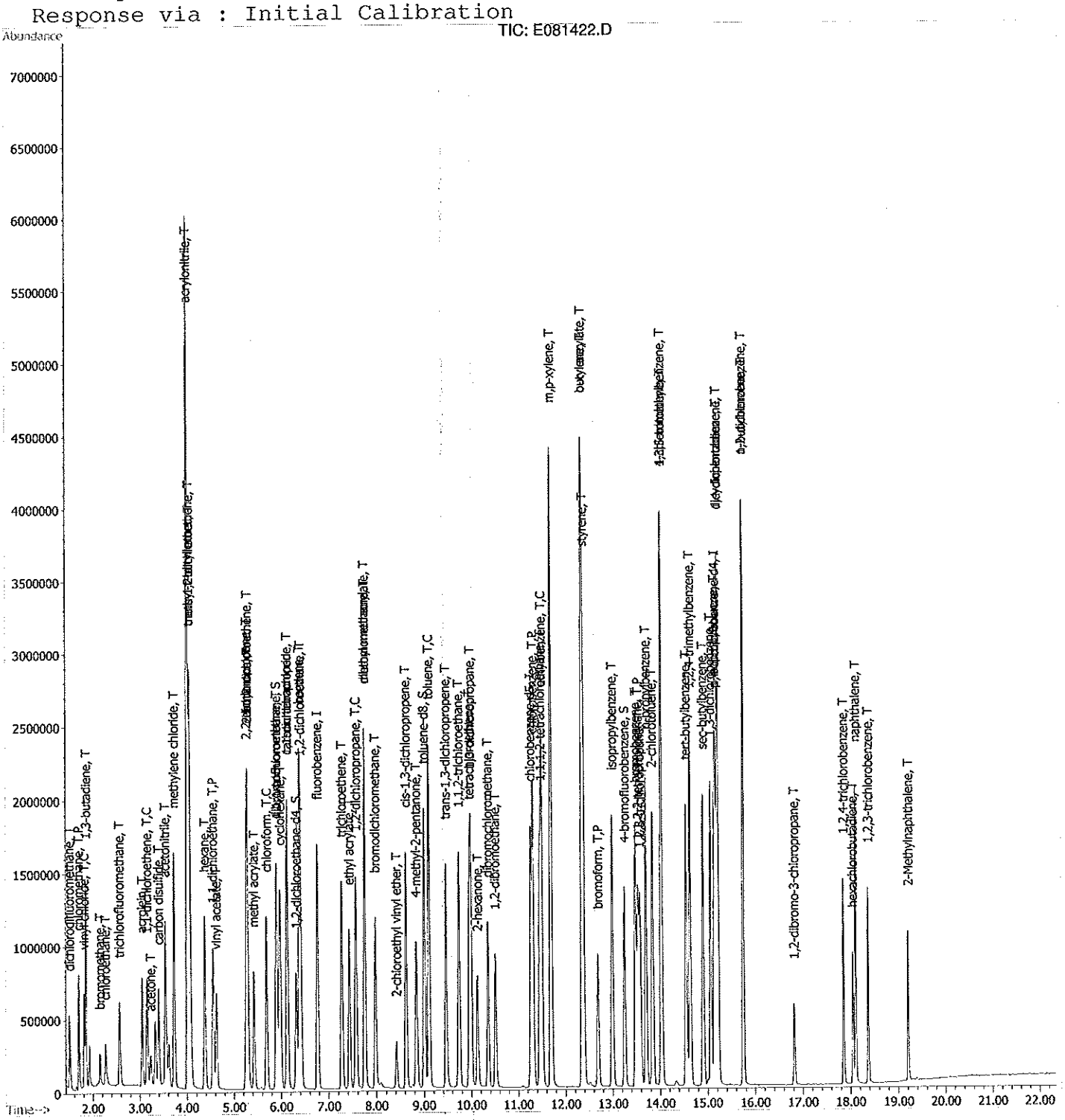
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D
Acq On : 14 Aug 2008 9:39 pm
Sample : ,ical,ical W 70 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Vial: 6
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	2141997	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1622911	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	740086	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.90	113	682522	56.37 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	655720	62.97 ug/L	0.00
44) toluene-d8	9.01	98	1937439	47.95 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	751729	50.70 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	625142	59.17 ug/L	98
3) chloromethane	1.69	50	1063783	77.98 ug/L	98
4) vinyl chloride	1.81	62	967600	79.01 ug/L	99
5) 1,3-butadiene	1.85	39	819074	138.93 ug/L	97
6) bromomethane	2.16	94	146251	32.85 ug/L	96
7) chloroethane	2.26	64	427466	73.55 ug/L	95
8) trichlorofluoromethane	2.57	101	840473	86.16 ug/L	97
9) acrolein	3.05	56	1007212	2097.90 ug/L	98
10) 1,1-dichloroethene	3.16	96	480940	84.31 ug/L #	88
11) acetone	3.23	43	454905	146.94 ug/L	94
12) carbon disulfide	3.41	76	1396518	81.44 ug/L	100
13) methylene chloride	3.73	84	1129438	85.08 ug/L	96
14) acrylonitrile	4.02	53	7104880	1384.56 ug/L	99
15) trans-1,2-dichloroethene	4.05	96	852640	80.47 ug/L	95
16) methyl-t-butyl ether	4.06	73	3121261	104.21 ug/L	98
17) acetonitrile	3.54	41	2011678	1017.10 ug/L	97
18) hexane	4.38	57	1029581	100.29 ug/L	97
19) 1,1-dichloroethane	4.56	63	1833345	103.00 ug/L	99
20) vinyl acetate	4.63	43	1843977	121.77 ug/L	100
21) cis-1,2-dichloroethene	5.28	96	1125705	85.55 ug/L	99
22) 2,2-dichloropropane	5.26	77	1090979	92.98 ug/L	97
23) 2-butanone	5.30	72	175909	121.69 ug/L	95
24) methyl acrylate	5.42	55	1694722	126.61 ug/L	96
25) chloroform	5.69	83	1695922	95.55 ug/L	98
27) 1,1,1-trichloroethane	5.91	97	1059544	87.96 ug/L	97
28) cyclohexane	5.97	56	1422498	99.52 ug/L	99

(#) = qualifier out of range (m) = manual integration
E081423.D WTR0814.M Fri Aug 15 09:45:09 2008 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	carbon tetrachloride	6.12	117	962295	95.10 ug/L	97
31)	benzene	6.39	78	3668042	92.68 ug/L	99
32)	1,1-dichloropropene	6.12	75	1119434	92.99 ug/L	98
33)	1,2-dichloroethane	6.42	62	1574328	108.72 ug/L	99
34)	trichloroethene	7.27	95	905511	88.19 ug/L	97
35)	ethyl acrylate	7.43	55	2357387	129.41 ug/L	100
36)	1,2-dichloropropane	7.57	63	1264749	110.33 ug/L	97
37)	methyl methacrylate	7.76	41	1468544	128.05 ug/L	92
38)	dibromomethane	7.75	93	854253	98.32 ug/L	95
39)	bromodichloromethane	7.98	83	1498162	102.44 ug/L	99
40)	2-chloroethyl vinyl ether	8.42	63	272630	42.00 ug/L	93
42)	cis-1,3-dichloropropene	8.62	75	1905873	97.74 ug/L	98
43)	4-methyl-2-pentanone	8.84	43	1813001	120.82 ug/L	98
45)	toluene	9.10	92	2167703	79.43 ug/L	100
46)	1,1,2-trichloroethane	9.74	83	986505	92.35 ug/L	95
47)	1,3-dichloropropane	9.99	76	2035248	94.75 ug/L	98
48)	tetrachloroethene	9.96	164	649810	81.49 ug/L	97
49)	trans-1,3-dichloropropene	9.47	75	1642886	103.00 ug/L	99
50)	2-hexanone	10.13	43	1304475	131.97 ug/L	96
51)	dibromochloromethane	10.35	129	1464927	110.76 ug/L	99
52)	1,2-dibromoethane	10.51	107	1405087	94.04 ug/L	94
53)	chlorobenzene	11.31	112	2705759	84.11 ug/L	99
54)	1,1,1,2-tetrachloroethane	11.46	131	1084459	97.90 ug/L	98
55)	ethylbenzene	11.50	91	3872639	85.36 ug/L	99
56)	m,p-xylene	11.70	106	3036135	165.41 ug/L	100
57)	butyl acrylate	12.34	55	3520239	120.49 ug/L	95
58)	o-xylene	12.35	106	1549371	83.53 ug/L	99
59)	styrene	12.38	104	2868981	86.99 ug/L	99
60)	isopropylbenzene	12.99	105	3068704	85.06 ug/L	96
61)	bromobenzene	13.49	156	1199118	95.16 ug/L	96
62)	bromoform	12.70	173	1037735	110.57 ug/L	98
64)	1,2,3-trichloropropane	13.58	75	1324956	108.31 ug/L	96
65)	n-propylbenzene	13.70	91	3954381	86.74 ug/L	98
66)	2-chlorotoluene	13.84	91	2631676	89.09 ug/L	96
67)	4-chlorotoluene	14.03	91	2884909	88.13 ug/L	100
68)	1,3,5-trimethylbenzene	14.03	105	2727232	89.78 ug/L	97
70)	1,1,2,2-tetrachloroethane	13.54	83	1784451	91.96 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

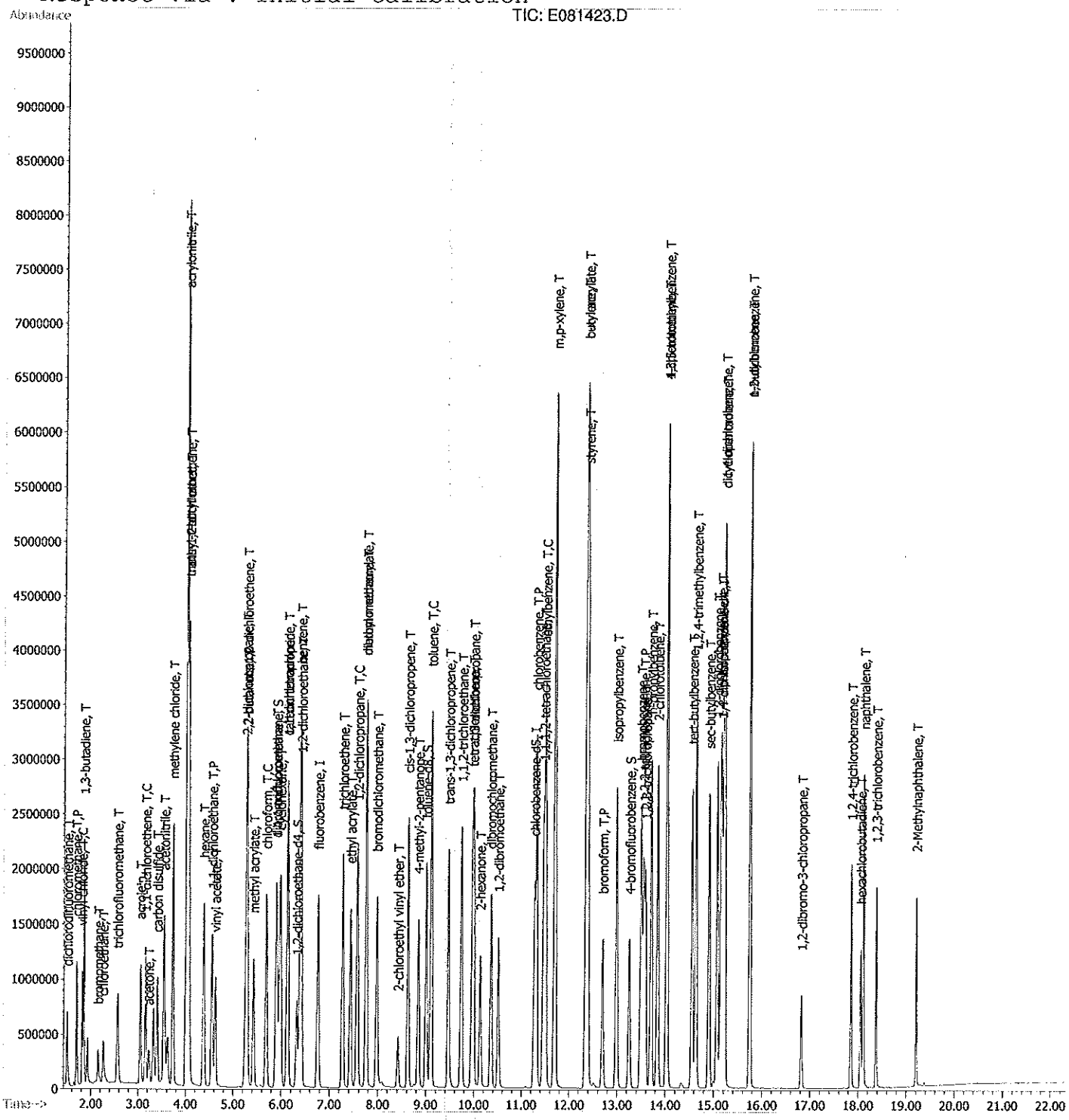
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.56	119	2203382	82.39 ug/L	94
72)	sec-butylbenzene	14.91	105	3117994	78.17 ug/L	98
73)	1,2,4-trimethylbenzene	14.64	105	2930495	81.66 ug/L	100
74)	1,3-dichlorobenzene	15.07	146	1810179	86.94 ug/L	98
75)	p-isopropyltoluene	15.14	119	2578732	85.98 ug/L	97
76)	dicyclopentadiene	15.23	66	4089239	85.96 ug/L	98
77)	1,4-dichlorobenzene	15.21	146	1870184	87.74 ug/L	99
78)	1,2-dichlorobenzene	15.75	146	1772218	88.98 ug/L	99
79)	n-butylbenzene	15.75	91	2131573	89.43 ug/L	99
80)	1,2-dibromo-3-chloropropan	16.82	75	244042	118.70 ug/L	93
81)	1,2,4-trichlorobenzene	17.86	180	779672	112.91 ug/L	96
82)	hexachlorobutadiene	18.05	225	303173	101.72 ug/L	96
83)	naphthalene	18.11	128	2537760	136.58 ug/L	100
84)	1,2,3-trichlorobenzene	18.38	180	693822	111.34 ug/L	97
85)	2-Methylnaphthalene	19.20	142	802263	216.62 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D
Acq On : 14 Aug 2008 10:40 pm
Sample : ,ical,ical W 200 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Vial: 8
Operator: BR
Inst : VOA5
Multiplr: 1.00

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2212111	50.00 ug/L	0.00
41) chlorobenzene-d5	11.26	117	1699961	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	739507	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.89	113	687660	55.00 ug/L	0.00
30) 1,2-dichloroethane-d4	6.31	65	654533	60.86 ug/L	0.00
44) toluene-d8	9.01	98	1978336	46.75 ug/L	0.00
63) 4-bromofluorobenzene	13.25	95	774080	49.84 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.50	85	1233187	113.02 ug/L	99
3) chloromethane	1.70	50	2160371	153.34 ug/L	100
4) vinyl chloride	1.81	62	2061215	162.97 ug/L	99
5) 1,3-butadiene	1.85	39	1624231	266.77 ug/L	93
6) bromomethane	2.16	94	307648	66.91 ug/L	98
7) chloroethane	2.26	64	260251	43.36 ug/L	92
8) trichlorofluoromethane	2.55	101	1658948	164.68 ug/L	97
9) acrolein	3.05	56	1992256	4018.10 ug/L	99
10) 1,1-dichloroethene	3.15	96	968812	164.45 ug/L #	89
11) acetone	3.24	43	834637	261.05 ug/L	98
12) carbon disulfide	3.40	76	2853901	161.15 ug/L	98
13) methylene chloride	3.73	84	2317512	169.05 ug/L	99
14) acrylonitrile	4.02	53	13784703	2601.15 ug/L	96
15) trans-1,2-dichloroethene	4.05	96	1726156	157.75 ug/L	99
16) methyl-t-butyl ether	4.07	73	6323238	204.43 ug/L	96
17) acetonitrile	3.55	41	4226771	2069.32 ug/L	97
18) hexane	4.37	57	2131314	201.02 ug/L #	94
19) 1,1-dichloroethane	4.55	63	3814415	207.50 ug/L	99
20) vinyl acetate	4.63	43	3961508	253.32 ug/L	100
21) cis-1,2-dichloroethene	5.28	96	2321210	170.81 ug/L	99
22) 2,2-dichloropropane	5.26	77	2247102	185.45 ug/L	98
23) 2-butanone	5.30	72	368288	246.69 ug/L	85
24) methyl acrylate	5.43	55	3521027	254.70 ug/L	97
25) chloroform	5.69	83	3526666	192.40 ug/L	99
27) 1,1,1-trichloroethane	5.91	97	2215537	178.10 ug/L	99
28) cyclohexane	5.98	56	2907646	196.97 ug/L	99

(#) = qualifier out of range (m) = manual integration

8/15/08 8/15/08

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D Vial: 8
Acq On : 14 Aug 2008 10:40 pm Operator: BR
Sample : ,ical,ical W 200 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.13	117	1998955	191.30 ug/L	98
31) benzene	6.39	78	7652723	187.24 ug/L	99
32) 1,1-dichloropropene	6.13	75	2353556	189.31 ug/L	97
33) 1,2-dichloroethane	6.42	62	3203070	214.19 ug/L	97
34) trichloroethene	7.28	95	1892877	178.51 ug/L	97
35) ethyl acrylate	7.43	55	4956508	263.46 ug/L	99
36) 1,2-dichloropropane	7.56	63	2644120	223.34 ug/L	96
37) methyl methacrylate	7.76	41	3067347	258.98 ug/L	95
38) dibromomethane	7.74	93	1771743	197.46 ug/L	96
39) bromodichloromethane	7.99	83	3130758	207.29 ug/L	99
40) 2-chloroethyl vinyl ether	8.42	63	577951	86.22 ug/L	97
42) cis-1,3-dichloropropene	8.63	75	4025348	197.09 ug/L	97
43) 4-methyl-2-pentanone	8.84	43	3846739	244.73 ug/L	97
45) toluene	9.11	92	4647125	162.56 ug/L	95
46) 1,1,2-trichloroethane	9.74	83	2120399	189.49 ug/L	99
47) 1,3-dichloropropane	9.99	76	4266025	189.59 ug/L	99
48) tetrachloroethene	9.96	164	1374888	164.60 ug/L	98
49) trans-1,3-dichloropropene	9.46	75	3481536	208.38 ug/L	98
50) 2-hexanone	10.13	43	2784027	268.89 ug/L	98
51) dibromochloromethane	10.36	129	3090987	223.11 ug/L	99
52) 1,2-dibromoethane	10.52	107	2953286	188.69 ug/L #	97
53) chlorobenzene	11.31	112	5630183	167.08 ug/L	99
54) 1,1,1,2-tetrachloroethane	11.46	131	2344015	202.01 ug/L	99
55) ethylbenzene	11.50	91	8050724	169.42 ug/L	99
56) m,p-xylene	11.70	106	6303374	327.85 ug/L	97
57) butyl acrylate	12.35	55	7117348	232.57 ug/L	96
58) o-xylene	12.36	106	3201638	164.79 ug/L	98
59) styrene	12.39	104	6063159	175.51 ug/L	99
60) isopropylbenzene	13.00	105	6488221	171.70 ug/L	97
61) bromobenzene	13.50	156	2532449	191.86 ug/L	97
62) bromoform	12.70	173	2187898	222.56 ug/L	99
64) 1,2,3-trichloropropane	13.59	75	2731807	213.19 ug/L	95
65) n-propylbenzene	13.70	91	8418900	176.31 ug/L	97
66) 2-chlorotoluene	13.84	91	5418788	175.12 ug/L	98
67) 4-chlorotoluene	14.03	91	5951470	173.56 ug/L	99
68) 1,3,5-trimethylbenzene	14.03	105	5641424	177.30 ug/L	98
70) 1,1,2,2-tetrachloroethane	13.55	83	3677883	189.69 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D
Acq On : 14 Aug 2008 10:40 pm
Sample : ,ical,ical W 200 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Vial: 8
Operator: BR
Inst : VOA5
Multiplr: 1.00

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) tert-butylbenzene	14.56	119	4681151	175.18 ug/L	97
72) sec-butylbenzene	14.91	105	6479948	162.58 ug/L	97
73) 1,2,4-trimethylbenzene	14.64	105	6218707	173.42 ug/L	98
74) 1,3-dichlorobenzene	15.07	146	3841370	184.64 ug/L	99
75) p-isopropyltoluene	15.14	119	5333418	177.96 ug/L	96
76) dicyclopentadiene	15.22	66	8285197	174.30 ug/L	99
77) 1,4-dichlorobenzene	15.21	146	3870660	181.73 ug/L	99
78) 1,2-dichlorobenzene	15.75	146	3685279	185.17 ug/L	98
79) n-butylbenzene	15.75	91	4327502	181.71 ug/L	99
80) 1,2-dibromo-3-chloropropan	16.82	75	485916	236.54 ug/L	98
81) 1,2,4-trichlorobenzene	17.85	180	1655792	239.97 ug/L	97
82) hexachlorobutadiene	18.06	225	626880	210.49 ug/L	97
83) naphthalene	18.10	128	5292816	285.07 ug/L	100
84) 1,2,3-trichlorobenzene	18.37	180	1468647	235.86 ug/L	96
85) 2-Methylnaphthalene	19.21	142	1705342	460.81 ug/L	98

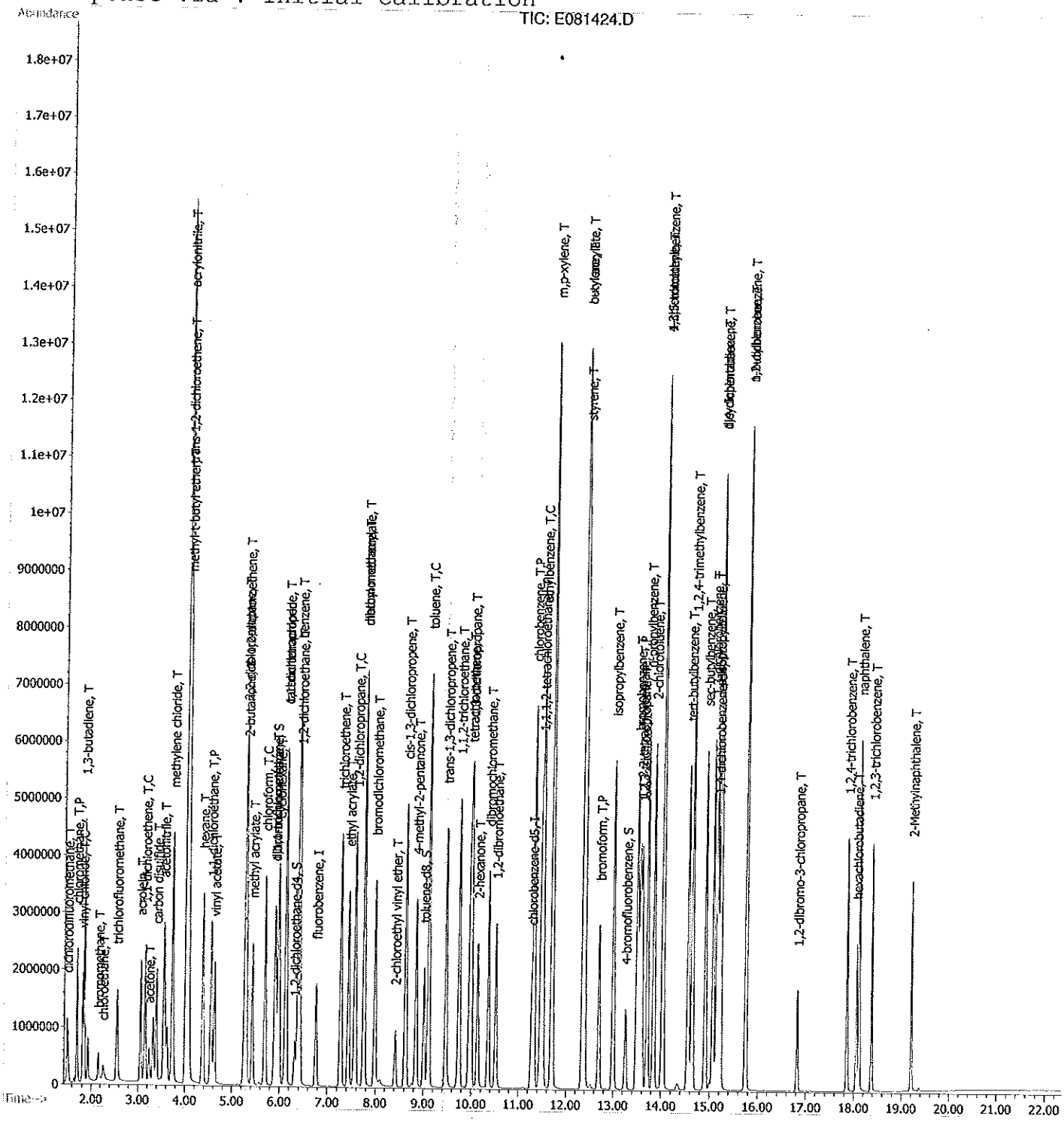
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D
Acq On : 14 Aug 2008 10:40 pm
Sample : ,ical,ical W 200 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Vial: 8
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



PR 8/15/08

Response Factor Report VOA #3

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:05:16 2008
Response via : Initial Calibration

8260 analysis

Calibration Files

70 = C081508.D

5	=C081504.D	10	=C081505.D	20	=C081506.D
50	=C081507.D	100	=C081509.D	200	=C081510.D

		Compound	5	10	20	50	100	200	Avg	%RSD
1)	I	fluorobenzene	ISTD							
2)	T	dichlorodifluoromet	PQL=10	0.449	0.459	0.488	0.553	0.514	0.494	7.70
3)	T,P	chloromethane	0.242	0.416	0.402	0.426	0.471	0.445	0.405	18.49
4)	T	1,3-butadiene	PQL=10	0.162	0.203	0.185	0.266	UQL=100	0.201	19.45
5)	T,C	vinyl chloride	↓	0.289	0.284	0.307	0.455	↓	0.329	21.79
6)	T	bromomethane	0.048	0.082	0.052	0.041	0.053	0.060	0.055	23.25
7)	T	chloroethane	0.034	0.115	0.108	0.074	UQL=70		0.078	43.62
8)	T	trichlorofluorometh	0.149	0.325	0.351	0.323	0.390	0.386	0.327	25.32
9)	T	acrolein	0.011	0.012	0.012	0.010	0.010	0.010	0.011	8.38
10)	T,C	1,1-dichloroethene	0.091	0.148	0.167	0.144	0.141	0.160	0.143	17.14
11)	T	acetone	PQL=50		0.080	0.063	0.059	0.049	0.062	18.43
12)	T	carbon disulfide	0.303	0.547	0.606	0.581	0.582	0.579	0.532	19.63
13)	T	methylene chloride	PQL=10	0.523	0.574	0.469	0.465	0.440	0.483	11.42
14)	T	acrylonitrile	0.124	0.138	0.142	0.119	0.123	0.103	0.125	10.08
15)	T	trans-1,2-dichloroe	0.190	0.326	0.357	0.285	0.290	0.312	0.293	17.70
16)	T	methyl-t-butyl ethe	0.598	0.755	0.867	0.708	0.710	0.707	0.725	10.96
17)	T	acetonitrile	0.059	0.059	0.057	0.058	0.062	0.052	0.058	5.55
18)	T	hexane	PQL=20		0.902	0.614	0.516	0.441	0.597	30.32
19)	T,P	1,1-dichloroethane	0.375	0.561	0.640	0.551	0.564	0.600	0.550	15.13
20)	T	vinyl acetate	0.359	0.435	0.500	0.412	0.405	0.417	0.414	11.21
21)	T	cis-1,2-dichloroeth	0.242	0.342	0.380	0.304	0.327	0.358	0.326	13.52
22)	T	2,2-dichloropropane	0.271	0.459	0.525	0.446	0.452	0.483	0.440	18.10
23)	T	2-butanone	0.030	0.030	0.039	0.026	0.032	0.025	0.030	16.25
24)	T	methyl acrylate	0.291	0.247	0.304	0.270	0.324	0.272	0.289	9.53
25)	T,C	chloroform	0.389	0.624	0.704	0.585	0.607	0.658	0.597	16.73
26)	S	dibromofluoromethan	0.395	0.394	0.393	0.369	0.362	0.390	0.384	3.51
27)	T	1,1,1-trichloroetha	0.270	0.438	0.519	0.425	0.469	0.492	0.437	18.46
28)	T	cyclohexane	PQL=10	0.386	0.432	0.419	0.464	0.456	0.431	6.46
29)	T	carbon tetrachlorid	0.215	0.369	0.450	0.392	0.419	0.433	0.382	20.58
30)	S	1,2-dichloroethane-	0.355	0.378	0.372	0.349	0.345	0.346	0.358	3.61
31)	T	benzene	0.763	1.075	1.281	1.054	1.117	1.075	1.057	14.52
32)	T	1,1-dichloropropene	0.253	0.426	0.493	0.425	0.452	0.446	0.417	18.26
33)	T	1,2-dichloroethane	0.372	0.453	0.502	0.423	0.434	0.450	0.439	8.90
34)	T	trichloroethene	0.182	0.296	0.330	0.284	0.317	0.322	0.288	17.33
35)	T	ethyl acrylate	0.308	0.350	0.407	0.416	0.440	0.396	0.384	11.55
36)	T,C	1,2-dichloropropane	0.254	0.323	0.344	0.299	0.316	0.321	0.308	9.31
37)	T	methyl methacrylate	0.241	0.229	0.260	0.267	0.288	0.252	0.257	7.39
38)	T	dibromomethane	0.227	0.243	0.276	0.237	0.242	0.250	0.245	6.26
39)	T	bromodichloromethan	0.366	0.481	0.579	0.483	0.500	0.531	0.490	13.26

(#) = Out of Range ### Number of calibration levels exceeded format ### 15/10

VOA0815.M Fri Aug 15 15:07:18 2008 VOA8 Page 1

Response Factor Report VOA #3

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:05:16 2008
Response via : Initial Calibration

Calibration Files
5 =C081504.D 10 =C081505.D 20 =C081506.D
50 =C081507.D 100 =C081509.D 200 =C081510.D

		Compound	5	10	20	50	100	200	Avg	%RSD
40)	T	2-chloroethyl vinyl	0.081	0.107	0.114	0.120	0.148	0.130	0.120	18.33
41)	I	chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
42)	T	cis-1,3-dichloropro	0.537	0.714	0.781	0.663	0.687	0.733	0.687	11.08
43)	T	4-methyl-2-pentanon	PQL=10	0.416	0.540	0.445	0.463	0.396	0.451	11.05
44)	S	toluene-d8	1.195	1.190	1.180	1.192	1.185	1.194	1.190	0.46
45)	T,C	toluene	0.551	0.784	0.852	0.804	0.832	0.822	0.777	13.18
46)	T	1,1,2-trichloroetha	0.278	0.299	0.371	0.313	0.335	0.333	0.324	9.36
47)	T	1,3-dichloropropane	0.510	0.623	0.736	0.593	0.640	0.642	0.624	10.77
48)	T	tetrachloroethene	0.146	0.245	0.279	0.269	0.290	0.293	0.255	19.85
49)	T	trans-1,3-dichlorop	0.485	0.606	0.693	0.569	0.593	0.609	0.594	10.38
50)	T	2-hexanone	0.209	0.295	0.358	0.320	0.320	0.273	0.297	15.79
51)	T	dibromochloromethan	0.395	0.474	0.593	0.495	0.525	0.550	0.507	12.34
52)	T	1,2-dibromoethane	0.355	0.413	0.510	0.431	0.468	0.445	0.439	10.98
53)	T,P	chlorobenzene	0.675	0.931	1.046	0.955	1.004	0.988	0.934	12.96
54)	T	1,1,1,2-tetrachloro	0.269	0.357	0.403	0.365	0.369	0.370	0.355	11.64
55)	T,C	ethylbenzene	0.942	1.683	1.814	1.611	1.617	1.543	1.539	18.08
56)	T	m,p-xylene	0.341	0.567	0.613	0.542	0.548	0.524	0.524	16.36
57)	T	butyl acrylate	0.701	0.832	0.875	0.929	0.867	0.778	0.829	8.92
58)	T	o-xylene	0.318	0.541	0.583	0.530	0.529	0.529	0.508	16.98
59)	T	styrene	0.699	1.001	1.056	0.953	0.978	0.974	0.944	12.07
60)	T	isopropylbenzene	0.732	1.270	1.433	1.256	1.311	1.296	1.221	18.36
61)	T	bromobenzene	0.287	0.394	0.435	0.396	0.416	0.412	0.390	12.31
62)	T,P	bromoform	0.223	0.294	0.329	0.312	0.351	0.326	0.309	13.40
63)	S	4-bromofluorobenzen	0.504	0.545	0.513	0.539	0.524	0.517	0.524	2.77
64)	T	1,2,3-trichloroprop	0.344	0.393	0.440	0.383	0.387	0.314	0.377	10.57
65)	T	n-propylbenzene	1.091	2.002	2.176	1.924	1.916	1.839	1.830	18.84
66)	T	2-chlorotoluene	0.771	1.177	1.280	1.150	1.149	1.135	1.110	14.33
67)	T	4-chlorotoluene	0.808	1.349	1.449	1.292	1.304	1.275	1.244	16.43
68)	T	1,3,5-trimethylbenz	0.718	1.175	1.262	1.139	1.155	1.158	1.098	16.02
69)	I	1,4-dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
70)	T,P	1,1,2,2-tetrachloro	1.080	1.068	1.418	1.179	1.324	1.170	1.203	10.54
71)	T	tert-butylbenzene	1.024	2.000	2.423	2.027	2.195	2.265	1.987	22.88
72)	T	sec-butylbenzene	1.855	3.426	3.986	3.438	3.635	3.705	3.333	20.72
73)	T	1,2,4-trimethylbenz	1.635	2.491	2.864	2.569	2.735	2.839	2.507	16.78
74)	T	1,3-dichlorobenzene	1.088	1.467	1.637	1.470	1.578	1.621	1.465	12.88
75)	T	p-isopropyltoluene	1.357	2.528	2.823	2.480	2.616	2.669	2.410	20.10
76)	T	dicyclopentadiene	2.651	3.636	3.834	3.657	4.007	4.074	3.639	12.98
77)	T	1,4-dichlorobenzene	1.114	1.477	1.660	1.458	1.547	1.585	1.464	12.04

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA #3

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:05:16 2008
Response via : Initial Calibration

Calibration Files
5 =C081504.D 10 =C081505.D 20 =C081506.D
50 =C081507.D 100 =C081509.D 200 =C081510.D

		Compound	5	10	20	50	100	200	Avg	%RSD
78)	T	1,2-dichlorobenzene	0.982	1.316	1.597	1.408	1.498	1.520	1.379	14.70
79)	T	n-butylbenzene	1.588	2.910	3.320	2.924	3.008	2.996	2.787	19.92
80)	T	1,2-dibromo-3-chlor	0.203	0.217	0.228	0.205	0.230	0.194	0.212	6.35
81)	T	1,2,4-trichlorobenz	0.619	0.851	0.982	0.890	0.939	0.966	0.874	14.04
82)	T	hexachlorobutadiene	0.196	0.378	0.460	0.441	0.446	0.473	0.401	23.85
83)	T	naphthalene	2.179	2.118	2.245	2.081	2.239	1.943	2.118	5.29
84)	T	1,2,3-trichlorobenz	0.559	0.798	0.916	0.847	0.913	0.892	0.818	15.23
85)	T	2-Methylnaphthalene	0.406	0.503	0.577	0.805	0.788	0.630	25.58

PQL=10

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081504.D Vial: 4
Acq On : 15 Aug 2008 11:25 am Operator: BR
Sample : ,ICAL,8260 ICAL 5PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:23:01 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

8/15/8

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1853450	50.00 ug/L	0.00
41) chlorobenzene-d5	11.38	117	1361949	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	615547	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	732808	54.03 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	658381	51.94 ug/L	0.00
44) toluene-d8	9.14	98	1627915	50.31 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	686189	47.16 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.67	85	39862	2.92 ug/L	88
3) chloromethane	1.86	50	44916	3.22 ug/L	92
4) 1,3-butadiene	2.02	39	21843	2.93 ug/L	92
5) vinyl chloride	1.98	62	27741	2.75 ug/L	86
6) bromomethane	2.36	94	8939	5.85 ug/L #	78
7) chloroethane	2.45	64	6372	2.41 ug/L #	13
8) trichlorofluoromethane	2.72	101	27592	2.51 ug/L	83
9) acrolein	3.30	56	19651	58.24 ug/L	84
10) 1,1-dichloroethene	3.34	96	16945	3.75 ug/L #	71
11) acetone	3.50	43	28850	12.91 ug/L	96
12) carbon disulfide	3.59	76	56076	3.40 ug/L	89
13) methylene chloride	3.97	84	162557	9.81 ug/L #	83
14) acrylonitrile	4.32	53	229930	54.49 ug/L	94
15) trans-1,2-dichloroethene	4.25	96	35276	3.67 ug/L	87
16) methyl-t-butyl ether	4.26	73	110919	4.76 ug/L	91
17) acetonitrile	3.86	41	108708	50.86 ug/L	92
18) hexane	4.51	57	402786	22.28 ug/L	97
19) 1,1-dichloroethane	4.78	63	69508	3.83 ug/L	91
20) vinyl acetate	4.86	43	66486	4.80 ug/L	99
21) cis-1,2-dichloroethene	5.51	96	44929	4.21 ug/L #	83
22) 2,2-dichloropropane	5.47	77	50257	3.40 ug/L	93
23) 2-butanone	5.60	72	5649	5.37 ug/L #	16
24) methyl acrylate	5.65	55	53942	5.25 ug/L	86
25) chloroform	5.92	83	72061	3.64 ug/L	95
27) 1,1,1-trichloroethane	6.08	97	49989	3.56 ug/L	94
28) cyclohexane	6.11	56	34436	2.28 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081504.D Vial: 4
Acq On : 15 Aug 2008 11:25 am Operator: BR
Sample : ,ICAL,8260 ICAL 5PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:23:01 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.28	117	39762	3.17 ug/L #	68
31) benzene	6.57	78	141410	3.92 ug/L	99
32) 1,1-dichloropropene	6.28	75	46943	3.37 ug/L #	85
33) 1,2-dichloroethane	6.66	62	68910	5.04 ug/L	89
34) trichloroethene	7.44	95	33825	3.40 ug/L	87
35) ethyl acrylate	7.63	55	57150	4.11 ug/L	92
36) 1,2-dichloropropane	7.77	63	47034	4.57 ug/L	80
37) methyl methacrylate	7.94	41	44668	4.73 ug/L	92
38) dibromomethane	7.97	93	42019	5.17 ug/L #	74
39) bromodichloromethane	8.18	83	67767	4.10 ug/L	97
40) 2-chloroethyl vinyl ether	8.62	63	15081	3.63 ug/L #	76
42) cis-1,3-dichloropropene	8.81	75	73137	4.30 ug/L	80
43) 4-methyl-2-pentanone	9.24	43	3759	0.34 ug/L	100
45) toluene	9.25	92	74999	3.71 ug/L	92
46) 1,1,2-trichloroethane	9.95	83	37797	4.57 ug/L	89
47) 1,3-dichloropropane	10.18	76	69461	4.49 ug/L #	82
48) tetrachloroethene	10.06	164	19951	3.06 ug/L #	89
49) trans-1,3-dichloropropene	9.66	75	66044	4.48 ug/L #	91
50) 2-hexanone	10.32	43	28441	3.53 ug/L	76
51) dibromochloromethane	10.54	129	53846	4.28 ug/L	96
52) 1,2-dibromoethane	10.70	107	48340	4.51 ug/L	82
53) chlorobenzene	11.43	112	91969	3.88 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.58	131	36608	4.05 ug/L #	93
55) ethylbenzene	11.59	91	128273	3.16 ug/L	96
56) m,p-xylene	11.79	106	92920	6.81 ug/L	93
57) butyl acrylate	12.46	55	95447	4.07 ug/L	94
58) o-xylene	12.45	106	43259	3.27 ug/L	88
59) styrene	12.50	104	95215	3.90 ug/L	73
60) isopropylbenzene	13.06	105	99756	3.14 ug/L	98
61) bromobenzene	13.59	156	39117	4.00 ug/L #	86
62) bromoform	12.85	173	30421	3.93 ug/L	87
64) 1,2,3-trichloropropane	13.75	75	46842	5.06 ug/L	92
65) n-propylbenzene	13.76	91	148567	3.06 ug/L	94
66) 2-chlorotoluene	13.92	91	104975	3.63 ug/L	91
67) 4-chlorotoluene	14.10	91	110025	3.37 ug/L	91
68) 1,3,5-trimethylbenzene	14.07	105	97811	3.45 ug/L #	84
70) 1,1,2,2-tetrachloroethane	13.70	83	66487	4.71 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081504.D Vial: 4
Acq On : 15 Aug 2008 11:25 am Operator: BR
Sample : ,ICAL,8260 ICAL 5PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:23:01 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

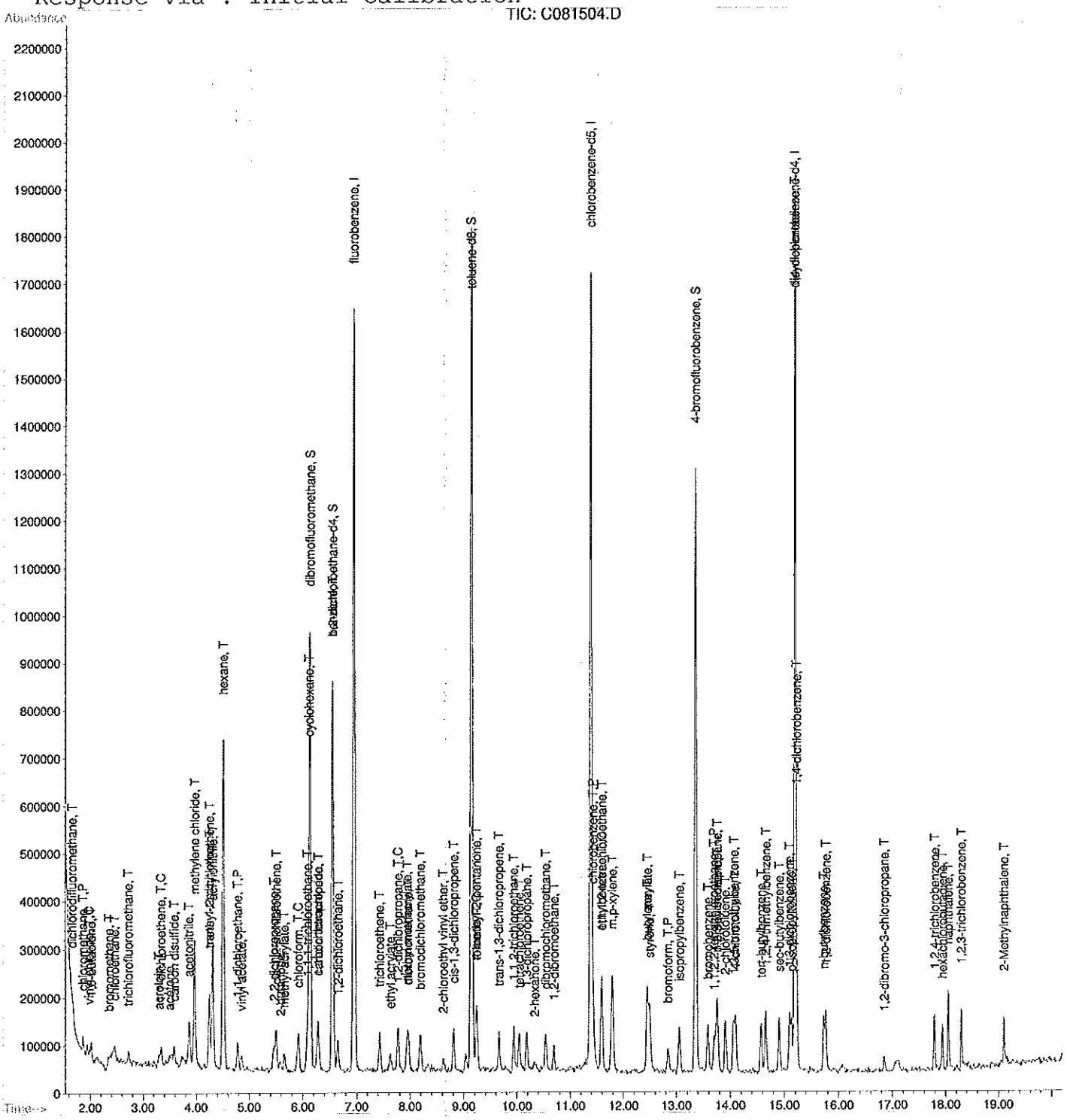
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.58	119	63044	2.72 ug/L	95
72)	sec-butylbenzene	14.91	105	114177	2.94 ug/L	96
73)	1,2,4-trimethylbenzene	14.66	105	100663	3.48 ug/L	99
74)	1,3-dichlorobenzene	15.10	146	66963	3.95 ug/L	89
75)	p-isopropyltoluene	15.14	119	83525	3.01 ug/L	93
76)	dicyclopentadiene	15.20	66	163198	3.56 ug/L	94
77)	1,4-dichlorobenzene	15.24	146	68545	3.98 ug/L	87
78)	1,2-dichlorobenzene	15.78	146	60425	3.75 ug/L	99
79)	n-butylbenzene	15.73	91	97753	2.94 ug/L	88
80)	1,2-dibromo-3-chloropropan	16.84	75	12474	5.07 ug/L #	55
81)	1,2,4-trichlorobenzene	17.80	180	38084	3.85 ug/L	95
82)	hexachlorobutadiene	17.94	225	12080	2.61 ug/L #	62
83)	naphthalene	18.05	128	134121	5.00 ug/L	100
84)	1,2,3-trichlorobenzene	18.30	180	34380	3.73 ug/L	91
85)	2-Methylnaphthalene	19.10	142	49754	6.23 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C081508\C081504.D Vial: 4
Acq On : 15 Aug 2008 11:25 am Operator: BR
Sample : ,ICAL,8260 ICAL 5PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:24 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:23:01 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081505.D Vial: 5
Acq On : 15 Aug 2008 11:56 am Operator: BR
Sample : ,ICAL,8260 ICAL 10PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:30 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

8/15/8

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1858729	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1379407	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	650565	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	731609	53.42 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	701757	55.14 ug/L	0.00
44) toluene-d8	9.14	98	1641626	49.95 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	751661	51.41 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.67	85	166779	12.36 ug/L	98
3) chloromethane	1.88	50	154746	11.56 ug/L	98
4) 1,3-butadiene	2.02	39	60296	8.56 ug/L	94
5) vinyl chloride	1.99	62	107603	11.01 ug/L	91
6) bromomethane	2.35	94	30315	19.32 ug/L	86
7) chloroethane	2.48	64	42897	18.29 ug/L	85
8) trichlorofluoromethane	2.74	101	121002	11.36 ug/L	82
9) acrolein	3.30	56	45214	130.40 ug/L	95
10) 1,1-dichloroethene	3.36	96	55119	12.35 ug/L #	87
11) acetone	3.50	43	39049	12.90 ug/L	86
12) carbon disulfide	3.60	76	203228	12.53 ug/L	100
13) methylene chloride	3.96	84	194453	10.28 ug/L	86
14) acrylonitrile	4.32	53	512970	122.21 ug/L	99
15) trans-1,2-dichloroethene	4.26	96	121253	12.75 ug/L	93
16) methyl-t-butyl ether	4.25	73	280777	11.91 ug/L	94
17) acetonitrile	3.86	41	219823	105.45 ug/L	97
18) hexane	4.52	57	163667	5.73 ug/L	99
19) 1,1-dichloroethane	4.79	63	208401	11.72 ug/L	93
20) vinyl acetate	4.86	43	161591	11.71 ug/L	100
21) cis-1,2-dichloroethene	5.51	96	127253	11.73 ug/L	94
22) 2,2-dichloropropane	5.46	77	170555	11.80 ug/L	95
23) 2-butanone	5.58	72	11148	10.88 ug/L #	79
24) methyl acrylate	5.66	55	91637	8.83 ug/L	90
25) chloroform	5.92	83	232088	11.91 ug/L	99
27) 1,1,1-trichloroethane	6.09	97	162919	11.56 ug/L	93
28) cyclohexane	6.10	56	143633	10.07 ug/L	86

(#) = qualifier out of range (m) = manual integration
C081505.D VOA0815.M Fri Aug 15 14:30:50 2008 VOA8 8/18/08 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081505.D Vial: 5
Acq On : 15 Aug 2008 11:56 am Operator: BR
Sample : ,ICAL,8260 ICAL 10PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:30 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.29	117	137069	11.14 ug/L	96
31) benzene	6.57	78	399516	11.29 ug/L	95
32) 1,1-dichloropropene	6.30	75	158238	11.41 ug/L	95
33) 1,2-dichloroethane	6.66	62	168348	11.99 ug/L	96
34) trichloroethene	7.44	95	109957	11.25 ug/L	94
35) ethyl acrylate	7.63	55	130155	9.51 ug/L	98
36) 1,2-dichloropropane	7.78	63	120145	11.65 ug/L	98
37) methyl methacrylate	7.94	41	85116	9.21 ug/L	88
38) dibromomethane	7.96	93	90475	10.97 ug/L #	89
39) bromodichloromethane	8.20	83	178893	10.93 ug/L	98
40) 2-chloroethyl vinyl ether	8.61	63	39601	9.75 ug/L #	84
42) cis-1,3-dichloropropene	8.82	75	197029	11.39 ug/L	88
43) 4-methyl-2-pentanone	9.05	43	114746	11.51 ug/L #	87
45) toluene	9.24	92	216243	10.75 ug/L #	79
46) 1,1,2-trichloroethane	9.94	83	82359	9.78 ug/L	87
47) 1,3-dichloropropane	10.19	76	171959	10.98 ug/L #	88
48) tetrachloroethene	10.05	164	67511	10.48 ug/L	97
49) trans-1,3-dichloropropene	9.67	75	167170	11.21 ug/L	97
50) 2-hexanone	10.32	43	81301	10.39 ug/L	82
51) dibromochloromethane	10.54	129	130676	10.33 ug/L	96
52) 1,2-dibromoethane	10.69	107	113866	10.42 ug/L #	97
53) chlorobenzene	11.44	112	256930	10.76 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.60	131	98594	10.94 ug/L	98
55) ethylbenzene	11.60	91	464317	11.68 ug/L	91
56) m,p-xylene	11.78	106	312631	23.39 ug/L	94
57) butyl acrylate	12.45	55	229401	9.96 ug/L	97
58) o-xylene	12.44	106	149227	11.44 ug/L	95
59) styrene	12.49	104	276150	11.29 ug/L	94
60) isopropylbenzene	13.05	105	350412	11.20 ug/L	95
61) bromobenzene	13.59	156	108613	10.97 ug/L	86
62) bromoform	12.85	173	81239	10.49 ug/L	89
64) 1,2,3-trichloropropane	13.74	75	108492	11.36 ug/L #	86
65) n-propylbenzene	13.76	91	552397	11.67 ug/L	95
66) 2-chlorotoluene	13.91	91	324765	11.37 ug/L	93
67) 4-chlorotoluene	14.10	91	372225	11.58 ug/L	90
68) 1,3,5-trimethylbenzene	14.07	105	324163	11.62 ug/L	93
70) 1,1,2,2-tetrachloroethane	13.71	83	138911	9.42 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081505.D Vial: 5
Acq On : 15 Aug 2008 11:56 am Operator: BR
Sample : ,ICAL,8260 ICAL 10PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:30 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

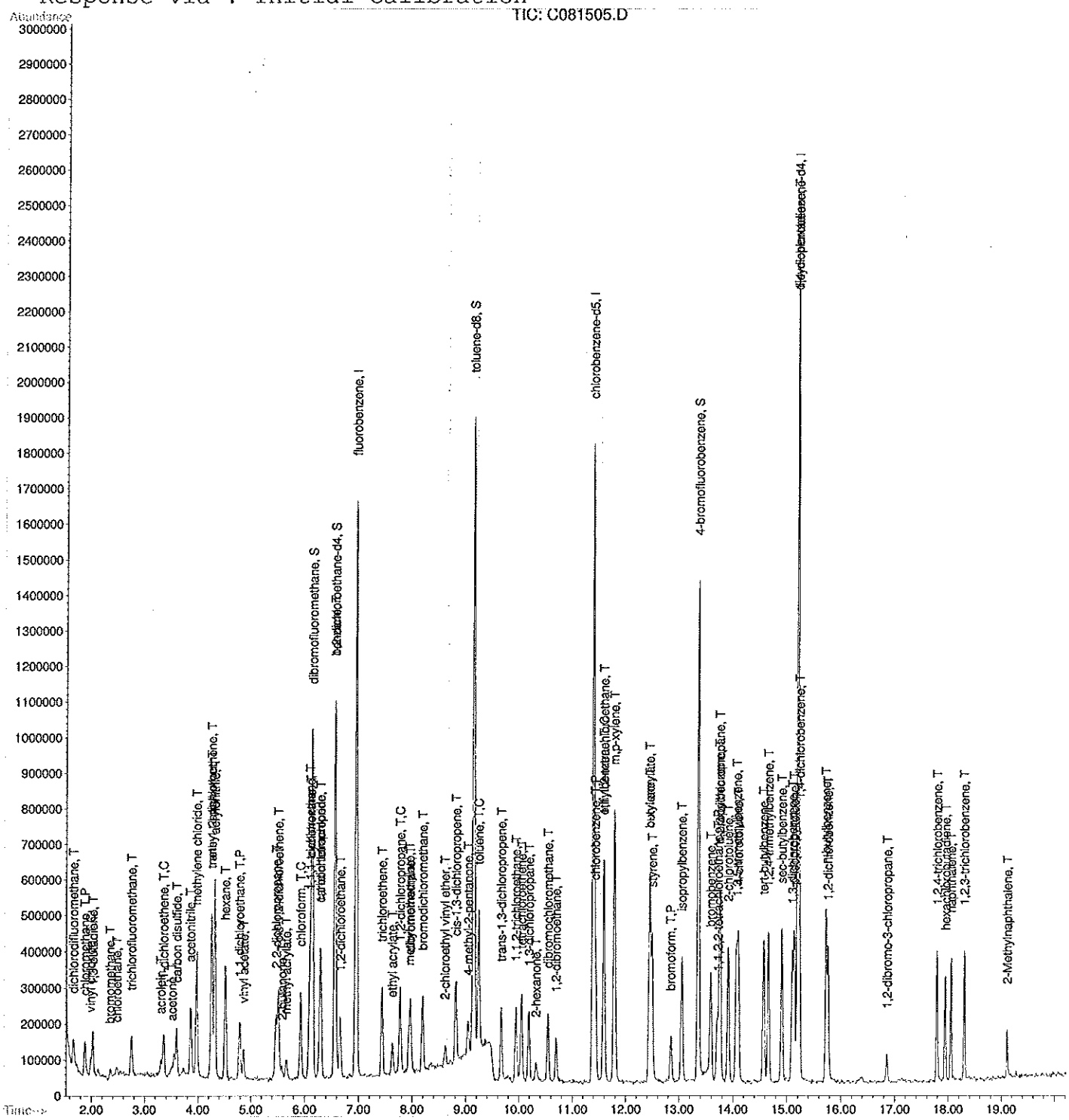
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.58	119	260213	11.05 ug/L	91
72)	sec-butylbenzene	14.90	105	445781	11.23 ug/L	93
73)	1,2,4-trimethylbenzene	14.66	105	324093	10.87 ug/L	93
74)	1,3-dichlorobenzene	15.10	146	190906	10.71 ug/L	89
75)	p-isopropyltoluene	15.14	119	328925	11.54 ug/L	93
76)	dicyclopentadiene	15.20	66	473056	10.07 ug/L	97
77)	1,4-dichlorobenzene	15.24	146	192187	10.76 ug/L	93
78)	1,2-dichlorobenzene	15.77	146	171185	10.16 ug/L	90
79)	n-butylbenzene	15.72	91	378625	11.27 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.85	75	28278	10.87 ug/L	93
81)	1,2,4-trichlorobenzene	17.79	180	110692	10.61 ug/L	94
82)	hexachlorobutadiene	17.95	225	49238	10.38 ug/L	93
83)	naphthalene	18.06	128	275570	9.88 ug/L	100
84)	1,2,3-trichlorobenzene	18.30	180	103820	10.83 ug/L	95
85)	2-Methylnaphthalene	19.11	142	52778	6.18 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C081508\C081505.D Vial: 5
Acq On : 15 Aug 2008 11:56 am Operator: BR
Sample : ,ICAL,8260 ICAL 10PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:30 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081506.D Vial: 6
Acq On : 15 Aug 2008 12:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 20PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:36 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

8/15/8

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1680042	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	1219071	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	542084	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	659635	52.81 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	624600	53.97 ug/L	0.00
44) toluene-d8	9.14	98	1438826	49.51 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	624967	48.30 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	308698	24.23 ug/L	95
3) chloromethane	1.88	50	270453	21.69 ug/L	98
4) 1,3-butadiene	2.02	39	136668	21.47 ug/L	95
5) vinyl chloride	1.99	62	190940	20.31 ug/L	97
6) bromomethane	2.36	94	35263	21.10 ug/L #	81
7) chloroethane	2.47	64	72699	32.28 ug/L	89
8) trichlorofluoromethane	2.75	101	236093	23.69 ug/L	91
9) acrolein	3.31	56	79549	242.95 ug/L	97
10) 1,1-dichloroethene	3.35	96	112369	26.70 ug/L	94
11) acetone	3.50	43	53567	19.85 ug/L	77
12) carbon disulfide	3.59	76	407014	26.50 ug/L	98
13) methylene chloride	3.97	84	385754	22.65 ug/L	97
14) acrylonitrile	4.32	53	952172	242.55 ug/L	98
15) trans-1,2-dichloroethene	4.26	96	239891	26.97 ug/L	96
16) methyl-t-butyl ether	4.25	73	582410	26.49 ug/L	97
17) acetonitrile	3.87	41	381179	202.34 ug/L #	95
18) hexane	4.52	57	605952	23.16 ug/L	95
19) 1,1-dichloroethane	4.79	63	429789	26.00 ug/L	98
20) vinyl acetate	4.86	43	336030	26.33 ug/L	99
21) cis-1,2-dichloroethene	5.51	96	255110	25.62 ug/L #	86
22) 2,2-dichloropropane	5.46	77	352609	26.15 ug/L	100
23) 2-butanone	5.58	72	26408	28.12 ug/L #	68
24) methyl acrylate	5.66	55	204362	21.93 ug/L	93
25) chloroform	5.92	83	473366	25.95 ug/L	95
27) 1,1,1-trichloroethane	6.09	97	349098	26.68 ug/L	98
28) cyclohexane	6.11	56	290166	22.33 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081506.D Vial: 6
Acq On : 15 Aug 2008 12:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 20PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:36 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.28	117	302126	26.50 ug/L	97
31) benzene	6.57	78	860923	26.39 ug/L	97
32) 1,1-dichloropropene	6.30	75	331235	25.97 ug/L	96
33) 1,2-dichloroethane	6.66	62	337538	25.60 ug/L	97
34) trichloroethene	7.44	95	221679	24.62 ug/L	93
35) ethyl acrylate	7.63	55	273820	22.13 ug/L	97
36) 1,2-dichloropropane	7.78	63	231466	24.10 ug/L	95
37) methyl methacrylate	7.94	41	174774	21.06 ug/L	99
38) dibromomethane	7.97	93	185728	24.55 ug/L	93
39) bromodichloromethane	8.20	83	389275	25.82 ug/L	97
40) 2-chloroethyl vinyl ether	8.62	63	76704	20.38 ug/L	93
42) cis-1,3-dichloropropene	8.81	75	380718	24.10 ug/L	99
43) 4-methyl-2-pentanone	9.05	43	263400	29.79 ug/L #	92
45) toluene	9.24	92	415552	23.02 ug/L #	82
46) 1,1,2-trichloroethane	9.94	83	180833	24.25 ug/L	97
47) 1,3-dichloropropane	10.19	76	359033	25.43 ug/L	98
48) tetrachloroethene	10.05	164	135844	23.37 ug/L	87
49) trans-1,3-dichloropropene	9.67	75	337943	24.95 ug/L	91
50) 2-hexanone	10.33	43	174357	25.05 ug/L	90
51) dibromochloromethane	10.54	129	289382	25.40 ug/L	97
52) 1,2-dibromoethane	10.70	107	248758	25.27 ug/L	89
53) chlorobenzene	11.44	112	510270	23.70 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.60	131	196443	24.05 ug/L #	83
55) ethylbenzene	11.60	91	884319	24.71 ug/L	97
56) m,p-xylene	11.79	106	597504	49.46 ug/L	97
57) butyl acrylate	12.45	55	426827	20.98 ug/L	98
58) o-xylene	12.44	106	284336	24.16 ug/L #	84
59) styrene	12.49	104	514848	23.36 ug/L	97
60) isopropylbenzene	13.05	105	698763	24.83 ug/L	100
61) bromobenzene	13.59	156	212275	23.69 ug/L	94
62) bromoform	12.86	173	160482	23.09 ug/L	87
64) 1,2,3-trichloropropane	13.75	75	214795	24.96 ug/L	94
65) n-propylbenzene	13.76	91	1061263	24.87 ug/L	96
66) 2-chlorotoluene	13.91	91	623923	24.25 ug/L	98
67) 4-chlorotoluene	14.11	91	706647	24.36 ug/L	95
68) 1,3,5-trimethylbenzene	14.07	105	615166	24.50 ug/L	97
70) 1,1,2,2-tetrachloroethane	13.70	83	307505	25.04 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081506.D Vial: 6
Acq On : 15 Aug 2008 12:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 20PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:36 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

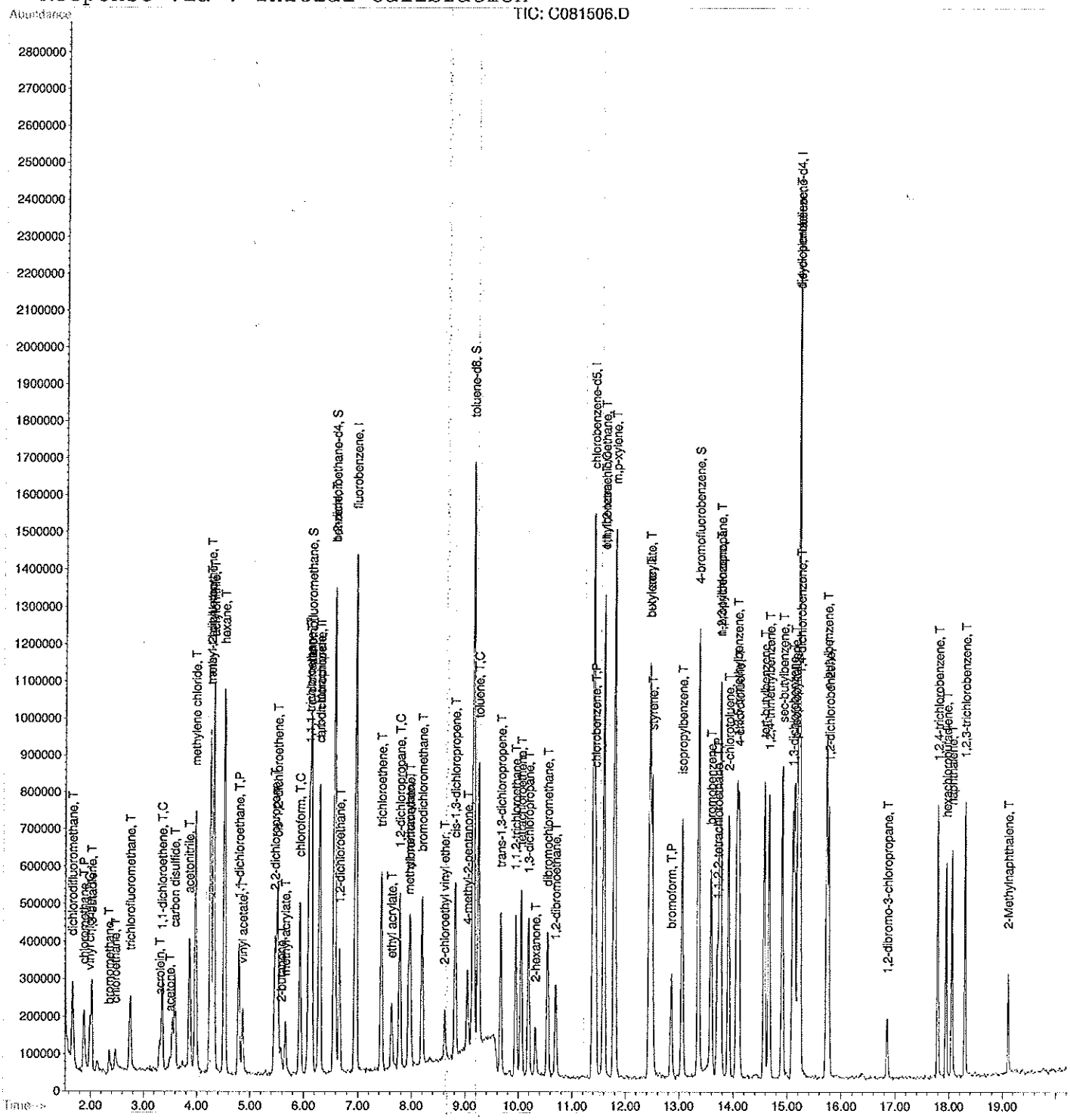
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.57	119	525431	26.07 ug/L	95
72)	sec-butylbenzene	14.91	105	864305	25.54 ug/L	95
73)	1,2,4-trimethylbenzene	14.66	105	621082	24.52 ug/L	99
74)	1,3-dichlorobenzene	15.10	146	354972	23.41 ug/L	97
75)	p-isopropyltoluene	15.14	119	612168	25.18 ug/L	94
76)	dicyclopentadiene	15.20	66	831252	21.00 ug/L	98
77)	1,4-dichlorobenzene	15.24	146	359940	23.76 ug/L	96
78)	1,2-dichlorobenzene	15.77	146	346309	24.46 ug/L	96
79)	n-butylbenzene	15.73	91	719899	25.28 ug/L	95
80)	1,2-dibromo-3-chloropropan	16.84	75	49405	22.33 ug/L	92
81)	1,2,4-trichlorobenzene	17.79	180	212889	24.02 ug/L	98
82)	hexachlorobutadiene	17.95	225	99840	24.61 ug/L	97
83)	naphthalene	18.06	128	486697	21.18 ug/L	100
84)	1,2,3-trichlorobenzene	18.30	180	198680	24.17 ug/L	96
85)	2-Methylnaphthalene	19.11	142	109153m2	16.36 ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C081508\C081506.D Vial: 6
Acq On : 15 Aug 2008 12:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 20PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:36 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081507.D Vial: 7
Acq On : 15 Aug 2008 12:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 50PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 15:04 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Thu Aug 14 11:03:01 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

8/15/08

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	2106645	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.39	117	1573424	50.00 ug/L	-0.04
69) 1,4-dichlorobenzene-d4	15.20	152	723425	50.00 ug/L	-0.05
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	777004	50.71 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.56	65	735235	51.89 ug/L	-0.03
44) toluene-d8	9.15	98	1875954	50.19 ug/L	-0.03
63) 4-bromofluorobenzene	13.36	95	847816	50.80 ug/L	-0.04
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	1027630	68.22 ug/L	95
3) chloromethane	1.87	50	897366	56.61 ug/L	98
4) 1,3-butadiene	2.02	39	389626	46.64 ug/L	93
5) vinyl chloride	1.99	62	646211	58.08 ug/L	88
6) bromomethane	2.34	94	86191	50.87 ug/L	96
7) chloroethane	2.46	64	155610	46.88 ug/L	98
8) trichlorofluoromethane	2.74	101	681449	54.60 ug/L	95
9) acrolein	3.31	56	214731	597.46 ug/L	94
10) 1,1-dichloroethene	3.35	96	303874	60.33 ug/L	91
11) acetone	3.49	43	133178	55.77 ug/L	83
12) carbon disulfide	3.59	76	1223613	67.93 ug/L	96
13) methylene chloride	3.97	84	988280	53.51 ug/L	92
14) acrylonitrile	4.32	53	2514414	544.83 ug/L	96
15) trans-1,2-dichloroethene	4.26	96	599347	55.36 ug/L	98
16) methyl-t-butyl ether	4.25	73	1492348	58.01 ug/L	98
17) acetonitrile	3.86	41	1231226	534.42 ug/L	98
18) hexane	4.52	57	1293225	68.07 ug/L	99
19) 1,1-dichloroethane	4.78	63	1160550	56.98 ug/L	96
20) vinyl acetate	4.85	43	866893	56.72 ug/L	97
21) cis-1,2-dichloroethene	5.51	96	640108	52.66 ug/L	87
22) 2,2-dichloropropane	5.46	77	940269	56.38 ug/L	99
23) 2-butanone	5.57	72	55393	47.75 ug/L #	96
24) methyl acrylate	5.66	55	568719	49.94 ug/L	98
25) chloroform	5.93	83	1231775	55.15 ug/L	97
27) 1,1,1-trichloroethane	6.08	97	895382	56.35 ug/L	96
28) cyclohexane	6.10	56	883343	51.15 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081507.D Vial: 7
Acq On : 15 Aug 2008 12:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 50PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 15:04 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Thu Aug 14 11:03:01 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.28	117	825783	58.94 ug/L	98
31) benzene	6.58	78	2219905	54.12 ug/L	96
32) 1,1-dichloropropene	6.29	75	894396	56.55 ug/L	96
33) 1,2-dichloroethane	6.67	62	890296	58.50 ug/L	97
34) trichloroethene	7.44	95	599117	52.79 ug/L	95
35) ethyl acrylate	7.62	55	876929	57.19 ug/L	97
36) 1,2-dichloropropane	7.78	63	629331	54.45 ug/L	93
37) methyl methacrylate	7.94	41	562538	53.45 ug/L	92
38) dibromomethane	7.98	93	498993	55.06 ug/L	92
39) bromodichloromethane	8.20	83	1018392	54.71 ug/L	99
40) 2-chloroethyl vinyl ether	8.62	63	252587	54.22 ug/L	93
42) cis-1,3-dichloropropene	8.81	75	1043721	53.50 ug/L	96
43) 4-methyl-2-pentanone	9.04	43	699591	56.79 ug/L	98
45) toluene	9.25	92	1265073	53.78 ug/L	96
46) 1,1,2-trichloroethane	9.94	83	492523	52.60 ug/L	92
47) 1,3-dichloropropane	10.19	76	933167	52.76 ug/L	96
48) tetrachloroethene	10.05	164	423986	56.79 ug/L	91
49) trans-1,3-dichloropropene	9.67	75	894864	53.31 ug/L	97
50) 2-hexanone	10.31	43	503926	56.64 ug/L	90
51) dibromochloromethane	10.55	129	778934	54.53 ug/L	93
52) 1,2-dibromoethane	10.69	107	678072	56.24 ug/L #	89
53) chlorobenzene	11.44	112	1502596	55.11 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.60	131	573818	55.54 ug/L	90
55) ethylbenzene	11.60	91	2534456	53.93 ug/L	99
56) m,p-xylene	11.79	106	1704408	107.77 ug/L	93
57) butyl acrylate	12.45	55	1462410	55.26 ug/L	92
58) o-xylene	12.45	106	833207	54.64 ug/L	98
59) styrene	12.49	104	1500157	52.98 ug/L	97
60) isopropylbenzene	13.06	105	1976024	53.81 ug/L	99
61) bromobenzene	13.59	156	622788	55.30 ug/L	98
62) bromoform	12.85	173	490484	56.33 ug/L	92
64) 1,2,3-trichloropropane	13.76	75	602324	58.41 ug/L #	81
65) n-propylbenzene	13.76	91	3026554	53.73 ug/L	100
66) 2-chlorotoluene	13.91	91	1808856	54.09 ug/L	97
67) 4-chlorotoluene	14.10	91	2032485	53.78 ug/L	96
68) 1,3,5-trimethylbenzene	14.07	105	1792807	55.10 ug/L	98
70) 1,1,2,2-tetrachloroethane	13.71	83	853239	52.50 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081507.D Vial: 7
Acq On : 15 Aug 2008 12:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 50PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 15:04 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Thu Aug 14 11:03:01 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

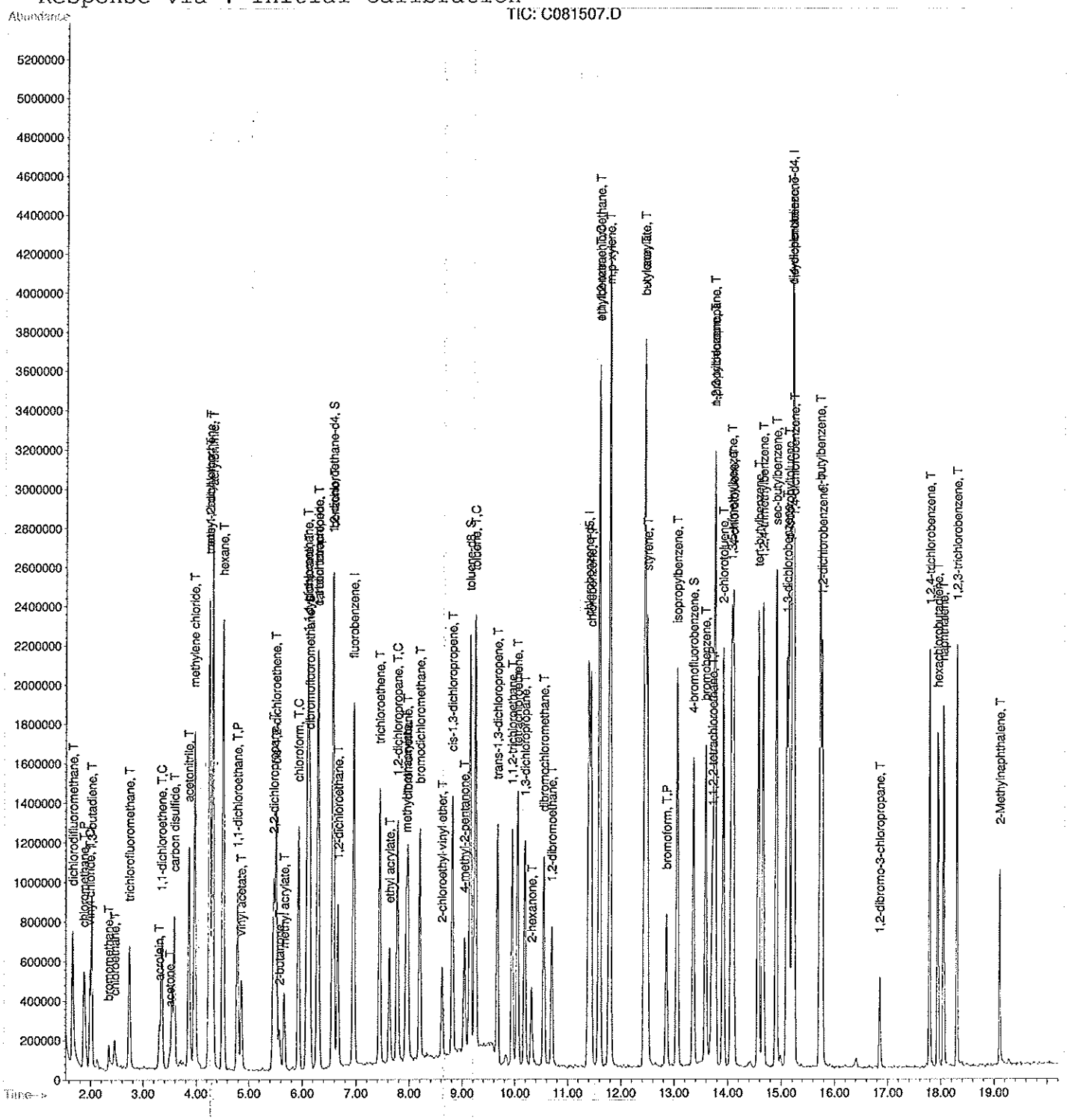
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.57	119	1466716	53.79 ug/L	94
72)	sec-butylbenzene	14.91	105	2487131	54.38 ug/L	99
73)	1,2,4-trimethylbenzene	14.66	105	1858633	55.05 ug/L	99
74)	1,3-dichlorobenzene	15.10	146	1063796	53.28 ug/L	97
75)	p-isopropyltoluene	15.13	119	1794449	54.92 ug/L	97
76)	dicyclopentadiene	15.20	66	2645328	48.78 ug/L	99
77)	1,4-dichlorobenzene	15.24	146	1054504	51.76 ug/L	98
78)	1,2-dichlorobenzene	15.77	146	1018820	53.86 ug/L	97
79)	n-butylbenzene	15.72	91	2115647	53.85 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.85	75	148574	52.74 ug/L	88
81)	1,2,4-trichlorobenzene	17.79	180	643650	55.61 ug/L	98
82)	hexachlorobutadiene	17.95	225	319227	59.11 ug/L	92
83)	naphthalene	18.05	128	1505091	47.92 ug/L	100
84)	1,2,3-trichlorobenzene	18.30	180	612411	57.17 ug/L	95
85)	2-Methylnaphthalene	19.11	142	417312m2	38.38 ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C081508\C081507.D Vial: 7
Acq On : 15 Aug 2008 12:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 50PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 15:04 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:00:13 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081508.D Vial: 8
Acq On : 15 Aug 2008 1:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 70PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:39 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1966360	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	1420993	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	653026	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	766150	51.85 ug/L	0.00
30) 1,2-dichloroethane-d4	6.57	65	714811	52.33 ug/L	0.00
44) toluene-d8	9.14	98	1694586	50.03 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	751221	50.25 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	1383446	89.85 ug/L	97
3) chloromethane	1.87	50	1177664	80.15 ug/L	98
4) 1,3-butadiene	2.02	39	520660	68.77 ug/L	97
5) vinyl chloride	1.99	62	847040	75.55 ug/L	97
6) bromomethane	2.35	94	141702	70.18 ug/L	94
7) chloroethane	2.46	64	159758	57.79 ug/L	97
8) trichlorofluoromethane	2.73	101	999068	83.56 ug/L	100
9) acrolein	3.31	56	278108	698.65 ug/L	85
10) 1,1-dichloroethene	3.35	96	405642	78.35 ug/L	99
11) acetone	3.50	43	161237	51.54 ug/L	92
12) carbon disulfide	3.59	76	1450435	76.78 ug/L	98
13) methylene chloride	3.98	84	1180504	57.75 ug/L	91
14) acrylonitrile	4.32	53	3407864	724.37 ug/L	96
15) trans-1,2-dichloroethene	4.26	96	807723	73.88 ug/L	98
16) methyl-t-butyl ether	4.25	73	2007923	74.52 ug/L	98
17) acetonitrile	3.87	41	1560595	721.18 ug/L	95
18) hexane	4.52	57	1413419	42.95 ug/L	96
19) 1,1-dichloroethane	4.78	63	1538359	75.84 ug/L	96
20) vinyl acetate	4.86	43	1019357	65.49 ug/L	99
21) cis-1,2-dichloroethene	5.51	96	909183	74.72 ug/L	90
22) 2,2-dichloropropane	5.46	77	1223230	74.17 ug/L	98
23) 2-butanone	5.57	72	73057	64.87 ug/L #	98
24) methyl acrylate	5.66	55	866554	79.37 ug/L	98
25) chloroform	5.93	83	1692406	76.10 ug/L	99
27) 1,1,1-trichloroethane	6.09	97	1218735	75.78 ug/L	99
28) cyclohexane	6.10	56	1179193	76.92 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081508.D Vial: 8
Acq On : 15 Aug 2008 1:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 70PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:39 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.28	117	1092807	77.79 ug/L	96
31) benzene	6.57	78	2850529	71.66 ug/L	97
32) 1,1-dichloropropene	6.30	75	1173141	75.20 ug/L	95
33) 1,2-dichloroethane	6.66	62	1202253	74.35 ug/L	98
34) trichloroethene	7.44	95	786767	72.33 ug/L	93
35) ethyl acrylate	7.63	55	1028319	71.06 ug/L	97
36) 1,2-dichloropropane	7.78	63	817983	71.16 ug/L	94
37) methyl methacrylate	7.93	41	717839	73.96 ug/L	97
38) dibromomethane	7.97	93	669188	73.20 ug/L	94
39) bromodichloromethane	8.20	83	1354001	73.82 ug/L	96
40) 2-chloroethyl vinyl ether	8.61	63	379393	86.13 ug/L	96
42) cis-1,3-dichloropropene	8.81	75	1384695	72.82 ug/L	97
43) 4-methyl-2-pentanone	9.05	43	886326	82.32 ug/L	99
45) toluene	9.24	92	1576037	73.18 ug/L	96
46) 1,1,2-trichloroethane	9.95	83	670230	75.29 ug/L	94
47) 1,3-dichloropropane	10.19	76	1246488	72.64 ug/L	94
48) tetrachloroethene	10.05	164	522065	74.89 ug/L	92
49) trans-1,3-dichloropropene	9.67	75	1194485	72.59 ug/L	95
50) 2-hexanone	10.32	43	602028	72.84 ug/L	93
51) dibromochloromethane	10.54	129	1022489	73.61 ug/L	92
52) 1,2-dibromoethane	10.69	107	901595	75.42 ug/L	91
53) chlorobenzene	11.44	112	1860753	72.54 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.60	131	705044	72.15 ug/L	85
55) ethylbenzene	11.60	91	3111080	72.84 ug/L	93
56) m,p-xylene	11.79	106	2130011	147.90 ug/L	99
57) butyl acrylate	12.44	55	1630152	70.27 ug/L	97
58) o-xylene	12.44	106	1043206	74.73 ug/L	97
59) styrene	12.49	104	1886949	71.88 ug/L	96
60) isopropylbenzene	13.05	105	2487553	73.90 ug/L	99
61) bromobenzene	13.60	156	773689	71.91 ug/L	96
62) bromoform	12.86	173	647204	77.70 ug/L	96
64) 1,2,3-trichloropropane	13.75	75	755029	73.37 ug/L	95
65) n-propylbenzene	13.76	91	3710842	72.96 ug/L	99
66) 2-chlorotoluene	13.91	91	2213585	72.00 ug/L	96
67) 4-chlorotoluene	14.11	91	2445605	70.84 ug/L	98
68) 1,3,5-trimethylbenzene	14.07	105	2151349	71.36 ug/L	97
70) 1,1,2,2-tetrachloroethane	13.71	83	1081337	70.70 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081508.D Vial: 8
Acq On : 15 Aug 2008 1:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 70PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:39 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

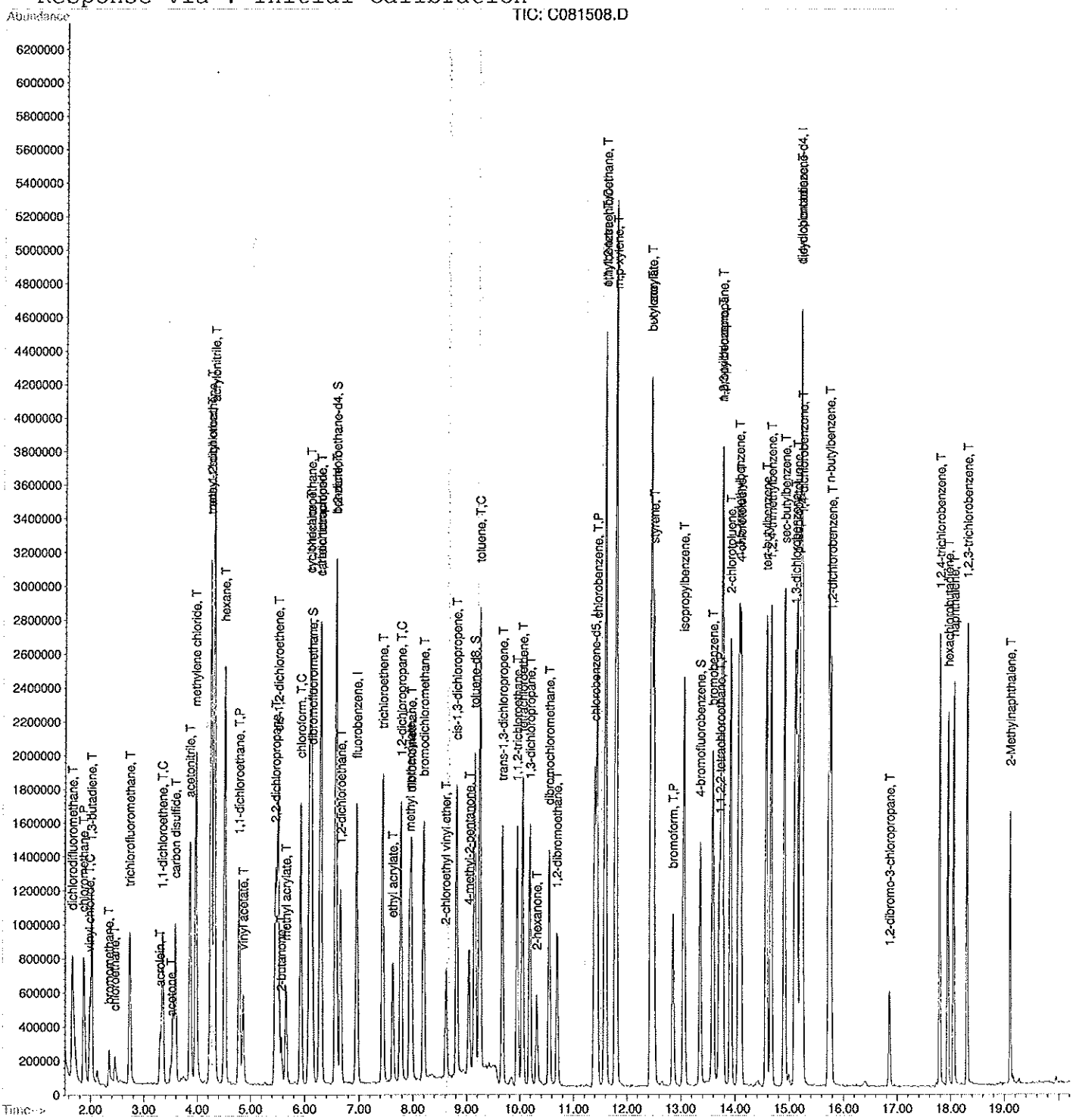
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.58	119	1802038	71.22 ug/L	93
72)	sec-butylbenzene	14.92	105	3006138	70.97 ug/L	100
73)	1,2,4-trimethylbenzene	14.66	105	2209964	69.92 ug/L	97
74)	1,3-dichlorobenzene	15.10	146	1275462	67.68 ug/L	99
75)	p-isopropyltoluene	15.14	119	2193949	72.06 ug/L	99
76)	dicyclopentadiene	15.20	66	3307403	69.31 ug/L	99
77)	1,4-dichlorobenzene	15.24	146	1285181	68.31 ug/L	99
78)	1,2-dichlorobenzene	15.77	146	1219642	69.40 ug/L	95
79)	n-butylbenzene	15.73	91	2523305	71.44 ug/L	96
80)	1,2-dibromo-3-chloropropan	16.85	75	188925	70.62 ug/L	95
81)	1,2,4-trichlorobenzene	17.79	180	798662	72.29 ug/L	94
82)	hexachlorobutadiene	17.95	225	378012	73.83 ug/L	88
83)	naphthalene	18.06	128	1850790	66.91 ug/L	100
84)	1,2,3-trichlorobenzene	18.30	180	730531	71.85 ug/L	96
85)	2-Methylnaphthalene	19.11	142	640730	83.86 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C081508\C081508.D Vial: 8
Acq On : 15 Aug 2008 1:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 70PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:39 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081509.D Vial: 9
Acq On : 15 Aug 2008 1:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 100PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:42 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

8/15/8

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	6.95	96	2100165	50.00	ug/L	0.00
41) chlorobenzene-d5	11.40	117	1600674	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	693206	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.14	113	759308	47.73	ug/L	0.00
30) 1,2-dichloroethane-d4	6.57	65	725087	49.53	ug/L	0.00
44) toluene-d8	9.15	98	1896534	49.63	ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	838849	49.66	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.66	85	2322702	135.01	ug/L	92
3) chloromethane	1.88	50	1979529	123.39	ug/L	98
4) 1,3-butadiene	2.02	39	1116728	140.97	ug/L	96
5) vinyl chloride	1.99	62	1913158	158.08	ug/L	93
6) bromomethane	2.34	94	223786	99.77	ug/L	96
7) chloroethane	2.45	64	110738	35.41	ug/L	81
8) trichlorofluoromethane	2.72	101	1637116	125.78	ug/L	99
9) acrolein	3.31	56	433675	1023.39	ug/L	94
10) 1,1-dichloroethene	3.34	96	591047	105.16	ug/L	97
11) acetone	3.50	43	246029	74.61	ug/L	91
12) carbon disulfide	3.58	76	2443295	119.02	ug/L	98
13) methylene chloride	3.97	84	1953079	89.44	ug/L	99
14) acrylonitrile	4.32	53	5158461	1045.50	ug/L	99
15) trans-1,2-dichloroethene	4.25	96	1218409	103.98	ug/L	95
16) methyl-t-butyl ether	4.25	73	2980321	104.26	ug/L	95
17) acetonitrile	3.87	41	2605676	1157.51	ug/L	98
18) hexane	4.51	57	2167938	60.95	ug/L	95
19) 1,1-dichloroethane	4.78	63	2370521	108.43	ug/L	99
20) vinyl acetate	4.85	43	1699164	103.54	ug/L	99
21) cis-1,2-dichloroethene	5.51	96	1373273	105.28	ug/L	89
22) 2,2-dichloropropane	5.46	77	1899038	107.46	ug/L	100
23) 2-butanone	5.57	72	134535	114.19	ug/L #	95
24) methyl acrylate	5.66	55	1358888	120.44	ug/L	98
25) chloroform	5.93	83	2549468	106.92	ug/L	97
27) 1,1,1-trichloroethane	6.08	97	1968499	113.85	ug/L	96
28) cyclohexane	6.10	56	1949591	121.37	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081509.D Vial: 9
Acq On : 15 Aug 2008 1:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 100PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:42 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.28	117	1758307	116.25 ug/L	97
31) benzene	6.58	78	4691541	110.53 ug/L	99
32) 1,1-dichloropropene	6.30	75	1897098	113.71 ug/L	94
33) 1,2-dichloroethane	6.66	62	1822789	105.44 ug/L	94
34) trichloroethene	7.44	95	1333423	115.31 ug/L	98
35) ethyl acrylate	7.63	55	1847845	122.40 ug/L	96
36) 1,2-dichloropropane	7.78	63	1326363	107.87 ug/L	94
37) methyl methacrylate	7.93	41	1210740	119.93 ug/L	97
38) dibromomethane	7.97	93	1018093	104.48 ug/L	94
39) bromodichloromethane	8.20	83	2101162	107.21 ug/L	98
40) 2-chloroethyl vinyl ether	8.61	63	619842	136.29 ug/L	96
42) cis-1,3-dichloropropene	8.81	75	2199553	103.43 ug/L	97
43) 4-methyl-2-pentanone	9.05	43	1480827	126.73 ug/L	99
45) toluene	9.24	92	2663194	110.38 ug/L	96
46) 1,1,2-trichloroethane	9.95	83	1073729	108.81 ug/L	94
47) 1,3-dichloropropane	10.19	76	2048371	107.53 ug/L	96
48) tetrachloroethene	10.05	164	929873	118.63 ug/L	93
49) trans-1,3-dichloropropene	9.67	75	1897531	103.54 ug/L	100
50) 2-hexanone	10.32	43	1026010	114.37 ug/L	90
51) dibromochloromethane	10.54	129	1679861	108.51 ug/L	95
52) 1,2-dibromoethane	10.69	107	1497972	112.43 ug/L	89
53) chlorobenzene	11.44	112	3214190	111.60 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.60	131	1182046	108.41 ug/L	92
55) ethylbenzene	11.60	91	5176406	108.52 ug/L	99
56) m,p-xylene	11.79	106	3507840	216.44 ug/L	98
57) butyl acrylate	12.44	55	2776393	109.36 ug/L	96
58) o-xylene	12.44	106	1693558	107.78 ug/L	92
59) styrene	12.49	104	3131038	106.84 ug/L	98
60) isopropylbenzene	13.05	105	4195688	110.86 ug/L	100
61) bromobenzene	13.60	156	1330682	110.04 ug/L	94
62) bromoform	12.86	173	1123808	121.10 ug/L	96
64) 1,2,3-trichloropropane	13.75	75	1238210	109.03 ug/L	90
65) n-propylbenzene	13.76	91	6133424	107.47 ug/L	97
66) 2-chlorotoluene	13.91	91	3678120	106.34 ug/L	97
67) 4-chlorotoluene	14.11	91	4176113	108.15 ug/L	97
68) 1,3,5-trimethylbenzene	14.07	105	3698625	109.25 ug/L	96
70) 1,1,2,2-tetrachloroethane	13.71	83	1835822	116.70 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081509.D Vial: 9
Acq On : 15 Aug 2008 1:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 100PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:42 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

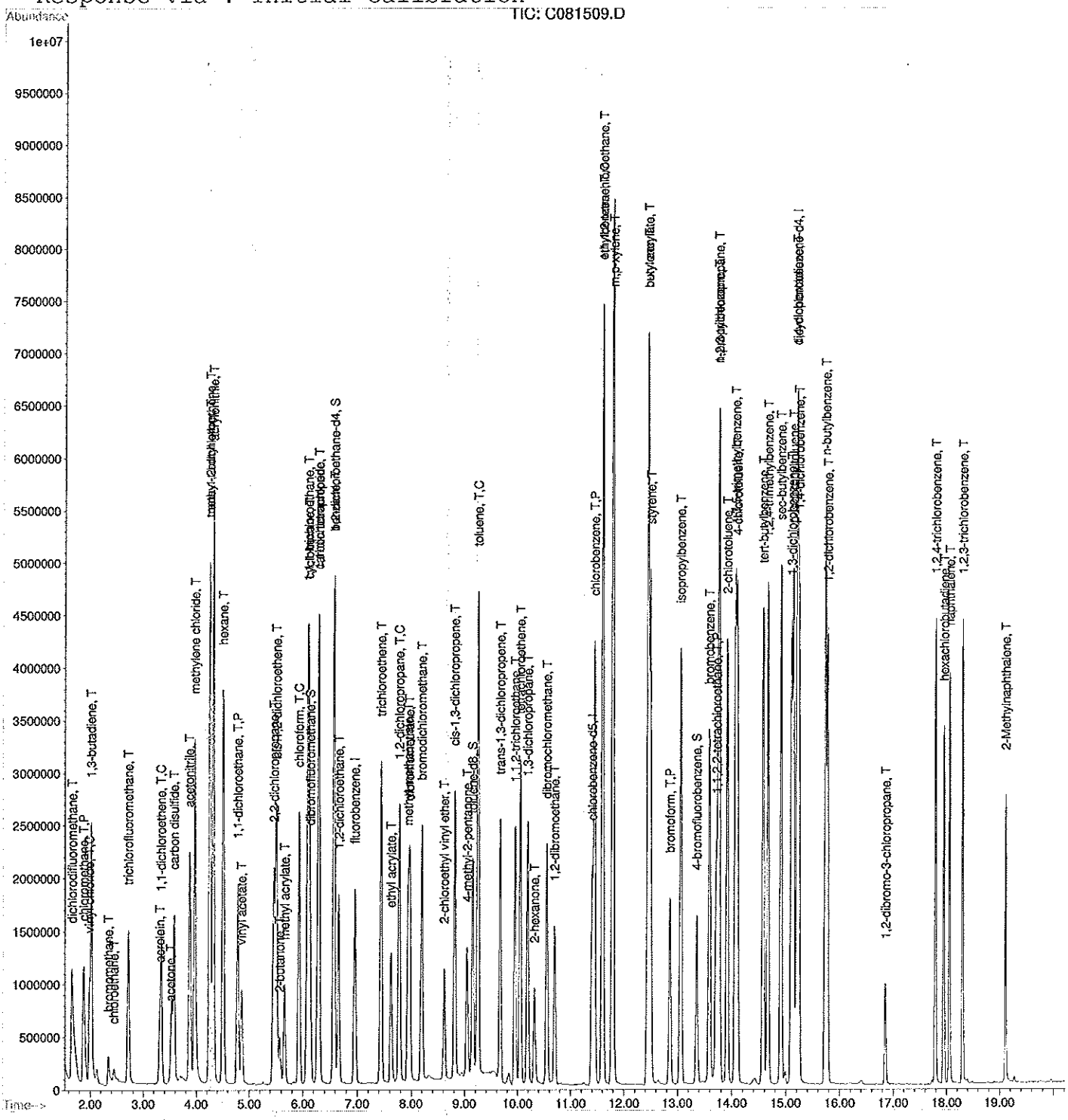
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.58	119	3042945	114.10 ug/L	92
72)	sec-butylbenzene	14.92	105	5039039	112.79 ug/L	100
73)	1,2,4-trimethylbenzene	14.66	105	3791148	113.65 ug/L	97
74)	1,3-dichlorobenzene	15.10	146	2187610	110.78 ug/L	99
75)	p-isopropyltoluene	15.14	119	3626966	112.47 ug/L	99
76)	dicyclopentadiene	15.20	66	5555930	112.55 ug/L	99
77)	1,4-dichlorobenzene	15.24	146	2144637	108.81 ug/L	96
78)	1,2-dichlorobenzene	15.77	146	2077476	112.54 ug/L	99
79)	n-butylbenzene	15.73	91	4170033	112.58 ug/L	96
80)	1,2-dibromo-3-chloropropan	16.85	75	318657	116.10 ug/L	98
81)	1,2,4-trichlorobenzene	17.79	180	1302487	111.53 ug/L	99
82)	hexachlorobutadiene	17.95	225	619007	114.04 ug/L	93
83)	naphthalene	18.06	128	3104551	112.06 ug/L	100
84)	1,2,3-trichlorobenzene	18.30	180	1265808	118.06 ug/L	94
85)	2-Methylnaphthalene	19.11	142	1116061	147.79 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C081508\C081509.D Vial: 9
Acq On : 15 Aug 2008 1:56 pm Operator: BR
Sample : ,ICAL,8260 ICAL 100PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:42 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081510.D Vial: 10
Acq On : 15 Aug 2008 2:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 200PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:46 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1936690	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	1400914	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.21	152	581833	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	755009	51.19 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	669436	48.67 ug/L	0.00
44) toluene-d8	9.15	98	1673073	50.03 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	723701	48.89 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	3981936	237.25 ug/L	94
3) chloromethane	1.86	50	3450748	225.97 ug/L	97
4) 1,3-butadiene	2.01	39	2533077	326.81 ug/L	97
5) vinyl chloride	1.98	62	3769491	311.45 ug/L	93
6) bromomethane	2.35	94	467996	226.68 ug/L	93
7) chloroethane	2.45	64	187766	69.88 ug/L	80
8) trichlorofluoromethane	2.70	101	2992794	242.98 ug/L	94
9) acrolein	3.30	56	765822	1863.74 ug/L	94
10) 1,1-dichloroethene	3.33	96	1240401	234.38 ug/L	96
11) acetone	3.51	43	376514	120.34 ug/L	84
12) carbon disulfide	3.57	76	4486693	228.79 ug/L	98
13) methylene chloride	3.96	84	3406291	164.88 ug/L	97
14) acrylonitrile	4.33	53	8016009	1672.30 ug/L	97
15) trans-1,2-dichloroethene	4.25	96	2415481	219.52 ug/L	98
16) methyl-t-butyl ether	4.26	73	5477225	200.14 ug/L	96
17) acetonitrile	3.87	41	3997450	1797.14 ug/L	98
18) hexane	4.50	57	3412932	102.48 ug/L	97
19) 1,1-dichloroethane	4.78	63	4645349	225.46 ug/L	98
20) vinyl acetate	4.86	43	3228640	205.95 ug/L	99
21) cis-1,2-dichloroethene	5.51	96	2775550	226.66 ug/L	89
22) 2,2-dichloropropane	5.46	77	3739152	226.25 ug/L	99
23) 2-butanone	5.58	72	193270	167.97 ug/L #	82
24) methyl acrylate	5.66	55	2106074	189.36 ug/L	99
25) chloroform	5.93	83	5100947	227.37 ug/L	97
27) 1,1,1-trichloroethane	6.09	97	3809892	233.84 ug/L	97
28) cyclohexane	6.11	56	3535700	236.24 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081510.D Vial: 10
Acq On : 15 Aug 2008 2:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 200PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:46 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.28	117	3354103	234.85 ug/L	97
31) benzene	6.57	78	8329490	208.87 ug/L	100
32) 1,1-dichloropropene	6.30	75	3453850	220.52 ug/L #	94
33) 1,2-dichloroethane	6.66	62	3488420	211.72 ug/L	97
34) trichloroethene	7.44	95	2491398	229.49 ug/L	99
35) ethyl acrylate	7.62	55	3066049	208.26 ug/L	98
36) 1,2-dichloropropane	7.77	63	2484379	214.62 ug/L	98
37) methyl methacrylate	7.94	41	1954977	198.82 ug/L	93
38) dibromomethane	7.97	93	1933653	208.38 ug/L	97
39) bromodichloromethane	8.20	83	4114183	222.72 ug/L	98
40) 2-chloroethyl vinyl ether	8.62	63	1006696	221.34 ug/L	97
42) cis-1,3-dichloropropene	8.82	75	4107208	216.85 ug/L	98
43) 4-methyl-2-pentanone	9.04	43	2219026	203.80 ug/L	97
45) toluene	9.25	92	4606035	215.52 ug/L	95
46) 1,1,2-trichloroethane	9.95	83	1866742	209.06 ug/L	94
47) 1,3-dichloropropane	10.19	76	3596242	208.88 ug/L	93
48) tetrachloroethene	10.06	164	1639367	234.91 ug/L	96
49) trans-1,3-dichloropropene	9.66	75	3414589	207.92 ug/L	98
50) 2-hexanone	10.32	43	1528001	183.79 ug/L	91
51) dibromochloromethane	10.55	129	3084347	221.36 ug/L	98
52) 1,2-dibromoethane	10.70	107	2495899	205.28 ug/L	94
53) chlorobenzene	11.45	112	5537739	215.89 ug/L	96
54) 1,1,1,2-tetrachloroethane	11.59	131	2076096	212.42 ug/L	93
55) ethylbenzene	11.60	91	8646067	204.40 ug/L	97
56) m,p-xylene	11.79	106	5873898	407.27 ug/L	99
57) butyl acrylate	12.45	55	4360840	189.36 ug/L	98
58) o-xylene	12.45	106	2964409	212.47 ug/L	99
59) styrene	12.50	104	5460458	209.61 ug/L	94
60) isopropylbenzene	13.06	105	7261238	216.08 ug/L	98
61) bromobenzene	13.59	156	2308225	213.91 ug/L	96
62) bromoform	12.86	173	1825459	213.10 ug/L	96
64) 1,2,3-trichloropropane	13.75	75	1757648	167.90 ug/L	92
65) n-propylbenzene	13.77	91	10305868	203.84 ug/L	94
66) 2-chlorotoluene	13.92	91	6358867	207.12 ug/L	97
67) 4-chlorotoluene	14.10	91	7144679	208.17 ug/L	95
68) 1,3,5-trimethylbenzene	14.07	105	6487632	214.77 ug/L	98
70) 1,1,2,2-tetrachloroethane	13.72	83	2723566	197.18 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C081508\C081510.D Vial: 10
Acq On : 15 Aug 2008 2:26 pm Operator: BR
Sample : ,ICAL,8260 ICAL 200PPB1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:46 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) tert-butylbenzene	14.58	119	5271176	233.40 ug/L	97
72) sec-butylbenzene	14.91	105	8622896	227.23 ug/L	98
73) 1,2,4-trimethylbenzene	14.67	105	6608221	231.76 ug/L	97
74) 1,3-dichlorobenzene	15.11	146	3772502	225.28 ug/L	98
75) p-isopropyltoluene	15.14	119	6211395	226.11 ug/L	99
76) dicyclopentadiene	15.21	66	9481597	228.46 ug/L	98
77) 1,4-dichlorobenzene	15.25	146	3688036	220.48 ug/L	97
78) 1,2-dichlorobenzene	15.77	146	3538009	224.71 ug/L	98
79) n-butylbenzene	15.73	91	6971763	218.61 ug/L	97
80) 1,2-dibromo-3-chloropropan	16.85	75	451263	183.90 ug/L	88
81) 1,2,4-trichlorobenzene	17.80	180	2249115	223.97 ug/L	96
82) hexachlorobutadiene	17.95	225	1099974	240.54 ug/L	90
83) naphthalene	18.05	128	4521397	184.43 ug/L	100
84) 1,2,3-trichlorobenzene	18.31	180	2075695	221.24 ug/L	97
85) 2-Methylnaphthalene	19.11	142	1834417	273.78 ug/L	89

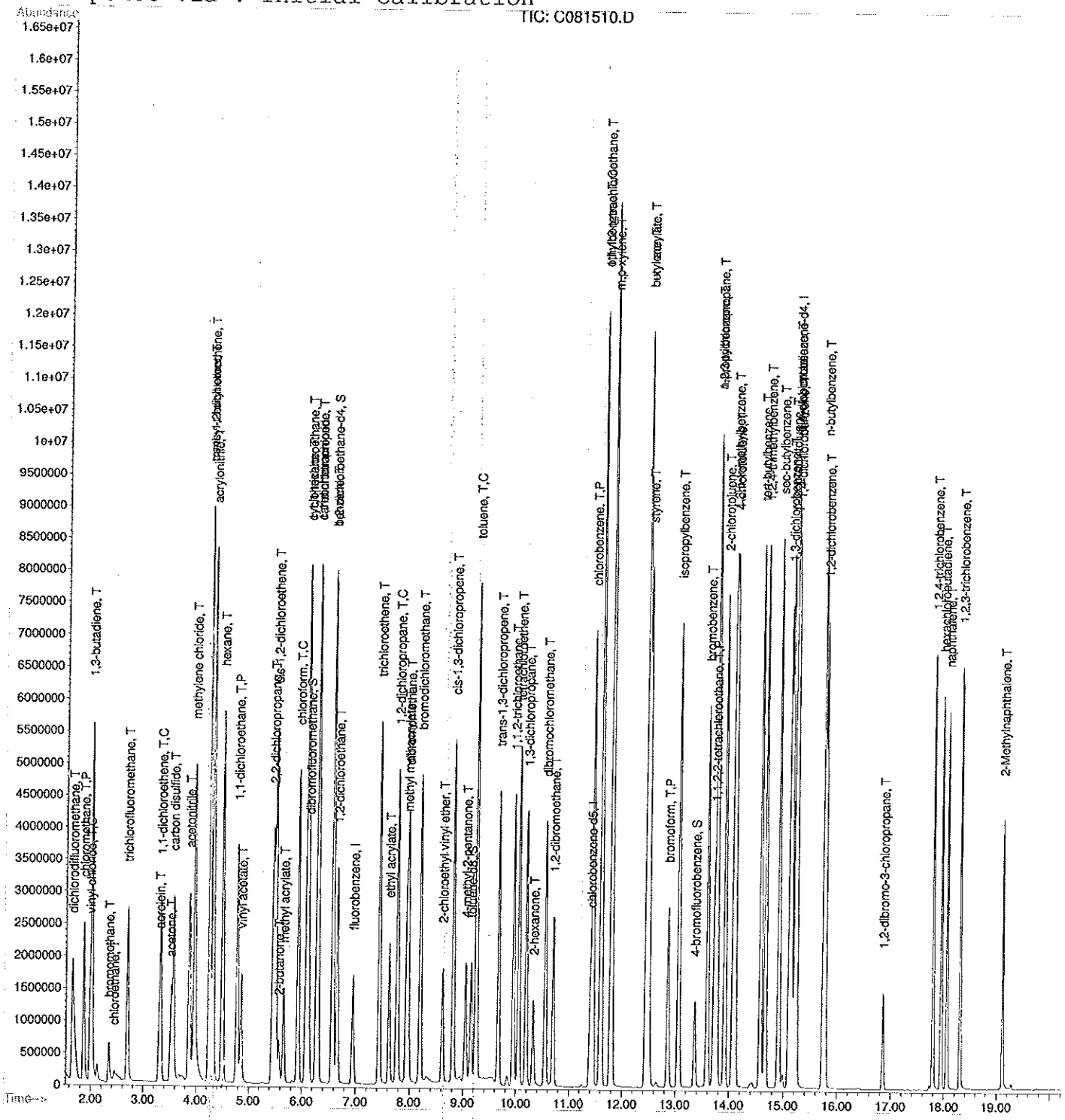
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C081508\C081510.D
Acq On : 15 Aug 2008 2:26 pm
Sample : ,ICAL,8260 ICAL 200PPB1,
Misc : 8260_W
MS Integration Params: RTEINT.P
Quant Time: Aug 15 14:46 2008 Quant Results File: VOA0815.RES

Vial: 10
Operator: BR
Inst : VOA #3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 14:29:11 2008
Response via : Initial Calibration



Response Factor Report VOA 4

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:04:39 2008
Response via : Initial Calibration

Avg % RSD = 7.27%

Calibration Files

70 = D081809.D

624: all <35% RSD

5	=D081812.D	10	=D081811.D	20	=D081810.D
50	=D081813.D	100	=D081808.D	200	=D081807.D

		Compound	5	10	20	50	100	200	Avg	%RSD
1)	I	fluorobenzene	----------ISTD----------							
2)	T	dichlorodifluoromet	0.308	0.376	0.362	0.423	0.427	0.429	0.389	11.42
3)	T,P	chloromethane	PQL=10	0.230	0.233	0.193	0.248	0.223	0.226	8.11
4)	T,C	vinyl chloride	0.302	0.374	0.367	0.342	0.400	0.420	0.370	10.40
5)	T	1,3-butadiene	PQL=10	0.434	0.421	0.374	0.384	0.400	0.397	6.69
6)	T	bromomethane	↓	0.072	0.111	0.092	0.147	0.133	0.116	24.98
7)	T	chloroethane	0.189	0.220	0.207	0.232	UQL=70		0.196	20.01
8)	T	trichlorofluorometh	0.359	0.464	0.442	0.516	0.482	0.556	0.466	13.37
9)	T	acrolein	0.025	0.022	0.021	0.022	0.024	0.024	0.023	7.41
10)	T,C	1,1-dichloroethene	0.185	0.225	0.212	0.243	0.255	0.244	0.228	10.42
11)	T	acetone	PQL=50	0.250	0.184	0.147	0.148	0.138	0.170	24.66
12)	T	carbon disulfide	0.876	0.907	0.816	0.896	0.940	0.879	0.882	4.38
13)	T	methylene chloride	PQL=10	0.539	0.363	0.293	0.321	0.289	0.349	27.84
14)	T	acrylonitrile	0.124	0.113	0.110	0.104	0.114	0.115	0.114	5.74
15)	T	trans-1,2-dichloroe	0.232	0.258	0.233	0.265	0.270	0.258	0.253	6.00
16)	T	methyl-t-butyl ethe	0.813	0.784	0.736	0.782	0.821	0.808	0.793	3.65
17)	T	acetonitrile	0.056	0.051	0.048	0.042	0.051	0.052	0.051	8.76
18)	T	hexane	PQL=20		0.536	0.504	0.504	0.505	0.501	5.71
19)	T,P	1,1-dichloroethane	0.449	0.506	0.483	0.533	0.565	0.532	0.513	7.44
20)	T	vinyl acetate	PQL=10	0.343	0.329	0.359	0.412	0.419	0.376	9.99
21)	T	cis-1,2-dichloroeth	0.267	0.284	0.259	0.283	0.299	0.284	0.279	4.68
22)	T	2,2-dichloropropane	0.315	0.371	0.363	0.431	0.451	0.443	0.398	12.50
23)	T	2-butanone	PQL=10	0.033	0.028	0.032	0.035	0.036	0.033	9.35
24)	T	methyl acrylate	↓	0.337	0.323	0.280	0.302	0.335	0.315	6.90
25)	T,C	chloroform	0.459	0.477	0.446	0.496	0.518	0.490	0.480	4.99
26)	S	dibromofluoromethan	0.285	0.285	0.281	0.283	0.281	0.277	0.282	1.05
27)	T	1,1,1-trichloroetha	0.350	0.391	0.381	0.427	0.450	0.424	0.405	8.26
28)	T	cyclohexane	PQL=10	0.564	0.573	0.556	0.540	0.541	0.547	4.12
29)	T	carbon tetrachlorid	0.246	0.290	0.279	0.320	0.341	0.325	0.302	10.68
30)	S	1,2-dichloroethane-	0.401	0.402	0.389	0.375	0.378	0.373	0.385	3.14
31)	T	benzene	1.099	0.973	0.931	1.007	1.048	0.984	1.003	5.46
32)	T	1,1-dichloropropene	0.340	0.387	0.365	0.404	0.433	0.407	0.391	7.81
33)	T	1,2-dichloroethane	0.474	0.486	0.441	0.473	0.496	0.474	0.473	3.68
34)	T	trichloroethene	0.227	0.260	0.241	0.276	0.289	0.275	0.262	8.20
35)	T	ethyl acrylate	PQL=10	0.511	0.495	0.446	0.469	0.506	0.485	5.04
36)	T,C	1,2-dichloropropane	0.269	0.275	0.264	0.273	0.306	0.282	0.279	4.93
37)	T	methyl methacrylate	PQL=10	0.411	0.394	0.343	0.360	0.384	0.376	6.52
38)	T	dibromomethane	0.176	0.179	0.161	0.164	0.179	0.171	0.172	4.10
39)	T	bromodichloromethan	0.370	0.373	0.348	0.388	0.415	0.392	0.382	5.50
40)	T	2-chloroethyl vinyl	PQL=10	0.134	0.128	0.158	0.185	0.190	0.162	16.25
41)	I	chlorobenzene-d5	----------ISTD----------							
42)	T	cis-1,3-dichloropro	0.563	0.583	0.564	0.633	0.674	0.695	0.622	8.58
43)	T	4-methyl-2-pentanon	0.563	0.524	0.509	0.484	0.564	0.579	0.544	7.12
44)	S	toluene-d8	1.284	1.296	1.305	1.270	1.295	1.343	1.297	1.79
45)	T,C	toluene	0.865	0.893	0.872	0.916	0.948	0.939	0.907	3.50
46)	T	1,1,2-trichloroetha	0.280	0.263	0.261	0.271	0.294	0.291	0.278	4.79
47)	T	1,3-dichloropropane	0.635	0.615	0.599	0.634	0.682	0.677	0.643	4.83
48)	T	tetrachloroethene	0.242	0.278	0.262	0.281	0.294	0.293	0.275	6.59
49)	T	trans-1,3-dichlorop	0.445	0.439	0.444	0.500	0.557	0.582	0.499	11.74
50)	T	2-hexanone	PQL=10	0.358	0.355	0.346	0.408	0.413	0.385	9.56
51)	T	dibromochloromethan	0.362	0.351	0.347	0.368	0.401	0.395	0.372	5.71
52)	T	1,2-dibromoethane	0.354	0.352	0.342	0.345	0.381	0.382	0.362	4.78
53)	T,P	chlorobenzene	0.894	0.931	0.887	0.964	0.999	0.954	0.939	4.18
54)	T	1,1,1,2-tetrachloro	0.310	0.329	0.315	0.347	0.363	0.347	0.336	5.70
55)	T,C	ethylbenzene	1.626	1.754	1.660	1.793	1.839	1.722	1.736	4.25

(#) = Out of Range ### Number of calibration levels exceeded format ###

VOA0818.M Tue Aug 19 08:05:55 2008 VOA4

CB 8/20/08

A 8/19/08

Response Factor Report VOA 4

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:04:39 2008
Response via : Initial Calibration

Calibration Files
5 =D081812.D 10 =D081811.D 20 =D081810.D
50 =D081813.D 100 =D081808.D 200 =D081807.D

		Compound	5	10	20	50	100	200	Avg	%RSD
56)	T	m,p-xylene	0.583	0.651	0.606	0.653	0.664	0.620	0.630	4.58
57)	T	butyl acrylate	PQL10	1.165	1.150	1.032	1.073	1.125	1.112	4.50
58)	T	o-xylene	0.579	0.604	0.583	0.631	0.642	0.606	0.608	3.80
59)	T	styrene	1.008	1.069	1.013	1.111	1.144	1.089	1.074	4.61
60)	T	isopropylbenzene	1.297	1.458	1.415	1.533	1.570	1.494	1.465	6.11
61)	T	bromobenzene	0.353	0.365	0.345	0.371	0.397	0.372	0.369	4.52
62)	T,P	bromoform	0.202	0.218	0.214	0.238	0.274	0.271	0.240	12.53
63)	S	4-bromofluorobenzen	0.583	0.586	0.575	0.580	0.575	0.579	0.579	0.72
64)	T	1,2,3-trichloroprop	0.432	0.412	0.393	0.360	0.422	0.394	0.406	6.19
65)	T	n-propylbenzene	1.836	2.041	1.966	2.128	2.189	2.007	2.035	5.66
66)	T	2-chlorotoluene	1.191	1.249	1.192	1.295	1.338	1.259	1.256	4.21
67)	T	4-chlorotoluene	1.366	1.437	1.364	1.494	1.531	1.434	1.440	4.29
68)	T	1,3,5-trimethylbenz	1.263	1.393	1.296	1.416	1.446	1.348	1.363	4.80
69)	I	1,4-dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------	----------	
70)	T,P	1,1,2,2-tetrachloro	0.975	0.935	0.925	0.888	1.028	1.036	0.976	6.31
71)	T	tert-butylbenzene	2.152	2.264	2.273	2.474	2.572	2.514	2.383	6.48
72)	T	sec-butylbenzene	3.486	3.754	3.635	4.024	4.064	3.936	3.825	5.52
73)	T	1,2,4-trimethylbenz	2.752	2.982	2.781	3.043	3.170	3.109	2.990	5.46
74)	T	1,3-dichlorobenzene	1.341	1.415	1.355	1.460	1.529	1.496	1.437	4.87
75)	T	p-isopropyltoluene	2.683	2.948	2.830	3.109	3.196	3.096	2.982	5.97
76)	T	dicyclopentadiene	3.571	5.040	4.911	4.561	4.373	4.499	4.473	10.64
77)	T	1,4-dichlorobenzene	1.469	1.531	1.375	1.484	1.538	1.494	1.481	3.64
78)	T	1,2-dichlorobenzene	1.310	1.371	1.288	1.384	1.453	1.423	1.377	4.34
79)	T	n-butylbenzene	2.883	3.059	2.987	3.298	3.368	3.229	3.151	5.64
80)	T	1,2-dibromo-3-chlor	0.244	0.212	0.205	0.184	0.224	0.228	0.218	9.20
81)	T	1,2,4-trichlorobenz	1.122	1.126	1.068	1.129	1.181	1.150	1.128	3.01
82)	T	hexachlorobutadiene	PQL10	0.623	0.643	0.652	0.694	0.660	0.656	3.61
83)	T	naphthalene		2.568	2.604	2.320	2.671	2.526	2.561	5.13
84)	T	1,2,3-trichlorobenz	1.121	1.061	1.020	1.038	1.088	1.041	1.058	3.34
85)	T	2-methylnaphthalene	PQL10	1.646	1.677	1.190	1.355	1.310	1.427	13.56

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081812.D Vial: 12
Acq On : 18 Aug 2008 6:27 pm Operator: jdb
Sample : ,ICAL,ICAL 5PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:25 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.97	96	1366484	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.76	117	923623	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	445790	50.00 ug/L	-0.04
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	389994	53.82 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	548222	62.59 ug/L	-0.04
44) toluene-d8	9.33	98	1185871	50.57 ug/L	-0.03
63) 4-bromofluorobenzene	13.89	95	538472	54.35 ug/L	-0.04
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.57	85	42035	4.01 ug/L	91
3) chloromethane	1.85	50	49023m1	4.06 ug/L	
4) vinyl chloride	1.87	62	41327	3.36 ug/L	99
5) 1,3-butadiene	1.90	39	35506	3.83 ug/L	94
6) bromomethane	2.23	94	12543	3.83 ug/L #	66
7) chloroethane	2.34	64	25863	2.98 ug/L	79
8) trichlorofluoromethane	2.62	101	49021	4.30 ug/L	86
9) acrolein	3.15	56	34710	54.81 ug/L	100
10) 1,1-dichloroethene	3.23	96	25240	3.49 ug/L #	71
11) acetone	3.33	43	107585	21.58 ug/L	90
12) carbon disulfide	3.47	76	119687	5.66 ug/L	98
13) methylene chloride	3.83	84	79217	6.92 ug/L	93
14) acrylonitrile	4.16	53	170089	52.34 ug/L	96
15) trans-1,2-dichloroethene	4.14	96	31646	3.91 ug/L	91
16) methyl-t-butyl ether	4.13	73	111156	5.00 ug/L	98
17) acetonitrile	3.69	41	77128	49.96 ug/L	96
18) hexane	4.43	57	48372	2.49 ug/L #	95
19) 1,1-dichloroethane	4.67	63	61329	3.93 ug/L	95
20) vinyl acetate	4.74	43	46603	3.59 ug/L	100
21) cis-1,2-dichloroethene	5.43	96	36536	4.12 ug/L	94
22) 2,2-dichloropropane	5.40	77	43111	3.84 ug/L #	88
23) 2-butanone	5.47	72	11081	10.86 ug/L #	93
24) methyl acrylate	5.57	55	38703	4.44 ug/L #	98
25) chloroform	5.87	83	62669	4.53 ug/L	93
27) 1,1,1-trichloroethane	6.06	97	47816m3	4.54 ug/L	
28) cyclohexane	6.10	56	47791	3.03 ug/L	94
29) carbon tetrachloride	6.27	117	33651	5.05 ug/L	93
31) benzene	6.57	78	150139	4.85 ug/L	92
32) 1,1-dichloropropene	6.29	75	46525	3.97 ug/L	95
33) 1,2-dichloroethane	6.65	62	64839	5.52 ug/L	94
34) trichloroethene	7.49	95	31017	3.92 ug/L	95
35) ethyl acrylate	7.68	55	60118	4.51 ug/L	96
36) 1,2-dichloropropane	7.86	63	36758	4.12 ug/L	84
37) methyl methacrylate	8.01	41	44674	4.50 ug/L	86
38) dibromomethane	8.04	93	24023	4.80 ug/L	95
39) bromodichloromethane	8.30	83	50608	4.69 ug/L	94
40) 2-chloroethyl vinyl ether	8.75	63	19497	3.94 ug/L	97
42) cis-1,3-dichloropropene	8.97	75	51956	3.78 ug/L	87
43) 4-methyl-2-pentanone	9.20	43	52039	4.69 ug/L	96
45) toluene	9.44	92	79888	4.09 ug/L	95
46) 1,1,2-trichloroethane	10.18	83	25896	4.36 ug/L	92
47) 1,3-dichloropropane	10.45	76	58666	4.31 ug/L	100
48) tetrachloroethene	10.31	164	22363	4.14 ug/L	94
49) trans-1,3-dichloropropene	9.88	75	41067	3.62 ug/L	90

(#) = qualifier out of range (m) = manual integration

JN 8/18/08

MK/9/W

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081812.D Vial: 12
Acq On : 18 Aug 2008 6:27 pm Operator: jdb
Sample : ,ICAL,ICAL 5PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:25 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

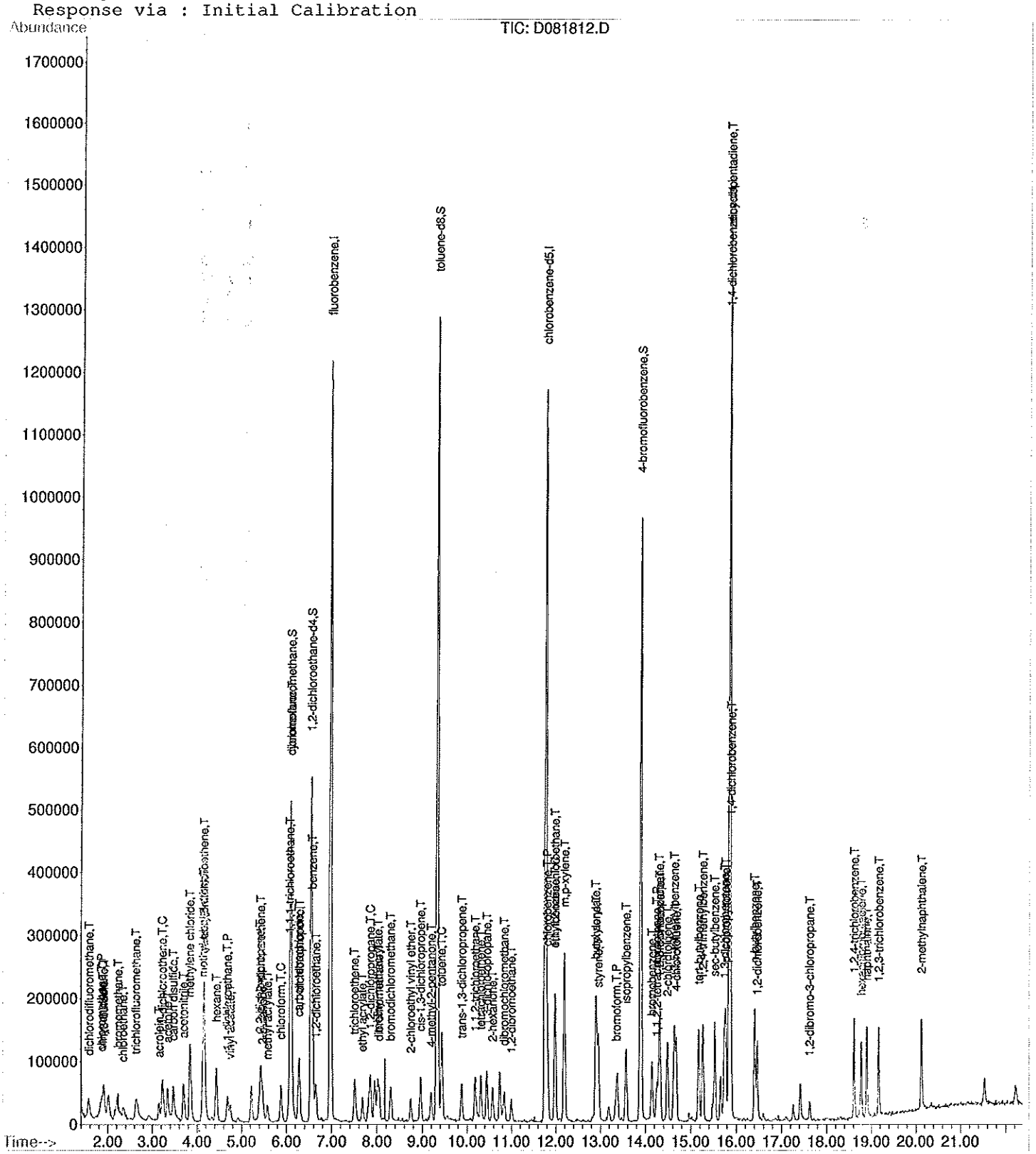
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	2-hexanone	10.57	43	64527	8.04	ug/L		97
51)	dibromochloromethane	10.83	129	33446	4.80	ug/L		98
52)	1,2-dibromoethane	10.99	107	32725	4.35	ug/L	#	96
53)	chlorobenzene	11.81	112	82554	4.31	ug/L		98
54)	1,1,1,2-tetrachloroethane	11.98	131	28588	4.51	ug/L		94
55)	ethylbenzene	11.98	91	150155	4.28	ug/L		91
56)	m,p-xylene	12.19	106	107779	8.21	ug/L	#	88
57)	butyl acrylate	12.88	55	88365	4.24	ug/L		86
58)	o-xylene	12.90	106	53451	4.15	ug/L		91
59)	styrene	12.96	104	93075	4.10	ug/L		94
60)	isopropylbenzene	13.57	105	119766	4.03	ug/L		99
61)	bromobenzene	14.15	156	32622	4.39	ug/L		90
62)	bromoform	13.35	173	18695	4.18	ug/L		87
64)	1,2,3-trichloropropane	14.30	75	39937	5.04	ug/L		97
65)	n-propylbenzene	14.32	91	169548	4.04	ug/L		99
66)	2-chlorotoluene	14.49	91	110048	4.46	ug/L		98
67)	4-chlorotoluene	14.68	91	126136	4.55	ug/L		98
68)	1,3,5-trimethylbenzene	14.64	105	116623	4.47	ug/L		93
70)	1,1,2,2-tetrachloroethane	14.25	83	43460	4.12	ug/L		97
71)	tert-butylbenzene	15.17	119	95925	4.15	ug/L		95
72)	sec-butylbenzene	15.54	105	155401	3.98	ug/L		97
73)	1,2,4-trimethylbenzene	15.27	105	122683	4.22	ug/L		95
74)	1,3-dichlorobenzene	15.74	146	59791	4.12	ug/L		92
75)	p-isopropyltoluene	15.77	119	119584	4.15	ug/L		97
76)	dicyclopentadiene	15.86	66	159195	3.50	ug/L		92
77)	1,4-dichlorobenzene	15.88	146	65481	4.46	ug/L		97
78)	1,2-dichlorobenzene	16.46	146	58378	4.25	ug/L		94
79)	n-butylbenzene	16.41	91	128508	4.00	ug/L		98
80)	1,2-dibromo-3-chloropropan	17.62	75	10873	5.43	ug/L	#	81
81)	1,2,4-trichlorobenzene	18.61	180	50034	4.50	ug/L		96
82)	hexachlorobutadiene	18.78	225	27306	5.16	ug/L		96
83)	naphthalene	18.90	128	135193	5.20	ug/L		100
84)	1,2,3-trichlorobenzene	19.17	180	49984	4.83	ug/L		97
85)	2-methylnaphthalene	20.12	142	90298	6.24	ug/L		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081812.D Vial: 12
Acq On : 18 Aug 2008 6:27 pm Operator: jdb
Sample : ,ICAL,ICAL 5PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:25 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081811.D
Acq On : 18 Aug 2008 5:52 pm
Sample : ,ICAL,ICAL 10PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:22 2008

Vial: 11
Operator: jdb
Inst : VOA 4
Multiplr: 1.00
Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1311830	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.76	117	902041	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	435631	50.00 ug/L	-0.04
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	374030	53.77 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	526870	62.66 ug/L	-0.03
44) toluene-d8	9.33	98	1169137	51.05 ug/L	-0.03
63) 4-bromofluorobenzene	13.89	95	528259	54.60 ug/L	-0.04
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	98731	9.81 ug/L	92
3) chloromethane	1.85	50	60362m2	5.21 ug/L	
4) vinyl chloride	1.88	62	98163	8.31 ug/L	87
5) 1,3-butadiene	1.91	39	113977	12.80 ug/L	90
6) bromomethane	2.23	94	19016	6.05 ug/L	92
7) chloroethane	2.34	64	57735	6.94 ug/L	87
8) trichlorofluoromethane	2.63	101	121690	11.11 ug/L	94
9) acrolein	3.14	56	57054	93.84 ug/L	100
10) 1,1-dichloroethene	3.22	96	59120	8.51 ug/L	95
11) acetone	3.33	43	65536	13.69 ug/L	91
12) carbon disulfide	3.46	76	238044	11.73 ug/L	99
13) methylene chloride	3.84	84	141454	12.86 ug/L	96
14) acrylonitrile	4.16	53	296752	95.12 ug/L	96
15) trans-1,2-dichloroethene	4.14	96	67628	8.71 ug/L	95
16) methyl-t-butyl ether	4.13	73	205773	9.64 ug/L	93
17) acetonitrile	3.69	41	134198	90.56 ug/L	99
18) hexane	4.44	57	164852	8.83 ug/L #	98
19) 1,1-dichloroethane	4.69	63	132743	8.85 ug/L	96
20) vinyl acetate	4.75	43	90116	7.22 ug/L	98
21) cis-1,2-dichloroethene	5.44	96	74395	8.73 ug/L	87
22) 2,2-dichloropropane	5.40	77	97356	9.03 ug/L	100
23) 2-butanone	5.48	72	8576m3	8.76 ug/L	
24) methyl acrylate	5.58	55	88514	10.57 ug/L #	98
25) chloroform	5.88	83	125029	9.42 ug/L	99
27) 1,1,1-trichloroethane	6.06	97	102593	10.15 ug/L	94
28) cyclohexane	6.10	56	147886	9.76 ug/L	93
29) carbon tetrachloride	6.27	117	76169	11.92 ug/L	93
31) benzene	6.58	78	255223	8.58 ug/L	98
32) 1,1-dichloropropene	6.29	75	101472	9.03 ug/L	99
33) 1,2-dichloroethane	6.65	62	127604	11.31 ug/L	93
34) trichloroethene	7.49	95	68330	8.99 ug/L	92
35) ethyl acrylate	7.67	55	134037	10.47 ug/L	97
36) 1,2-dichloropropane	7.85	63	72113	8.41 ug/L	86
37) methyl methacrylate	8.01	41	107708	11.29 ug/L	97
38) dibromomethane	8.05	93	47061	9.80 ug/L	96
39) bromodichloromethane	8.31	83	97812	9.44 ug/L	100
40) 2-chloroethyl vinyl ether	8.74	63	35284	7.43 ug/L	96
42) cis-1,3-dichloropropene	8.97	75	105251	7.83 ug/L	94
43) 4-methyl-2-pentanone	9.20	43	94601	8.72 ug/L	91
45) toluene	9.44	92	161129	8.44 ug/L	97
46) 1,1,2-trichloroethane	10.19	83	47503	8.19 ug/L	91
47) 1,3-dichloropropane	10.45	76	111038	8.36 ug/L	100
48) tetrachloroethene	10.31	164	50066	9.49 ug/L	97
49) trans-1,3-dichloropropene	9.88	75	79141	7.13 ug/L	92

JN 8/18/08

MS 8/19/08

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081811.D Vial: 11
Acq On : 18 Aug 2008 5:52 pm Operator: jdb
Sample : ,ICAL,ICAL 10PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:22 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

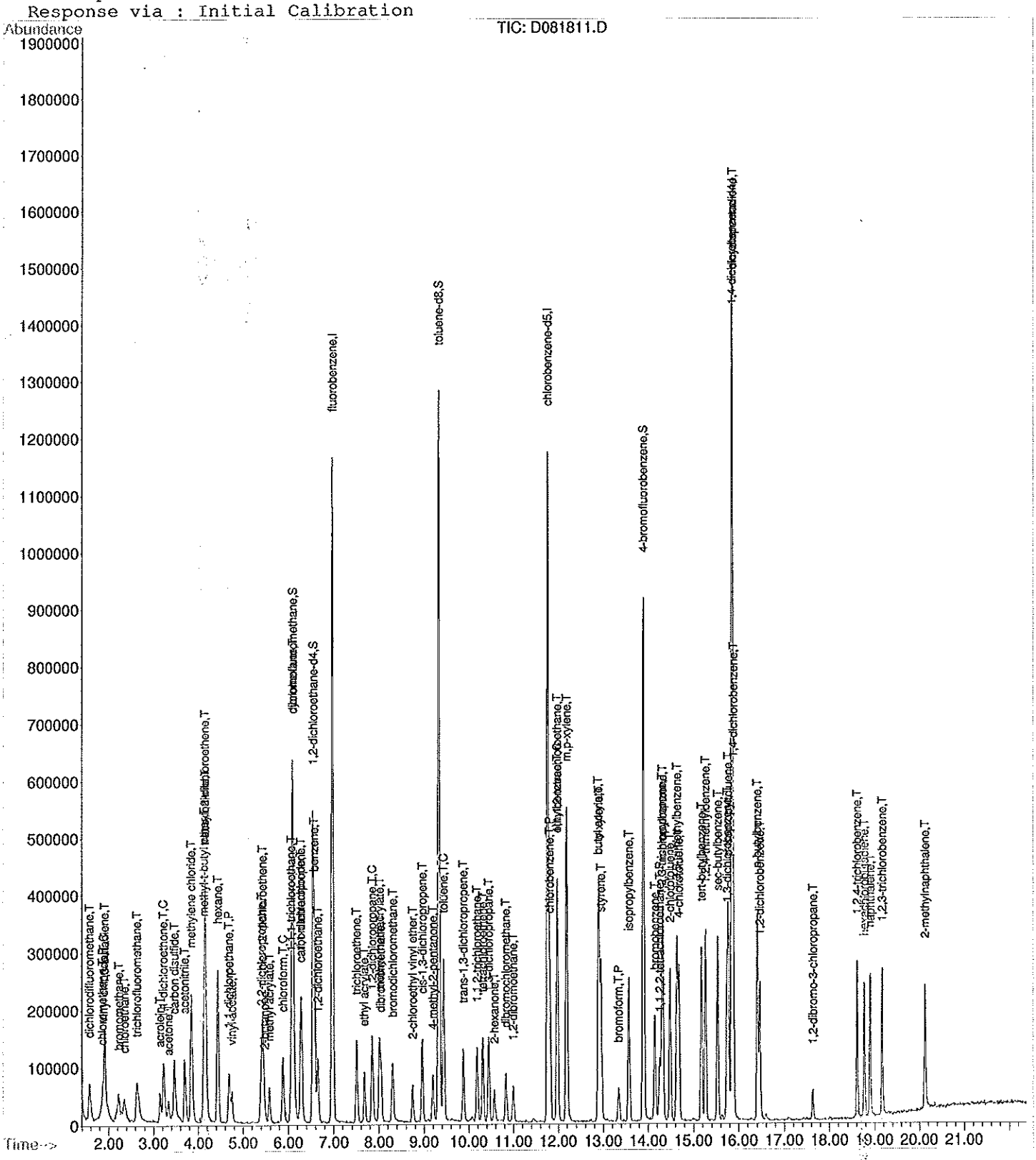
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	2-hexanone	10.57	43	64540	8.24	ug/L		98
51)	dibromochloromethane	10.83	129	63234	9.30	ug/L		96
52)	1,2-dibromoethane	11.00	107	63581	8.65	ug/L	#	93
53)	chlorobenzene	11.81	112	167960	8.97	ug/L		94
54)	1,1,1,2-tetrachloroethane	11.97	131	59410	9.60	ug/L		97
55)	ethylbenzene	11.98	91	316434	9.23	ug/L		98
56)	m,p-xylene	12.19	106	234923	18.33	ug/L		96
57)	butyl acrylate	12.88	55	210255	10.33	ug/L		91
58)	o-xylene	12.91	106	108926	8.65	ug/L	#	87
59)	styrene	12.95	104	192896	8.70	ug/L		89
60)	isopropylbenzene	13.57	105	262955	9.07	ug/L		97
61)	bromobenzene	14.15	156	65939	9.09	ug/L		94
62)	bromoform	13.35	173	39288	9.00	ug/L		91
64)	1,2,3-trichloropropane	14.30	75	74319	9.60	ug/L		93
65)	n-propylbenzene	14.32	91	368226	8.97	ug/L		98
66)	2-chlorotoluene	14.49	91	225324	9.35	ug/L		98
67)	4-chlorotoluene	14.68	91	259293	9.58	ug/L		98
68)	1,3,5-trimethylbenzene	14.64	105	251391	9.86	ug/L		93
70)	1,1,2,2-tetrachloroethane	14.26	83	81480	7.90	ug/L		99
71)	tert-butylbenzene	15.18	119	197292	8.74	ug/L		92
72)	sec-butylbenzene	15.53	105	327035	8.57	ug/L		99
73)	1,2,4-trimethylbenzene	15.26	105	259781	9.13	ug/L		94
74)	1,3-dichlorobenzene	15.74	146	123278	8.69	ug/L		96
75)	p-isopropyltoluene	15.77	119	256832	9.13	ug/L		96
76)	dicyclopentadiene	15.87	66	439091	9.87	ug/L		98
77)	1,4-dichlorobenzene	15.89	146	133413	9.29	ug/L		97
78)	1,2-dichlorobenzene	16.47	146	119464	8.89	ug/L		99
79)	n-butylbenzene	16.41	91	266517	8.49	ug/L		97
80)	1,2-dibromo-3-chloropropan	17.63	75	18443	9.42	ug/L		94
81)	1,2,4-trichlorobenzene	18.61	180	98116	9.02	ug/L		98
82)	hexachlorobutadiene	18.78	225	54303	10.51	ug/L		93
83)	naphthalene	18.90	128	223715	8.81	ug/L		100
84)	1,2,3-trichlorobenzene	19.17	180	92423	9.15	ug/L		94
85)	2-methylnaphthalene	20.12	142	143430	10.15	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081811.D Vial: 11
Acq On : 18 Aug 2008 5:52 pm Operator: jdb
Sample : ,ICAL,ICAL 10PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:22 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081810.D
Acq On : 18 Aug 2008 5:17 pm
Sample : ,ICAL,ICAL 20PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:20 2008

Vial: 10
Operator: jdb
Inst : VOA 4
Multiplr: 1.00
Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1389574	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.76	117	923074	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	446336	50.00 ug/L	-0.04
System Monitoring Compounds					
26) dibromofluoromethane	6.09	113	390698	53.02 ug/L	-0.04
30) 1,2-dichloroethane-d4	6.54	65	540937	60.73 ug/L	-0.03
44) toluene-d8	9.33	98	1204386	51.39 ug/L	-0.03
63) 4-bromofluorobenzene	13.89	95	530327	53.56 ug/L	-0.04
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	201390	18.89 ug/L	93
3) chloromethane	1.84	50	129647m2	10.56 ug/L	
4) vinyl chloride	1.87	62	204246	16.32 ug/L	95
5) 1,3-butadiene	1.91	39	233727	24.78 ug/L	92
6) bromomethane	2.22	94	61956	18.61 ug/L	96
7) chloroethane	2.35	64	115253	13.08 ug/L	93
8) trichlorofluoromethane	2.62	101	245844	21.19 ug/L	96
9) acrolein	3.15	56	118504	184.01 ug/L	100
10) 1,1-dichloroethene	3.22	96	118018	16.04 ug/L	96
11) acetone	3.33	43	102204	20.16 ug/L	98
12) carbon disulfide	3.47	76	453714	21.10 ug/L	98
13) methylene chloride	3.84	84	201844	17.33 ug/L	92
14) acrylonitrile	4.16	53	609194	184.35 ug/L	97
15) trans-1,2-dichloroethene	4.14	96	129286	15.71 ug/L #	84
16) methyl-t-butyl ether	4.13	73	409004	18.09 ug/L	98
17) acetonitrile	3.69	41	268523	171.06 ug/L	94
18) hexane	4.44	57	298102	15.07 ug/L #	22
19) 1,1-dichloroethane	4.68	63	268265	16.89 ug/L	98
20) vinyl acetate	4.75	43	182907	13.84 ug/L	97
21) cis-1,2-dichloroethene	5.43	96	143716	15.92 ug/L	94
22) 2,2-dichloropropane	5.40	77	201647	17.66 ug/L	97
23) 2-butanone	5.48	72	15602	15.04 ug/L #	90
24) methyl acrylate	5.58	55	179532	20.25 ug/L #	98
25) chloroform	5.88	83	248117	17.65 ug/L	100
27) 1,1,1-trichloroethane	6.07	97	211716	19.77 ug/L	93
28) cyclohexane	6.10	56	318557	19.85 ug/L	94
29) carbon tetrachloride	6.27	117	154893	22.88 ug/L	95
31) benzene	6.57	78	517523	16.43 ug/L	98
32) 1,1-dichloropropene	6.29	75	202628	17.01 ug/L	97
33) 1,2-dichloroethane	6.65	62	245329	20.52 ug/L	92
34) trichloroethene	7.49	95	134207	16.68 ug/L	96
35) ethyl acrylate	7.67	55	275138	20.29 ug/L	98
36) 1,2-dichloropropane	7.86	63	146499	16.14 ug/L	90
37) methyl methacrylate	8.01	41	218921	21.67 ug/L	92
38) dibromomethane	8.05	93	89674	17.64 ug/L	100
39) bromodichloromethane	8.30	83	193293	17.61 ug/L	95
40) 2-chloroethyl vinyl ether	8.75	63	70947	14.11 ug/L	99
42) cis-1,3-dichloropropene	8.96	75	208279	15.15 ug/L	91
43) 4-methyl-2-pentanone	9.20	43	188030	16.94 ug/L	98
45) toluene	9.44	92	322060	16.49 ug/L	97
46) 1,1,2-trichloroethane	10.19	83	96313	16.23 ug/L	95
47) 1,3-dichloropropane	10.45	76	221254	16.28 ug/L	99
48) tetrachloroethene	10.31	164	96763	17.92 ug/L	98
49) trans-1,3-dichloropropene	9.88	75	163882	14.44 ug/L	96

JN 8/18/08

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081810.D
Acq On : 18 Aug 2008 5:17 pm
Sample : ,ICAL,ICAL 20PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:20 2008

Vial: 10
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

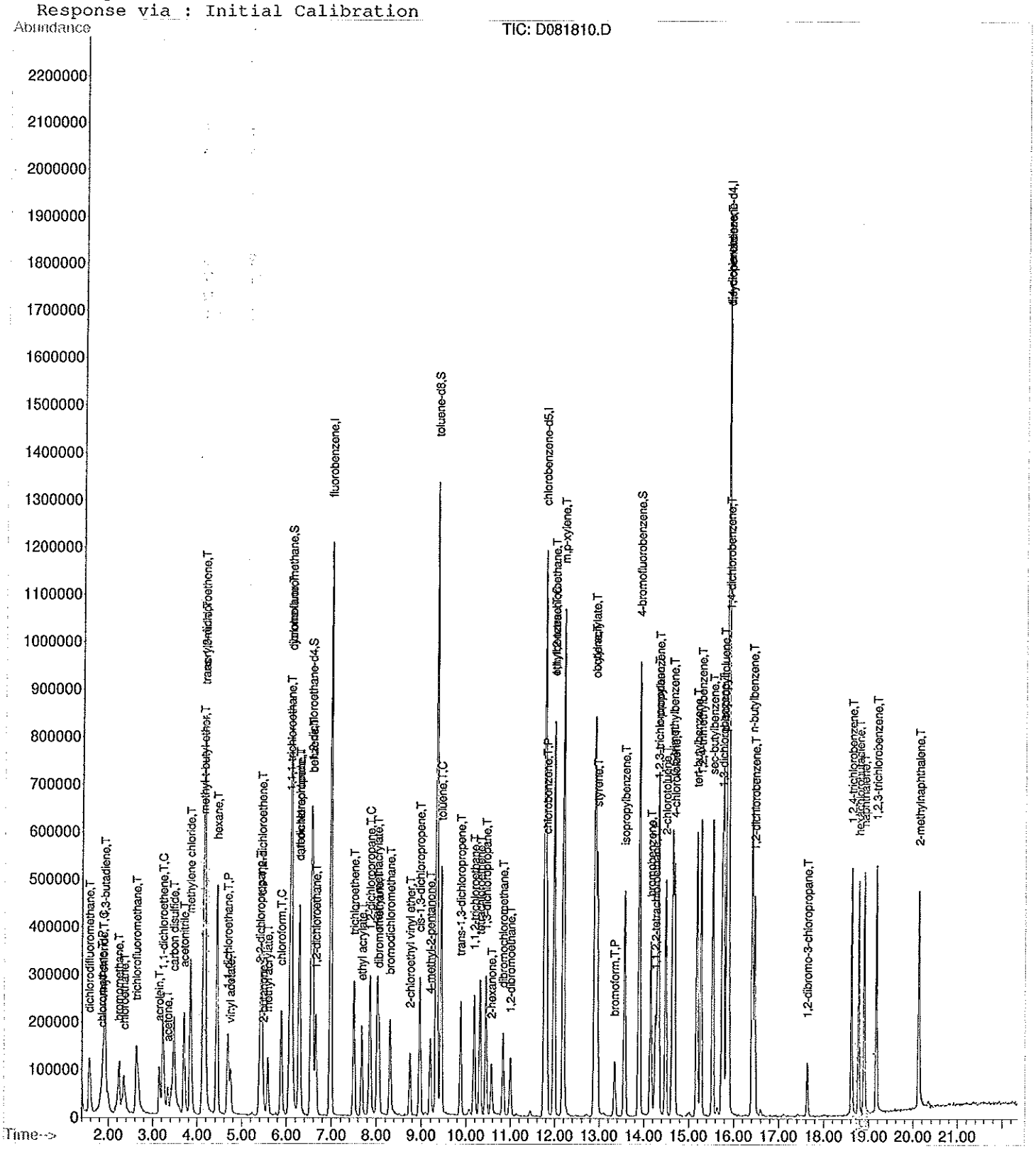
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	10.57	43	131107	16.35 ug/L	97
51) dibromochloromethane	10.83	129	128094	18.41 ug/L	96
52) 1,2-dibromoethane	11.00	107	126153	16.77 ug/L	98
53) chlorobenzene	11.81	112	327547	17.09 ug/L	89
54) 1,1,1,2-tetrachloroethane	11.98	131	116228	18.36 ug/L	97
55) ethylbenzene	11.98	91	612855	17.48 ug/L	95
56) m,p-xylene	12.19	106	447302	34.11 ug/L	92
57) butyl acrylate	12.89	55	424491	20.38 ug/L	96
58) o-xylene	12.91	106	215390	16.71 ug/L #	85
59) styrene	12.95	104	374187	16.50 ug/L	96
60) isopropylbenzene	13.57	105	522277	17.60 ug/L	99
61) bromobenzene	14.15	156	127542	17.18 ug/L	94
62) bromoform	13.35	173	78837	17.65 ug/L	96
64) 1,2,3-trichloropropane	14.30	75	145291	18.34 ug/L	97
65) n-propylbenzene	14.32	91	726085	17.29 ug/L	99
66) 2-chlorotoluene	14.49	91	439991	17.83 ug/L	98
67) 4-chlorotoluene	14.68	91	503515	18.17 ug/L	97
68) 1,3,5-trimethylbenzene	14.64	105	478345	18.34 ug/L	94
70) 1,1,2,2-tetrachloroethane	14.25	83	165064	15.62 ug/L	95
71) tert-butylbenzene	15.17	119	405848	17.56 ug/L	95
72) sec-butylbenzene	15.53	105	648955	16.59 ug/L	100
73) 1,2,4-trimethylbenzene	15.27	105	496527	17.04 ug/L	96
74) 1,3-dichlorobenzene	15.74	146	241978	16.66 ug/L	96
75) p-isopropyltoluene	15.78	119	505301	17.52 ug/L	97
76) dicyclopentadiene	15.87	66	876859	19.23 ug/L	98
77) 1,4-dichlorobenzene	15.89	146	245448	16.68 ug/L	99
78) 1,2-dichlorobenzene	16.46	146	229922	16.70 ug/L	97
79) n-butylbenzene	16.41	91	533328	16.57 ug/L	97
80) 1,2-dibromo-3-chloropropan	17.63	75	36517	18.21 ug/L	95
81) 1,2,4-trichlorobenzene	18.61	180	190703	17.12 ug/L	94
82) hexachlorobutadiene	18.78	225	114817	21.69 ug/L	95
83) naphthalene	18.90	128	464941	17.86 ug/L	100
84) 1,2,3-trichlorobenzene	19.17	180	182021	17.58 ug/L	93
85) 2-methylnaphthalene	20.12	142	299323	20.67 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081810.D Vial: 10
Acq On : 18 Aug 2008 5:17 pm Operator: jdb
Sample : ,ICAL,ICAL 20PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:20 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081813.D Vial: 6
Acq On : 18 Aug 2008 8:02 pm Operator: jdb
Sample : ,ICAL,ICAL 50PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 20:30 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Mon Aug 18 19:35:24 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1482618	50.00 ug/L	0.00
41) chlorobenzene-d5	11.76	117	1014994	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.85	152	487165	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	419678	50.43 ug/L	0.00
30) 1,2-dichloroethane-d4	6.54	65	555373	48.79 ug/L	0.00
44) toluene-d8	9.33	98	1289198	48.94 ug/L	0.00
63) 4-bromofluorobenzene	13.90	95	588515	50.27 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	627602	54.29 ug/L	96
3) chloromethane	1.83	50	285881	40.98 ug/L	90
4) vinyl chloride	1.88	62	507078	45.17 ug/L	97
5) 1,3-butadiene	1.91	39	554682	46.77 ug/L	94
6) bromomethane	2.23	94	136840	36.64 ug/L	98
7) chloroethane	2.33	64	343746	58.63 ug/L	88
8) trichlorofluoromethane	2.62	101	764451	55.40 ug/L	98
9) acrolein	3.15	56	321599	466.08 ug/L	100
10) 1,1-dichloroethene	3.22	96	360747	53.34 ug/L #	86
11) acetone	3.33	43	217975	42.25 ug/L	94
12) carbon disulfide	3.46	76	1328263	50.97 ug/L	100
13) methylene chloride	3.84	84	434568	40.58 ug/L	98
14) acrylonitrile	4.16	53	1543926	457.62 ug/L	99
15) trans-1,2-dichloroethene	4.14	96	393467	52.49 ug/L	90
16) methyl-t-butyl ether	4.13	73	1159386	49.29 ug/L	95
17) acetonitrile	3.69	41	626720	417.18 ug/L	96
18) hexane	4.44	57	747231	41.65 ug/L #	97
19) 1,1-dichloroethane	4.69	63	789913	51.93 ug/L	99
20) vinyl acetate	4.75	43	532229	48.06 ug/L	100
21) cis-1,2-dichloroethene	5.43	96	419608	50.74 ug/L	91
22) 2,2-dichloropropane	5.41	77	639351	54.45 ug/L	96
23) 2-butanone	5.47	72	47194	39.42 ug/L	92
24) methyl acrylate	5.58	55	415057	44.66 ug/L #	100
25) chloroform	5.88	83	735470	51.69 ug/L	98
27) 1,1,1-trichloroethane	6.06	97	633505	52.62 ug/L	98
28) cyclohexane	6.10	56	824030	51.28 ug/L	93
29) carbon tetrachloride	6.27	117	473847	52.90 ug/L	94
31) benzene	6.58	78	1492429	49.92 ug/L	98
32) 1,1-dichloropropene	6.28	75	599443	51.56 ug/L	100
33) 1,2-dichloroethane	6.65	62	700795	50.09 ug/L	98
34) trichloroethene	7.50	95	409263	52.58 ug/L	96
35) ethyl acrylate	7.67	55	661791	46.34 ug/L	98
36) 1,2-dichloropropane	7.85	63	405336	48.70 ug/L	92
37) methyl methacrylate	8.01	41	508059	45.62 ug/L	96
38) dibromomethane	8.05	93	243231	47.51 ug/L	98
39) bromodichloromethane	8.31	83	574660	50.80 ug/L	98
40) 2-chloroethyl vinyl ether	8.74	63	233683	48.39 ug/L	99
42) cis-1,3-dichloropropene	8.97	75	642152	50.64 ug/L	91
43) 4-methyl-2-pentanone	9.20	43	491349	44.28 ug/L	97
45) toluene	9.44	92	930195	50.29 ug/L	99
46) 1,1,2-trichloroethane	10.19	83	275323	48.53 ug/L	93
47) 1,3-dichloropropane	10.45	76	643485	49.11 ug/L	99
48) tetrachloroethene	10.31	164	284982	50.79 ug/L	98
49) trans-1,3-dichloropropene	9.88	75	507192	49.88 ug/L	95

(#) = qualifier out of range (m) = manual integration

JN 8/18/08 8/19/08

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081813.D
Acq On : 18 Aug 2008 8:02 pm
Sample : ,ICAL,ICAL 50PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 20:30 2008

Vial: 6
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Mon Aug 18 19:35:24 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

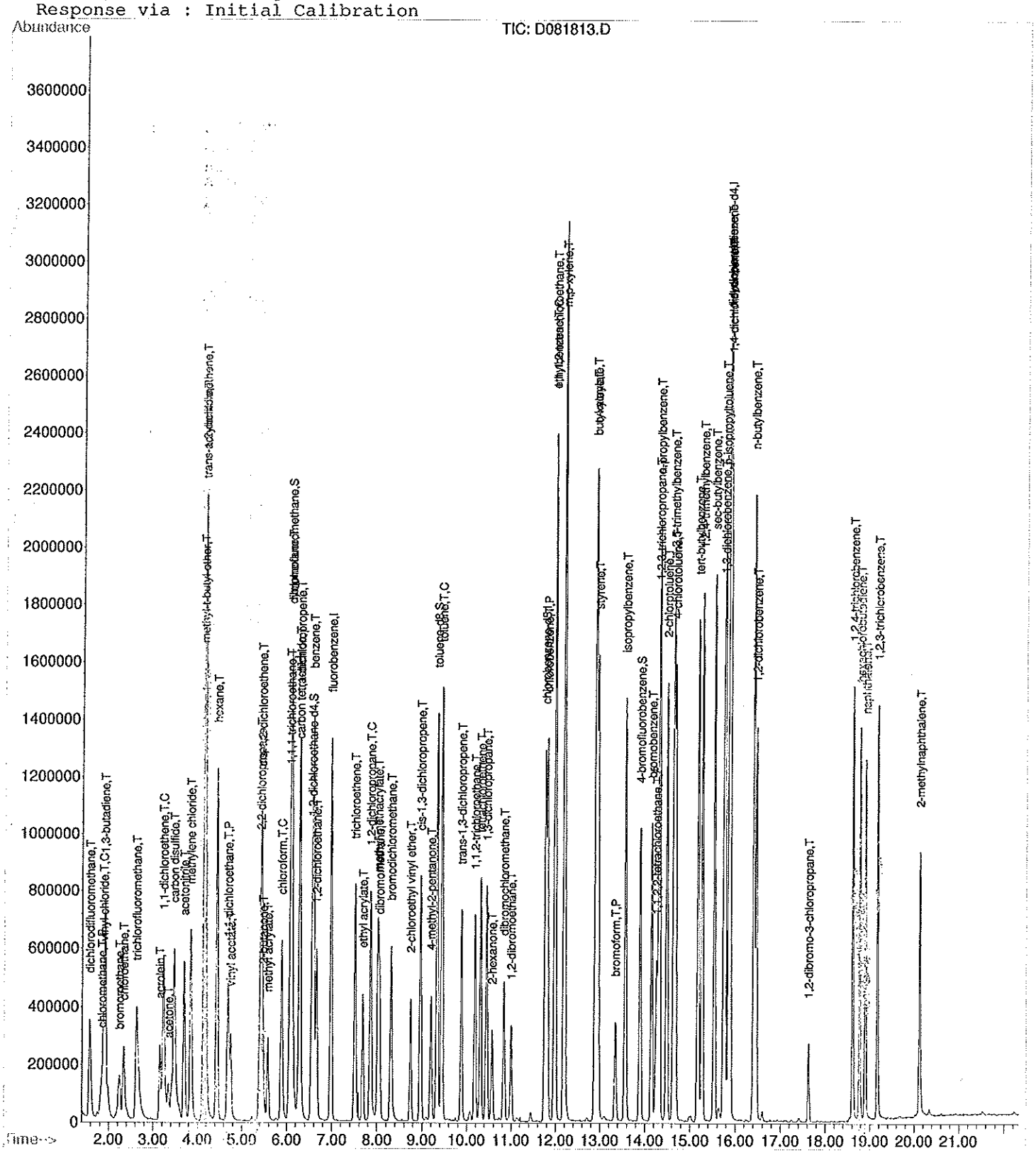
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	10.57	43	350852	39.79 ug/L	96
51)	dibromochloromethane	10.84	129	373321	49.27 ug/L	99
52)	1,2-dibromoethane	11.00	107	349900	47.46 ug/L	100
53)	chlorobenzene	11.81	112	978197	51.16 ug/L	98
54)	1,1,1,2-tetrachloroethane	11.98	131	352422	51.48 ug/L	97
55)	ethylbenzene	11.98	91	1819959	51.59 ug/L	93
56)	m,p-xylene	12.19	106	1326493	103.61 ug/L	92
57)	butyl acrylate	12.89	55	1047818	46.32 ug/L	99
58)	o-xylene	12.90	106	640807	51.86 ug/L	91
59)	styrene	12.95	104	1128106	51.64 ug/L	95
60)	isopropylbenzene	13.57	105	1556331	52.25 ug/L	100
61)	bromobenzene	14.15	156	377065	50.15 ug/L	96
62)	bromoform	13.35	173	241276	49.20 ug/L	94
64)	1,2,3-trichloropropane	14.30	75	365886	44.16 ug/L	91
65)	n-propylbenzene	14.33	91	2160064	52.26 ug/L	100
66)	2-chlorotoluene	14.49	91	1314168	51.46 ug/L	100
67)	4-chlorotoluene	14.68	91	1516719	51.85 ug/L	98
68)	1,3,5-trimethylbenzene	14.64	105	1437028	51.90 ug/L	96
70)	1,1,2,2-tetrachloroethane	14.25	83	432746	45.17 ug/L	99
71)	tert-butylbenzene	15.18	119	1205221	51.79 ug/L	96
72)	sec-butylbenzene	15.53	105	1960166	52.53 ug/L	99
73)	1,2,4-trimethylbenzene	15.27	105	1482204	50.74 ug/L	96
74)	1,3-dichlorobenzene	15.74	146	711054	50.48 ug/L	97
75)	p-isopropyltoluene	15.77	119	1514741	51.96 ug/L	97
76)	dicyclopentadiene	15.86	66	2221994	51.03 ug/L	99
77)	1,4-dichlorobenzene	15.89	146	723031	50.00 ug/L	100
78)	1,2-dichlorobenzene	16.46	146	674291	50.15 ug/L	97
79)	n-butylbenzene	16.41	91	1606751	52.17 ug/L	98
80)	1,2-dibromo-3-chloropropan	17.63	75	89421	41.70 ug/L	98
81)	1,2,4-trichlorobenzene	18.61	180	549906	49.94 ug/L	98
82)	hexachlorobutadiene	18.78	225	317866	50.06 ug/L	96
83)	naphthalene	18.90	128	1130334	45.29 ug/L	100
84)	1,2,3-trichlorobenzene	19.17	180	505449	49.16 ug/L	97
85)	2-methylnaphthalene	20.12	142	579848	41.50 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081813.D Vial: 6
Acq On : 18 Aug 2008 8:02 pm Operator: jdb
Sample : ,ICAL,ICAL 50PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 20:30 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Mon Aug 18 19:35:24 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081809.D
Acq On : 18 Aug 2008 4:41 pm
Sample : ,ICAL,ICAL 70PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:19 2008

Vial: 9
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1521706	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.76	117	1024477	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	479981	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	425060	52.68 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	579099	59.37 ug/L	-0.04
44) toluene-d8	9.33	98	1316578	50.62 ug/L	-0.03
63) 4-bromofluorobenzene	13.90	95	590783	53.76 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	851624	72.95 ug/L	98
3) chloromethane	1.85	50	489570m2	36.41 ug/L	
4) vinyl chloride	1.87	62	813581	59.38 ug/L	96
5) 1,3-butadiene	1.90	39	782778	75.78 ug/L	95
6) bromomethane	2.23	94	291591	79.97 ug/L	98
7) chloroethane	2.32	64	280862	29.10 ug/L	88
8) trichlorofluoromethane	2.60	101	950079	74.78 ug/L	96
9) acrolein	3.15	56	536191	760.29 ug/L	96
10) 1,1-dichloroethene	3.21	96	491218	60.96 ug/L #	86
11) acetone	3.34	43	330859	59.60 ug/L	99
12) carbon disulfide	3.46	76	1833996	77.88 ug/L	99
13) methylene chloride	3.84	84	617701	48.42 ug/L	97
14) acrylonitrile	4.17	53	2547307	703.93 ug/L	97
15) trans-1,2-dichloroethene	4.14	96	542451	60.21 ug/L	91
16) methyl-t-butyl ether	4.13	73	1715998	69.31 ug/L	96
17) acetonitrile	3.69	41	1135348	660.47 ug/L	97
18) hexane	4.43	57	972208	44.88 ug/L #	97
19) 1,1-dichloroethane	4.68	63	1121915	64.51 ug/L	97
20) vinyl acetate	4.75	43	841940	58.19 ug/L	99
21) cis-1,2-dichloroethene	5.43	96	585842	59.27 ug/L	93
22) 2,2-dichloropropane	5.41	77	869826	69.56 ug/L	97
23) 2-butanone	5.47	72	77662	68.37 ug/L	95
24) methyl acrylate	5.58	55	664319	68.42 ug/L #	100
25) chloroform	5.88	83	1016095	65.99 ug/L	98
27) 1,1,1-trichloroethane	6.06	97	880180	75.06 ug/L	99
28) cyclohexane	6.09	56	1085066	61.73 ug/L	93
29) carbon tetrachloride	6.27	117	665266	89.73 ug/L	98
31) benzene	6.58	78	2094447	60.73 ug/L	98
32) 1,1-dichloropropene	6.29	75	850415	65.21 ug/L	99
33) 1,2-dichloroethane	6.65	62	985944	75.31 ug/L	99
34) trichloroethene	7.50	95	569895	64.67 ug/L	98
35) ethyl acrylate	7.67	55	1023679	68.93 ug/L	98
36) 1,2-dichloropropane	7.85	63	603488	60.71 ug/L	95
37) methyl methacrylate	8.01	41	781785	70.66 ug/L	95
38) dibromomethane	8.05	93	364337	65.44 ug/L	98
39) bromodichloromethane	8.30	83	820192	68.24 ug/L	99
40) 2-chloroethyl vinyl ether	8.75	63	376304	68.35 ug/L	98
42) cis-1,3-dichloropropene	8.97	75	924670	60.59 ug/L	93
43) 4-methyl-2-pentanone	9.20	43	841866	68.35 ug/L	97
45) toluene	9.44	92	1307366	60.30 ug/L	100
46) 1,1,2-trichloroethane	10.19	83	412450	62.62 ug/L	96
47) 1,3-dichloropropane	10.45	76	948856	62.91 ug/L	100
48) tetrachloroethene	10.31	164	398861	66.56 ug/L	95
49) trans-1,3-dichloropropene	9.88	75	757299	60.11 ug/L	96

JN 8/18/08

(#) = qualifier out of range (m) = manual integration
D081809.D VOA0818.M Mon Aug 18 19:20:24 2008 VOA4

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081809.D
Acq On : 18 Aug 2008 4:41 pm
Sample : ,ICAL,ICAL 70PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:19 2008

Vial: 9
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

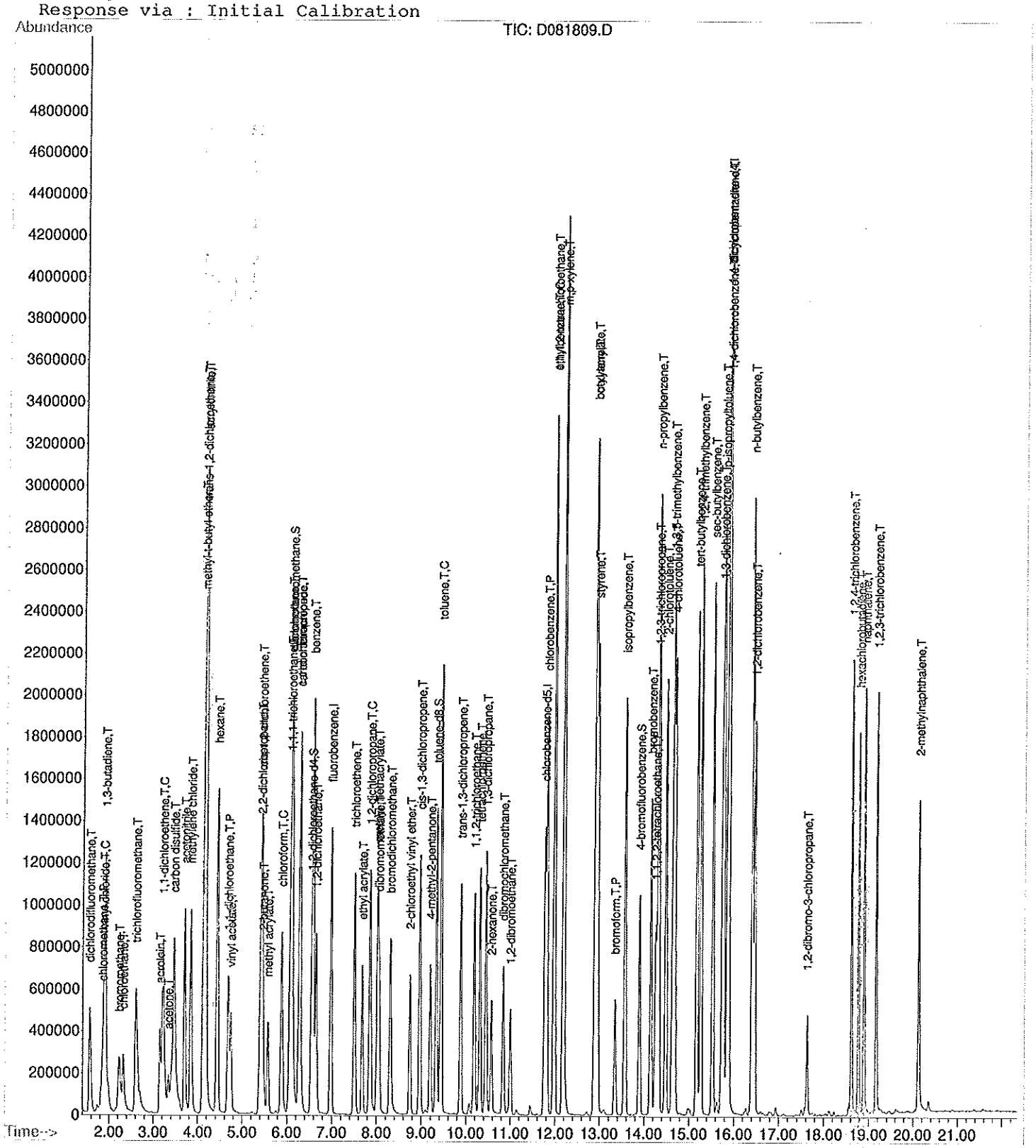
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	10.57	43	620601	69.75 ug/L	96
51) dibromochloromethane	10.84	129	551361	71.40 ug/L	96
52) 1,2-dibromoethane	11.00	107	536828	64.31 ug/L	99
53) chlorobenzene	11.81	112	1351915	63.57 ug/L	95
54) 1,1,1,2-tetrachloroethane	11.98	131	484967	69.03 ug/L	96
55) ethylbenzene	11.98	91	2519858	64.75 ug/L	96
56) m,p-xylene	12.19	106	1813007	124.55 ug/L	91
57) butyl acrylate	12.89	55	1615180	69.87 ug/L	97
58) o-xylene	12.91	106	878369	61.42 ug/L #	86
59) styrene	12.95	104	1558446	61.92 ug/L	94
60) isopropylbenzene	13.57	105	2139648	64.98 ug/L	99
61) bromobenzene	14.15	156	539361	65.46 ug/L	97
62) bromoform	13.35	173	383335	77.34 ug/L	98
64) 1,2,3-trichloropropane	14.30	75	612549	69.66 ug/L	99
65) n-propylbenzene	14.33	91	2977943	63.90 ug/L	100
66) 2-chlorotoluene	14.49	91	1816845	66.35 ug/L	98
67) 4-chlorotoluene	14.68	91	2084370	67.77 ug/L	97
68) 1,3,5-trimethylbenzene	14.64	105	1976600	68.27 ug/L	95
70) 1,1,2,2-tetrachloroethane	14.25	83	700893	61.66 ug/L	99
71) tert-butylbenzene	15.18	119	1631776	65.64 ug/L	94
72) sec-butylbenzene	15.53	105	2604159	61.92 ug/L	100
73) 1,2,4-trimethylbenzene	15.27	105	2076770	66.28 ug/L	95
74) 1,3-dichlorobenzene	15.74	146	983487	62.95 ug/L	98
75) p-isopropyltoluene	15.78	119	2025349	65.32 ug/L	96
76) dicyclopentadiene	15.87	66	2924486	59.64 ug/L	98
77) 1,4-dichlorobenzene	15.89	146	991163	62.64 ug/L	97
78) 1,2-dichlorobenzene	16.47	146	946200	63.91 ug/L	99
79) n-butylbenzene	16.41	91	2174482	62.83 ug/L	98
80) 1,2-dibromo-3-chloropropan	17.63	75	155807	72.26 ug/L	95
81) 1,2,4-trichlorobenzene	18.61	180	754497	62.98 ug/L	96
82) hexachlorobutadiene	18.78	225	446614	78.45 ug/L	99
83) naphthalene	18.90	128	1798178	64.24 ug/L	100
84) 1,2,3-trichlorobenzene	19.17	180	697235	62.63 ug/L	98
85) 2-methylnaphthalene	20.12	142	928563	59.62 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081809.D Vial: 9
Acq On : 18 Aug 2008 4:41 pm Operator: jdb
Sample : ,ICAL,ICAL 70PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:19 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081808.D Vial: 8
Acq On : 18 Aug 2008 4:05 pm Operator: jdb
Sample : ,ICAL,ICAL 100PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:18 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.97	96	1482310	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.77	117	1036025	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	491158	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	416711	53.02 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	559600	58.90 ug/L	-0.03
44) toluene-d8	9.33	98	1341492	51.00 ug/L	-0.03
63) 4-bromofluorobenzene	13.90	95	595574	53.60 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	1266035	111.33 ug/L	97
3) chloromethane	1.85	50	735694m2	56.17 ug/L	
4) vinyl chloride	1.87	62	1186225	88.88 ug/L	97
5) 1,3-butadiene	1.90	39	1138898	113.18 ug/L	94
6) bromomethane	2.22	94	435847	122.71 ug/L	100
7) chloroethane	2.31	64	341448	36.32 ug/L	85
8) trichlorofluoromethane	2.60	101	1429187	115.47 ug/L	99
9) acrolein	3.14	56	718826	1046.34 ug/L	97
10) 1,1-dichloroethene	3.22	96	757367	96.49 ug/L	96
11) acetone	3.34	43	439650	81.30 ug/L	91
12) carbon disulfide	3.46	76	2785291	121.43 ug/L	100
13) methylene chloride	3.84	84	953020	76.70 ug/L	98
14) acrylonitrile	4.17	53	3381451	959.27 ug/L	97
15) trans-1,2-dichloroethene	4.14	96	801522	91.32 ug/L	90
16) methyl-t-butyl ether	4.12	73	2433912	100.92 ug/L	96
17) acetonitrile	3.70	41	1522674	909.34 ug/L	98
18) hexane	4.43	57	1495170	70.85 ug/L #	98
19) 1,1-dichloroethane	4.68	63	1675109	98.88 ug/L	95
20) vinyl acetate	4.74	43	1220492	86.59 ug/L	100
21) cis-1,2-dichloroethene	5.43	96	885828	92.01 ug/L	96
22) 2,2-dichloropropane	5.40	77	1336810	109.74 ug/L	95
23) 2-butanone	5.47	72	104330	94.29 ug/L	93
24) methyl acrylate	5.57	55	896322	94.77 ug/L #	99
25) chloroform	5.88	83	1537063	102.48 ug/L	99
27) 1,1,1-trichloroethane	6.07	97	1332820	116.68 ug/L	96
28) cyclohexane	6.09	56	1601485	93.53 ug/L	93
29) carbon tetrachloride	6.27	117	1010033	139.85 ug/L	98
31) benzene	6.58	78	3106424	92.47 ug/L	98
32) 1,1-dichloropropene	6.28	75	1285000	101.15 ug/L	100
33) 1,2-dichloroethane	6.65	62	1470440	115.30 ug/L	98
34) trichloroethene	7.50	95	856494	99.78 ug/L	95
35) ethyl acrylate	7.68	55	1389357	96.05 ug/L	98
36) 1,2-dichloropropane	7.85	63	906642	93.63 ug/L	96
37) methyl methacrylate	8.01	41	1068305	99.12 ug/L	95
38) dibromomethane	8.05	93	530922	97.89 ug/L	99
39) bromodichloromethane	8.30	83	1231373	105.17 ug/L	99
40) 2-chloroethyl vinyl ether	8.75	63	547143	102.02 ug/L	99
42) cis-1,3-dichloropropene	8.97	75	1396351	90.48 ug/L	90
43) 4-methyl-2-pentanone	9.20	43	1168857	93.84 ug/L	97
45) toluene	9.44	92	1964614	89.60 ug/L	98
46) 1,1,2-trichloroethane	10.19	83	608390	91.34 ug/L	96
47) 1,3-dichloropropane	10.45	76	1412750	92.62 ug/L	99
48) tetrachloroethene	10.32	164	609536	100.59 ug/L	95
49) trans-1,3-dichloropropene	9.88	75	1153268	90.52 ug/L	96

JN 8/18/08

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081808.D
Acq On : 18 Aug 2008 4:05 pm
Sample : ,ICAL,ICAL 100PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:18 2008

Vial: 8
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	10.57	43	846119	94.03 ug/L	99
51)	dibromochloromethane	10.84	129	830944	106.41 ug/L	100
52)	1,2-dibromoethane	11.00	107	790384	93.63 ug/L	100
53)	chlorobenzene	11.82	112	2069504	96.22 ug/L	97
54)	1,1,1,2-tetrachloroethane	11.98	131	753108	106.01 ug/L	96
55)	ethylbenzene	11.98	91	3809613	96.80 ug/L	97
56)	m,p-xylene	12.19	106	2750386	186.84 ug/L	92
57)	butyl acrylate	12.89	55	2222962	95.09 ug/L	96
58)	o-xylene	12.90	106	1330141	91.97 ug/L	90
59)	styrene	12.95	104	2370103	93.13 ug/L	93
60)	isopropylbenzene	13.57	105	3252186	97.67 ug/L	100
61)	bromobenzene	14.15	156	822782	98.74 ug/L	96
62)	bromoform	13.35	173	567288	113.18 ug/L	99
64)	1,2,3-trichloropropane	14.31	75	874029	98.29 ug/L	96
65)	n-propylbenzene	14.33	91	4536638	96.25 ug/L	100
66)	2-chlorotoluene	14.49	91	2772878	100.14 ug/L	99
67)	4-chlorotoluene	14.68	91	3172936	102.02 ug/L	98
68)	1,3,5-trimethylbenzene	14.64	105	2996130	102.34 ug/L	95
70)	1,1,2,2-tetrachloroethane	14.26	83	1009842	86.82 ug/L	97
71)	tert-butylbenzene	15.18	119	2526481	99.31 ug/L	95
72)	sec-butylbenzene	15.54	105	3991855	92.75 ug/L	99
73)	1,2,4-trimethylbenzene	15.27	105	3114236	97.12 ug/L	95
74)	1,3-dichlorobenzene	15.74	146	1501498	93.92 ug/L	96
75)	p-isopropyltoluene	15.77	119	3139409	98.94 ug/L	97
76)	dicyclopentadiene	15.87	66	4296091	85.61 ug/L	98
77)	1,4-dichlorobenzene	15.89	146	1510711	93.30 ug/L	97
78)	1,2-dichlorobenzene	16.46	146	1427157	94.20 ug/L	99
79)	n-butylbenzene	16.41	91	3308555	93.43 ug/L	98
80)	1,2-dibromo-3-chloropropan	17.62	75	220225	99.81 ug/L	99
81)	1,2,4-trichlorobenzene	18.62	180	1160058	94.63 ug/L	97
82)	hexachlorobutadiene	18.77	225	681996	117.07 ug/L	95
83)	naphthalene	18.90	128	2623302	91.59 ug/L	100
84)	1,2,3-trichlorobenzene	19.17	180	1068934	93.84 ug/L	99
85)	2-methylnaphthalene	20.13	142	1331262	83.53 ug/L	100

(#) = qualifier out of range (m) = manual integration

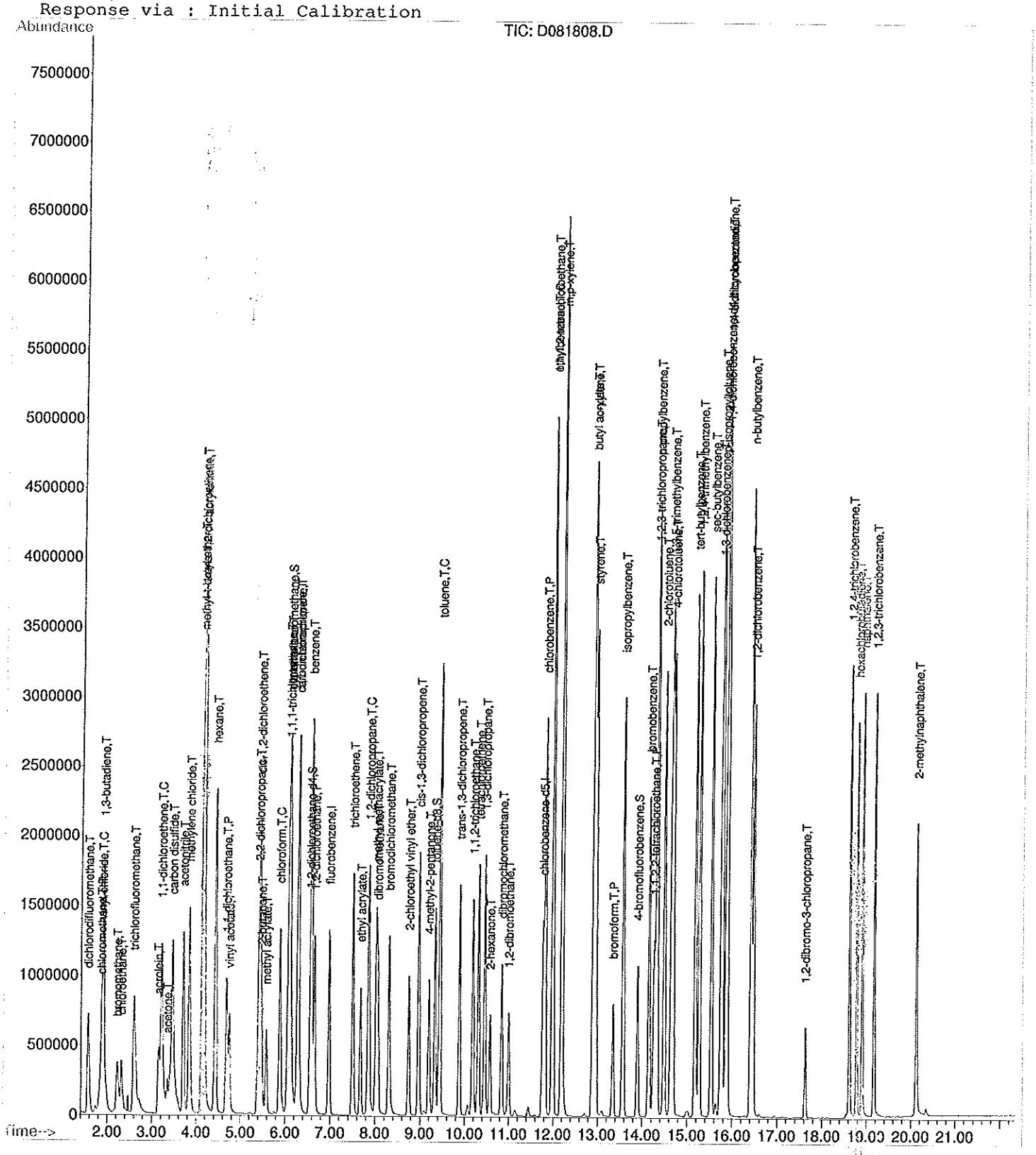
Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081808.D
Acq On : 18 Aug 2008 4:05 pm
Sample : ,ICAL,ICAL 100PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:18 2008

Vial: 8
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081807.D
Acq On : 18 Aug 2008 3:30 pm
Sample : ,ICAL,ICAL 200PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:17 2008

Vial: 7
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.97	96	1622868	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.76	117	1046355	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	469513	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	450086	52.30 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.54	65	605828	58.24 ug/L	-0.03
44) toluene-d8	9.33	98	1405335	52.90 ug/L	-0.03
63) 4-bromofluorobenzene	13.90	95	605931	53.99 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	2787168	223.86 ug/L	97
3) chloromethane	1.86	50	1450034m2	101.12 ug/L	
4) vinyl chloride	1.87	62	2723387	186.38 ug/L	95
5) 1,3-butadiene	1.90	39	2595458	235.59 ug/L	95
6) bromomethane	2.23	94	863858	222.15 ug/L	99
7) chloroethane	2.30	64	747989	72.68 ug/L	85
8) trichlorofluoromethane	2.56	101	3610660	266.46 ug/L	97
9) acrolein	3.16	56	1543715	2052.45 ug/L	95
10) 1,1-dichloroethene	3.19	96	1585312	184.49 ug/L	93
11) acetone	3.36	43	893221	150.86 ug/L	96
12) carbon disulfide	3.43	76	5707535	227.27 ug/L	100
13) methylene chloride	3.83	84	1878213	138.06 ug/L	98
14) acrylonitrile	4.19	53	7437928	1927.29 ug/L	96
15) trans-1,2-dichloroethene	4.13	96	1677436	174.57 ug/L	92
16) methyl-t-butyl ether	4.14	73	5241945	198.53 ug/L	97
17) acetonitrile	3.71	41	3354484	1829.79 ug/L	96
18) hexane	4.42	57	3280850	142.01 ug/L #	98
19) 1,1-dichloroethane	4.67	63	3456294	186.36 ug/L	98
20) vinyl acetate	4.75	43	2721767	176.38 ug/L	99
21) cis-1,2-dichloroethene	5.43	96	1841296	174.69 ug/L	94
22) 2,2-dichloropropane	5.40	77	2876323	215.67 ug/L	96
23) 2-butanone	5.49	72	230754	190.48 ug/L	88
24) methyl acrylate	5.59	55	2174680	210.01 ug/L #	99
25) chloroform	5.88	83	3183453	193.87 ug/L	99
27) 1,1,1-trichloroethane	6.06	97	2750982	219.97 ug/L	99
28) cyclohexane	6.08	56	3509122	187.19 ug/L	91
29) carbon tetrachloride	6.26	117	2111091	266.98 ug/L	97
31) benzene	6.57	78	6386305	173.63 ug/L	98
32) 1,1-dichloropropene	6.27	75	2644846	190.16 ug/L	100
33) 1,2-dichloroethane	6.65	62	3076312	220.32 ug/L	98
34) trichloroethene	7.50	95	1786969	190.14 ug/L	96
35) ethyl acrylate	7.68	55	3283664	207.34 ug/L	98
36) 1,2-dichloropropane	7.85	63	1831938	172.80 ug/L	99
37) methyl methacrylate	8.02	41	2493688	211.33 ug/L	94
38) dibromomethane	8.05	93	1111774	187.23 ug/L	98
39) bromodichloromethane	8.31	83	2542824	198.38 ug/L	99
40) 2-chloroethyl vinyl ether	8.75	63	1232724	209.94 ug/L	99
42) cis-1,3-dichloropropene	8.97	75	2910692	186.75 ug/L	92
43) 4-methyl-2-pentanone	9.20	43	2421804	192.51 ug/L	98
45) toluene	9.44	92	3932024	177.56 ug/L	98
46) 1,1,2-trichloroethane	10.19	83	1218378	181.11 ug/L	95
47) 1,3-dichloropropane	10.45	76	2831503	183.79 ug/L	100
48) tetrachloroethene	10.31	164	1224587	200.09 ug/L	92
49) trans-1,3-dichloropropene	9.88	75	2433912	189.16 ug/L	96

JD 8/18/08

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081807.D
Acq On : 18 Aug 2008 3:30 pm
Sample : ,ICAL,ICAL 200PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:17 2008

Vial: 7
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	10.58	43	1728958	190.25 ug/L	97
51) dibromochloromethane	10.84	129	1651865	209.44 ug/L	97
52) 1,2-dibromoethane	11.00	107	1598700	187.51 ug/L	99
53) chlorobenzene	11.82	112	3994628	183.90 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.98	131	1450968	202.22 ug/L	96
55) ethylbenzene	11.99	91	7205509	181.28 ug/L	99
56) m,p-xylene	12.20	106	5185844	348.82 ug/L	95
57) butyl acrylate	12.89	55	4709307	199.46 ug/L	97
58) o-xylene	12.91	106	2537507	173.71 ug/L #	86
59) styrene	12.95	104	4555983	177.25 ug/L	94
60) isopropylbenzene	13.57	105	6252663	185.93 ug/L	100
61) bromobenzene	14.15	156	1555943	184.89 ug/L	96
62) bromoform	13.35	173	1133592	223.93 ug/L	96
64) 1,2,3-trichloropropane	14.31	75	1650816	183.82 ug/L	96
65) n-propylbenzene	14.33	91	8400768	176.48 ug/L	99
66) 2-chlorotoluene	14.49	91	5269167	188.41 ug/L	99
67) 4-chlorotoluene	14.68	91	6001843	191.07 ug/L	98
68) 1,3,5-trimethylbenzene	14.64	105	5643979	190.87 ug/L	96
70) 1,1,2,2-tetrachloroethane	14.26	83	1944958	174.92 ug/L	96
71) tert-butylbenzene	15.18	119	4721709	194.16 ug/L	94
72) sec-butylbenzene	15.53	105	7392847	179.70 ug/L	98
73) 1,2,4-trimethylbenzene	15.27	105	5839450	190.51 ug/L	95
74) 1,3-dichlorobenzene	15.74	146	2809008	183.81 ug/L	97
75) p-isopropyltoluene	15.78	119	5814814	191.70 ug/L	97
76) dicyclopentadiene	15.87	66	8448917	176.13 ug/L	98
77) 1,4-dichlorobenzene	15.89	146	2805963	181.28 ug/L	99
78) 1,2-dichlorobenzene	16.47	146	2672259	184.52 ug/L	96
79) n-butylbenzene	16.41	91	6064632	179.15 ug/L	99
80) 1,2-dibromo-3-chloropropan	17.63	75	429045	203.42 ug/L	97
81) 1,2,4-trichlorobenzene	18.61	180	2159230	184.26 ug/L	97
82) hexachlorobutadiene	18.78	225	1239129	222.52 ug/L	97
83) naphthalene	18.90	128	4744066	173.27 ug/L	100
84) 1,2,3-trichlorobenzene	19.17	180	1955706	179.60 ug/L	99
85) 2-methylnaphthalene	20.12	142	2461091	161.53 ug/L	100

(#) = qualifier out of range (m) = manual integration

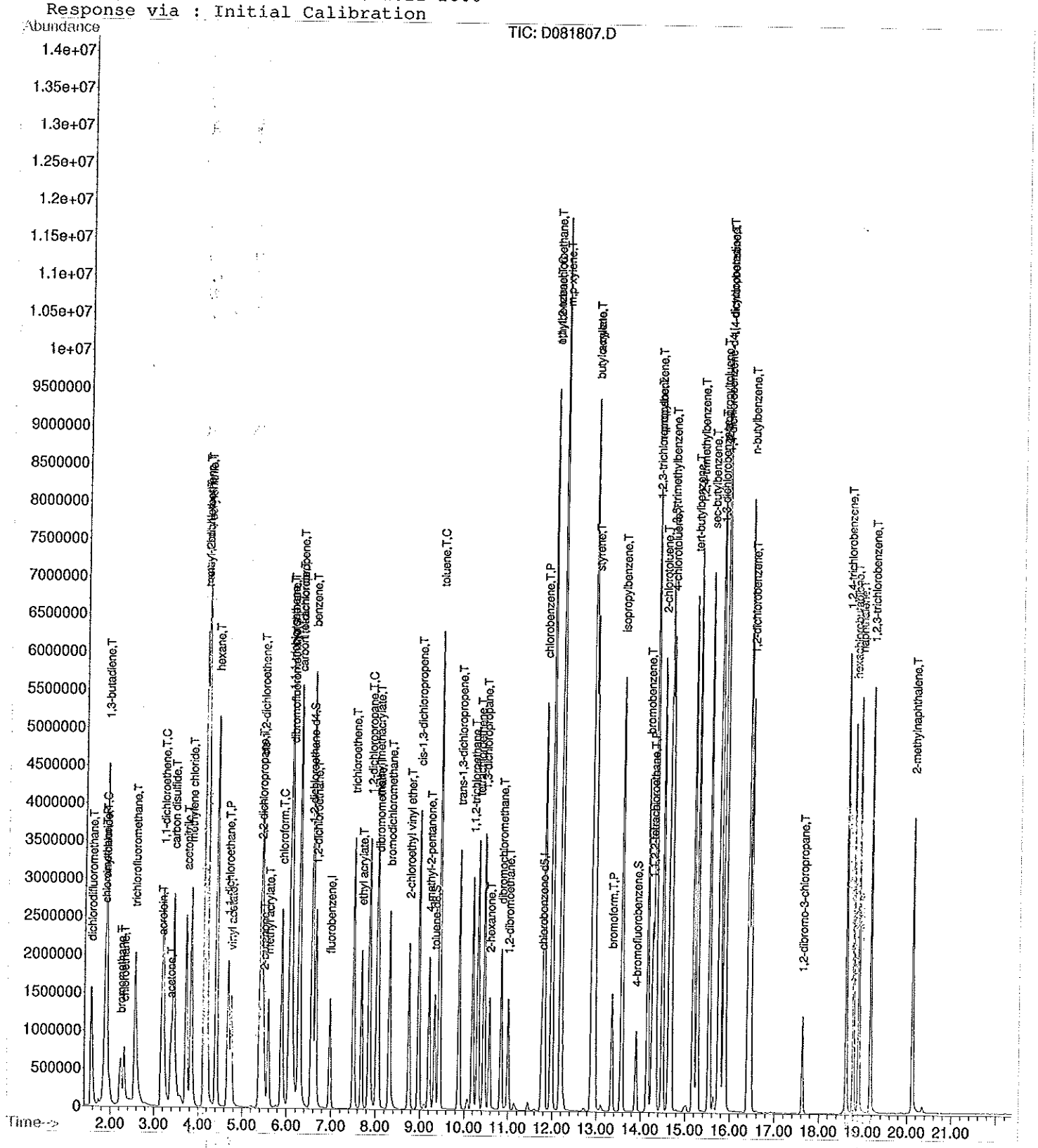
Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081807.D
Acq On : 18 Aug 2008 3:30 pm
Sample : ,ICAL,ICAL 200PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:17 2008

Vial: 7
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



CONTINUING CALIBRATION RAW DATA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092508\C092502.D Vial: 2
Acq On : 25 Sep 2008 7:54 am Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	97	-0.01
2	T	dichlorodifluoromethane	0.494	0.287	41.9#	57	0.00
3	T,P	chloromethane	0.405	0.375	7.4	86	0.00
4	T	1,3-butadiene	0.201	0.204	-1.5	107	0.00
5	T,C	vinyl chloride	0.329	0.291	11.6	92	0.00
6	T	bromomethane	0.055	0.047	14.5	111	0.00
7	T	chloroethane	0.078	0.077	1.3	101	0.00
8	T	trichlorofluoromethane	0.327	0.327	0.0	98	0.00
9	T	acrolein	0.011	0.006	45.5#	54	-0.01
10	T,C	1,1-dichloroethene	0.143	0.133	7.0	90	0.00
11	T	acetone	0.062	0.052	16.1	79	-0.01
12	T	carbon disulfide	0.532	0.608	-14.3	102	-0.01
13	T	methylene chloride	0.483	0.531	-9.9	110	-0.01
14	T	acrylonitrile	0.125	0.103	17.6	84	-0.01
15	T	trans-1,2-dichloroethene	0.293	0.298	-1.7	102	-0.01
16	T	methyl-t-butyl ether	0.725	0.587	19.0	80	-0.01
17	T	acetonitrile	0.058	0.047	19.0	79	-0.01
18	T	hexane	0.597	0.446	25.3#	71	-0.01
19	T,P	1,1-dichloroethane	0.550	0.554	-0.7	98	-0.01
20	T	vinyl acetate	0.414	0.329	20.5#	78	-0.01
21	T	cis-1,2-dichloroethene	0.326	0.330	-1.2	105	-0.01
22	T	2,2-dichloropropane	0.440	0.430	2.3	94	-0.01
23	T	2-butanone	0.030	0.021	30.0#	77	-0.01
24	T	methyl acrylate	0.289	0.254	12.1	92	-0.02
25	T,C	chloroform	0.597	0.586	1.8	97	-0.01
26	S	dibromofluoromethane	0.384	0.391	-1.8	103	-0.02
27	T	1,1,1-trichloroethane	0.437	0.424	3.0	97	-0.01
28	T	cyclohexane	0.431	0.483	-12.1	112	-0.01
29	T	carbon tetrachloride	0.382	0.387	-1.3	96	-0.01
30	S	1,2-dichloroethane-d4	0.358	0.307	14.2	85	-0.01
31	T	benzene	1.057	1.035	2.1	95	-0.02
32	T	1,1-dichloropropene	0.417	0.425	-1.9	97	-0.01
33	T	1,2-dichloroethane	0.439	0.383	12.8	88	-0.02
34	T	trichloroethene	0.288	0.296	-2.8	101	-0.02
35	T	ethyl acrylate	0.384	0.377	1.8	88	-0.01
36	T,C	1,2-dichloropropane	0.308	0.295	4.2	96	-0.02
37	T	methyl methacrylate	0.257	0.233	9.3	85	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092508\C092502.D Vial: 2
Acq On : 25 Sep 2008 7:54 am Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	dibromomethane	0.245	0.223	9.0	91	-0.02
39	T	bromodichloromethane	0.490	0.457	6.7	92	-0.02
40	T	2-chloroethyl vinyl ether	0.120	0.082	31.7#	66	-0.01
41	I	chlorobenzene-d5	1.000	1.000	0.0	99	-0.01
42	T	cis-1,3-dichloropropene	0.687	0.639	7.0	95	-0.02
43	T	4-methyl-2-pentanone	0.451	0.348	22.8#	77	-0.01
44	S	toluene-d8	1.190	1.212	-1.8	100	-0.01
45	T,C	toluene	0.777	0.826	-6.3	102	-0.02
46	T	1,1,2-trichloroethane	0.324	0.286	11.7	90	-0.02
47	T	1,3-dichloropropane	0.624	0.562	9.9	94	-0.02
48	T	tetrachloroethene	0.255	0.294	-15.3	108	-0.02
49	T	trans-1,3-dichloropropene	0.594	0.515	13.3	90	-0.02
50	T	2-hexanone	0.297	0.239	19.5	74	-0.01
51	T	dibromochloromethane	0.507	0.476	6.1	95	-0.02
52	T	1,2-dibromoethane	0.439	0.408	7.1	94	-0.02
53	T,P	chlorobenzene	0.934	0.991	-6.1	103	-0.02
54	T	1,1,1,2-tetrachloroethane	0.355	0.356	-0.3	96	-0.02
55	T,C	ethylbenzene	1.539	1.620	-5.3	99	-0.02
56	T	m,p-xylene	0.524	0.586	-11.8	107	-0.01
57	T	butyl acrylate	0.829	0.867	-4.6	92	-0.02
58	T	o-xylene	0.508	0.569	-12.0	106	-0.02
59	T	styrene	0.944	1.012	-7.2	105	-0.02
60	T	isopropylbenzene	1.221	1.347	-10.3	106	-0.01
61	T	bromobenzene	0.390	0.428	-9.7	107	-0.01
62	T,P	bromoform	0.309	0.316	-2.3	100	-0.01
63	S	4-bromofluorobenzene	0.524	0.537	-2.5	99	-0.02
64	T	1,2,3-trichloropropane	0.377	0.320	15.1	83	-0.03
65	T	n-propylbenzene	1.830	1.950	-6.6	100	-0.02
66	T	2-chlorotoluene	1.110	1.129	-1.7	97	-0.02
67	T	4-chlorotoluene	1.244	1.290	-3.7	99	-0.01
68	T	1,3,5-trimethylbenzene	1.098	1.180	-7.5	102	-0.02
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	-0.01
70	T,P	1,1,2,2-tetrachloroethane	1.203	1.109	7.8	91	-0.01
71	T	tert-butylbenzene	1.987	2.074	-4.4	99	-0.01
72	T	sec-butylbenzene	3.333	3.573	-7.2	100	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092508\C092502.D Vial: 2
Acq On : 25 Sep 2008 7:54 am Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
73	T	1,2,4-trimethylbenzene	2.507	2.675	-6.7	101	-0.02
74	T	1,3-dichlorobenzene	1.465	1.569	-7.1	103	-0.02
75	T	p-isopropyltoluene	2.410	2.590	-7.5	101	-0.01
76	T	dicyclopentadiene	3.639	4.323	-18.8	114	-0.01
77	T	1,4-dichlorobenzene	1.464	1.588	-8.5	105	-0.02
78	T	1,2-dichlorobenzene	1.379	1.516	-9.9	104	-0.02
79	T	n-butylbenzene	2.787	2.814	-1.0	93	-0.01
80	T	1,2-dibromo-3-chloropropane	0.212	0.153	27.8#	72	-0.01
81	T	1,2,4-trichlorobenzene	0.874	0.914	-4.6	99	-0.01
82	T	hexachlorobutadiene	0.401	0.426	-6.2	93	-0.02
83	T	naphthalene	2.118	1.514	28.5#	70	-0.01
84	T	1,2,3-trichlorobenzene	0.818	0.814	0.5	93	-0.01
85	T	2-Methylnaphthalene	0.630	0.455	27.8#	76	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092502.D Vial: 2
Acq On : 25 Sep 2008 7:54 am Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 8:27 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	2047814	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.38	117	1555172	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.19	152	698486	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	6.12	113	801281	50.88 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.55	65	628529	42.83 ug/L	-0.01
44) toluene-d8	9.14	98	1884915	50.93 ug/L	-0.01
63) 4-bromofluorobenzene	13.34	95	835114	51.22 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	588257	29.06 ug/L	98
3) chloromethane	1.88	50	768598	46.39 ug/L	97
4) 1,3-butadiene	2.02	39	418198	50.77 ug/L	94
5) vinyl chloride	1.99	62	595677	44.25 ug/L	91
6) bromomethane	2.34	94	95421	42.00 ug/L	95
7) chloroethane	2.46	64	157188	49.22 ug/L	89
8) trichlorofluoromethane	2.74	101	668983	49.97 ug/L	99
9) acrolein	3.30	56	115347	262.48 ug/L	77
10) 1,1-dichloroethene	3.35	96	272357	46.58 ug/L #	82
11) acetone	3.48	43	105765	41.83 ug/L	85
12) carbon disulfide	3.58	76	1244926	57.14 ug/L	98
13) methylene chloride	3.96	84	1088378	54.99 ug/L	92
14) acrylonitrile	4.31	53	2112563	413.51 ug/L	98
15) trans-1,2-dichloroethene	4.25	96	609615	50.74 ug/L	97
16) methyl-t-butyl ether	4.24	73	1201178	40.45 ug/L	97
17) acetonitrile	3.85	41	971085	411.56 ug/L	98
18) hexane	4.51	57	912390	37.31 ug/L	98
19) 1,1-dichloroethane	4.77	63	1133965	50.35 ug/L	97
20) vinyl acetate	4.84	43	673195	39.72 ug/L	96
21) cis-1,2-dichloroethene	5.50	96	674896	50.51 ug/L #	80
22) 2,2-dichloropropane	5.45	77	879693	48.81 ug/L	97
23) 2-butanone	5.56	72	42619	34.76 ug/L #	69
24) methyl acrylate	5.64	55	520395	43.99 ug/L	96
25) chloroform	5.92	83	1199291	49.01 ug/L	98
27) 1,1,1-trichloroethane	6.07	97	868231	48.56 ug/L	97
28) cyclohexane	6.09	56	989070	56.02 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092502.D Vial: 2
Acq On : 25 Sep 2008 7:54 am Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 8:27 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.27	117	793468	50.73 ug/L	98
31) benzene	6.56	78	2119101	48.94 ug/L	97
32) 1,1-dichloropropene	6.28	75	870925	50.98 ug/L	95
33) 1,2-dichloroethane	6.65	62	783392	43.61 ug/L	98
34) trichloroethene	7.42	95	606402	51.37 ug/L	89
35) ethyl acrylate	7.61	55	771313	48.98 ug/L	96
36) 1,2-dichloropropane	7.76	63	604617	47.98 ug/L	99
37) methyl methacrylate	7.93	41	477090	45.34 ug/L	91
38) dibromomethane	7.95	93	456422	45.40 ug/L	99
39) bromodichloromethane	8.18	83	936020	46.60 ug/L	100
40) 2-chloroethyl vinyl ether	8.60	63	166977	34.09 ug/L	97
42) cis-1,3-dichloropropene	8.79	75	994236	46.51 ug/L	94
43) 4-methyl-2-pentanone	9.03	43	541675	38.63 ug/L #	99
45) toluene	9.22	92	1284432	53.17 ug/L	92
46) 1,1,2-trichloroethane	9.92	83	444319	44.14 ug/L	97
47) 1,3-dichloropropane	10.17	76	873831	44.99 ug/L	91
48) tetrachloroethene	10.03	164	456750	57.60 ug/L	95
49) trans-1,3-dichloropropene	9.65	75	800968	43.38 ug/L	97
50) 2-hexanone	10.30	43	371836	40.29 ug/L	85
51) dibromochloromethane	10.52	129	740316	46.98 ug/L	94
52) 1,2-dibromoethane	10.67	107	634217	46.41 ug/L	90
53) chlorobenzene	11.42	112	1540527	53.05 ug/L	92
54) 1,1,1,2-tetrachloroethane	11.58	131	552893	50.02 ug/L	90
55) ethylbenzene	11.58	91	2518760	52.62 ug/L	99
56) m,p-xylene	11.78	106	1823231	111.83 ug/L	96
57) butyl acrylate	12.43	55	1348167	52.29 ug/L	98
58) o-xylene	12.43	106	884412	56.01 ug/L	93
59) styrene	12.47	104	1573726	53.58 ug/L	95
60) isopropylbenzene	13.05	105	2094596	55.15 ug/L	98
61) bromobenzene	13.58	156	665226	54.87 ug/L	89
62) bromoform	12.84	173	491390	51.18 ug/L	92
64) 1,2,3-trichloropropane	13.72	75	498365	42.48 ug/L	100
65) n-propylbenzene	13.74	91	3033307	53.28 ug/L	99
66) 2-chlorotoluene	13.89	91	1756042	50.84 ug/L	99
67) 4-chlorotoluene	14.09	91	2006484	51.86 ug/L	97
68) 1,3,5-trimethylbenzene	14.05	105	1835435	53.73 ug/L	99
70) 1,1,2,2-tetrachloroethane	13.70	83	774484	46.08 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092502.D Vial: 2
Acq On : 25 Sep 2008 7:54 am Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 8:27 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

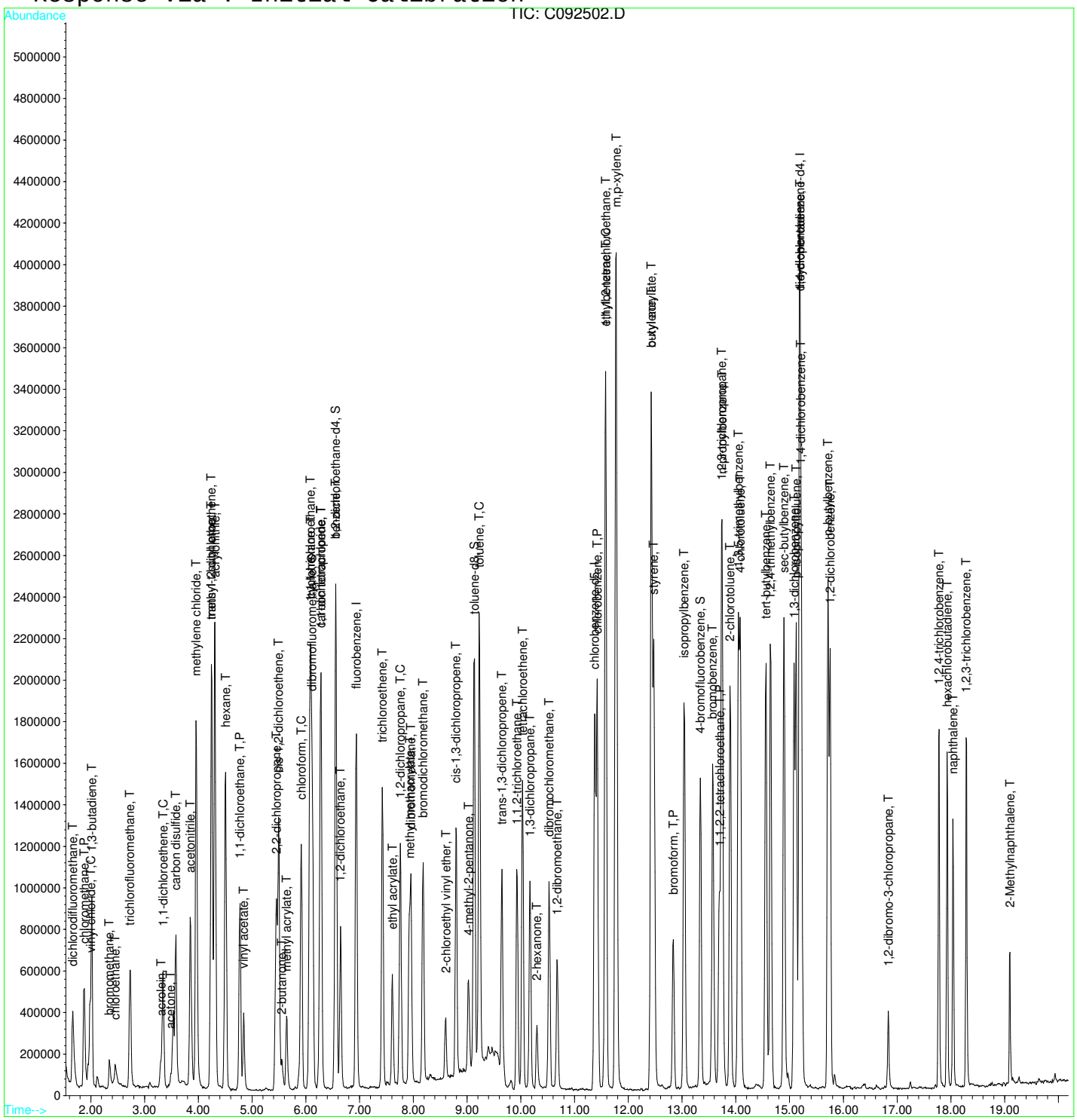
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.56	119	1448904	52.21 ug/L	92
72)	sec-butylbenzene	14.90	105	2495429	53.59 ug/L	98
73)	1,2,4-trimethylbenzene	14.64	105	1868527	53.35 ug/L	100
74)	1,3-dichlorobenzene	15.08	146	1096255	53.56 ug/L	99
75)	p-isopropyltoluene	15.12	119	1808985	53.72 ug/L	98
76)	dicyclopentadiene	15.19	66	3019375	59.39 ug/L	98
77)	1,4-dichlorobenzene	15.22	146	1109105	54.24 ug/L	96
78)	1,2-dichlorobenzene	15.75	146	1058741	54.94 ug/L	98
79)	n-butylbenzene	15.71	91	1965635	50.49 ug/L	95
80)	1,2-dibromo-3-chloropropan	16.84	75	106707	36.04 ug/L #	70
81)	1,2,4-trichlorobenzene	17.78	180	638657	52.29 ug/L	97
82)	hexachlorobutadiene	17.93	225	297285	53.03 ug/L	94
83)	naphthalene	18.04	128	1057571	35.74 ug/L	100
84)	1,2,3-trichlorobenzene	18.29	180	568585	49.78 ug/L	94
85)	2-Methylnaphthalene	19.10	142	317781	36.11 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092502.D Vial: 2
Acq On : 25 Sep 2008 7:54 am Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 8:27 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092508\C092515.D Vial: 15
Acq On : 25 Sep 2008 2:53 pm Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	83	0.00
2	T	dichlorodifluoromethane	0.494	0.267	46.0#	46#	0.00
3	T,P	chloromethane	0.405	0.381	5.9	74	0.00
4	T	1,3-butadiene	0.201	0.178	11.4	80	0.00
5	T,C	vinyl chloride	0.329	0.287	12.8	78	0.00
6	T	bromomethane	0.055	0.056	-1.8	113	0.00
7	T	chloroethane	0.078	0.084	-7.7	95	0.00
8	T	trichlorofluoromethane	0.327	0.323	1.2	83	0.00
9	T	acrolein	0.011	0.006	45.5#	46#	0.00
10	T,C	1,1-dichloroethene	0.143	0.127	11.2	73	0.00
11	T	acetone	0.062	0.048	22.6#	64	0.00
12	T	carbon disulfide	0.532	0.483	9.2	69	0.00
13	T	methylene chloride	0.483	0.494	-2.3	88	0.00
14	T	acrylonitrile	0.125	0.105	16.0	73	-0.02
15	T	trans-1,2-dichloroethene	0.293	0.292	0.3	85	0.00
16	T	methyl-t-butyl ether	0.725	0.632	12.8	74	0.00
17	T	acetonitrile	0.058	0.046	20.7#	66	0.00
18	T	hexane	0.597	0.393	34.2#	53	0.00
19	T,P	1,1-dichloroethane	0.550	0.575	-4.5	87	0.00
20	T	vinyl acetate	0.414	0.358	13.5	72	0.00
21	T	cis-1,2-dichloroethene	0.326	0.337	-3.4	92	-0.02
22	T	2,2-dichloropropane	0.440	0.467	-6.1	87	0.00
23	T	2-butanone	0.030	0.022	26.7#	70	-0.02
24	T	methyl acrylate	0.289	0.262	9.3	81	-0.02
25	T,C	chloroform	0.597	0.623	-4.4	89	0.00
26	S	dibromofluoromethane	0.384	0.422	-9.9	95	-0.02
27	T	1,1,1-trichloroethane	0.437	0.449	-2.7	88	0.00
28	T	cyclohexane	0.431	0.425	1.4	85	0.00
29	T	carbon tetrachloride	0.382	0.409	-7.1	87	0.00
30	S	1,2-dichloroethane-d4	0.358	0.360	-0.6	86	0.00
31	T	benzene	1.057	1.033	2.3	82	0.00
32	T	1,1-dichloropropene	0.417	0.426	-2.2	84	0.00
33	T	1,2-dichloroethane	0.439	0.435	0.9	86	-0.02
34	T	trichloroethene	0.288	0.308	-6.9	90	-0.02
35	T	ethyl acrylate	0.384	0.391	-1.8	78	0.00
36	T,C	1,2-dichloropropane	0.308	0.313	-1.6	87	-0.02
37	T	methyl methacrylate	0.257	0.249	3.1	78	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092508\C092515.D Vial: 15
Acq On : 25 Sep 2008 2:53 pm Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	dibromomethane	0.245	0.239	2.4	84	-0.02
39	T	bromodichloromethane	0.490	0.506	-3.3	87	-0.02
40	T	2-chloroethyl vinyl ether	0.120	0.098	18.3	68	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	88	0.00
42	T	cis-1,3-dichloropropene	0.687	0.658	4.2	87	0.00
43	T	4-methyl-2-pentanone	0.451	0.370	18.0	73	0.00
44	S	toluene-d8	1.190	1.200	-0.8	88	0.00
45	T,C	toluene	0.777	0.768	1.2	84	0.00
46	T	1,1,2-trichloroethane	0.324	0.295	9.0	83	0.00
47	T	1,3-dichloropropane	0.624	0.578	7.4	86	-0.02
48	T	tetrachloroethene	0.255	0.286	-12.2	93	-0.02
49	T	trans-1,3-dichloropropene	0.594	0.549	7.6	85	-0.02
50	T	2-hexanone	0.297	0.235	20.9#	65	0.00
51	T	dibromochloromethane	0.507	0.510	-0.6	90	0.00
52	T	1,2-dibromoethane	0.439	0.425	3.2	87	0.00
53	T,P	chlorobenzene	0.934	0.991	-6.1	91	-0.02
54	T	1,1,1,2-tetrachloroethane	0.355	0.383	-7.9	92	-0.02
55	T,C	ethylbenzene	1.539	1.614	-4.9	88	-0.02
56	T	m,p-xylene	0.524	0.555	-5.9	90	0.00
57	T	butyl acrylate	0.829	0.828	0.1	78	0.00
58	T	o-xylene	0.508	0.545	-7.3	91	0.00
59	T	styrene	0.944	0.981	-3.9	90	-0.02
60	T	isopropylbenzene	1.221	1.314	-7.6	92	0.00
61	T	bromobenzene	0.390	0.434	-11.3	96	0.00
62	T,P	bromoform	0.309	0.314	-1.6	89	0.00
63	S	4-bromofluorobenzene	0.524	0.542	-3.4	88	-0.02
64	T	1,2,3-trichloropropane	0.377	0.344	8.8	79	-0.02
65	T	n-propylbenzene	1.830	1.901	-3.9	87	-0.02
66	T	2-chlorotoluene	1.110	1.157	-4.2	88	0.00
67	T	4-chlorotoluene	1.244	1.301	-4.6	89	0.00
68	T	1,3,5-trimethylbenzene	1.098	1.160	-5.6	89	-0.02
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
70	T,P	1,1,2,2-tetrachloroethane	1.203	1.130	6.1	84	0.00
71	T	tert-butylbenzene	1.987	1.925	3.1	83	0.00
72	T	sec-butylbenzene	3.333	3.206	3.8	82	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092508\C092515.D Vial: 15
Acq On : 25 Sep 2008 2:53 pm Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
73	T	1,2,4-trimethylbenzene	2.507	2.608	-4.0	89	0.00
74	T	1,3-dichlorobenzene	1.465	1.563	-6.7	93	-0.02
75	T	p-isopropyltoluene	2.410	2.323	3.6	82	0.00
76	T	dicyclopentadiene	3.639	4.237	-16.4	102	0.00
77	T	1,4-dichlorobenzene	1.464	1.551	-5.9	93	-0.02
78	T	1,2-dichlorobenzene	1.379	1.444	-4.7	90	-0.02
79	T	n-butylbenzene	2.787	2.331	16.4	70	0.00
80	T	1,2-dibromo-3-chloropropane	0.212	0.161	24.1#	69	0.00
81	T	1,2,4-trichlorobenzene	0.874	0.773	11.6	76	0.00
82	T	hexachlorobutadiene	0.401	0.369	8.0	73	0.00
83	T	naphthalene	2.118	1.193	43.7#	50	0.00
84	T	1,2,3-trichlorobenzene	0.818	0.695	15.0	72	0.00
85	T	2-Methylnaphthalene	0.630	0.313	50.3#	48#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092515.D Vial: 15
Acq On : 25 Sep 2008 2:53 pm Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 15:14 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1754879	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1383347	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	634484	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	739956	54.83 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.55	65	632049	50.26 ug/L	0.00
44) toluene-d8	9.14	98	1659395	50.40 ug/L	0.00
63) 4-bromofluorobenzene	13.34	95	749323	51.66 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.67	85	468863	27.03 ug/L	91
3) chloromethane	1.87	50	668301	47.07 ug/L	99
4) 1,3-butadiene	2.01	39	312166	44.23 ug/L	96
5) vinyl chloride	1.98	62	503800	43.67 ug/L	88
6) bromomethane	2.35	94	97745	50.20 ug/L	98
7) chloroethane	2.45	64	147667	53.96 ug/L	91
8) trichlorofluoromethane	2.74	101	567654	49.48 ug/L	96
9) acrolein	3.30	56	98761	262.25 ug/L	93
10) 1,1-dichloroethene	3.35	96	222354	44.38 ug/L	98
11) acetone	3.50	43	84950	39.21 ug/L	84
12) carbon disulfide	3.59	76	847701	45.41 ug/L	97
13) methylene chloride	3.96	84	867522	51.14 ug/L	97
14) acrylonitrile	4.31	53	1835198	419.19 ug/L	97
15) trans-1,2-dichloroethene	4.26	96	512115	49.74 ug/L	98
16) methyl-t-butyl ether	4.25	73	1108207	43.55 ug/L	97
17) acetonitrile	3.85	41	813595	402.37 ug/L	99
18) hexane	4.51	57	689165	32.88 ug/L	98
19) 1,1-dichloroethane	4.78	63	1009551	52.31 ug/L	98
20) vinyl acetate	4.85	43	628142	43.25 ug/L	100
21) cis-1,2-dichloroethene	5.50	96	590860	51.60 ug/L	95
22) 2,2-dichloropropane	5.46	77	818794	53.02 ug/L	95
23) 2-butanone	5.56	72	38930	37.05 ug/L #	83
24) methyl acrylate	5.64	55	459269	45.31 ug/L	95
25) chloroform	5.92	83	1093395	52.14 ug/L	99
27) 1,1,1-trichloroethane	6.08	97	787526	51.40 ug/L	99
28) cyclohexane	6.10	56	746468	49.34 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092515.D Vial: 15
Acq On : 25 Sep 2008 2:53 pm Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 15:14 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.27	117	718230	53.58 ug/L	94
31) benzene	6.57	78	1812747	48.86 ug/L	97
32) 1,1-dichloropropene	6.29	75	747633	51.06 ug/L	96
33) 1,2-dichloroethane	6.65	62	763573	49.60 ug/L	99
34) trichloroethene	7.43	95	540470	53.43 ug/L	96
35) ethyl acrylate	7.61	55	685479	50.80 ug/L	98
36) 1,2-dichloropropane	7.76	63	549185	50.86 ug/L	98
37) methyl methacrylate	7.93	41	437085	48.47 ug/L	95
38) dibromomethane	7.96	93	419585	48.70 ug/L	95
39) bromodichloromethane	8.19	83	888525	51.62 ug/L	99
40) 2-chloroethyl vinyl ether	8.61	63	171490	40.85 ug/L	95
42) cis-1,3-dichloropropene	8.81	75	910392	47.87 ug/L	95
43) 4-methyl-2-pentanone	9.03	43	512230	41.07 ug/L	96
45) toluene	9.24	92	1062650	49.45 ug/L	92
46) 1,1,2-trichloroethane	9.94	83	408182	45.59 ug/L	93
47) 1,3-dichloropropane	10.17	76	799258	46.27 ug/L	98
48) tetrachloroethene	10.04	164	396057	56.15 ug/L	98
49) trans-1,3-dichloropropene	9.65	75	759993	46.28 ug/L	97
50) 2-hexanone	10.30	43	325111	39.60 ug/L	99
51) dibromochloromethane	10.54	129	704864	50.28 ug/L	98
52) 1,2-dibromoethane	10.69	107	587586	48.34 ug/L #	99
53) chlorobenzene	11.42	112	1370801	53.07 ug/L	93
54) 1,1,1,2-tetrachloroethane	11.58	131	530041	53.90 ug/L	92
55) ethylbenzene	11.58	91	2233372	52.45 ug/L	98
56) m,p-xylene	11.78	106	1534296	105.79 ug/L	99
57) butyl acrylate	12.44	55	1146091	49.98 ug/L	97
58) o-xylene	12.44	106	754236	53.70 ug/L	96
59) styrene	12.48	104	1356423	51.92 ug/L	97
60) isopropylbenzene	13.05	105	1817322	53.79 ug/L	100
61) bromobenzene	13.58	156	599842	55.62 ug/L	89
62) bromoform	12.84	173	434981	50.93 ug/L	94
64) 1,2,3-trichloropropane	13.74	75	476424	45.65 ug/L	98
65) n-propylbenzene	13.75	91	2629108	51.91 ug/L	99
66) 2-chlorotoluene	13.91	91	1600688	52.10 ug/L	95
67) 4-chlorotoluene	14.09	91	1799807	52.30 ug/L	92
68) 1,3,5-trimethylbenzene	14.05	105	1604277	52.79 ug/L	99
70) 1,1,2,2-tetrachloroethane	13.70	83	716848	46.95 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092515.D Vial: 15
Acq On : 25 Sep 2008 2:53 pm Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 15:14 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

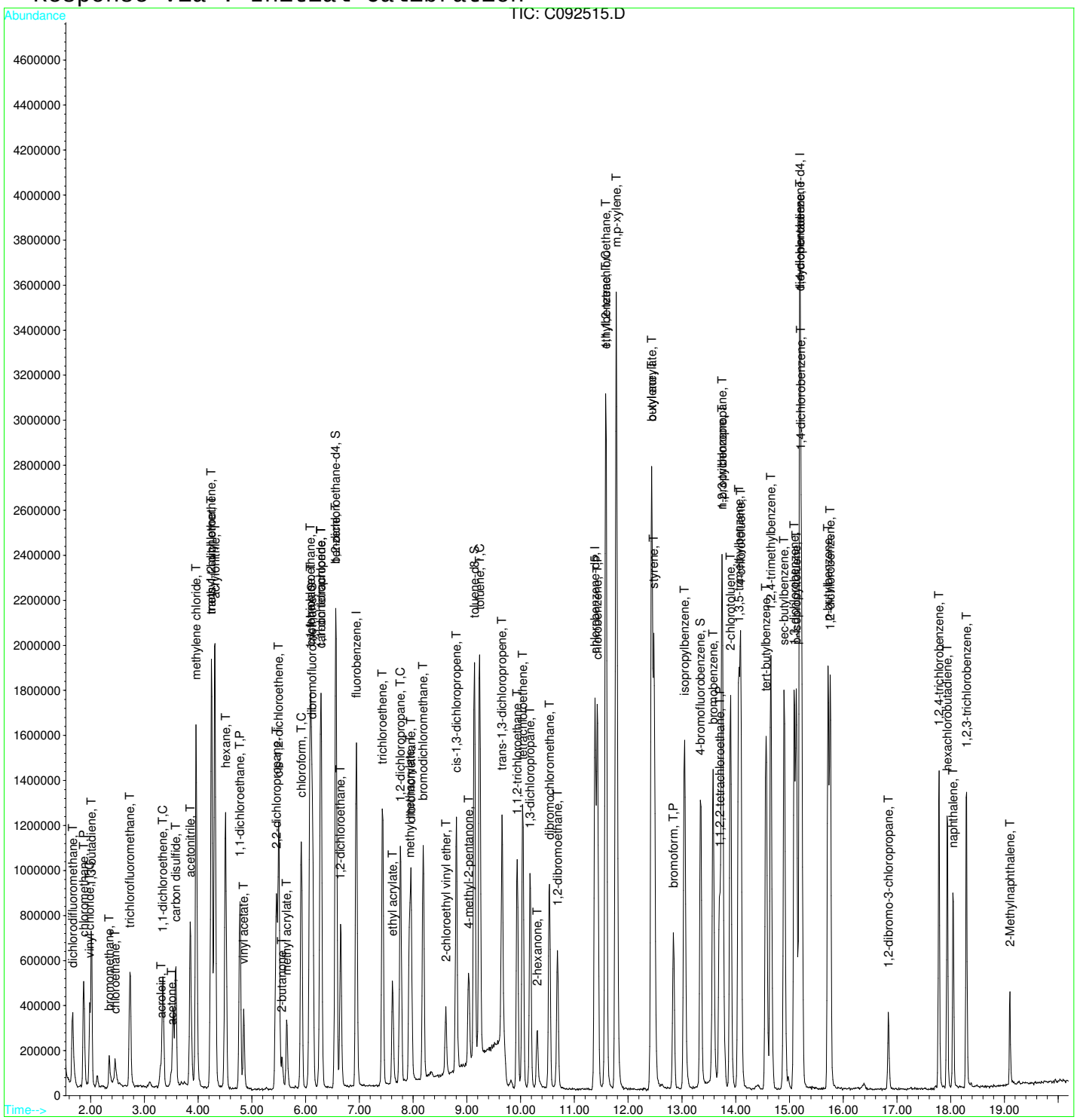
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.58	119	1221401	48.45 ug/L	86
72)	sec-butylbenzene	14.90	105	2033955	48.09 ug/L	99
73)	1,2,4-trimethylbenzene	14.65	105	1655018	52.02 ug/L	96
74)	1,3-dichlorobenzene	15.09	146	991527	53.33 ug/L	98
75)	p-isopropyltoluene	15.13	119	1473724	48.18 ug/L	97
76)	dicyclopentadiene	15.20	66	2688020	58.20 ug/L	99
77)	1,4-dichlorobenzene	15.23	146	984387	53.00 ug/L	99
78)	1,2-dichlorobenzene	15.76	146	916033	52.33 ug/L	97
79)	n-butylbenzene	15.72	91	1478668	41.82 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.84	75	102339	38.05 ug/L #	66
81)	1,2,4-trichlorobenzene	17.79	180	490420	44.20 ug/L	95
82)	hexachlorobutadiene	17.94	225	234190	45.99 ug/L	94
83)	naphthalene	18.05	128	757155	28.17 ug/L	100
84)	1,2,3-trichlorobenzene	18.30	180	440822	42.49 ug/L	97
85)	2-Methylnaphthalene	19.11	142	198498	24.83 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092515.D Vial: 15
Acq On : 25 Sep 2008 2:53 pm Operator: MT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 15:14 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092608\C092602.D Vial: 2
Acq On : 26 Sep 2008 6:45 am Operator: NLT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	89	-0.01
2	T	dichlorodifluoromethane	0.494	0.287	41.9#	52	0.00
3	T,P	chloromethane	0.405	0.383	5.4	80	0.00
4	T	1,3-butadiene	0.201	0.202	-0.5	97	0.00
5	T,C	vinyl chloride	0.329	0.292	11.2	85	0.00
6	T	bromomethane	0.055	0.058	-5.5	125	0.00
7	T	chloroethane	0.078	0.093	-19.2	112	0.00
8	T	trichlorofluoromethane	0.327	0.365	-11.6	100	0.00
9	T	acrolein	0.011	0.006	45.5#	56	0.00
10	T,C	1,1-dichloroethene	0.143	0.139	2.8	85	0.00
11	T	acetone	0.062	0.062	0.0	86	0.00
12	T	carbon disulfide	0.532	0.500	6.0	76	0.00
13	T	methylene chloride	0.483	0.545	-12.8	103	0.00
14	T	acrylonitrile	0.125	0.129	-3.2	96	-0.01
15	T	trans-1,2-dichloroethene	0.293	0.331	-13.0	103	-0.01
16	T	methyl-t-butyl ether	0.725	0.674	7.0	84	-0.01
17	T	acetonitrile	0.058	0.054	6.9	83	0.00
18	T	hexane	0.597	0.477	20.1#	69	-0.01
19	T,P	1,1-dichloroethane	0.550	0.623	-13.3	100	0.00
20	T	vinyl acetate	0.414	0.387	6.5	84	0.00
21	T	cis-1,2-dichloroethene	0.326	0.362	-11.0	106	-0.01
22	T	2,2-dichloropropane	0.440	0.502	-14.1	100	-0.01
23	T	2-butanone	0.030	0.025	16.7	84	-0.01
24	T	methyl acrylate	0.289	0.280	3.1	92	-0.01
25	T,C	chloroform	0.597	0.666	-11.6	101	-0.01
26	S	dibromofluoromethane	0.384	0.416	-8.3	100	-0.01
27	T	1,1,1-trichloroethane	0.437	0.487	-11.4	102	0.00
28	T	cyclohexane	0.431	0.507	-17.6	107	0.00
29	T	carbon tetrachloride	0.382	0.441	-15.4	100	-0.01
30	S	1,2-dichloroethane-d4	0.358	0.354	1.1	90	0.00
31	T	benzene	1.057	1.149	-8.7	97	-0.01
32	T	1,1-dichloropropene	0.417	0.462	-10.8	97	0.00
33	T	1,2-dichloroethane	0.439	0.446	-1.6	94	-0.01
34	T	trichloroethene	0.288	0.337	-17.0	105	-0.01
35	T	ethyl acrylate	0.384	0.433	-12.8	92	-0.01
36	T,C	1,2-dichloropropane	0.308	0.339	-10.1	101	-0.01
37	T	methyl methacrylate	0.257	0.260	-1.2	86	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092608\C092602.D Vial: 2
Acq On : 26 Sep 2008 6:45 am Operator: NLT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	dibromomethane	0.245	0.260	-6.1	97	-0.02
39	T	bromodichloromethane	0.490	0.534	-9.0	98	-0.02
40	T	2-chloroethyl vinyl ether	0.120	0.120	0.0	89	-0.01
41	I	chlorobenzene-d5	1.000	1.000	0.0	95	-0.01
42	T	cis-1,3-dichloropropene	0.687	0.686	0.1	98	-0.01
43	T	4-methyl-2-pentanone	0.451	0.375	16.9	80	-0.01
44	S	toluene-d8	1.190	1.198	-0.7	95	-0.01
45	T,C	toluene	0.777	0.912	-17.4	108	-0.01
46	T	1,1,2-trichloroethane	0.324	0.322	0.6	97	-0.01
47	T	1,3-dichloropropane	0.624	0.624	0.0	100	-0.02
48	T	tetrachloroethene	0.255	0.303	-18.8	107	-0.01
49	T	trans-1,3-dichloropropene	0.594	0.575	3.2	96	-0.02
50	T	2-hexanone	0.297	0.260	12.5	77	0.00
51	T	dibromochloromethane	0.507	0.528	-4.1	101	-0.01
52	T	1,2-dibromoethane	0.439	0.467	-6.4	103	-0.01
53	T,P	chlorobenzene	0.934	1.075	-15.1	107	-0.01
54	T	1,1,1,2-tetrachloroethane	0.355	0.401	-13.0	104	-0.02
55	T,C	ethylbenzene	1.539	1.762	-14.5	104	-0.02
56	T	m,p-xylene	0.524	0.607	-15.8	106	-0.01
57	T	butyl acrylate	0.829	0.920	-11.0	94	-0.01
58	T	o-xylene	0.508	0.586	-15.4	105	-0.01
59	T	styrene	0.944	1.067	-13.0	106	-0.01
60	T	isopropylbenzene	1.221	1.442	-18.1	109	-0.01
61	T	bromobenzene	0.390	0.456	-16.9	109	-0.01
62	T,P	bromoform	0.309	0.346	-12.0	105	-0.01
63	S	4-bromofluorobenzene	0.524	0.548	-4.6	96	-0.02
64	T	1,2,3-trichloropropane	0.377	0.368	2.4	91	-0.02
65	T	n-propylbenzene	1.830	2.051	-12.1	101	-0.02
66	T	2-chlorotoluene	1.110	1.228	-10.6	101	-0.01
67	T	4-chlorotoluene	1.244	1.390	-11.7	102	-0.01
68	T	1,3,5-trimethylbenzene	1.098	1.242	-13.1	103	-0.02
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	95	-0.01
70	T,P	1,1,2,2-tetrachloroethane	1.203	1.212	-0.7	98	-0.01
71	T	tert-butylbenzene	1.987	2.012	-1.3	95	-0.01
72	T	sec-butylbenzene	3.333	3.349	-0.5	93	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\3\DATA\C092608\C092602.D Vial: 2
Acq On : 26 Sep 2008 6:45 am Operator: NLT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
73	T	1,2,4-trimethylbenzene	2.507	2.690	-7.3	100	-0.01
74	T	1,3-dichlorobenzene	1.465	1.658	-13.2	108	-0.02
75	T	p-isopropyltoluene	2.410	2.400	0.4	92	-0.01
76	T	dicyclopentadiene	3.639	4.422	-21.5#	115	-0.01
77	T	1,4-dichlorobenzene	1.464	1.651	-12.8	108	-0.02
78	T	1,2-dichlorobenzene	1.379	1.588	-15.2	108	-0.02
79	T	n-butylbenzene	2.787	2.492	10.6	81	-0.01
80	T	1,2-dibromo-3-chloropropane	0.212	0.178	16.0	83	-0.01
81	T	1,2,4-trichlorobenzene	0.874	0.821	6.1	88	-0.01
82	T	hexachlorobutadiene	0.401	0.332	17.2	72	-0.01
83	T	naphthalene	2.118	1.387	34.5#	64	0.00
84	T	1,2,3-trichlorobenzene	0.818	0.714	12.7	80	-0.01
85	T	2-Methylnaphthalene	0.630	0.353	44.0#	58	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092602.D Vial: 2
Acq On : 26 Sep 2008 6:45 am Operator: NLT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 7:05 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1868608	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.38	117	1491942	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.19	152	689918	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	778134	54.15 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	661668	49.42 ug/L	0.00
44) toluene-d8	9.14	98	1787581	50.35 ug/L	-0.01
63) 4-bromofluorobenzene	13.34	95	817837	52.28 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.66	85	536316	29.04 ug/L	96
3) chloromethane	1.88	50	715347	47.32 ug/L	97
4) 1,3-butadiene	2.02	39	378387	50.35 ug/L	97
5) vinyl chloride	1.99	62	546302	44.47 ug/L	95
6) bromomethane	2.35	94	107982	52.08 ug/L	96
7) chloroethane	2.46	64	173963	59.70 ug/L	90
8) trichlorofluoromethane	2.74	101	681669	55.80 ug/L	93
9) acrolein	3.31	56	120659	300.90 ug/L	90
10) 1,1-dichloroethene	3.35	96	258995	48.54 ug/L	99
11) acetone	3.49	43	115179	49.92 ug/L	92
12) carbon disulfide	3.59	76	933682	46.97 ug/L	95
13) methylene chloride	3.97	84	1018027	56.36 ug/L	92
14) acrylonitrile	4.31	53	2410146	517.01 ug/L	95
15) trans-1,2-dichloroethene	4.25	96	618249	56.40 ug/L	94
16) methyl-t-butyl ether	4.24	73	1260211	46.51 ug/L	100
17) acetonitrile	3.86	41	1016816	472.27 ug/L	98
18) hexane	4.51	57	891038	39.93 ug/L	96
19) 1,1-dichloroethane	4.78	63	1163860	56.64 ug/L	96
20) vinyl acetate	4.85	43	723969	46.82 ug/L	100
21) cis-1,2-dichloroethene	5.50	96	676364	55.47 ug/L #	86
22) 2,2-dichloropropane	5.45	77	937489	57.01 ug/L	97
23) 2-butanone	5.56	72	46305	41.38 ug/L	93
24) methyl acrylate	5.65	55	522537	48.41 ug/L	97
25) chloroform	5.92	83	1244891	55.75 ug/L	98
27) 1,1,1-trichloroethane	6.08	97	910480	55.81 ug/L	98
28) cyclohexane	6.10	56	946728	58.77 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092602.D Vial: 2
Acq On : 26 Sep 2008 6:45 am Operator: NLT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 7:05 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.27	117	823414	57.69 ug/L	95
31) benzene	6.57	78	2146291	54.32 ug/L	99
32) 1,1-dichloropropene	6.29	75	864148	55.43 ug/L #	92
33) 1,2-dichloroethane	6.65	62	832782	50.80 ug/L	98
34) trichloroethene	7.43	95	630639	58.55 ug/L	98
35) ethyl acrylate	7.61	55	808550	56.27 ug/L	97
36) 1,2-dichloropropane	7.77	63	632866	55.04 ug/L	93
37) methyl methacrylate	7.93	41	484968	50.51 ug/L	89
38) dibromomethane	7.95	93	486065	52.98 ug/L	90
39) bromodichloromethane	8.18	83	997782	54.44 ug/L	94
40) 2-chloroethyl vinyl ether	8.60	63	223966	50.10 ug/L	96
42) cis-1,3-dichloropropene	8.80	75	1023981	49.93 ug/L	98
43) 4-methyl-2-pentanone	9.03	43	560092	41.64 ug/L	98
45) toluene	9.23	92	1359969	58.68 ug/L	94
46) 1,1,2-trichloroethane	9.93	83	480073	49.72 ug/L	94
47) 1,3-dichloropropane	10.17	76	931083	49.97 ug/L	93
48) tetrachloroethene	10.04	164	452322	59.46 ug/L	95
49) trans-1,3-dichloropropene	9.65	75	858194	48.45 ug/L	94
50) 2-hexanone	10.31	43	387997	43.82 ug/L	85
51) dibromochloromethane	10.53	129	787004	52.06 ug/L	98
52) 1,2-dibromoethane	10.68	107	696504	53.13 ug/L #	95
53) chlorobenzene	11.43	112	1603321	57.55 ug/L	93
54) 1,1,1,2-tetrachloroethane	11.58	131	598402	56.43 ug/L	90
55) ethylbenzene	11.58	91	2628847	57.25 ug/L	95
56) m,p-xylene	11.78	106	1810847	115.77 ug/L	91
57) butyl acrylate	12.43	55	1372838	55.51 ug/L	98
58) o-xylene	12.43	106	873903	57.69 ug/L	97
59) styrene	12.48	104	1592307	56.51 ug/L	92
60) isopropylbenzene	13.05	105	2151610	59.05 ug/L	98
61) bromobenzene	13.58	156	680624	58.52 ug/L	93
62) bromoform	12.84	173	516692	56.10 ug/L	93
64) 1,2,3-trichloropropane	13.73	75	549140	48.79 ug/L	98
65) n-propylbenzene	13.74	91	3060520	56.03 ug/L	99
66) 2-chlorotoluene	13.90	91	1832750	55.31 ug/L	97
67) 4-chlorotoluene	14.09	91	2074419	55.89 ug/L	93
68) 1,3,5-trimethylbenzene	14.05	105	1853037	56.54 ug/L	98
70) 1,1,2,2-tetrachloroethane	13.70	83	836316	50.37 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092602.D Vial: 2
Acq On : 26 Sep 2008 6:45 am Operator: NLT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 7:05 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

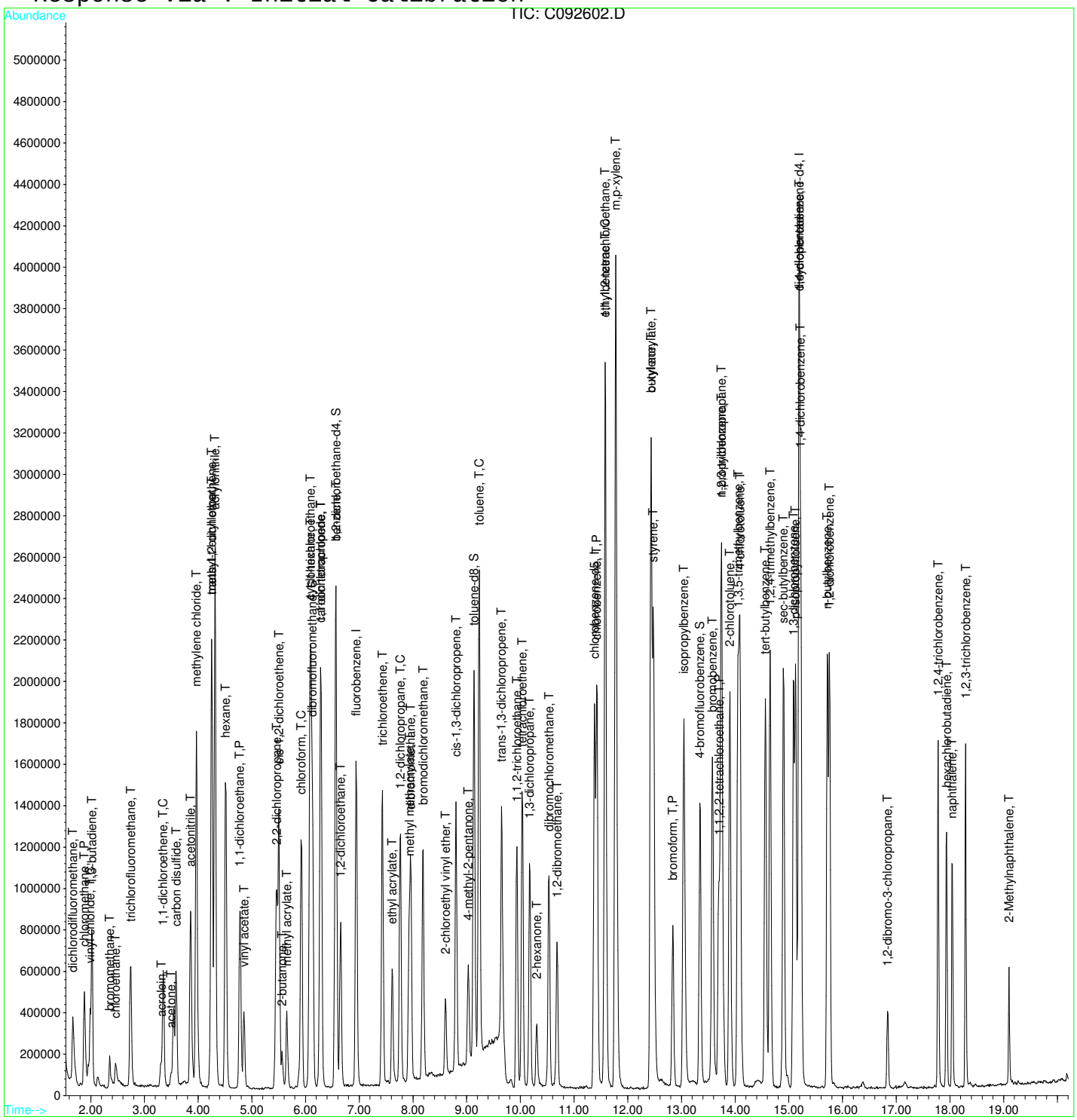
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) tert-butylbenzene	14.56	119	1388187	50.64 ug/L	92
72) sec-butylbenzene	14.90	105	2310821	50.24 ug/L	99
73) 1,2,4-trimethylbenzene	14.65	105	1856088	53.65 ug/L	98
74) 1,3-dichlorobenzene	15.08	146	1143750	56.57 ug/L	95
75) p-isopropyltoluene	15.12	119	1656082	49.79 ug/L	98
76) dicyclopentadiene	15.19	66	3051157	60.76 ug/L	98
77) 1,4-dichlorobenzene	15.22	146	1139095	56.40 ug/L	98
78) 1,2-dichlorobenzene	15.75	146	1095503	57.56 ug/L	98
79) n-butylbenzene	15.71	91	1719131	44.71 ug/L	99
80) 1,2-dibromo-3-chloropropan	16.84	75	122638	41.94 ug/L	86
81) 1,2,4-trichlorobenzene	17.78	180	566612	46.97 ug/L	96
82) hexachlorobutadiene	17.94	225	229115	41.38 ug/L	89
83) naphthalene	18.05	128	957133	32.75 ug/L	100
84) 1,2,3-trichlorobenzene	18.29	180	492926	43.69 ug/L	99
85) 2-Methylnaphthalene	19.10	142	243490	28.01 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092602.D Vial: 2
Acq On : 26 Sep 2008 6:45 am Operator: NLT
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA #3
Misc : 8260_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 7:05 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\D092608\D092602.D Vial: 2
Acq On : 26 Sep 2008 7:01 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	111	-0.02
2	T	dichlorodifluoromethane	0.389	0.210	46.0#	55	0.00
3	T,P	chloromethane	0.226	0.161	28.8#	92	0.00
4	T,C	vinyl chloride	0.370	0.373	-0.8	121	0.00
5	T	1,3-butadiene	0.397	0.384	3.3	114	0.00
6	T	bromomethane	0.116	0.109	6.0	131	0.00
7	T	chloroethane	0.196	0.181	7.7	86	-0.01
8	T	trichlorofluoromethane	0.466	0.469	-0.6	101	0.00
9	T	acrolein	0.023	0.019	17.4	98	-0.01
10	T,C	1,1-dichloroethene	0.228	0.246	-7.9	112	-0.01
11	T	acetone	0.170	0.143	15.9	108	0.00
12	T	carbon disulfide	0.882	0.815	7.6	101	-0.01
13	T	methylene chloride	0.349	0.328	6.0	124	-0.02
14	T	acrylonitrile	0.114	0.133	-16.7	142	-0.01
15	T	trans-1,2-dichloroethene	0.253	0.278	-9.9	116	-0.02
16	T	methyl-t-butyl ether	0.793	0.757	4.5	107	-0.02
17	T	acetonitrile	0.051	0.053	-3.9	138	-0.02
18	T	hexane	0.501	0.465	7.2	102	-0.01
19	T,P	1,1-dichloroethane	0.513	0.545	-6.2	113	-0.02
20	T	vinyl acetate	0.376	0.368	2.1	114	-0.02
21	T	cis-1,2-dichloroethene	0.279	0.310	-11.1	122	-0.02
22	T	2,2-dichloropropane	0.398	0.385	3.3	99	-0.02
23	T	2-butanone	0.033	0.035	-6.1	121	-0.03
24	T	methyl acrylate	0.315	0.332	-5.4	131	-0.02
25	T,C	chloroform	0.480	0.515	-7.3	115	-0.01
26	S	dibromofluoromethane	0.282	0.296	-5.0	116	-0.02
27	T	1,1,1-trichloroethane	0.405	0.410	-1.2	106	-0.02
28	T	cyclohexane	0.547	0.526	3.8	105	-0.02
29	T	carbon tetrachloride	0.302	0.306	-1.3	106	-0.02
30	S	1,2-dichloroethane-d4	0.385	0.369	4.2	109	-0.02
31	T	benzene	1.003	1.079	-7.6	119	-0.02
32	T	1,1-dichloropropene	0.391	0.408	-4.3	112	-0.01
33	T	1,2-dichloroethane	0.473	0.458	3.2	107	-0.02
34	T	trichloroethene	0.262	0.286	-9.2	115	-0.02
35	T	ethyl acrylate	0.485	0.502	-3.5	125	-0.02
36	T,C	1,2-dichloropropane	0.279	0.304	-9.0	124	-0.01
37	T	methyl methacrylate	0.376	0.366	2.7	118	-0.02
38	T	dibromomethane	0.172	0.187	-8.7	127	-0.02
39	T	bromodichloromethane	0.382	0.416	-8.9	119	-0.02
40	T	2-chloroethyl vinyl ether	0.162	0.137	15.4	96	-0.02
41	I	chlorobenzene-d5	1.000	1.000	0.0	114	-0.02
42	T	cis-1,3-dichloropropene	0.622	0.647	-4.0	116	-0.02
43	T	4-methyl-2-pentanone	0.544	0.502	7.7	118	-0.02
44	S	toluene-d8	1.297	1.276	1.6	114	-0.02
45	T,C	toluene	0.907	0.950	-4.7	118	-0.02
46	T	1,1,2-trichloroethane	0.278	0.299	-7.6	125	-0.02
47	T	1,3-dichloropropane	0.643	0.670	-4.2	120	-0.02
48	T	tetrachloroethene	0.275	0.306	-11.3	124	-0.02
49	T	trans-1,3-dichloropropene	0.499	0.495	0.8	112	-0.02
50	T	2-hexanone	0.385	0.349	9.4	115	-0.02
51	T	dibromochloromethane	0.372	0.409	-9.9	126	-0.02
52	T	1,2-dibromoethane	0.362	0.391	-8.0	129	-0.02
53	T,P	chlorobenzene	0.939	1.011	-7.7	119	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\D092608\D092602.D Vial: 2
Acq On : 26 Sep 2008 7:01 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	1,1,1,2-tetrachloroethane	0.336	0.370	-10.1	121	-0.02
55	T,C	ethylbenzene	1.736	1.805	-4.0	114	-0.02
56	T	m,p-xylene	0.630	0.667	-5.9	116	-0.02
57	T	butyl acrylate	1.112	1.103	0.8	121	-0.02
58	T	o-xylene	0.608	0.658	-8.2	119	-0.02
59	T	styrene	1.074	1.155	-7.5	118	-0.02
60	T	isopropylbenzene	1.465	1.551	-5.9	115	-0.02
61	T	bromobenzene	0.369	0.416	-12.7	127	-0.02
62	T,P	bromoform	0.240	0.281	-17.1	134	-0.03
63	S	4-bromofluorobenzene	0.579	0.558	3.6	109	-0.02
64	T	1,2,3-trichloropropane	0.406	0.398	2.0	125	-0.02
65	T	n-propylbenzene	2.035	2.089	-2.7	112	-0.02
66	T	2-chlorotoluene	1.256	1.290	-2.7	113	-0.02
67	T	4-chlorotoluene	1.440	1.452	-0.8	110	-0.02
68	T	1,3,5-trimethylbenzene	1.363	1.403	-2.9	113	-0.02
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	115	-0.02
70	T,P	1,1,2,2-tetrachloroethane	0.976	0.991	-1.5	128	-0.02
71	T	tert-butylbenzene	2.383	2.457	-3.1	114	-0.02
72	T	sec-butylbenzene	3.825	3.870	-1.2	111	-0.02
73	T	1,2,4-trimethylbenzene	2.990	3.002	-0.4	113	-0.02
74	T	1,3-dichlorobenzene	1.437	1.540	-7.2	121	-0.02
75	T	p-isopropyltoluene	2.982	3.083	-3.4	114	-0.02
76	T	dicyclopentadiene	4.473	4.331	3.2	109	-0.02
77	T	1,4-dichlorobenzene	1.481	1.555	-5.0	121	-0.02
78	T	1,2-dichlorobenzene	1.377	1.447	-5.1	120	-0.02
79	T	n-butylbenzene	3.151	3.092	1.9	108	-0.02
80	T	1,2-dibromo-3-chloropropane	0.218	0.195	10.6	122	-0.02
81	T	1,2,4-trichlorobenzene	1.128	1.190	-5.5	121	-0.02
82	T	hexachlorobutadiene	0.656	0.633	3.5	112	-0.02
83	T	naphthalene	2.561	2.576	-0.6	128	-0.01
84	T	1,2,3-trichlorobenzene	1.058	1.089	-2.9	121	-0.02
85	T	2-methylnaphthalene	1.427	1.423	0.3	138	-0.02

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092602.D Vial: 2
Acq On : 26 Sep 2008 7:01 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 7:42 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1644866	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	1153231	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.83	152	560380	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	487648	52.60 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	606375	47.82 ug/L	-0.02
44) toluene-d8	9.32	98	1471043	49.18 ug/L	-0.02
63) 4-bromofluorobenzene	13.88	95	642999	48.14 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.57	85	345681	26.99 ug/L	95
3) chloromethane	1.83	50	264221	35.50 ug/L	88
4) vinyl chloride	1.87	62	614243	50.51 ug/L	98
5) 1,3-butadiene	1.90	39	631224	48.36 ug/L	98
6) bromomethane	2.23	94	178846	43.32 ug/L	99
7) chloroethane	2.32	64	297271	46.09 ug/L	86
8) trichlorofluoromethane	2.62	101	772165	50.33 ug/L	94
9) acrolein	3.14	56	315536	411.01 ug/L	100
10) 1,1-dichloroethene	3.21	96	405092	54.01 ug/L	90
11) acetone	3.33	43	235177	41.97 ug/L	95
12) carbon disulfide	3.45	76	1340148	46.18 ug/L	98
13) methylene chloride	3.83	84	539922	46.98 ug/L	95
14) acrylonitrile	4.15	53	2191065	583.12 ug/L	98
15) trans-1,2-dichloroethene	4.13	96	456953	54.91 ug/L	97
16) methyl-t-butyl ether	4.11	73	1245847	47.77 ug/L	97
17) acetonitrile	3.68	41	865418	519.45 ug/L	98
18) hexane	4.43	57	765451	46.42 ug/L #	97
19) 1,1-dichloroethane	4.67	63	896416	53.07 ug/L	98
20) vinyl acetate	4.73	43	605168	48.89 ug/L	99
21) cis-1,2-dichloroethene	5.41	96	510280	55.68 ug/L	97
22) 2,2-dichloropropane	5.38	77	632718	48.38 ug/L	99
23) 2-butanone	5.44	72	57185	52.21 ug/L #	88
24) methyl acrylate	5.56	55	545657	52.67 ug/L #	99
25) chloroform	5.87	83	846377	53.54 ug/L	100
27) 1,1,1-trichloroethane	6.05	97	674589	50.62 ug/L	99
28) cyclohexane	6.08	56	865467	48.09 ug/L	92
29) carbon tetrachloride	6.25	117	502681	50.62 ug/L	93
31) benzene	6.56	78	1774376	53.75 ug/L	98
32) 1,1-dichloropropene	6.27	75	671231	52.20 ug/L	98
33) 1,2-dichloroethane	6.64	62	752606	48.42 ug/L	96
34) trichloroethene	7.48	95	470692	54.53 ug/L	91
35) ethyl acrylate	7.66	55	825514	51.79 ug/L	99
36) 1,2-dichloropropane	7.84	63	500611	54.57 ug/L	95
37) methyl methacrylate	7.99	41	601610	48.58 ug/L	94
38) dibromomethane	8.03	93	308297	54.58 ug/L	94
39) bromodichloromethane	8.28	83	684701	54.55 ug/L	99
40) 2-chloroethyl vinyl ether	8.73	63	225003	42.27 ug/L	99
42) cis-1,3-dichloropropene	8.94	75	746131	51.98 ug/L	95
43) 4-methyl-2-pentanone	9.18	43	578885	46.10 ug/L #	92
45) toluene	9.42	92	1095684	52.40 ug/L	98
46) 1,1,2-trichloroethane	10.17	83	344966	53.74 ug/L	92
47) 1,3-dichloropropane	10.43	76	772207	52.04 ug/L	100
48) tetrachloroethene	10.29	164	353041	55.59 ug/L	99
49) trans-1,3-dichloropropene	9.86	75	570564	49.57 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092602.D Vial: 2
Acq On : 26 Sep 2008 7:01 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 7:42 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

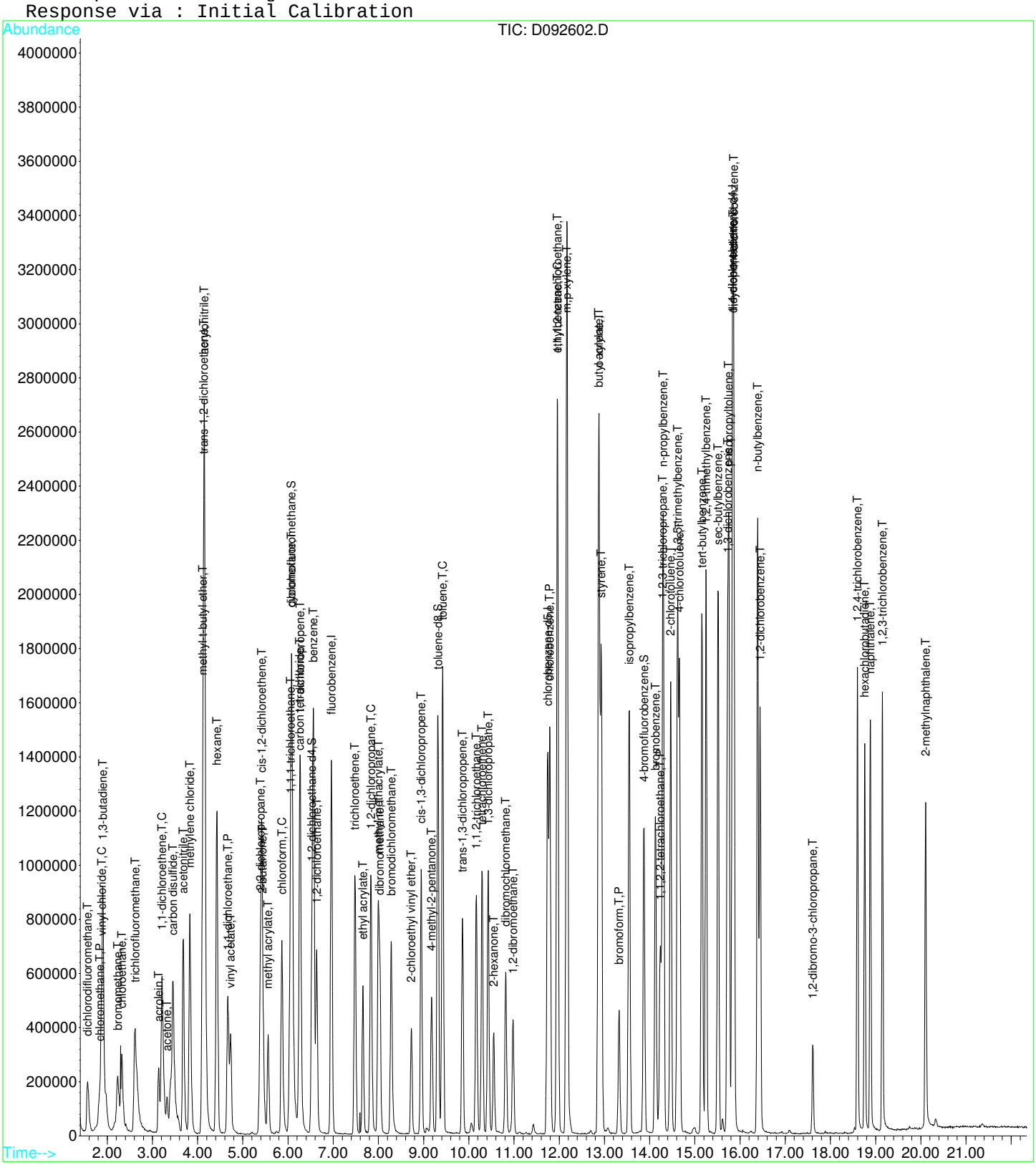
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	2-hexanone	10.55	43	402923	45.32	ug/L		97
51)	dibromochloromethane	10.81	129	471869	54.92	ug/L		97
52)	1,2-dibromoethane	10.98	107	450615	54.04	ug/L		98
53)	chlorobenzene	11.79	112	1166460	53.87	ug/L		98
54)	1,1,1,2-tetrachloroethane	11.96	131	426342	55.08	ug/L		97
55)	ethylbenzene	11.96	91	2081271	51.99	ug/L		98
56)	m,p-xylene	12.17	106	1538058	105.87	ug/L		97
57)	butyl acrylate	12.87	55	1271567	49.58	ug/L		96
58)	o-xylene	12.88	106	759368	54.13	ug/L		92
59)	styrene	12.93	104	1332032	53.75	ug/L		99
60)	isopropylbenzene	13.55	105	1788995	52.93	ug/L		99
61)	bromobenzene	14.13	156	479318	56.37	ug/L		93
62)	bromoform	13.32	173	324032	58.42	ug/L		99
64)	1,2,3-trichloropropane	14.28	75	458911	49.01	ug/L		98
65)	n-propylbenzene	14.30	91	2409318	51.33	ug/L		98
66)	2-chlorotoluene	14.46	91	1487450	51.35	ug/L		99
67)	4-chlorotoluene	14.66	91	1674852	50.43	ug/L		98
68)	1,3,5-trimethylbenzene	14.62	105	1618127	51.48	ug/L		99
70)	1,1,2,2-tetrachloroethane	14.23	83	555480	50.80	ug/L		97
71)	tert-butylbenzene	15.16	119	1376877	51.56	ug/L		99
72)	sec-butylbenzene	15.52	105	2168871	50.60	ug/L		98
73)	1,2,4-trimethylbenzene	15.25	105	1682028	50.20	ug/L		98
74)	1,3-dichlorobenzene	15.72	146	862953	53.58	ug/L		97
75)	p-isopropyltoluene	15.75	119	1727483	51.68	ug/L		99
76)	dicyclopentadiene	15.85	66	2427104	48.42	ug/L		97
77)	1,4-dichlorobenzene	15.87	146	871438	52.51	ug/L		98
78)	1,2-dichlorobenzene	16.44	146	811140	52.57	ug/L		98
79)	n-butylbenzene	16.39	91	1732506	49.05	ug/L		97
80)	1,2-dibromo-3-chloropropan	17.61	75	109366	44.70	ug/L	#	82
81)	1,2,4-trichlorobenzene	18.60	180	667067	52.75	ug/L		99
82)	hexachlorobutadiene	18.76	225	354527	48.20	ug/L		96
83)	naphthalene	18.89	128	1443448	50.29	ug/L		100
84)	1,2,3-trichlorobenzene	19.15	180	610312	51.47	ug/L		98
85)	2-methylnaphthalene	20.11	142	797499	49.87	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092608\D092602.D Vial: 2
Acq On : 26 Sep 2008 7:01 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 7:42 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	81	-0.01
2	T	dichlorodifluoromethane	0.150	0.148	1.3	79	-0.02
3	T,P	chloromethane	0.246	0.233	5.3	80	-0.01
4	T,C	vinyl chloride	0.232	0.253	-9.1	91	-0.02
5	T	1,3-butadiene	0.196	0.220	-12.2	94	-0.01
6	T	bromomethane	0.072	0.047	34.7#	91	-0.02
7	T	chloroethane	0.113	0.112	0.9	87	-0.01
8	T	trichlorofluoromethane	0.203	0.238	-17.2	95	-0.01
9	T	acrolein	0.022	0.015	31.8#	54	-0.02
10	T,C	1,1-dichloroethene	0.114	0.140	-22.8#	102	-0.01
11	T	acetone	0.109	0.090	17.4	65	-0.01
12	T	carbon disulfide	0.341	0.440	-29.0#	107	-0.02
13	T	methylene chloride	0.272	0.274	-0.7	82	-0.02
14	T	acrylonitrile	0.161	0.147	8.7	68	-0.01
15	T	trans-1,2-dichloroethene	0.201	0.235	-16.9	94	-0.01
16	T	methyl-t-butyl ether	0.691	0.617	10.7	68	-0.02
17	T	acetonitrile	0.047	0.045	4.3	75	-0.01
18	T	hexane	0.264	0.286	-8.3	91	-0.01
19	T,P	1,1-dichloroethane	0.422	0.423	-0.2	79	-0.02
20	T	vinyl acetate	0.412	0.367	10.9	68	-0.01
21	T	cis-1,2-dichloroethene	0.260	0.273	-5.0	83	-0.01
22	T	2,2-dichloropropane	0.269	0.299	-11.2	89	-0.02
23	T	2-butanone	0.039	0.034	12.8	67	-0.01
24	T	methyl acrylate	0.372	0.333	10.5	67	-0.01
25	T,C	chloroform	0.389	0.394	-1.3	79	-0.01
26	S	dibromofluoromethane	0.319	0.317	0.6	77	-0.01
27	T	1,1,1-trichloroethane	0.257	0.288	-12.1	90	-0.01
28	T	cyclohexane	0.348	0.375	-7.8	87	-0.01
29	T	carbon tetrachloride	0.231	0.259	-12.1	90	-0.01
30	S	1,2-dichloroethane-d4	0.306	0.304	0.7	78	-0.01
31	T	benzene	0.875	0.852	2.6	79	-0.01
32	T	1,1-dichloropropene	0.276	0.283	-2.5	84	-0.01
33	T	1,2-dichloroethane	0.353	0.358	-1.4	77	-0.01
34	T	trichloroethene	0.214	0.221	-3.3	85	-0.01
35	T	ethyl acrylate	0.511	0.455	11.0	66	-0.01
36	T,C	1,2-dichloropropane	0.281	0.260	7.5	72	-0.01
37	T	methyl methacrylate	0.321	0.293	8.7	69	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	dibromomethane	0.190	0.195	-2.6	77	-0.01
39	T	bromodichloromethane	0.332	0.324	2.4	74	-0.01
40	T	2-chloroethyl vinyl ether	0.059	0.107	-81.4#	142	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	78	-0.01
42	T	cis-1,3-dichloropropene	0.567	0.545	3.9	73	0.00
43	T	4-methyl-2-pentanone	0.527	0.449	14.8	62	0.00
44	S	toluene-d8	1.191	1.199	-0.7	78	-0.01
45	T,C	toluene	0.685	0.724	-5.7	82	0.00
46	T	1,1,2-trichloroethane	0.291	0.285	2.1	71	0.00
47	T	1,3-dichloropropane	0.595	0.574	3.5	73	0.00
48	T	tetrachloroethene	0.207	0.239	-15.5	91	-0.01
49	T	trans-1,3-dichloropropene	0.477	0.467	2.1	72	-0.01
50	T	2-hexanone	0.362	0.302	16.6	59	0.00
51	T	dibromochloromethane	0.415	0.394	5.1	69	0.00
52	T	1,2-dibromoethane	0.413	0.421	-1.9	74	-0.01
53	T,P	chlorobenzene	0.822	0.862	-4.9	81	0.00
54	T	1,1,1,2-tetrachloroethane	0.316	0.309	2.2	74	0.00
55	T,C	ethylbenzene	1.187	1.274	-7.3	83	0.00
56	T	m,p-xylene	0.470	0.523	-11.3	85	-0.01
57	T	butyl acrylate	0.985	0.906	8.0	65	0.00
58	T	o-xylene	0.470	0.520	-10.6	84	0.00
59	T	styrene	0.860	0.900	-4.7	78	0.00
60	T	isopropylbenzene	0.958	1.088	-13.6	86	-0.01
61	T	bromobenzene	0.350	0.367	-4.9	79	-0.01
62	T,P	bromoform	0.281	0.301	-7.1	78	-0.01
63	S	4-bromofluorobenzene	0.453	0.477	-5.3	81	-0.01
64	T	1,2,3-trichloropropane	0.381	0.357	6.3	68	0.00
65	T	n-propylbenzene	1.226	1.408	-14.8	89	0.00
66	T	2-chlorotoluene	0.786	0.864	-9.9	85	0.00
67	T	4-chlorotoluene	0.869	0.946	-8.9	83	0.00
68	T	1,3,5-trimethylbenzene	0.831	0.946	-13.8	86	-0.01
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
70	T,P	1,1,2,2-tetrachloroethane	1.168	1.087	6.9	71	-0.01
71	T	tert-butylbenzene	1.595	1.722	-8.0	85	-0.01
72	T	sec-butylbenzene	2.257	2.605	-15.4	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
73	T	1,2,4-trimethylbenzene	2.073	2.225	-7.3	85	0.00
74	T	1,3-dichlorobenzene	1.239	1.292	-4.3	81	0.00
75	T	p-isopropyltoluene	1.829	2.054	-12.3	89	0.00
76	T	dicyclopentadiene	2.957	3.176	-7.4	87	0.00
77	T	1,4-dichlorobenzene	1.280	1.319	-3.0	81	0.00
78	T	1,2-dichlorobenzene	1.204	1.255	-4.2	80	0.00
79	T	n-butylbenzene	1.520	1.833	-20.6#	97	0.00
80	T	1,2-dibromo-3-chloropropane	0.158	0.153	3.2	71	0.05
81	T	1,2,4-trichlorobenzene	0.522	0.661	-26.6#	101	0.10
82	T	hexachlorobutadiene	0.221	0.286	-29.4#	109	0.11
83	T	naphthalene	1.623	1.832	-12.9	86	0.11
84	T	1,2,3-trichlorobenzene	0.467	0.590	-26.3#	100	0.14
85	T	2-Methylnaphthalene	0.494	0.494	0.0	80	0.21

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1685944	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	1224904	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	556563	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	533851	49.57 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	512534	49.72 ug/L	-0.01
44) toluene-d8	8.99	98	1468676	50.35 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	584830	52.72 ug/L	-0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	249689	49.27 ug/L	99
3) chloromethane	1.68	50	392086	47.21 ug/L	99
4) vinyl chloride	1.79	62	426926	54.48 ug/L	99
5) 1,3-butadiene	1.84	39	370780	56.00 ug/L	92
6) bromomethane	2.13	94	80070	32.85 ug/L	93
7) chloroethane	2.26	64	188947	49.55 ug/L	93
8) trichlorofluoromethane	2.56	101	401621	58.71 ug/L	98
9) acrolein	3.03	56	257592	350.41 ug/L	99
10) 1,1-dichloroethene	3.15	96	236786	61.36 ug/L #	83
11) acetone	3.22	43	151262	41.06 ug/L	99
12) carbon disulfide	3.38	76	742159	64.58 ug/L	98
13) methylene chloride	3.71	84	462632	50.53 ug/L	97
14) acrylonitrile	3.99	53	2478733	456.77 ug/L	98
15) trans-1,2-dichloroethene	4.04	96	395541	58.24 ug/L	93
16) methyl-t-butyl ether	4.04	73	1039631	44.64 ug/L	97
17) acetonitrile	3.52	41	758095	483.26 ug/L	98
18) hexane	4.37	57	481699	54.08 ug/L #	97
19) 1,1-dichloroethane	4.53	63	712637	50.05 ug/L	97
20) vinyl acetate	4.61	43	618326	44.46 ug/L	99
21) cis-1,2-dichloroethene	5.26	96	460380	52.56 ug/L	89
22) 2,2-dichloropropane	5.24	77	503560	55.46 ug/L	97
23) 2-butanone	5.28	72	57878	43.66 ug/L	81
24) methyl acrylate	5.41	55	561507	44.74 ug/L	95
25) chloroform	5.68	83	664677	50.66 ug/L	97
27) 1,1,1-trichloroethane	5.89	97	485996	56.01 ug/L	97
28) cyclohexane	5.96	56	632208	53.87 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.11	117	437065	56.09 ug/L	93
31) benzene	6.38	78	1436098	48.66 ug/L	99
32) 1,1-dichloropropene	6.11	75	477639	51.40 ug/L	98
33) 1,2-dichloroethane	6.40	62	603773	50.69 ug/L	97
34) trichloroethene	7.26	95	372644	51.68 ug/L	95
35) ethyl acrylate	7.42	55	767190	44.56 ug/L	99
36) 1,2-dichloropropane	7.56	63	438788	46.31 ug/L	95
37) methyl methacrylate	7.74	41	493658	45.56 ug/L	94
38) dibromomethane	7.73	93	328650	51.26 ug/L	97
39) bromodichloromethane	7.97	83	546040	48.74 ug/L	98
40) 2-chloroethyl vinyl ether	8.41	63	180321	90.98 ug/L	97
42) cis-1,3-dichloropropene	8.62	75	667282	48.08 ug/L	97
43) 4-methyl-2-pentanone	8.84	43	550364	42.66 ug/L	98
45) toluene	9.10	92	887177	52.84 ug/L	94
46) 1,1,2-trichloroethane	9.73	83	348889	48.92 ug/L	97
47) 1,3-dichloropropane	9.99	76	702761	48.25 ug/L	100
48) tetrachloroethene	9.95	164	293040	57.85 ug/L	96
49) trans-1,3-dichloropropene	9.46	75	572271	48.92 ug/L	98
50) 2-hexanone	10.13	43	370389	41.73 ug/L	99
51) dibromochloromethane	10.35	129	482506	47.49 ug/L	95
52) 1,2-dibromoethane	10.50	107	515207	50.89 ug/L	100
53) chlorobenzene	11.31	112	1055942	52.42 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.45	131	378889	49.02 ug/L	99
55) ethylbenzene	11.49	91	1560970	53.66 ug/L	99
56) m,p-xylene	11.69	106	1281724	111.27 ug/L	98
57) butyl acrylate	12.34	55	1109875	45.98 ug/L	94
58) o-xylene	12.35	106	637252	55.29 ug/L	97
59) styrene	12.38	104	1102587	52.32 ug/L	96
60) isopropylbenzene	12.98	105	1333043	56.80 ug/L	96
61) bromobenzene	13.48	156	450072	52.50 ug/L	93
62) bromoform	12.68	173	369175	53.66 ug/L	97
64) 1,2,3-trichloropropane	13.58	75	437589	46.90 ug/L	96
65) n-propylbenzene	13.70	91	1724230	57.42 ug/L	100
66) 2-chlorotoluene	13.84	91	1058847	54.97 ug/L	95
67) 4-chlorotoluene	14.02	91	1158998	54.47 ug/L	98
68) 1,3,5-trimethylbenzene	14.01	105	1158280	56.87 ug/L	94
70) 1,1,2,2-tetrachloroethane	13.53	83	604929	46.51 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

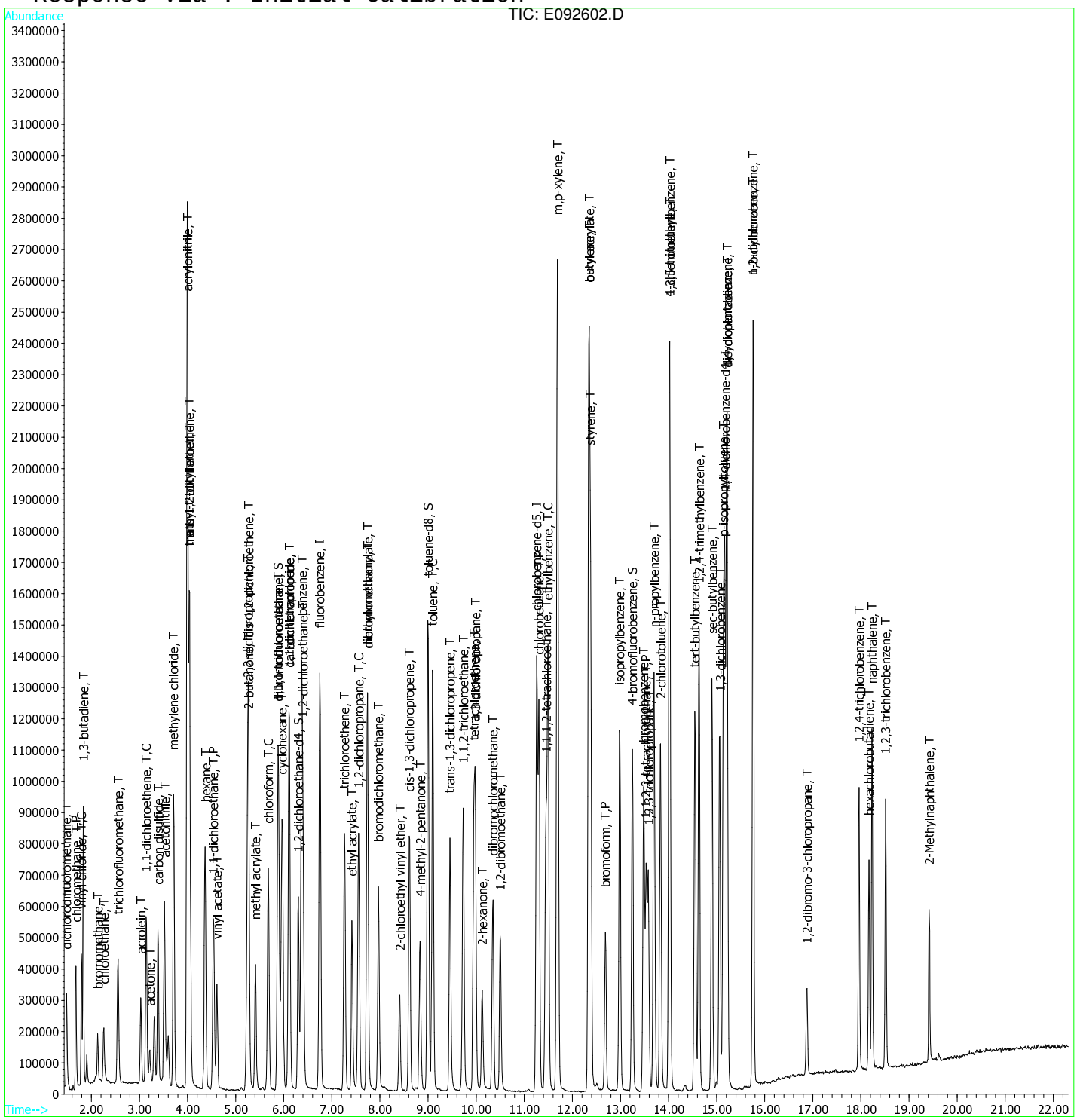
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	958144	53.95 ug/L	92
72)	sec-butylbenzene	14.90	105	1449708	57.71 ug/L	98
73)	1,2,4-trimethylbenzene	14.63	105	1238233	53.66 ug/L	98
74)	1,3-dichlorobenzene	15.07	146	718984	52.14 ug/L	99
75)	p-isopropyltoluene	15.14	119	1143233	56.16 ug/L	97
76)	dicyclopentadiene	15.22	66	1767609	53.70 ug/L	97
77)	1,4-dichlorobenzene	15.20	146	733876	51.50 ug/L	98
78)	1,2-dichlorobenzene	15.76	146	698686	52.15 ug/L	98
79)	n-butylbenzene	15.76	91	1019924	60.26 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.87	75	84954	48.21 ug/L	96
81)	1,2,4-trichlorobenzene	17.96	180	367615	63.32 ug/L	99
82)	hexachlorobutadiene	18.17	225	159080	64.81 ug/L	94
83)	naphthalene	18.23	128	1019575	56.42 ug/L	100
84)	1,2,3-trichlorobenzene	18.51	180	328547	63.20 ug/L	95
85)	2-Methylnaphthalene	19.42	142	275162	50.06 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	65	-0.01
2	T	dichlorodifluoromethane	0.150	0.130	13.3	56	-0.02
3	T,P	chloromethane	0.246	0.226	8.1	62	-0.01
4	T,C	vinyl chloride	0.232	0.256	-10.3	73	-0.02
5	T	1,3-butadiene	0.196	0.201	-2.6	68	-0.02
6	T	bromomethane	0.072	0.061	15.3	94	-0.02
7	T	chloroethane	0.113	0.121	-7.1	75	-0.02
8	T	trichlorofluoromethane	0.203	0.267	-31.5#	85	-0.01
9	T	acrolein	0.022	0.015	31.8#	43#	-0.02
10	T,C	1,1-dichloroethene	0.114	0.132	-15.8	77	-0.02
11	T	acetone	0.109	0.101	7.3	58	-0.01
12	T	carbon disulfide	0.341	0.408	-19.6	79	-0.02
13	T	methylene chloride	0.272	0.263	3.3	63	-0.02
14	T	acrylonitrile	0.161	0.148	8.1	55	-0.01
15	T	trans-1,2-dichloroethene	0.201	0.226	-12.4	72	-0.01
16	T	methyl-t-butyl ether	0.691	0.597	13.6	53	-0.02
17	T	acetonitrile	0.047	0.047	0.0	63	-0.01
18	T	hexane	0.264	0.273	-3.4	70	-0.01
19	T,P	1,1-dichloroethane	0.422	0.401	5.0	60	-0.01
20	T	vinyl acetate	0.412	0.350	15.0	52	-0.01
21	T	cis-1,2-dichloroethene	0.260	0.264	-1.5	64	-0.01
22	T	2,2-dichloropropane	0.269	0.304	-13.0	72	-0.01
23	T	2-butanone	0.039	0.033	15.4	51	-0.01
24	T	methyl acrylate	0.372	0.324	12.9	52	-0.01
25	T,C	chloroform	0.389	0.398	-2.3	64	-0.01
26	S	dibromofluoromethane	0.319	0.323	-1.3	63	-0.01
27	T	1,1,1-trichloroethane	0.257	0.298	-16.0	74	-0.01
28	T	cyclohexane	0.348	0.355	-2.0	66	-0.01
29	T	carbon tetrachloride	0.231	0.272	-17.7	76	0.00
30	S	1,2-dichloroethane-d4	0.306	0.323	-5.6	66	-0.01
31	T	benzene	0.875	0.813	7.1	60	-0.01
32	T	1,1-dichloropropene	0.276	0.275	0.4	65	-0.01
33	T	1,2-dichloroethane	0.353	0.372	-5.4	64	-0.01
34	T	trichloroethene	0.214	0.225	-5.1	69	-0.01
35	T	ethyl acrylate	0.511	0.456	10.8	53	-0.01
36	T,C	1,2-dichloropropane	0.281	0.233	17.1	52	-0.01
37	T	methyl methacrylate	0.321	0.298	7.2	56	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	dibromomethane	0.190	0.185	2.6	59	-0.01
39	T	bromodichloromethane	0.332	0.329	0.9	60	-0.01
40	T	2-chloroethyl vinyl ether	0.059	0.095	-61.0#	101	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	60	-0.01
42	T	cis-1,3-dichloropropene	0.567	0.535	5.6	56	0.00
43	T	4-methyl-2-pentanone	0.527	0.451	14.4	48#	0.00
44	S	toluene-d8	1.191	1.255	-5.4	63	0.00
45	T,C	toluene	0.685	0.727	-6.1	64	0.00
46	T	1,1,2-trichloroethane	0.291	0.288	1.0	56	0.00
47	T	1,3-dichloropropane	0.595	0.575	3.4	56	0.00
48	T	tetrachloroethene	0.207	0.240	-15.9	71	0.00
49	T	trans-1,3-dichloropropene	0.477	0.479	-0.4	57	-0.01
50	T	2-hexanone	0.362	0.307	15.2	47#	0.00
51	T	dibromochloromethane	0.415	0.397	4.3	54	0.00
52	T	1,2-dibromoethane	0.413	0.418	-1.2	57	-0.01
53	T,P	chlorobenzene	0.822	0.846	-2.9	61	0.00
54	T	1,1,1,2-tetrachloroethane	0.316	0.310	1.9	57	0.00
55	T,C	ethylbenzene	1.187	1.323	-11.5	67	0.00
56	T	m,p-xylene	0.470	0.528	-12.3	66	-0.01
57	T	butyl acrylate	0.985	0.928	5.8	52	0.00
58	T	o-xylene	0.470	0.530	-12.8	66	0.00
59	T	styrene	0.860	0.937	-9.0	63	0.00
60	T	isopropylbenzene	0.958	1.146	-19.6	70	0.00
61	T	bromobenzene	0.350	0.365	-4.3	60	0.00
62	T,P	bromoform	0.281	0.306	-8.9	61	-0.01
63	S	4-bromofluorobenzene	0.453	0.502	-10.8	66	-0.01
64	T	1,2,3-trichloropropane	0.381	0.375	1.6	55	0.00
65	T	n-propylbenzene	1.226	1.499	-22.3#	73	0.00
66	T	2-chlorotoluene	0.786	0.929	-18.2	71	0.00
67	T	4-chlorotoluene	0.869	1.041	-19.8	70	0.00
68	T	1,3,5-trimethylbenzene	0.831	1.026	-23.5#	72	0.00
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	64	0.00
70	T,P	1,1,2,2-tetrachloroethane	1.168	1.072	8.2	56	0.00
71	T	tert-butylbenzene	1.595	1.728	-8.3	69	0.00
72	T	sec-butylbenzene	2.257	2.655	-17.6	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
73	T	1,2,4-trimethylbenzene	2.073	2.237	-7.9	69	0.00
74	T	1,3-dichlorobenzene	1.239	1.271	-2.6	64	0.00
75	T	p-isopropyltoluene	1.829	2.020	-10.4	70	0.00
76	T	dicyclopentadiene	2.957	3.142	-6.3	69	0.00
77	T	1,4-dichlorobenzene	1.280	1.273	0.5	63	0.00
78	T	1,2-dichlorobenzene	1.204	1.226	-1.8	63	0.00
79	T	n-butylbenzene	1.520	1.865	-22.7#	80	0.00
80	T	1,2-dibromo-3-chloropropane	0.158	0.170	-7.6	64	0.03
81	T	1,2,4-trichlorobenzene	0.522	0.645	-23.6#	79	0.09
82	T	hexachlorobutadiene	0.221	0.293	-32.6#	89	0.10
83	T	naphthalene	1.623	1.805	-11.2	68	0.10
84	T	1,2,3-trichlorobenzene	0.467	0.593	-27.0#	80	0.13
85	T	2-Methylnaphthalene	0.494	0.482	2.4	62	0.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1347132	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	947954	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.16	152	446988	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	434622	50.51 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	435620	52.89 ug/L	-0.01
44) toluene-d8	9.00	98	1190113	52.72 ug/L	0.00
63) 4-bromofluorobenzene	13.24	95	475876	55.43 ug/L	-0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	175527	43.35 ug/L	99
3) chloromethane	1.68	50	304120	45.82 ug/L	96
4) vinyl chloride	1.79	62	344684	55.05 ug/L	96
5) 1,3-butadiene	1.83	39	271447	51.31 ug/L	99
6) bromomethane	2.13	94	82471	42.35 ug/L	94
7) chloroethane	2.25	64	162438	53.32 ug/L	95
8) trichlorofluoromethane	2.56	101	359913	65.84 ug/L	96
9) acrolein	3.03	56	208733	355.36 ug/L	95
10) 1,1-dichloroethene	3.14	96	177881	57.69 ug/L	90
11) acetone	3.21	43	135611	46.07 ug/L	89
12) carbon disulfide	3.38	76	549402	59.83 ug/L	99
13) methylene chloride	3.71	84	354962	48.52 ug/L	99
14) acrylonitrile	3.99	53	1992897	459.61 ug/L	97
15) trans-1,2-dichloroethene	4.04	96	304189	56.05 ug/L #	88
16) methyl-t-butyl ether	4.04	73	804883	43.25 ug/L	100
17) acetonitrile	3.52	41	632447	504.56 ug/L	98
18) hexane	4.37	57	368223	51.74 ug/L #	98
19) 1,1-dichloroethane	4.54	63	539800	47.44 ug/L	95
20) vinyl acetate	4.61	43	471737	42.45 ug/L	100
21) cis-1,2-dichloroethene	5.26	96	356164	50.89 ug/L	97
22) 2,2-dichloropropane	5.25	77	409824	56.49 ug/L	98
23) 2-butanone	5.28	72	44063	41.60 ug/L	84
24) methyl acrylate	5.41	55	435836	43.46 ug/L	98
25) chloroform	5.68	83	536652	51.19 ug/L	94
27) 1,1,1-trichloroethane	5.89	97	401083	57.85 ug/L	99
28) cyclohexane	5.96	56	477577	50.93 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.12	117	365975	58.78 ug/L	94
31) benzene	6.37	78	1095082	46.44 ug/L	97
32) 1,1-dichloropropene	6.11	75	370247	49.87 ug/L	97
33) 1,2-dichloroethane	6.40	62	501412	52.68 ug/L	99
34) trichloroethene	7.26	95	303320	52.65 ug/L	88
35) ethyl acrylate	7.42	55	614491	44.67 ug/L	97
36) 1,2-dichloropropane	7.56	63	313580	41.42 ug/L	97
37) methyl methacrylate	7.74	41	401800	46.41 ug/L	93
38) dibromomethane	7.73	93	249740	48.75 ug/L	96
39) bromodichloromethane	7.97	83	442767	49.46 ug/L	97
40) 2-chloroethyl vinyl ether	8.41	63	128578	81.19 ug/L	96
42) cis-1,3-dichloropropene	8.62	75	506914	47.20 ug/L	95
43) 4-methyl-2-pentanone	8.84	43	427259	42.79 ug/L	98
45) toluene	9.10	92	689390	53.06 ug/L	100
46) 1,1,2-trichloroethane	9.73	83	273025	49.46 ug/L	93
47) 1,3-dichloropropane	9.99	76	544847	48.33 ug/L	96
48) tetrachloroethene	9.96	164	227399	58.01 ug/L	95
49) trans-1,3-dichloropropene	9.46	75	453611	50.11 ug/L	96
50) 2-hexanone	10.12	43	290621	42.30 ug/L	95
51) dibromochloromethane	10.35	129	376779	47.92 ug/L	95
52) 1,2-dibromoethane	10.50	107	396131	50.55 ug/L #	97
53) chlorobenzene	11.31	112	802183	51.46 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.45	131	293721	49.10 ug/L	99
55) ethylbenzene	11.49	91	1254053	55.70 ug/L	100
56) m,p-xylene	11.69	106	1001737	112.37 ug/L	94
57) butyl acrylate	12.34	55	879614	47.09 ug/L	98
58) o-xylene	12.35	106	502849	56.38 ug/L	94
59) styrene	12.38	104	888164	54.46 ug/L	98
60) isopropylbenzene	12.99	105	1086537	59.82 ug/L	97
61) bromobenzene	13.49	156	346099	52.17 ug/L	96
62) bromoform	12.68	173	290115	54.49 ug/L	97
64) 1,2,3-trichloropropane	13.58	75	355453	49.23 ug/L	98
65) n-propylbenzene	13.70	91	1421041	61.15 ug/L	96
66) 2-chlorotoluene	13.84	91	881028	59.10 ug/L	92
67) 4-chlorotoluene	14.02	91	986650	59.92 ug/L	94
68) 1,3,5-trimethylbenzene	14.02	105	972376	61.69 ug/L	91
70) 1,1,2,2-tetrachloroethane	13.54	83	479094	45.86 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

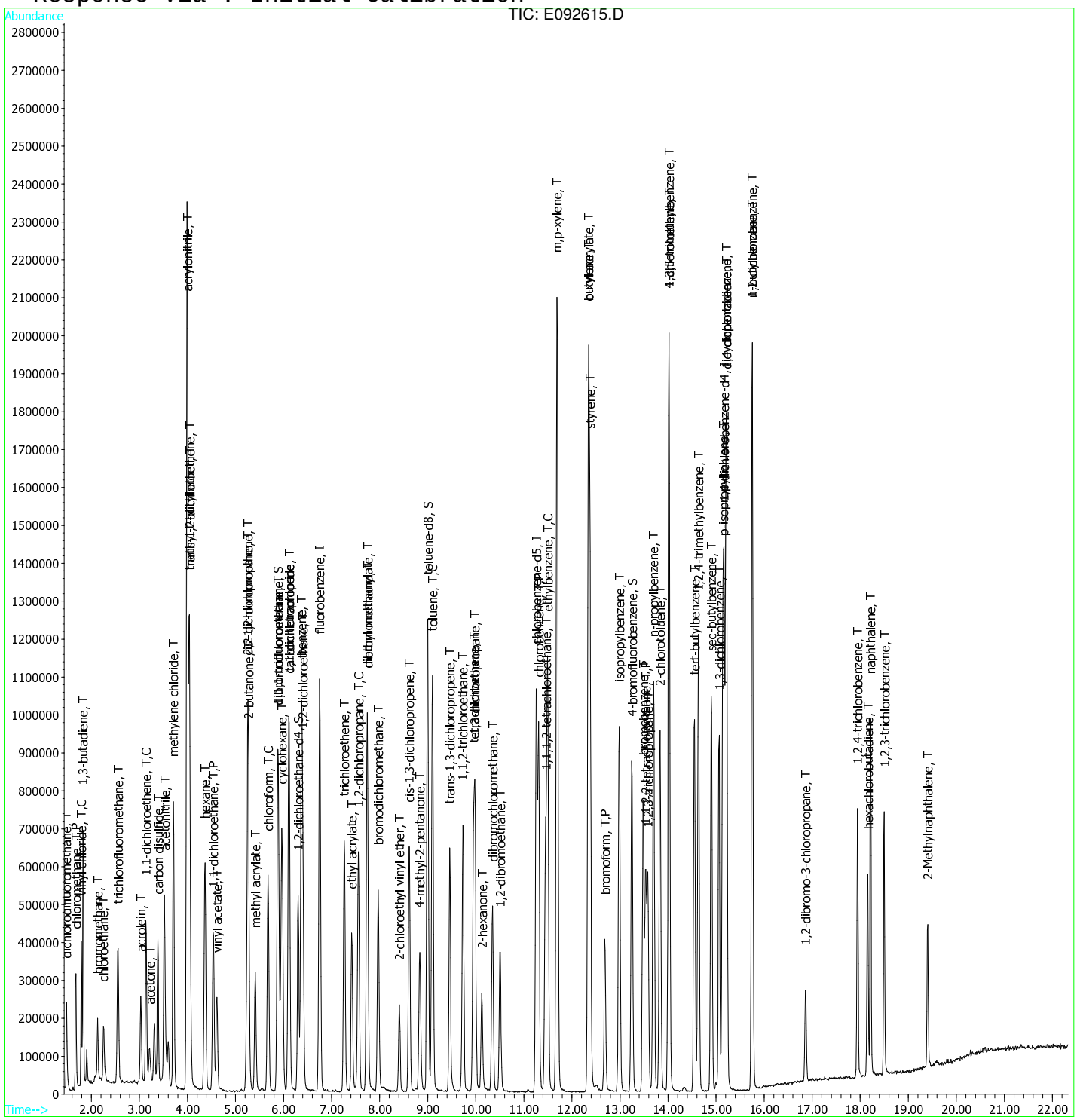
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	772552	54.17 ug/L	91
72)	sec-butylbenzene	14.90	105	1186654	58.82 ug/L	97
73)	1,2,4-trimethylbenzene	14.63	105	1000073	53.96 ug/L	94
74)	1,3-dichlorobenzene	15.07	146	568119	51.30 ug/L	98
75)	p-isopropyltoluene	15.13	119	903090	55.24 ug/L	96
76)	dicyclopentadiene	15.21	66	1404544	53.13 ug/L	98
77)	1,4-dichlorobenzene	15.20	146	569011	49.72 ug/L	98
78)	1,2-dichlorobenzene	15.76	146	547946	50.93 ug/L	99
79)	n-butylbenzene	15.76	91	833671	61.33 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.86	75	75976	53.69 ug/L	91
81)	1,2,4-trichlorobenzene	17.95	180	288214	61.81 ug/L	96
82)	hexachlorobutadiene	18.16	225	131084	66.49 ug/L	96
83)	naphthalene	18.22	128	806644	55.58 ug/L	100
84)	1,2,3-trichlorobenzene	18.50	180	265084	63.49 ug/L	95
85)	2-Methylnaphthalene	19.41	142	215285	48.76 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092516.D Vial: 16
Acq On : 25 Sep 2008 4:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-01A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 17:34 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

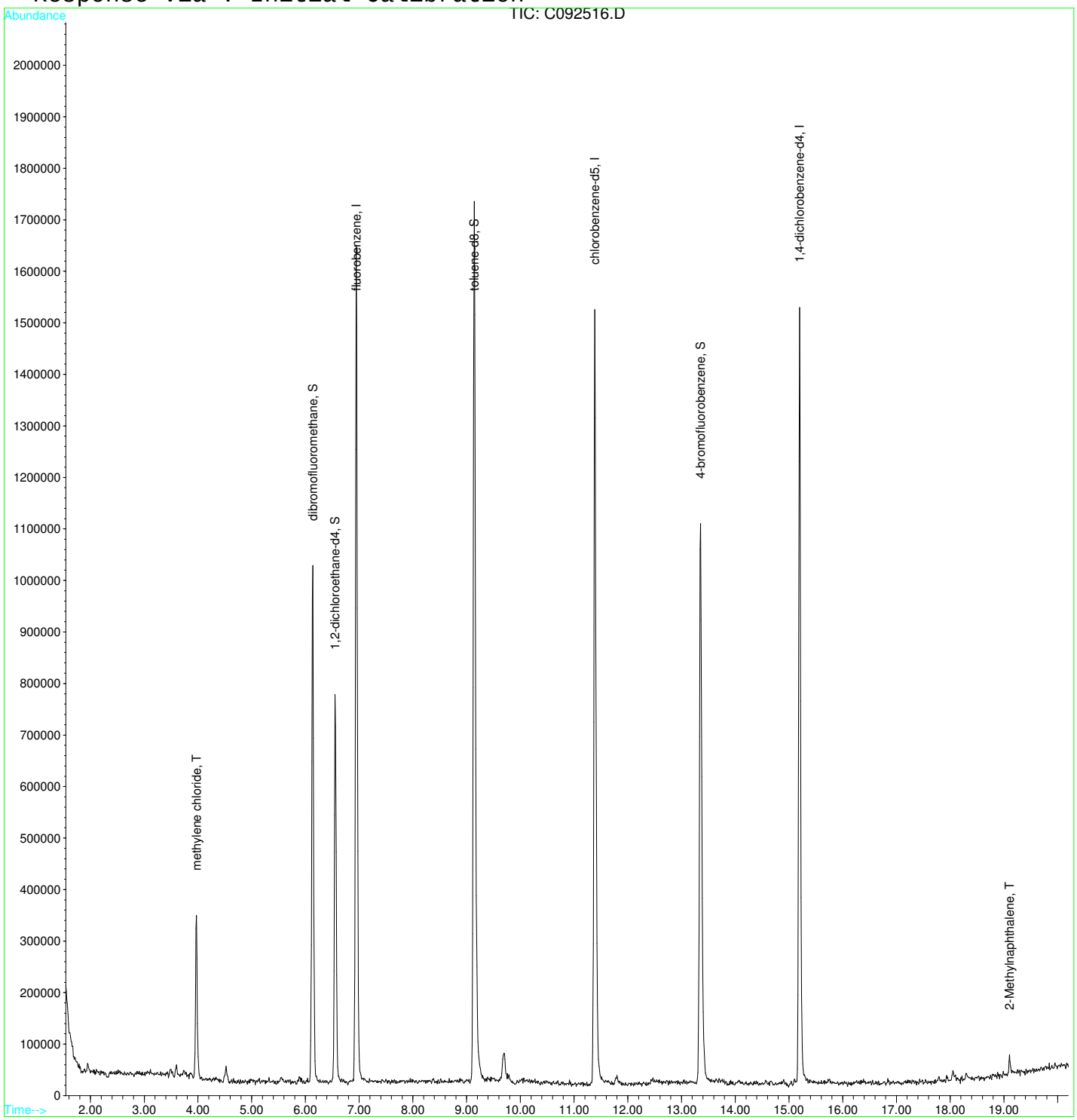
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	2042097	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1466617	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	621726	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	792067	50.44 ug/L	0.00
30) 1,2-dichloroethane-d4	6.55	65	642534	43.91 ug/L	0.00
44) toluene-d8	9.14	98	1856536	53.19 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	772293	50.23 ug/L	0.00
Target Compounds					Qvalue
13) methylene chloride	3.97	84	187334	9.49 ug/L	86
85) 2-Methylnaphthalene	19.11	142	20914	2.67 ug/L	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092516.D Vial: 16
Acq On : 25 Sep 2008 4:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-01A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 17:34 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 4:15 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092516.D
Name: ,SAMP,ME0809B07-01A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzoic acid, 2-hydr	3.11	7.0	ug/L	577788	ISTD01	6.95	4153830	50.0

C092516.D VOA0815.M Wed Oct 15 13:31:57 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092516.D
Acq On : 25 Sep 2008 4:15 pm
Sample : ,SAMP,ME0809B07-01A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 16
Operator: MT
Inst : VOA #3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0.3

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

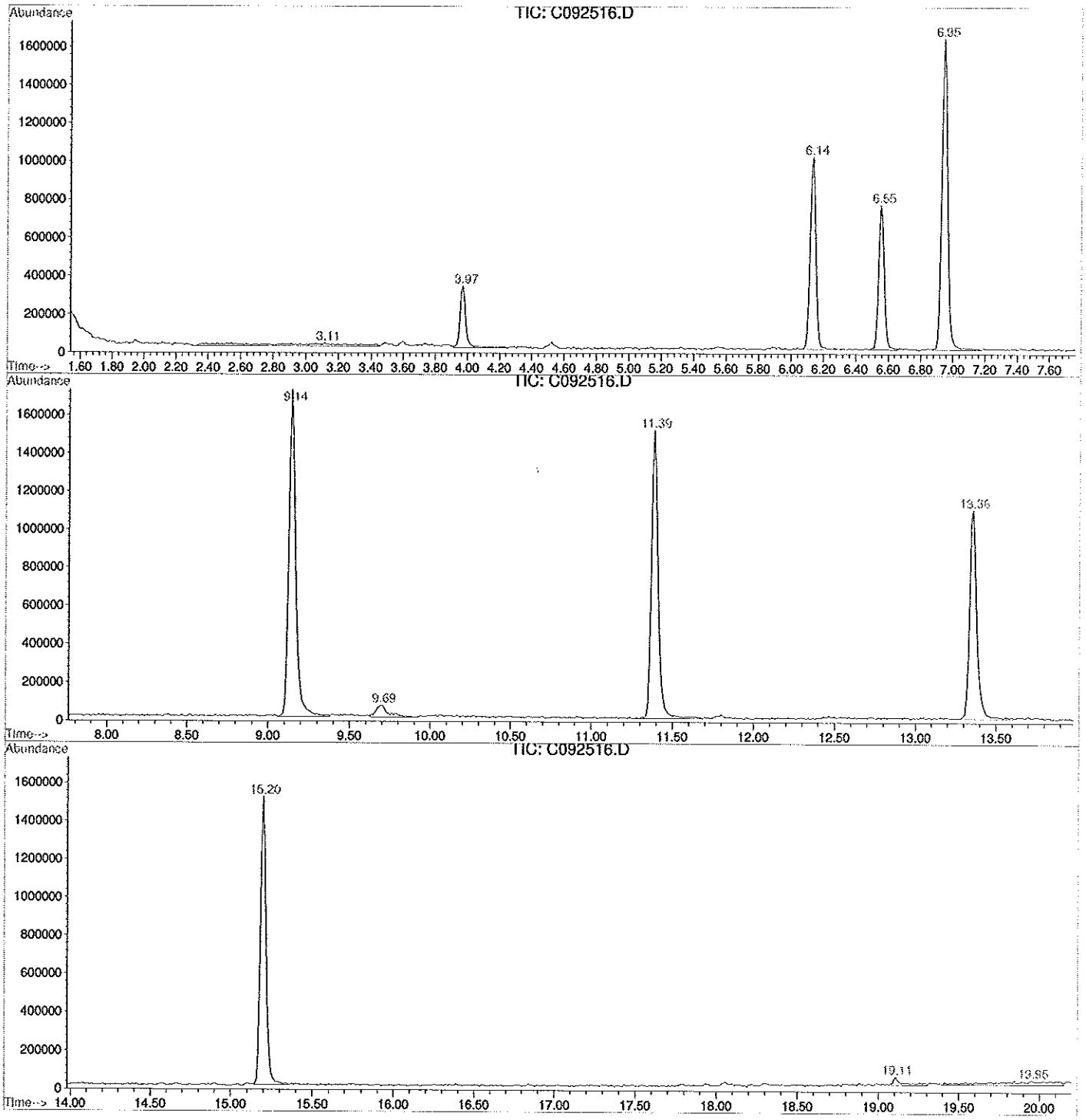
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.115	81	161	195	rVV	16614	577788	11.45%	2.106%
2	3.972	242	248	277	rVV	320983	802647	15.91%	2.925%
3	6.138	460	468	489	rVB	1004027	2480445	49.17%	9.040%
4	6.551	503	510	521	rBV	753510	1820791	36.09%	6.636%
5	6.945	543	550	574	rVB	1625895	4153826	82.34%	15.139%
6	9.141	765	773	797	rBV	1711972	5044472	100.00%	18.385%
7	9.693	822	829	850	rVB3	60524	332499	6.59%	1.212%
8	11.386	989	1001	1032	rBV	1506636	4378613	86.80%	15.958%
9	13.356	1193	1201	1227	rBV	1087391	3428024	67.96%	12.494%
10	15.197	1382	1388	1405	rVB	1504274	3679642	72.94%	13.411%
11	19.106	1781	1785	1805	rVB4	41736	162470	3.22%	0.592%
12	19.953	1815	1871	1891	rBV4	23220	576285	11.42%	2.100%

Sum of corrected areas: 27437502

C092516.D VOA0815.M Wed Oct 15 13:31:38 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092516.D
Operator : MT
Acquired : 25 Sep 2008 4:15 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-01A,1,
Misc Info : 8260+_W
Vial Number: 16
Quant File :VOA0815.RES (RTE Integrator)



C092516.D VOA0815.M Wed Oct 15 13:31:45 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092516.D
Acq On : 25 Sep 2008 4:15 pm
Sample : ,SAMP,ME0809B07-01A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 16
Operator: MT
Inst : VOA #3
Multiplr: 1.00

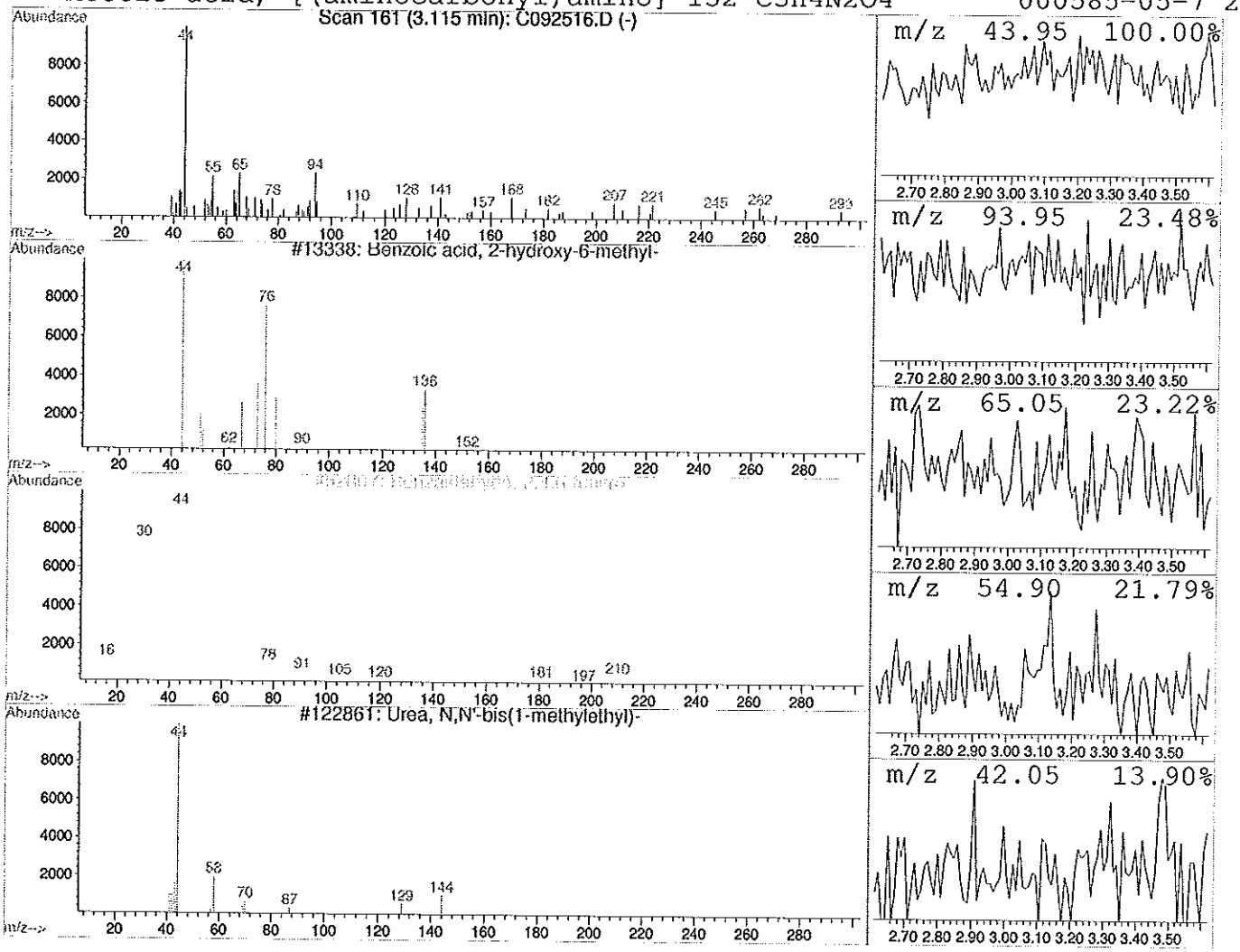
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Benzoic acid, 2-hydroxy-6-meth Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.11	6.95 ug/L	577788	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-hydroxy-6-methyl-	152	C8H8O3	000567-61-3	25
2	Benzaldehyde, 2,4,6-trinitro-	241	C7H3N3O7	000606-34-8	25
3	Urea, N,N'-bis(1-methylethyl)-	144	C7H16N2O	004128-37-4	25
4	Acetic acid, [(aminocarbonyl)amino]	132	C3H4N2O4	000585-05-7	25



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092517.D Vial: 17
Acq On : 25 Sep 2008 4:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-02A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 17:35 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1788681	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1308356	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	545127	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	717598	52.17 ug/L	0.00
30) 1,2-dichloroethane-d4	6.55	65	597225	46.60 ug/L	0.00
44) toluene-d8	9.14	98	1606984	51.61 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	691069	50.38 ug/L	0.00

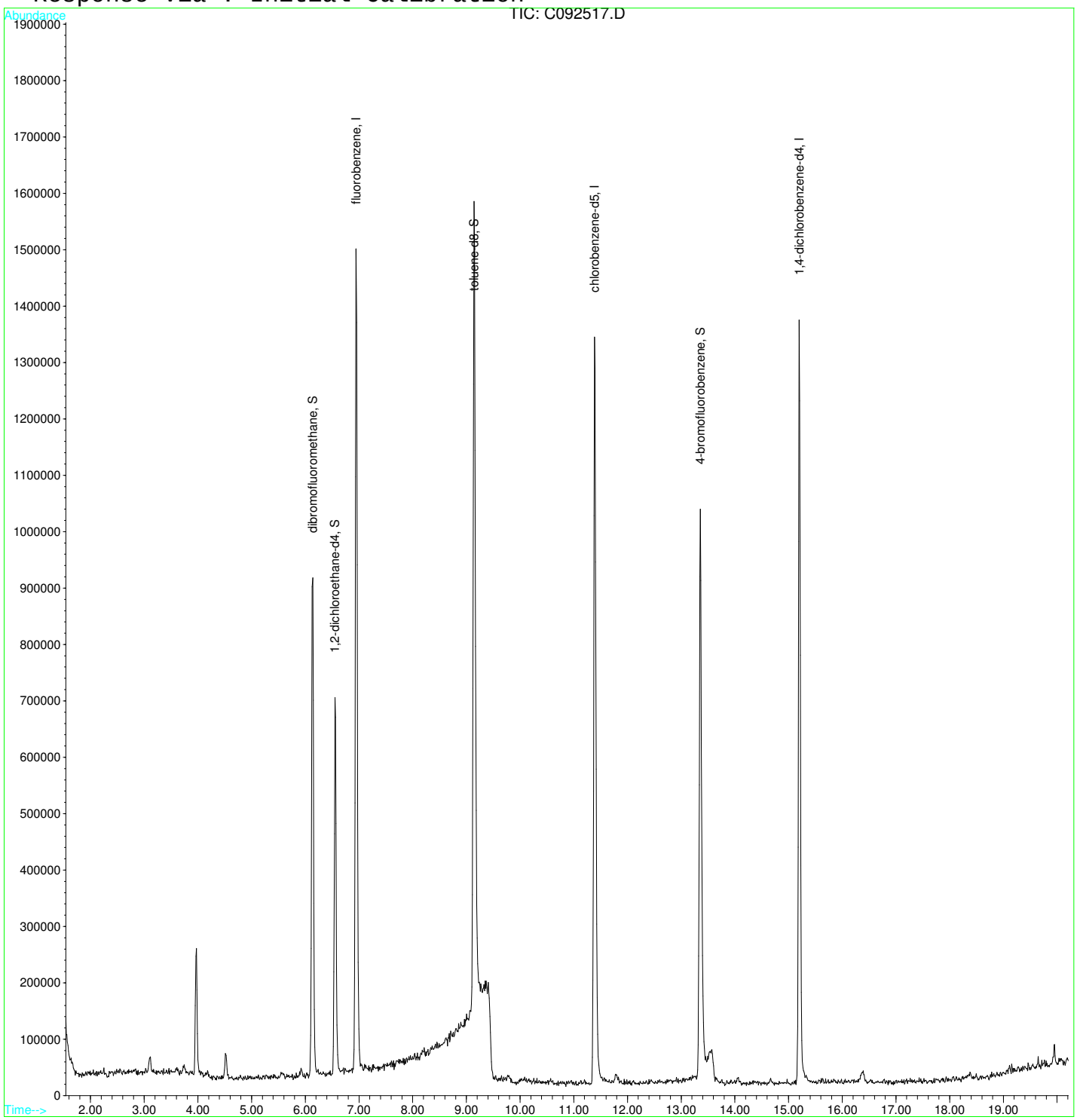
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092517.D Vial: 17
Acq On : 25 Sep 2008 4:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-02A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 17:35 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 4:45 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092517.D
Name: ,SAMP,ME0809B07-02A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
C092517.D	VOA0815.M	Wed Oct 15 13:32:29 2008					VOA8		

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092517.D
Acq On : 25 Sep 2008 4:45 pm
Sample : ,SAMP,ME0809B07-02A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 17
Operator: MT
Inst : VOA #3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0.3

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

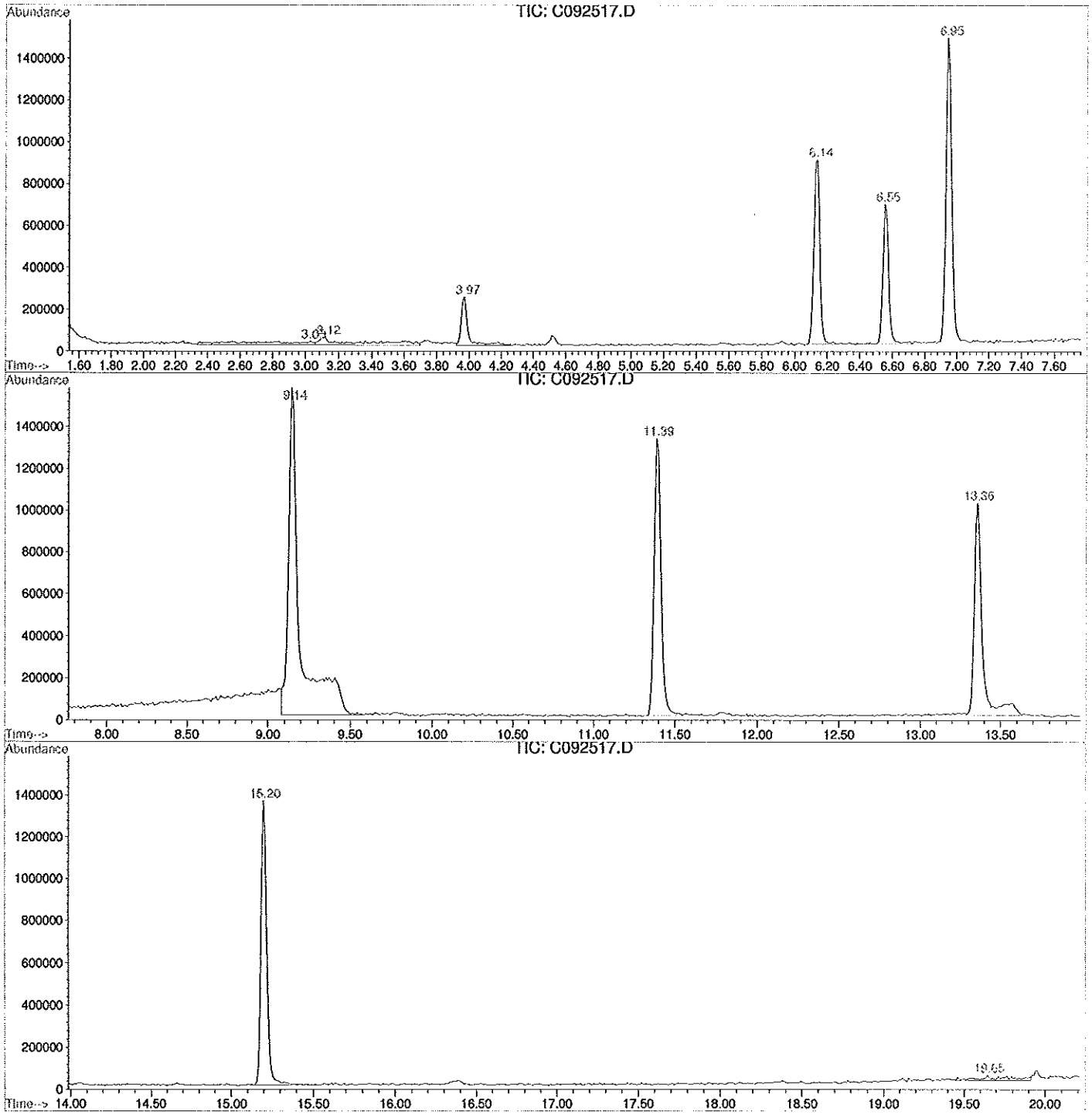
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.026	82	152	155	rVV	17183	472406	5.20%	1.412%
2	3.115	155	161	220	rVV	39262	559298	6.16%	1.672%
3	3.972	243	248	278	rVB	233399	708250	7.80%	2.118%
4	6.138	461	468	505	rBV	883308	2311812	25.45%	6.912%
5	6.552	505	510	528	rBV	667805	1665723	18.34%	4.980%
6	6.945	543	550	767	rBV	1461491	9084794	100.00%	27.163%
7	9.141	767	773	818	rVB	1560618	7576732	83.40%	22.654%
8	11.386	993	1001	1017	rBV	1324346	3868875	42.59%	11.568%
9	13.356	1194	1201	1229	rVB	1014544	3536163	38.92%	10.573%
10	15.197	1380	1388	1423	rBV	1354517	3388395	37.30%	10.131%
11	19.648	1820	1840	1867	rBV	25039	273144	3.01%	0.817%

Sum of corrected areas: 33445592

C092517.D VOA0815.M Wed Oct 15 13:32:18 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092517.D
Operator : MT
Acquired : 25 Sep 2008 4:45 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-02A,1,
Misc Info : 8260+_W
Vial Number: 17
Quant File :VOA0815.RES (RTE Integrator)



C092517.D VOA0815.M Wed Oct 15 13:32:27 2008 VOA8

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092518.D Vial: 18
Acq On : 25 Sep 2008 5:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-03A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 17:36 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

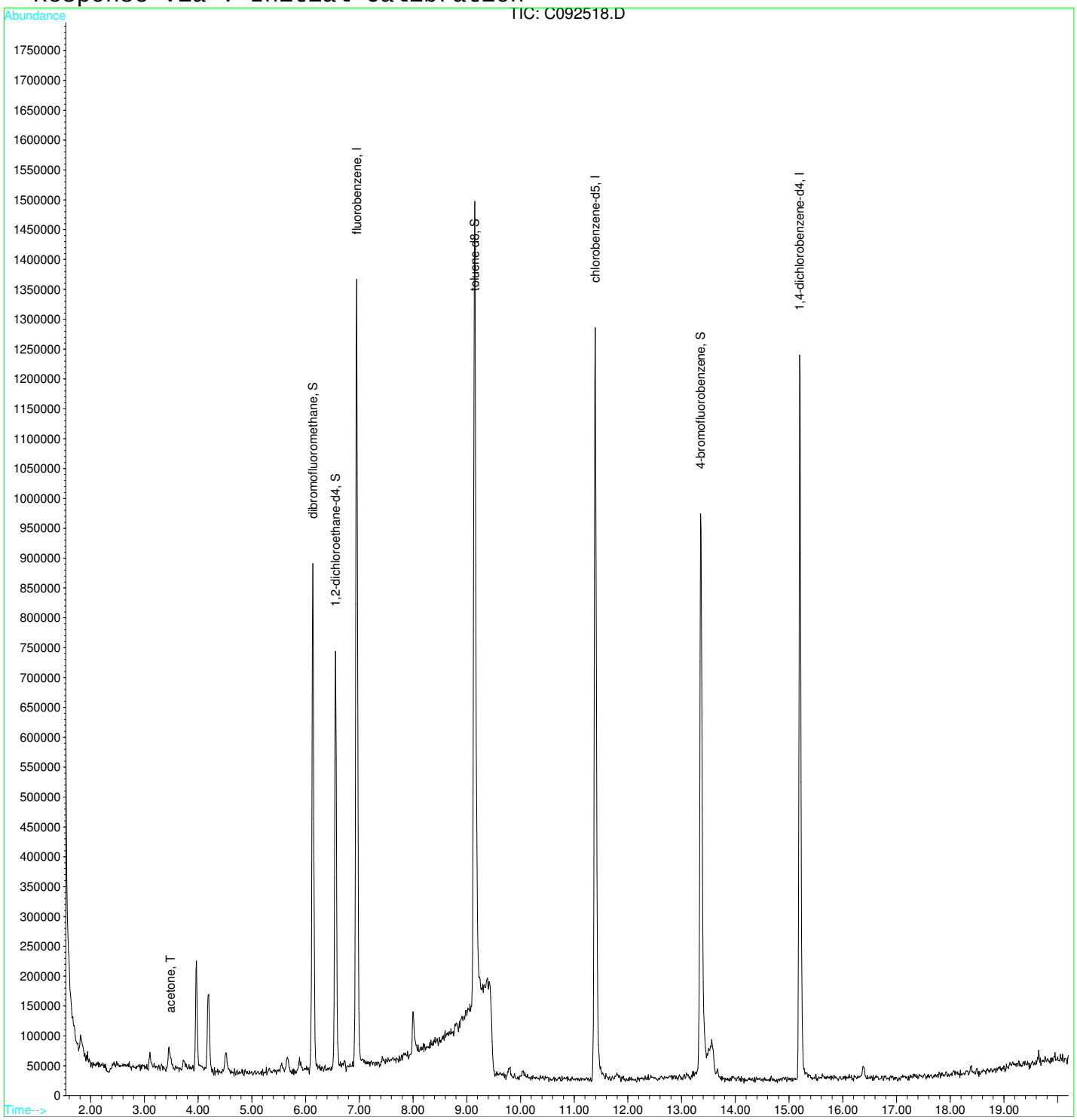
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1605790	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1206651	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	512734	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	675900	54.74 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	596656	51.85 ug/L	0.00
44) toluene-d8	9.15	98	1496141	52.10 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	636575	50.32 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.50	43	33883	17.09 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092518.D Vial: 18
Acq On : 25 Sep 2008 5:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-03A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 17:36 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 5:15 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092518.D
Name: ,SAMP,ME0809B07-03A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
DIMETHYLAMINE-D1	1.81	9.1	ug/L	851939	ISTD01	6.95	4682920	50.0

C092518.D VOA0815.M Wed Oct 15 13:33:00 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092518.D Vial: 18
Acq On : 25 Sep 2008 5:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-03A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

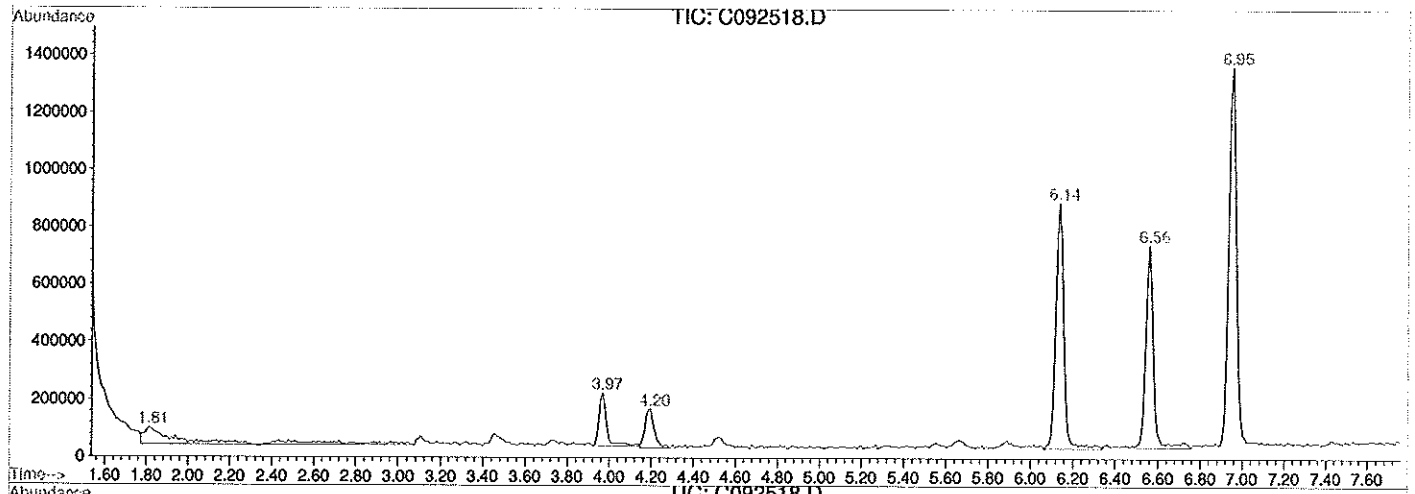
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.813	25	29	157	rVB	59100	851939	11.78%	2.582%
2	3.969	243	248	266	rVV	184958	483466	6.68%	1.465%
3	4.196	266	271	281	rVB2	135288	421436	5.83%	1.277%
4	6.136	461	468	489	rBV	855218	2227265	30.79%	6.749%
5	6.559	504	511	531	rVB	703635	1745303	24.13%	5.289%
6	6.953	545	551	653	rVV	1328274	4682916	64.74%	14.191%
7	9.060	653	765	767	rVV6	120436	4643981	64.20%	14.073%
8	9.149	767	774	814	rVV	1466502	7233901	100.00%	21.921%
9	11.394	994	1002	1020	rBV	1262547	3679253	50.86%	11.149%
10	13.353	1193	1201	1241	rVB	949178	3544298	49.00%	10.740%
11	15.195	1382	1388	1404	rBV	1212820	3119392	43.12%	9.453%
12	19.596	1778	1835	1837	rBV	16624	366444	5.07%	1.110%

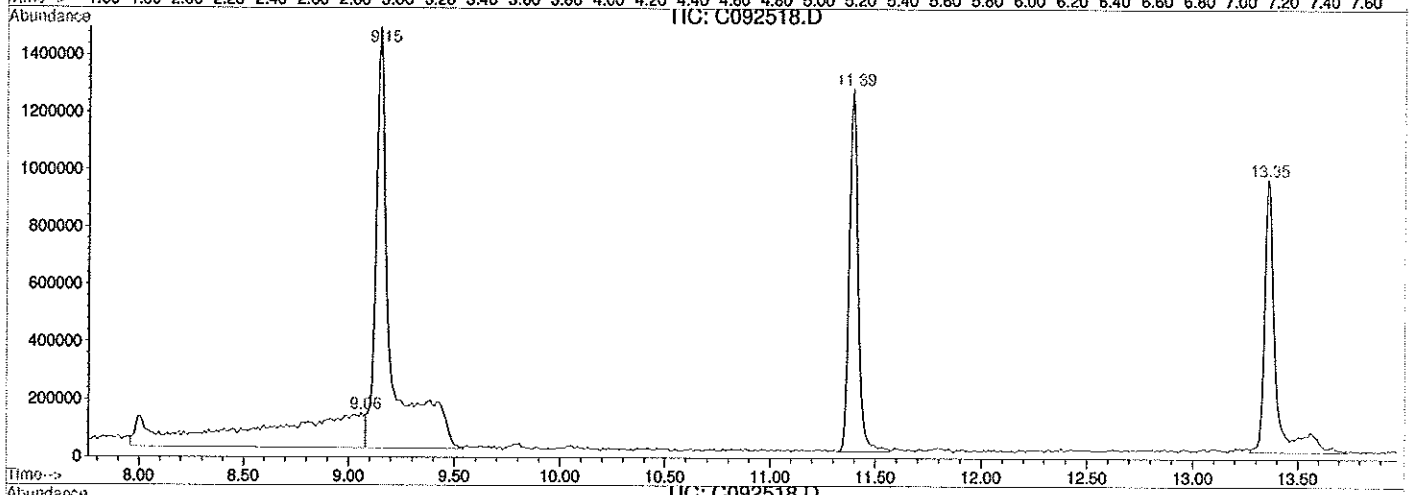
Sum of corrected areas: 32999594

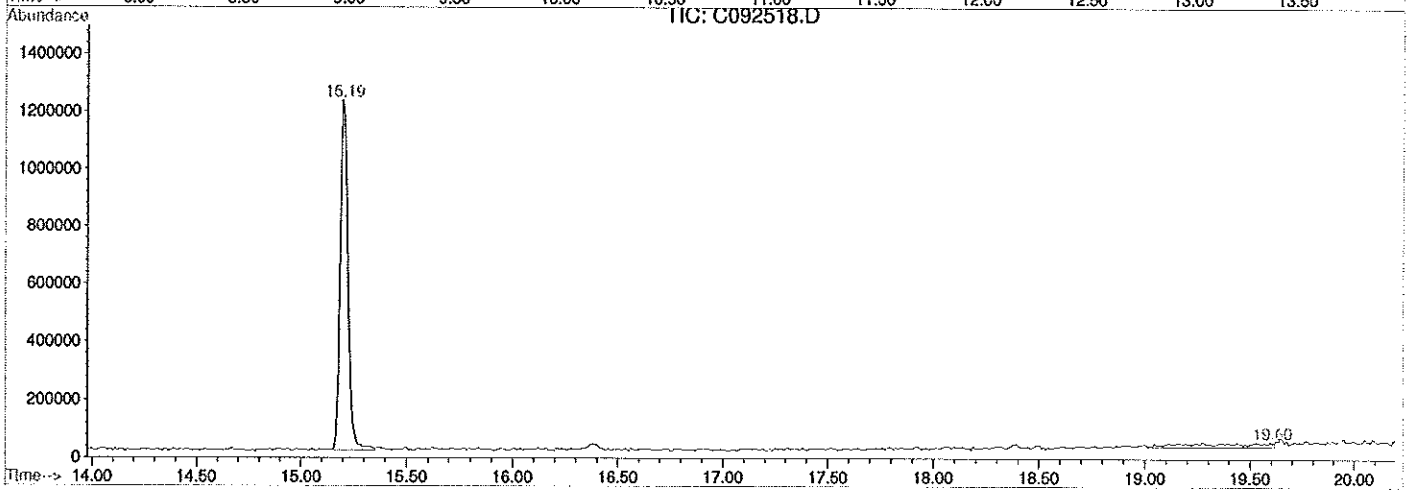
C092518.D VOA0815.M Wed Oct 15 13:32:46 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092518.D
Operator : MT
Acquired : 25 Sep 2008 5:15 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-03A,1,
Misc Info : 8260+_W
Vial Number: 18
Quant File :VOA0815.RES (RTE Integrator)







C092518.D VOA0815.M Wed Oct 15 13:32:53 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092518.D
Acq On : 25 Sep 2008 5:15 pm
Sample : ,SAMP,ME0809B07-03A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 18
Operator: MT
Inst : VOA #3
Multiplr: 1.00

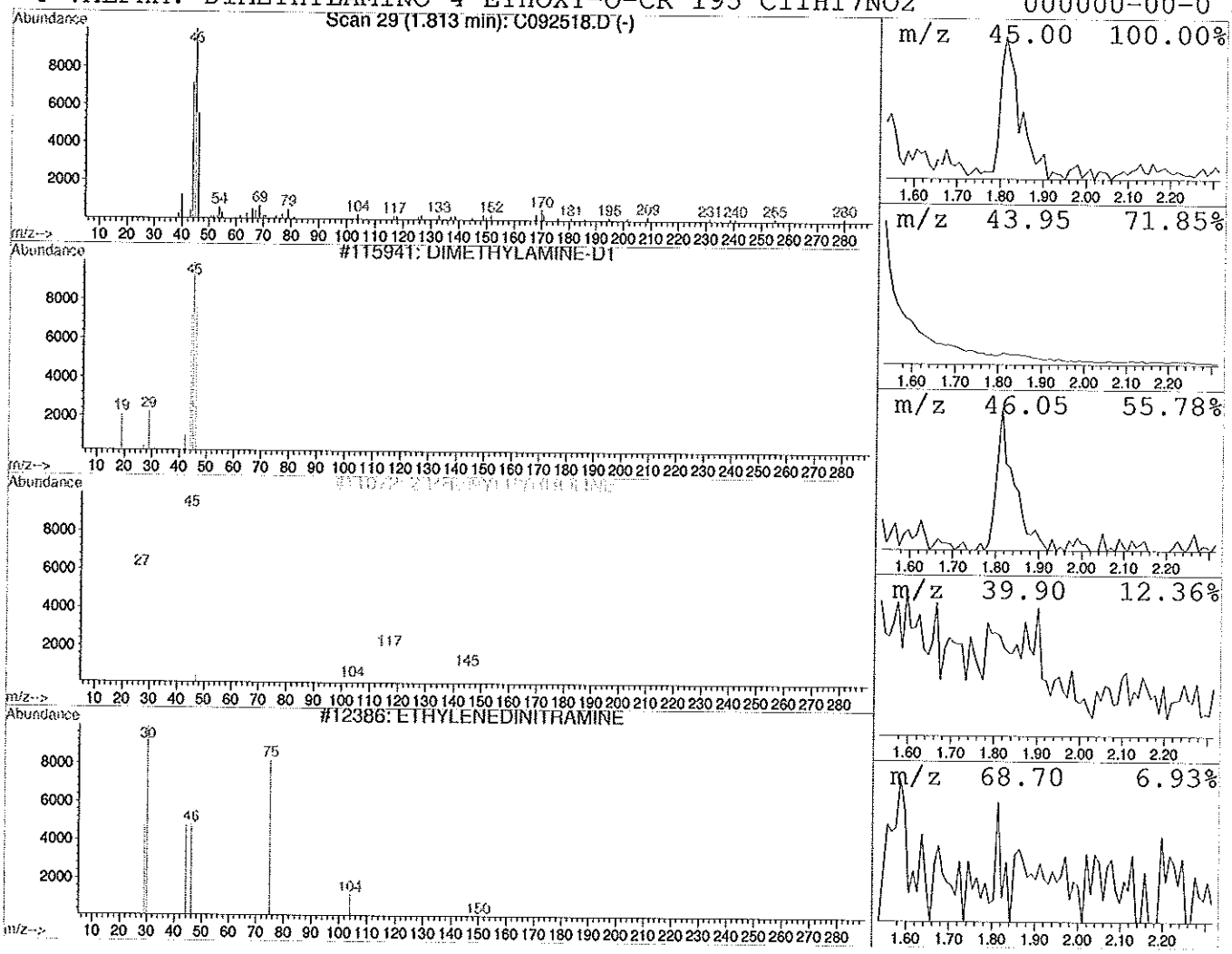
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 DIMETHYLAMINE-D1 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.81	9.10 ug/L	851939	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	DIMETHYLAMINE-D1	45	C2H6DN	000917-72-6	56
2	2-PHENYLPYRROLINE	145	C10H11N	000700-91-4	9
3	ETHYLENEDINITRAMINE	150	C2H6N4O4	000505-71-5	7
4	.ALPHA.-DIMETHYLAMINO-4-ETHOXY-O-CR	195	C11H17NO2	000000-00-0	5



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092519.D Vial: 19
Acq On : 25 Sep 2008 5:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-04A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 18:56 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

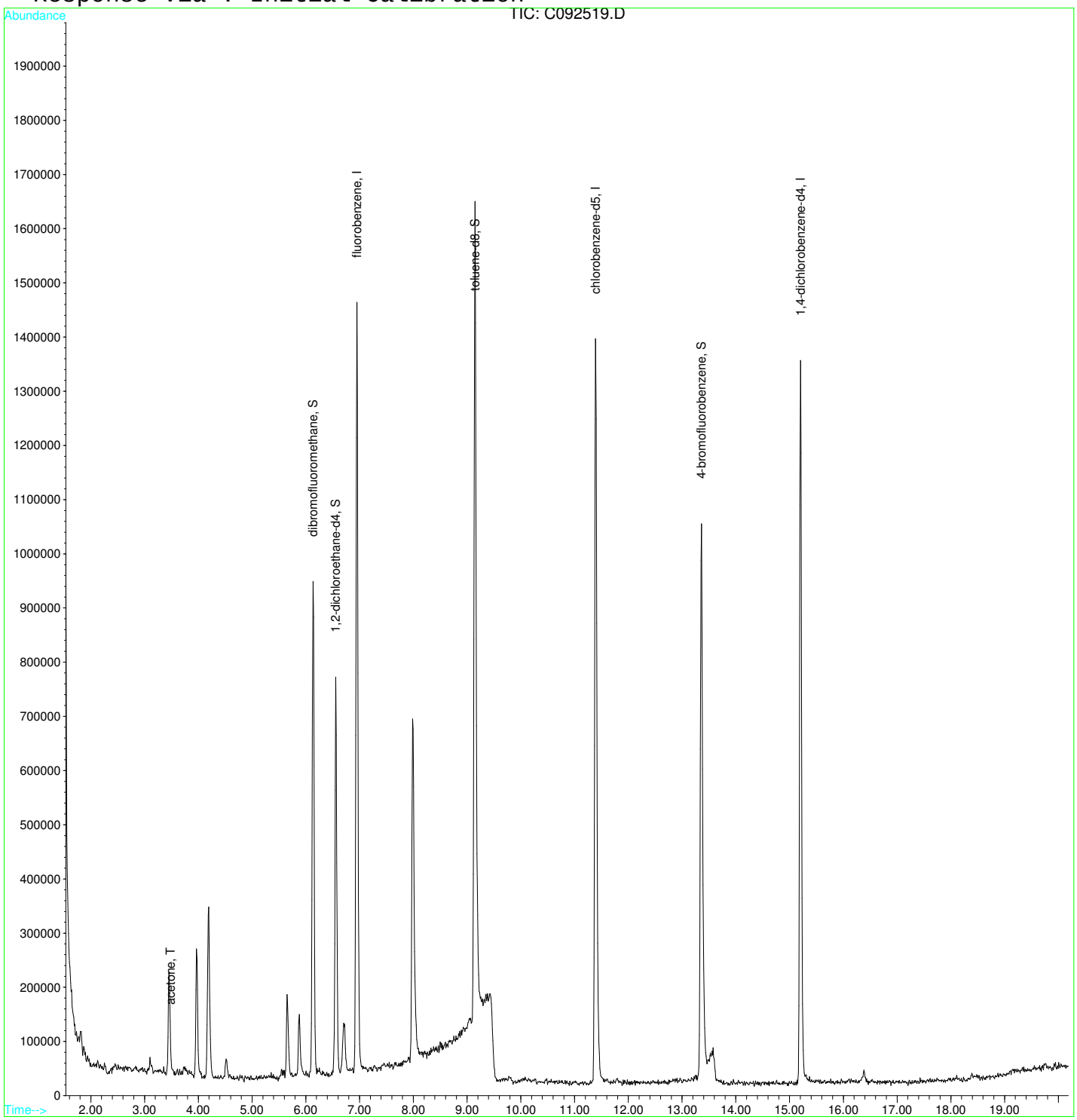
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1727522	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1277579	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	541349	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	728976	54.87 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	646138	52.20 ug/L	0.00
44) toluene-d8	9.15	98	1622596	53.37 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	682900	50.98 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.49	43	27464	12.88 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092519.D Vial: 19
Acq On : 25 Sep 2008 5:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-04A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 18:56 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 5:46 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092519.D
Name: ,SAMP,ME0809B07-04A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Thietane, 3-methyl-	1.81	12.3	ug/L	1317060	ISTD01	6.95	5344700	50.0
2-Propanol, 2-methyl	4.19	8.8	ug/L	945955	ISTD01	6.95	5344700	50.0
Acetamide	6.70	5.7	ug/L	603977	ISTD01	6.95	5344700	50.0
1,4-Dioxane	7.98	62.5	ug/L	6676230	ISTD01	6.95	5344700	50.0

C092519.D VOA0815.M Wed Oct 15 13:33:48 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092519.D Vial: 19
Acq On : 25 Sep 2008 5:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-04A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

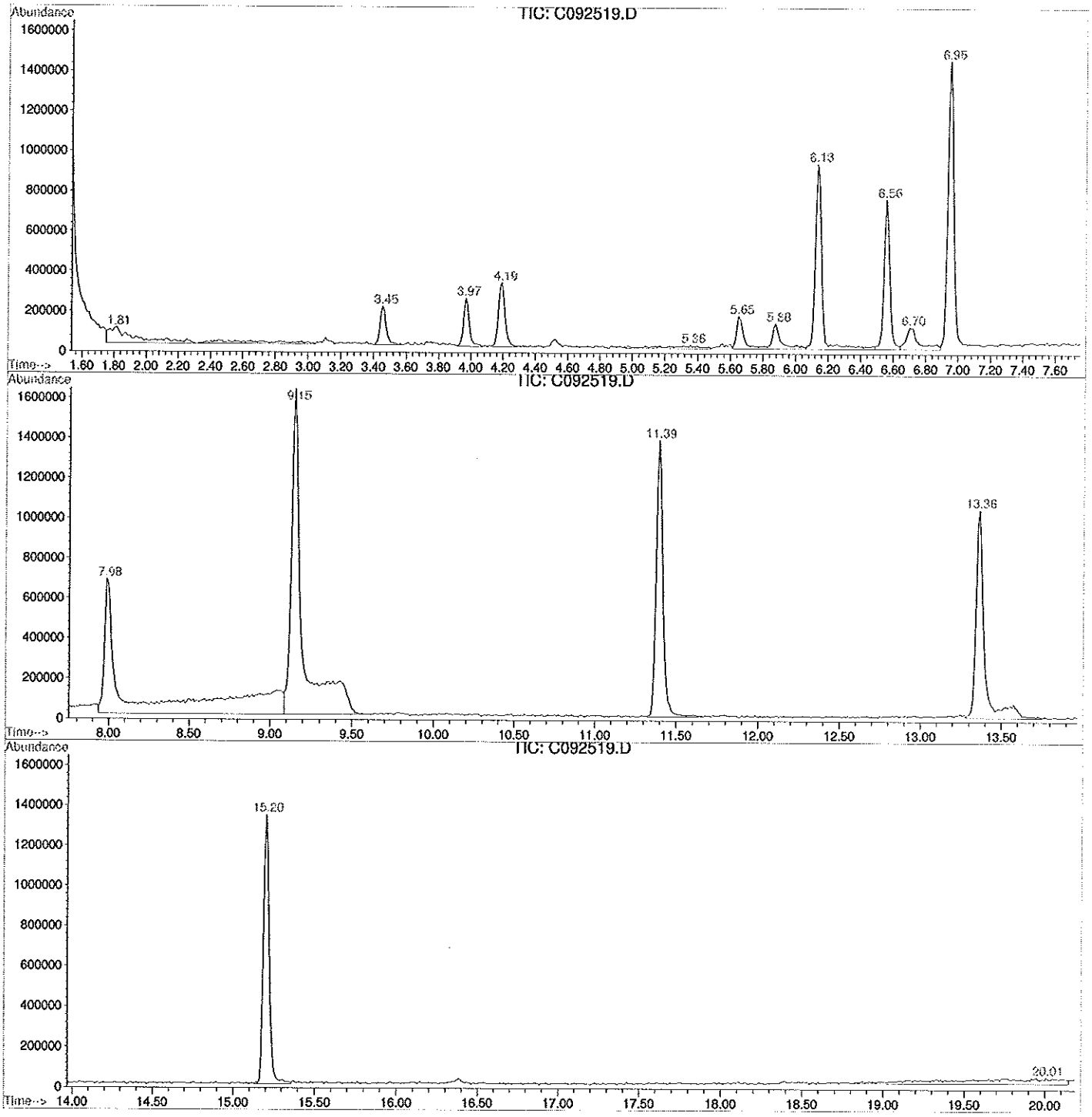
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.810	23	29	154	rVB2	78832	1317063	17.28%	3.151%
2	3.455	191	196	209	rBV	189945	495907	6.51%	1.186%
3	3.967	243	248	264	rVV	238918	596095	7.82%	1.426%
4	4.193	264	271	298	rVV	317826	945955	12.41%	2.263%
5	5.355	349	389	402	rVV	17087	250104	3.28%	0.598%
6	5.651	415	419	437	rVV	161484	530843	6.97%	1.270%
7	5.877	437	442	461	rVV	124683	468285	6.14%	1.120%
8	6.133	461	468	504	rVV2	923833	2628066	34.49%	6.288%
9	6.557	504	511	520	rVV	747255	1859753	24.40%	4.450%
10	6.704	520	526	545	rVV5	108553	603977	7.93%	1.445%
11	6.950	545	551	651	rVV	1439000	5344701	70.13%	12.787%
12	7.984	651	656	768	rVV	669889	6676227	87.60%	15.973%
13	9.146	768	774	822	rVB	1625251	7620888	100.00%	18.233%
14	11.391	994	1002	1030	rVB	1375723	3981329	52.24%	9.525%
15	13.361	1194	1202	1242	rVB	1034156	3761610	49.36%	9.000%
16	15.202	1382	1389	1405	rBV	1337173	3394872	44.55%	8.122%
17	20.007	1756	1877	1891	rBV	30134	1320863	17.33%	3.160%

Sum of corrected areas: 41796538

C092519.D VOA0815.M Wed Oct 15 13:33:23 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092519.D
Operator : MT
Acquired : 25 Sep 2008 5:46 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-04A,1,
Misc Info : 8260+_W
Vial Number: 19
Quant File :VOA0815.RES (RTE Integrator)



C092519.D VOA0815.M Wed Oct 15 13:33:30 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092519.D Vial: 19
Acq On : 25 Sep 2008 5:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-04A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

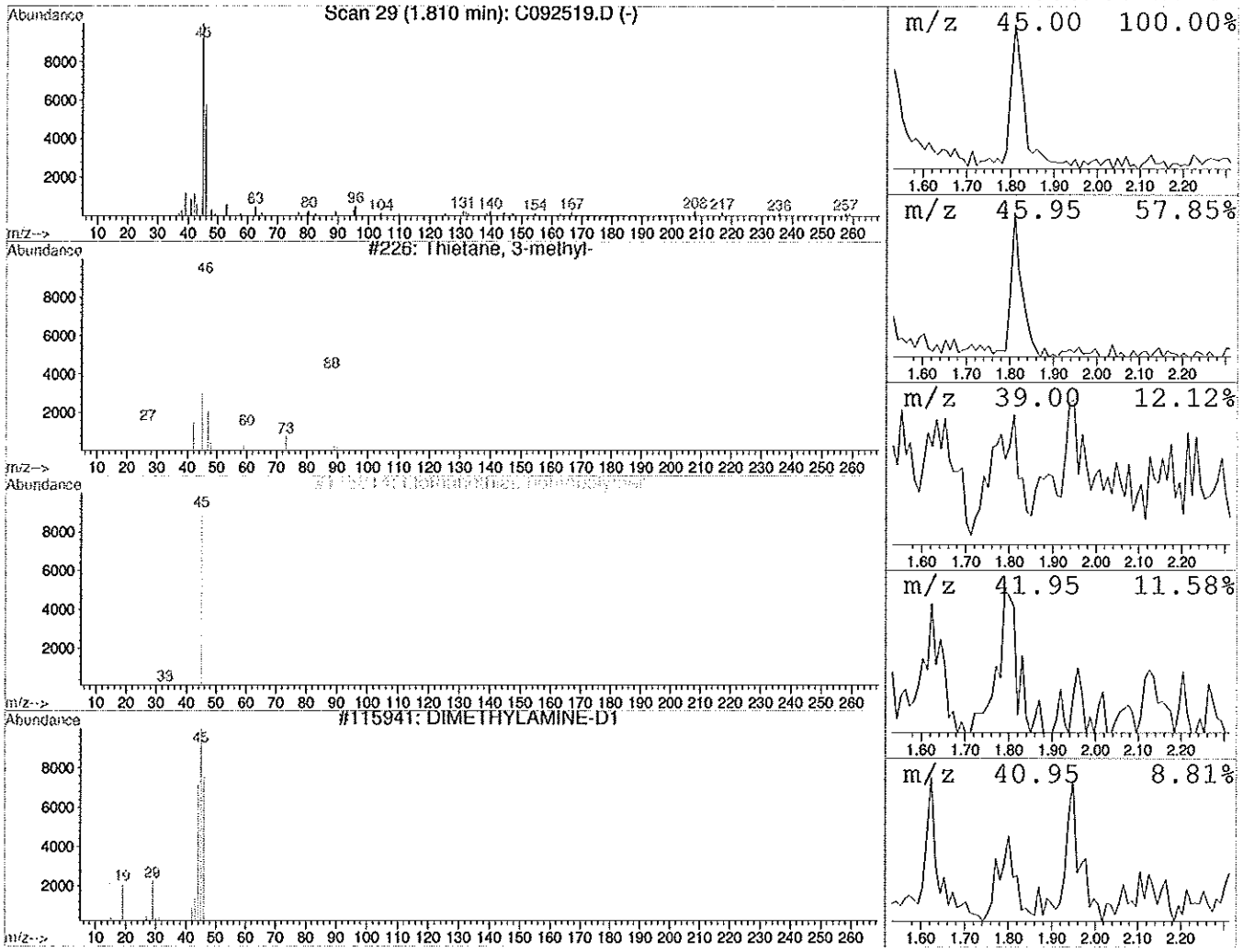
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Thietane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.81	12.32 ug/L	1317060	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thietane, 3-methyl-	88	C4H8S	022438-40-0	12
2	Methanethial, homopolymer	46	CH2S	030699-99-1	9
3	DIMETHYLAMINE-D1	45	C2H6DN	000917-72-6	9
4	Thietane	74	C3H6S	000287-27-4	9



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092519.D Vial: 19
Acq On : 25 Sep 2008 5:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-04A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

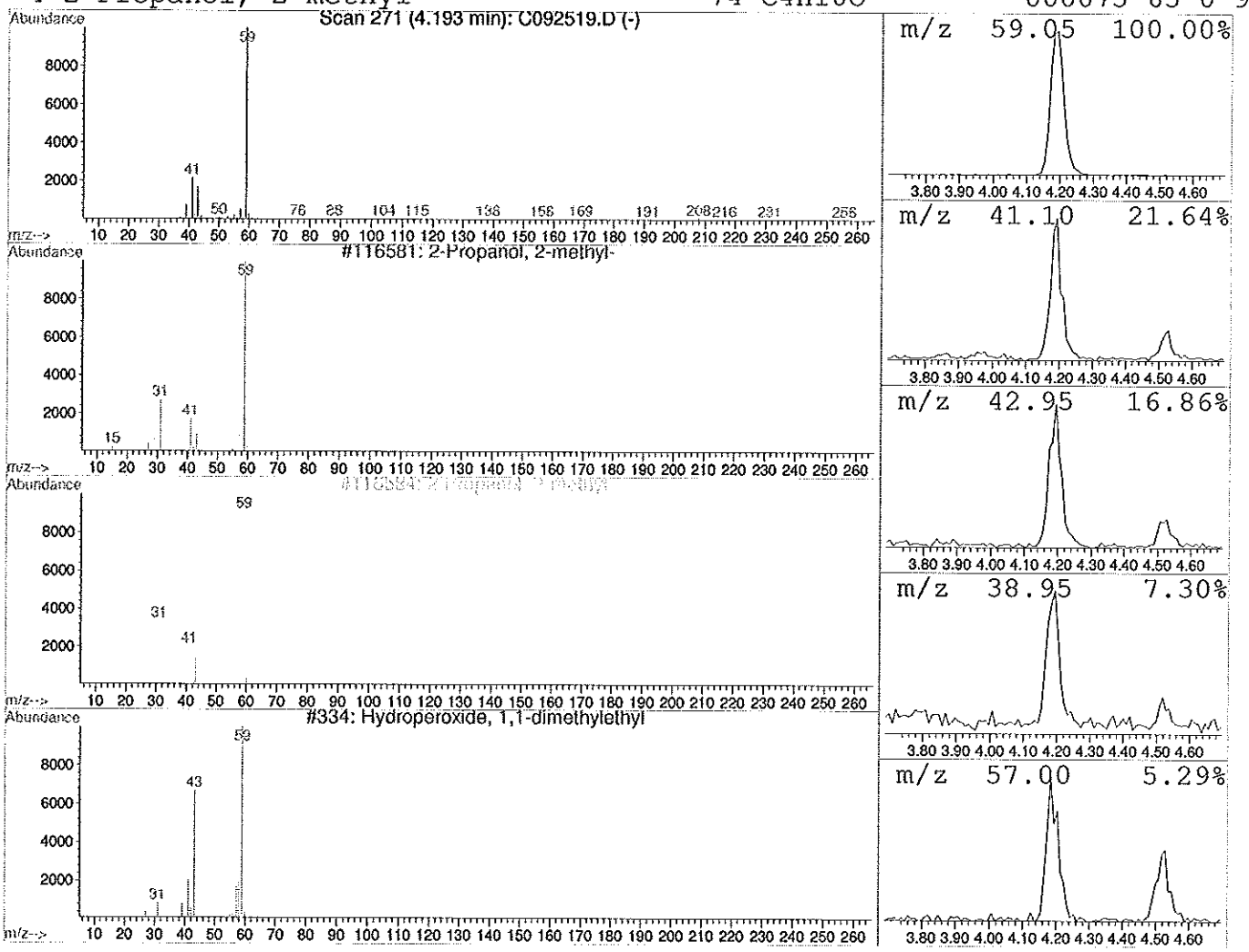
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 2-Propanol, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.19	8.85 ug/L	945955	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	45
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	9
3	Hydroperoxide, 1,1-dimethylethyl	90	C4H10O2	000075-91-2	9
4	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	9



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092519.D Vial: 19
Acq On : 25 Sep 2008 5:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-04A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

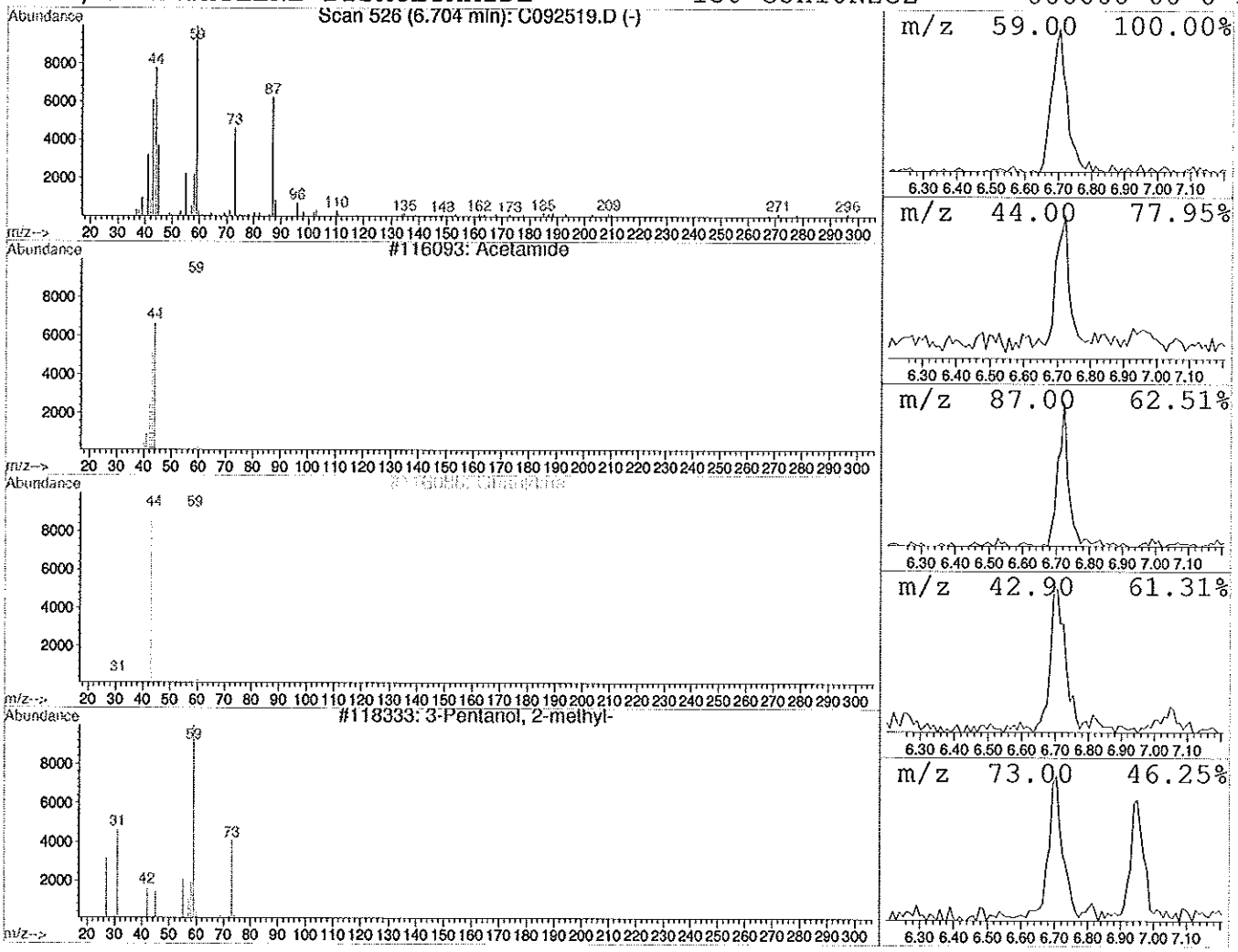
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 3 Acetamide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.70	5.65 ug/L	603977	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide	59	C2H5NO	000060-35-5	47
2	Guanidine	59	CH5N3	000113-00-8	38
3	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	35
4	N,N'-METHYLENE BISACETAMIDE	130	C5H10N2O2	000000-00-0	33



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092519.D
Acq On : 25 Sep 2008 5:46 pm
Sample : ,SAMP,ME0809B07-04A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 19
Operator: MT
Inst : VOA #3
Multiplr: 1.00

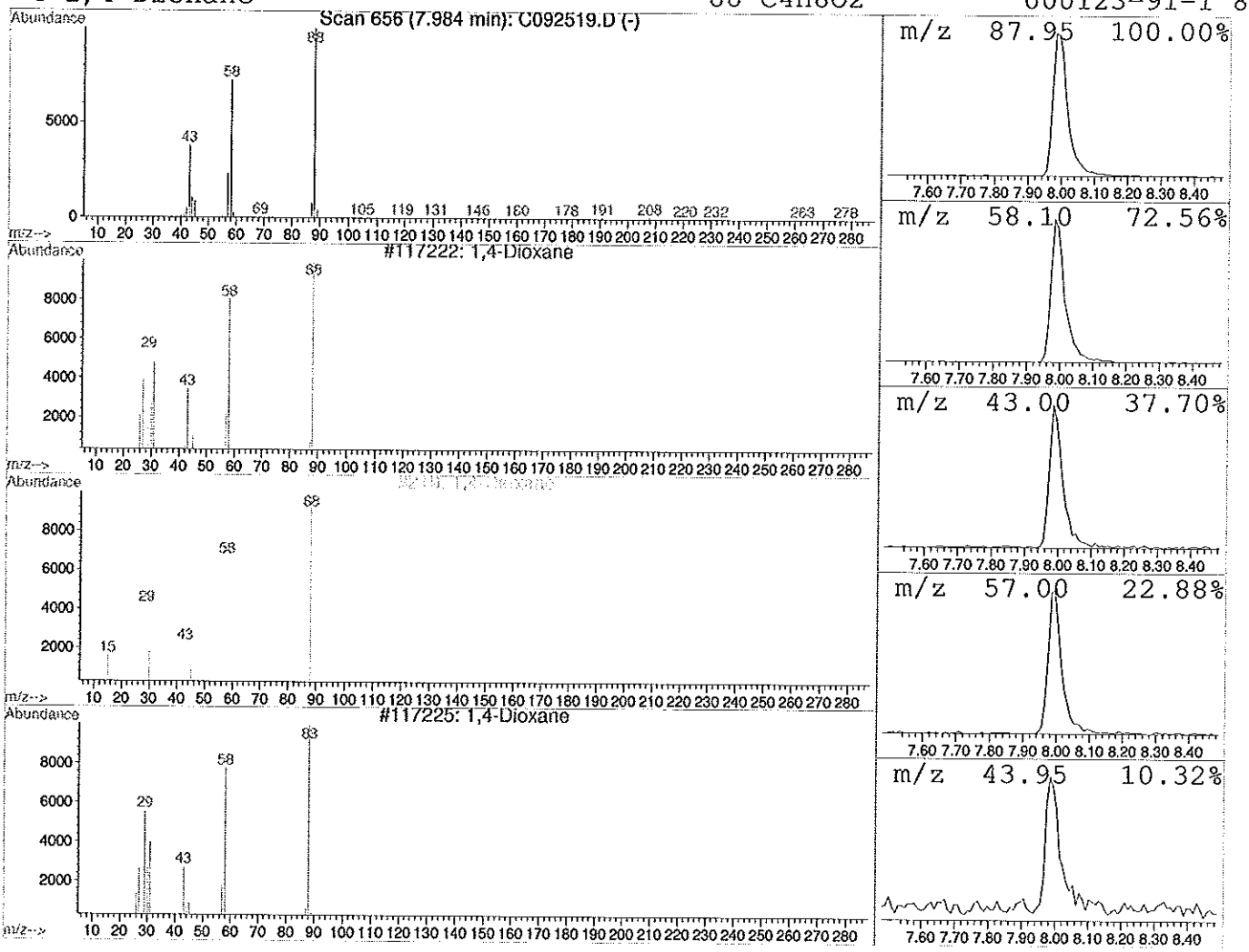
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 4 1,4-Dioxane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.98	62.46 ug/L	6676230	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dioxane	88	C4H8O2	000123-91-1	91
2	1,4-Dioxane	88	C4H8O2	000123-91-1	90
3	1,4-Dioxane	88	C4H8O2	000123-91-1	90
4	1,4-Dioxane	88	C4H8O2	000123-91-1	83



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:24 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

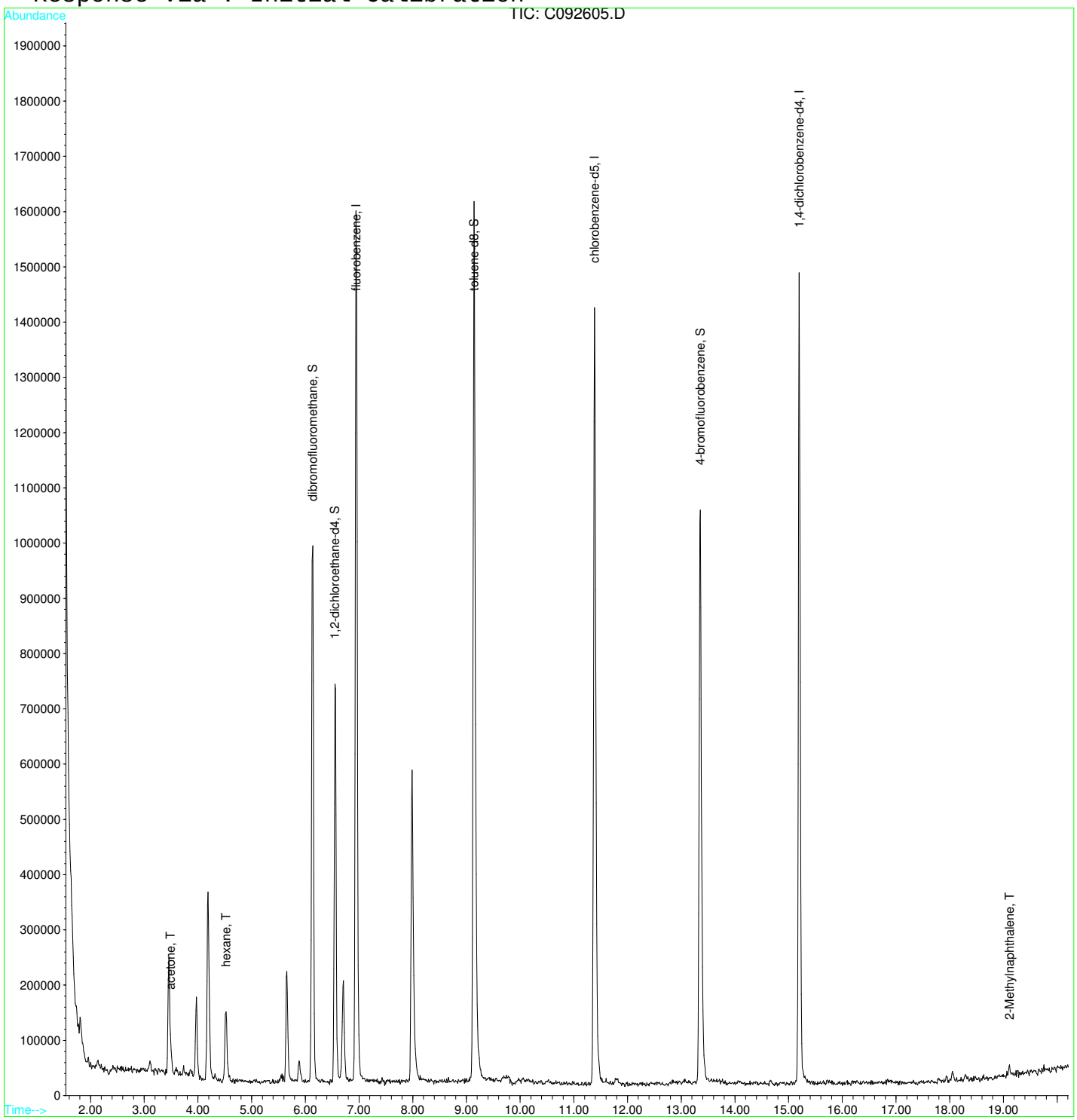
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.94	96	1984738	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1427371	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	589745	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	781966	51.23 ug/L	0.00
30) 1,2-dichloroethane-d4	6.55	65	652873	45.91 ug/L	0.00
44) toluene-d8	9.14	98	1791196	52.73 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	743509	49.68 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.50	43	69512	28.37 ug/L	98
18) hexane	4.53	57	87387	3.69 ug/L	82
85) 2-Methylnaphthalene	19.11	142	8961	1.21 ug/L #	75

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:24 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: NLT Date Acquired: 26 Sep 2008 9:01 am
Data File: C:\HPCHEM\3\DATA\C092608\C092605.D
Name: ,SAMP,ME0809B07-05A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethanol	1.80	9.1	ug/L	752285	ISTD01	6.94	4133410	50.0
2-Propanol, 2-methyl	4.19	12.0	ug/L	992556	ISTD01	6.94	4133410	50.0
1,3-Dioxolane, 4-met	6.71	6.7	ug/L	553477	ISTD01	6.94	4133410	50.0
1,4-Dioxane	7.99	21.0	ug/L	1734990	ISTD01	6.94	4133410	50.0

C092605.D VOA0815.M Wed Oct 15 14:09:37 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

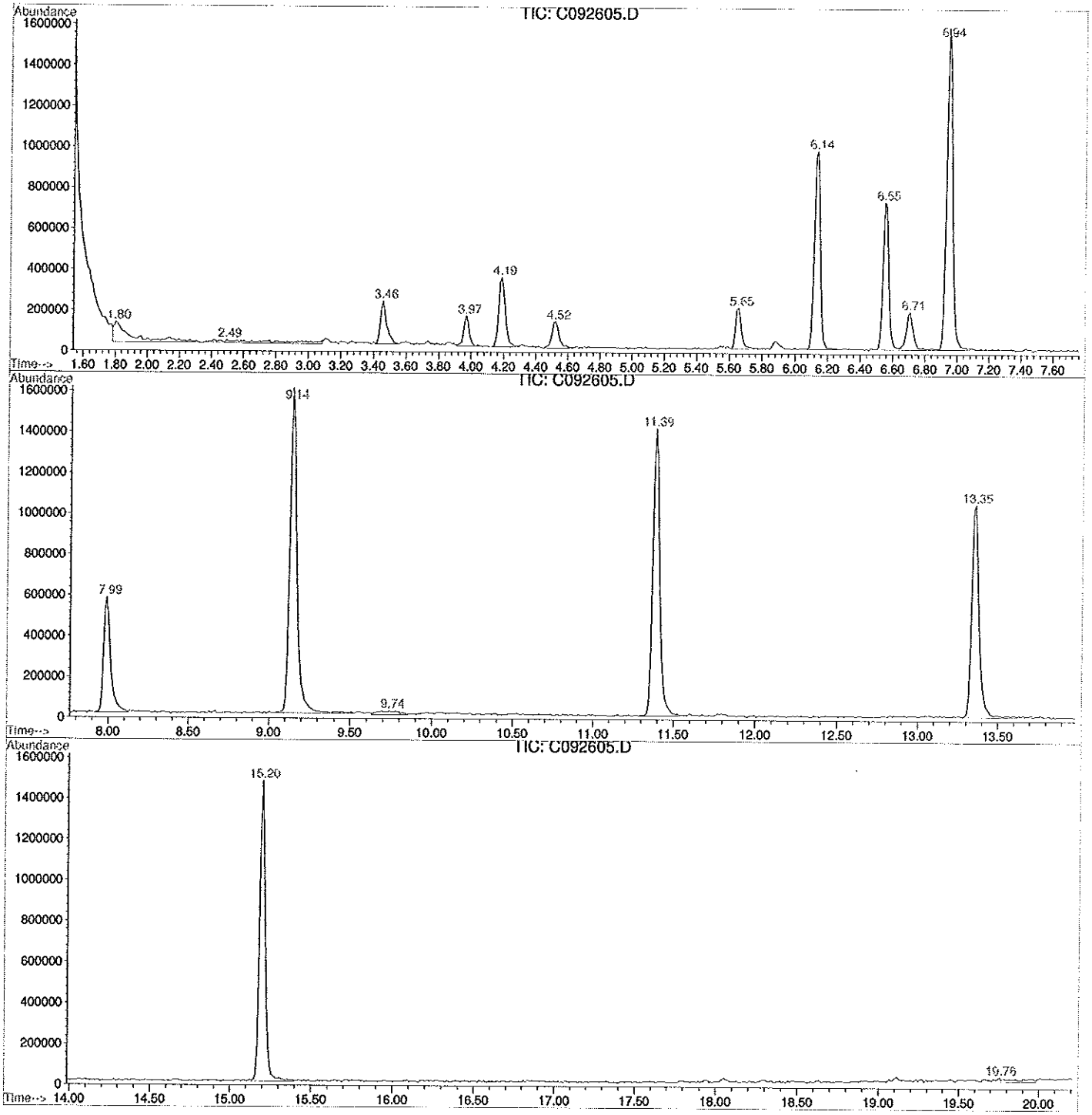
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.805	26	28	97	rVB5	100084	752285	15.50%	2.418%
2	2.494	97	98	158	rVV5	15710	315987	6.51%	1.016%
3	3.459	191	196	206	rVB2	211735	561609	11.57%	1.805%
4	3.971	242	248	264	rVB	149570	373367	7.69%	1.200%
5	4.188	264	270	281	rVV	341792	992556	20.46%	3.191%
6	4.522	296	304	315	rBV2	128729	409978	8.45%	1.318%
7	5.655	415	419	439	rVV	202101	544471	11.22%	1.750%
8	6.137	462	468	483	rVB	971260	2492758	51.37%	8.013%
9	6.551	503	510	519	rBV	721306	1825754	37.63%	5.869%
10	6.708	519	526	543	rVV2	183731	553477	11.41%	1.779%
11	6.945	543	550	584	rVB	1576825	4133410	85.19%	13.287%
12	7.989	648	656	670	rBV	564433	1734986	35.76%	5.577%
13	9.141	762	773	812	rVB	1593447	4852266	100.00%	15.597%
14	9.741	823	834	845	rVB	18888	160080	3.30%	0.515%
15	11.386	991	1001	1021	rBV	1407720	4214927	86.87%	13.549%
16	13.355	1193	1201	1239	rVB	1038818	3357523	69.19%	10.793%
17	15.196	1379	1388	1409	rBV	1469521	3620076	74.61%	11.637%
18	19.755	1839	1851	1874	rBV	18982	213876	4.41%	0.687%

Sum of corrected areas: 31109386

C092605.D VOA0815.M Wed Oct 15 14:09:02 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092608\C092605.D
Operator : NLT
Acquired : 26 Sep 2008 9:01 am using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-05A,1,
Misc Info : 8260+_W
Vial Number: 1
Quant File :VOA0815.RES (RTE Integrator)



C092605.D VOA0815.M Wed Oct 15 14:09:14 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

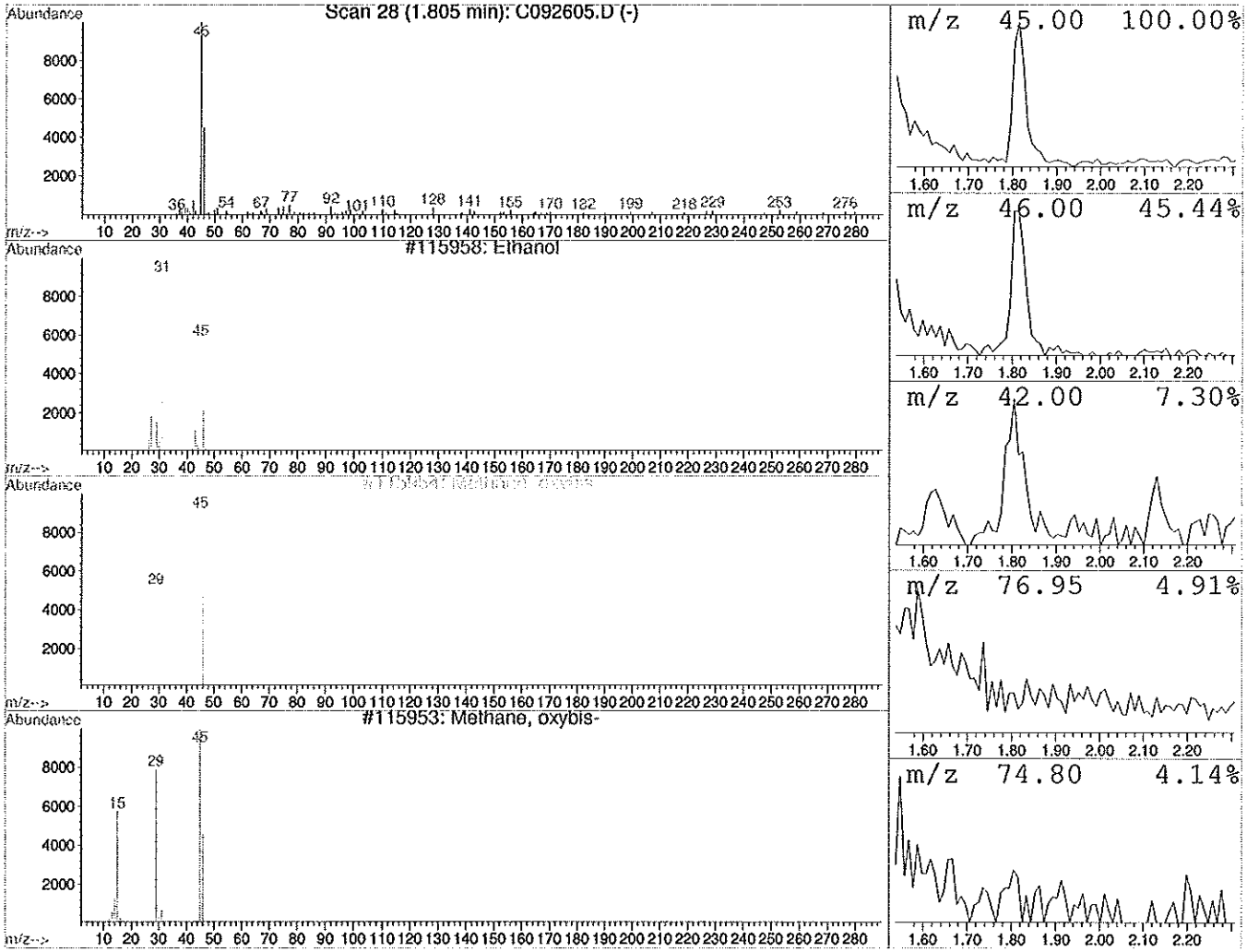
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Ethanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.80	9.10 ug/L	752285	fluorobenzene	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol	46	C2H6O	000064-17-5	9
2	Methane, oxybis-	46	C2H6O	000115-10-6	7
3	Methane, oxybis-	46	C2H6O	000115-10-6	7
4	Ethanol	46	C2H6O	000064-17-5	7



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

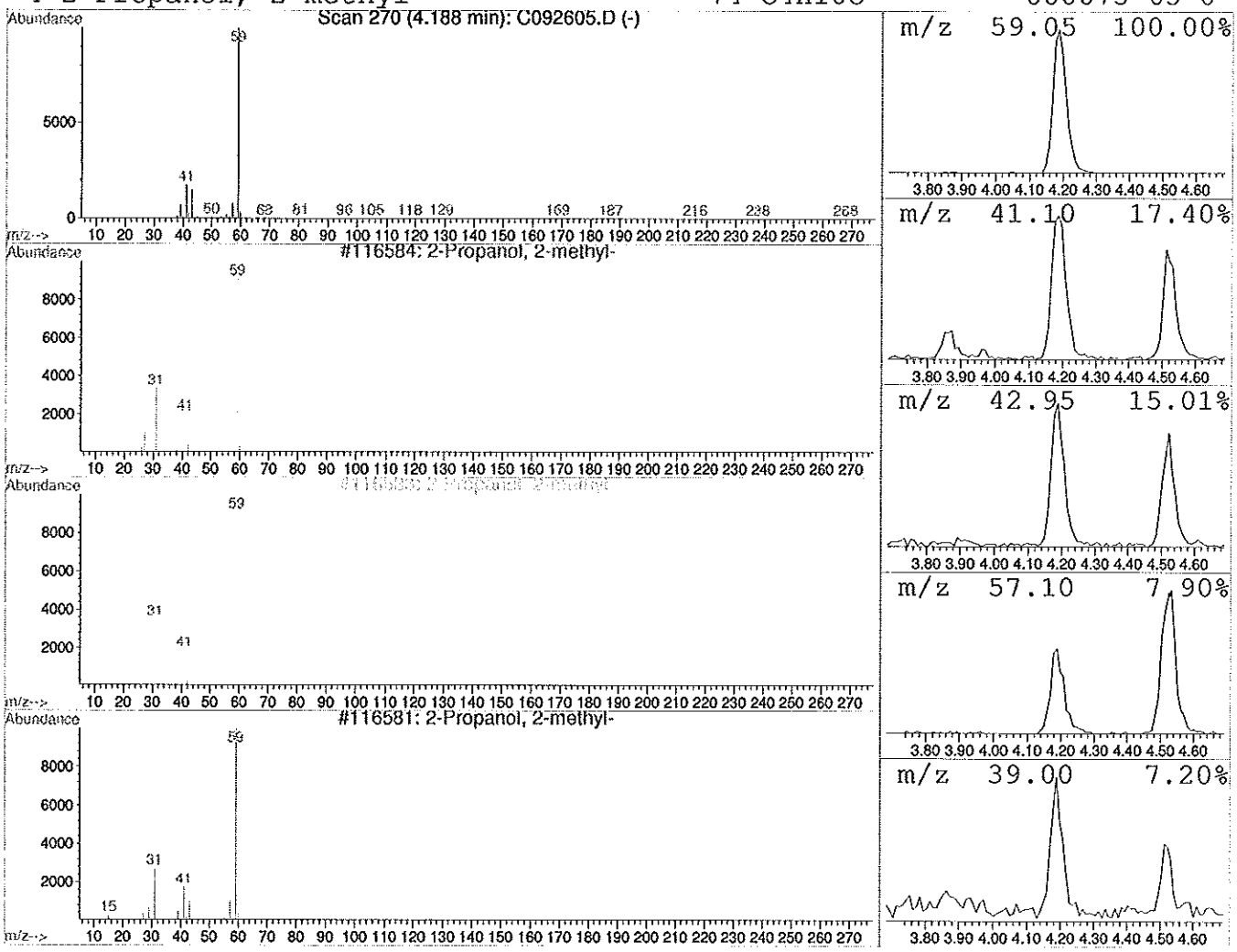
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 2-Propanol, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.19	12.01 ug/L	992556	fluorobenzene	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	72
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	72
3	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	64
4	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	40



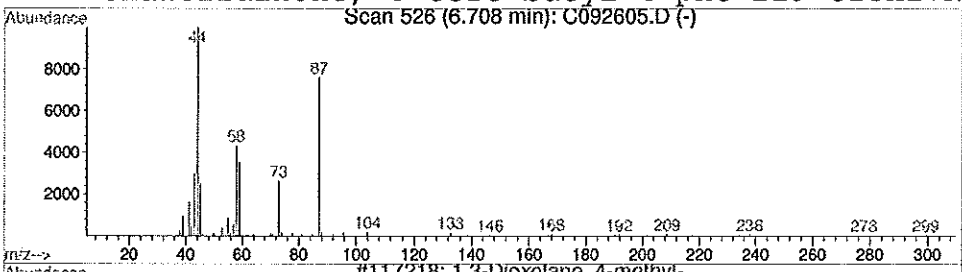
Library Search Compound Report

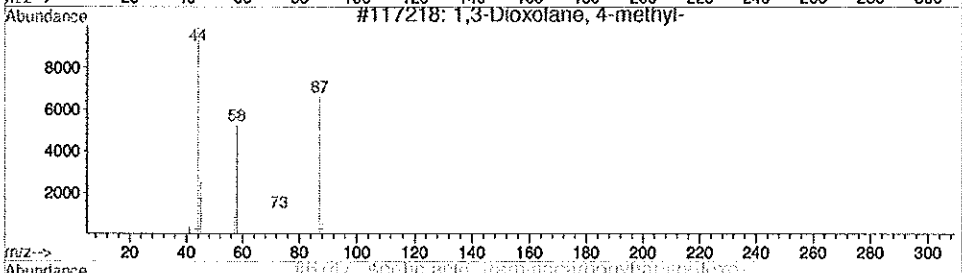
```
Data File : C:\HPCHEM\3\DATA\C092608\C092605.D          Vial: 1
Acq On    : 26 Sep 2008   9:01 am                    Operator: NLT
Sample    : ,SAMP,ME0809B07-05A,1,                   Inst    : VOA #3
Misc      : 8260+_W                                  Multiplr: 1.00
MS Integration Params: RTEINT.P

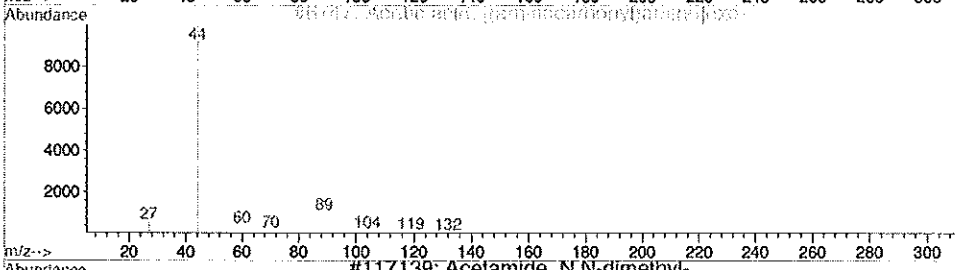
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title        : 8260 ICAL 8/15/08-Misc Included
Library      : C:\DATABASE\WILEY138.L
*****************************************************************
Peak Number  3  1,3-Dioxolane, 4-methyl-        Concentration Rank  4
```

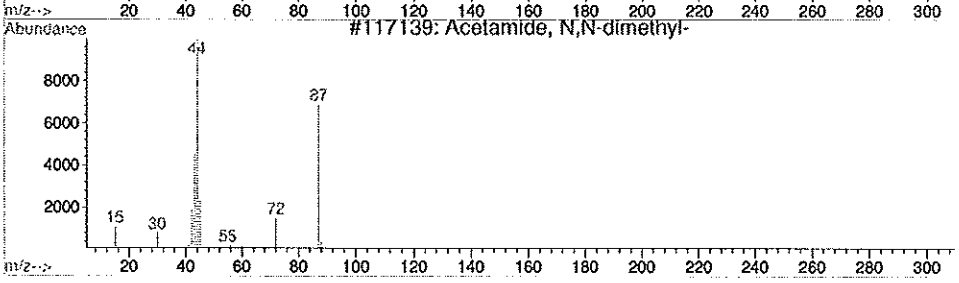
R.T.	EstConc	Area	Relative to ISTD	R.T.
6.71	6.70 ug/L	553477	fluorobenzene	6.94

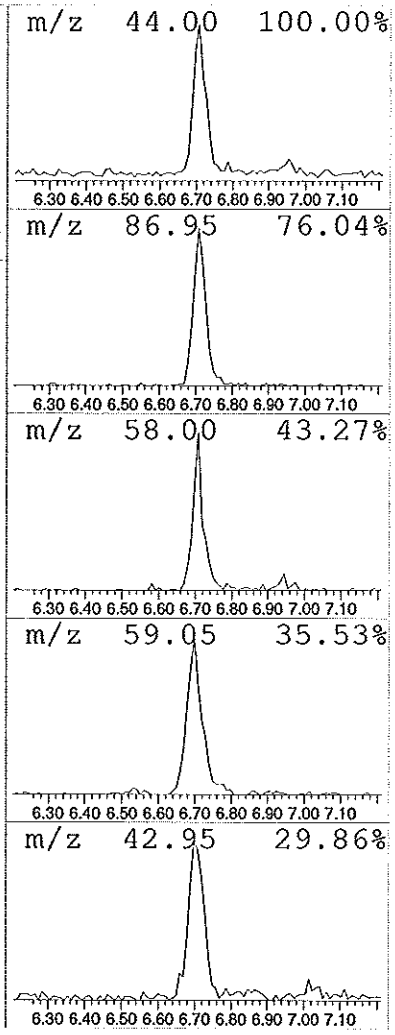
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 4-methyl-	88	C4H8O2	001072-47-5	56
2	Acetic acid, [(aminocarbonyl)amino]	132	C3H4N2O4	000585-05-7	12
3	Acetamide, N,N-dimethyl-	87	C4H9NO	000127-19-5	9
4	2-Oxazolidinone, 5-tert-butyl-4-phe	219	C13H17NO2	032461-29-3	9











Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092605.D Vial: 1
Acq On : 26 Sep 2008 9:01 am Operator: NLT
Sample : ,SAMP,ME0809B07-05A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

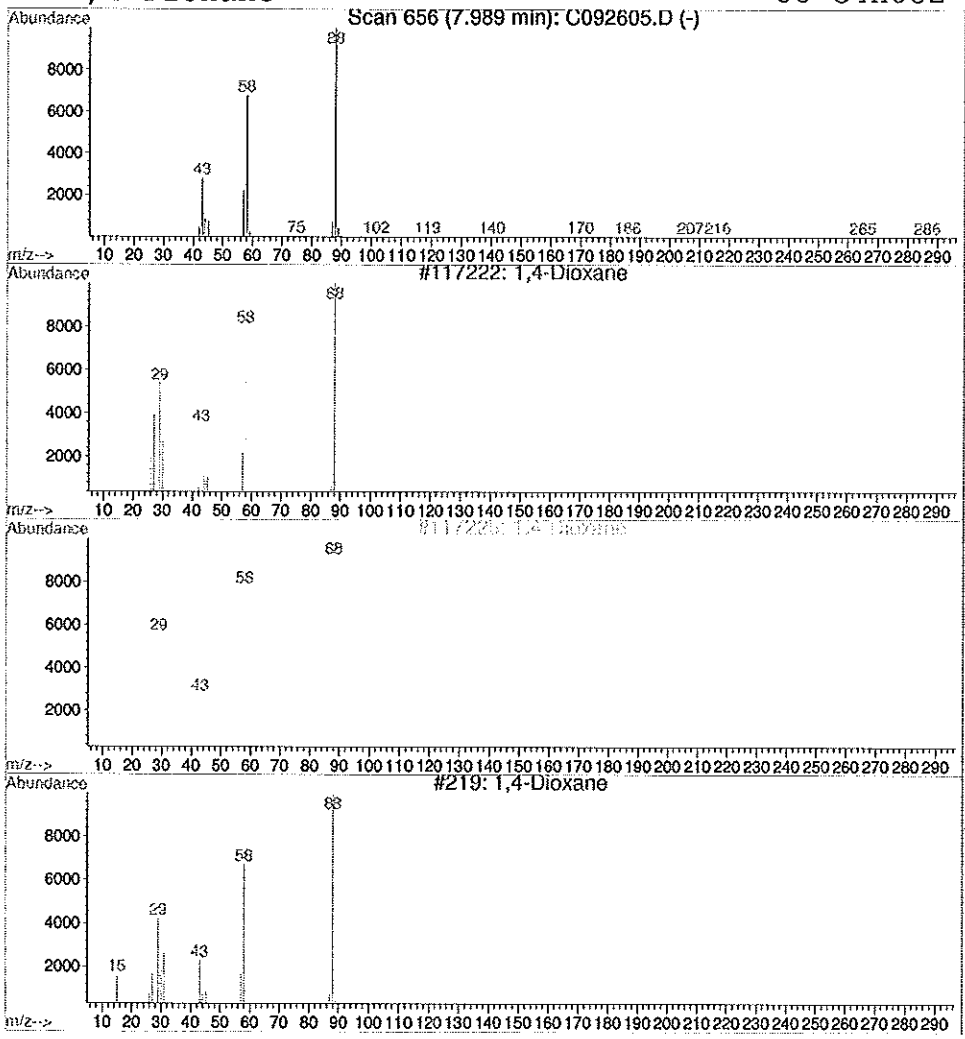
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

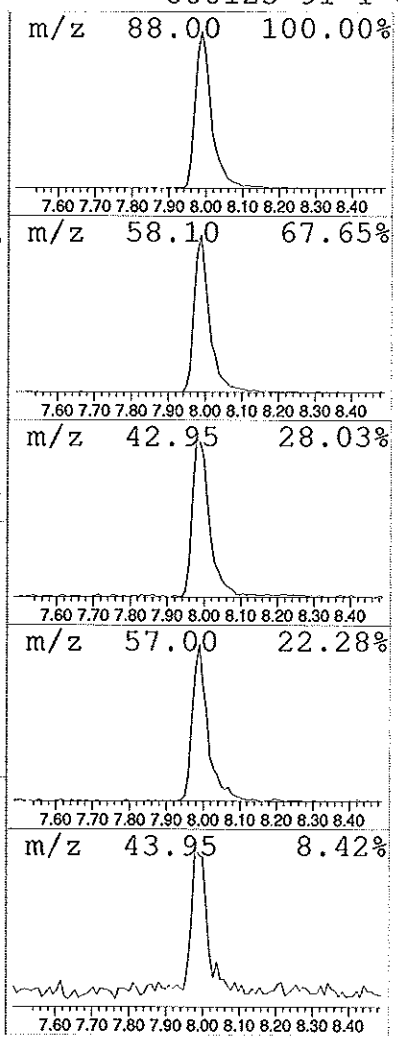
****

Peak Number 4 1,4-Dioxane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.99	20.99 ug/L	1734990	fluorobenzene	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dioxane	88	C4H8O2	000123-91-1	91
2	1,4-Dioxane	88	C4H8O2	000123-91-1	91
3	1,4-Dioxane	88	C4H8O2	000123-91-1	90
4	1,4-Dioxane	88	C4H8O2	000123-91-1	83





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092520.D Vial: 20
Acq On : 25 Sep 2008 6:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-06A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 18:57 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

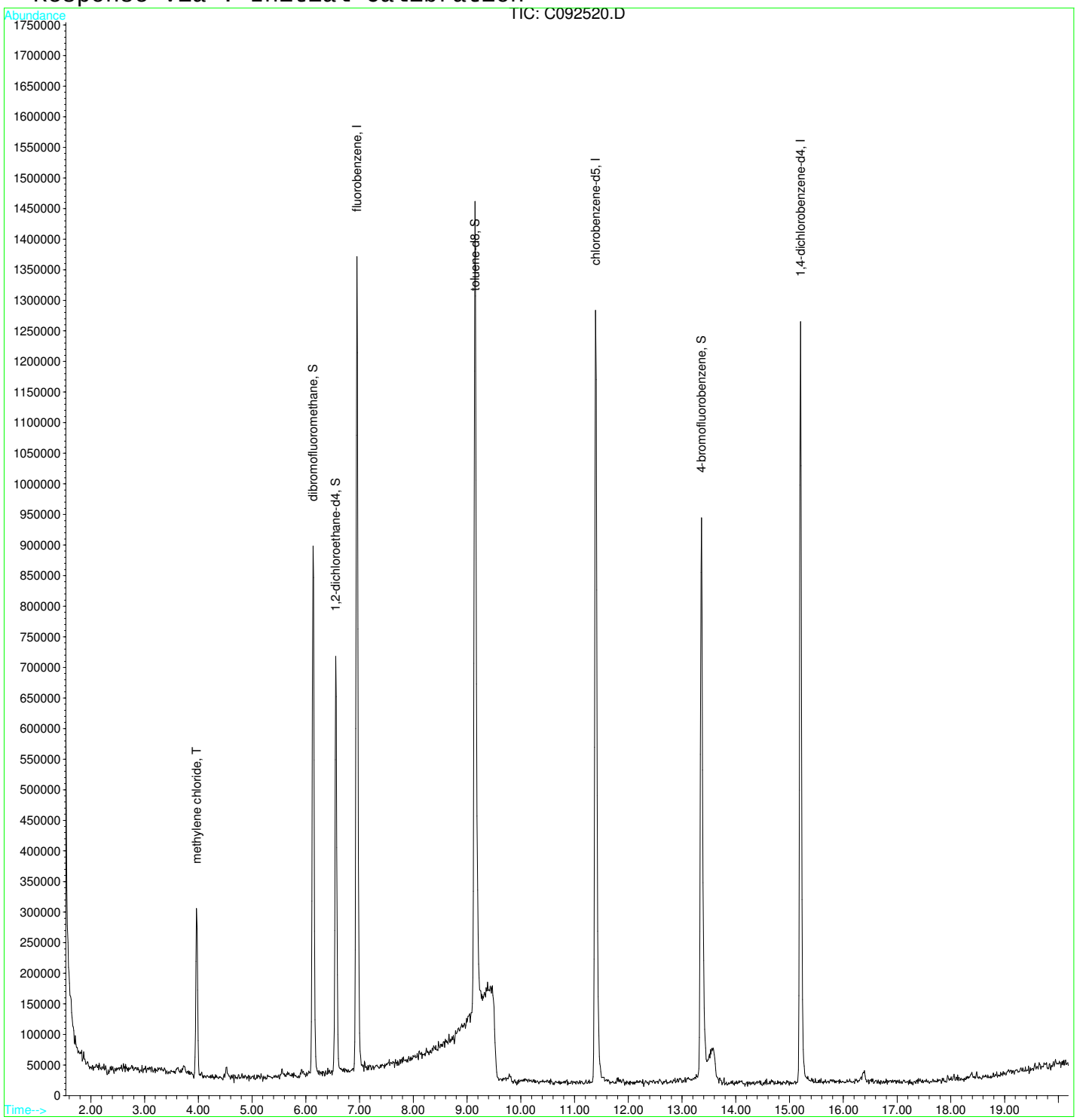
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1604024	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1173061	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	487172	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	672227	54.50 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	608872	52.97 ug/L	0.00
44) toluene-d8	9.15	98	1444650	51.75 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	611547	49.72 ug/L	0.00
Target Compounds					Qvalue
13) methylene chloride	3.97	84	143831	9.28 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092520.D Vial: 20
Acq On : 25 Sep 2008 6:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-06A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 25 18:57 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 6:15 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092520.D
Name: ,SAMP,ME0809B07-06A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Pyridinium, 1-(carbo	1.71	17.4	ug/L	1184350	ISTD01	6.95	3409340	50.0

C092520.D VOA0815.M Wed Oct 15 13:34:26 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092520.D Vial: 20
Acq On : 25 Sep 2008 6:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-06A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

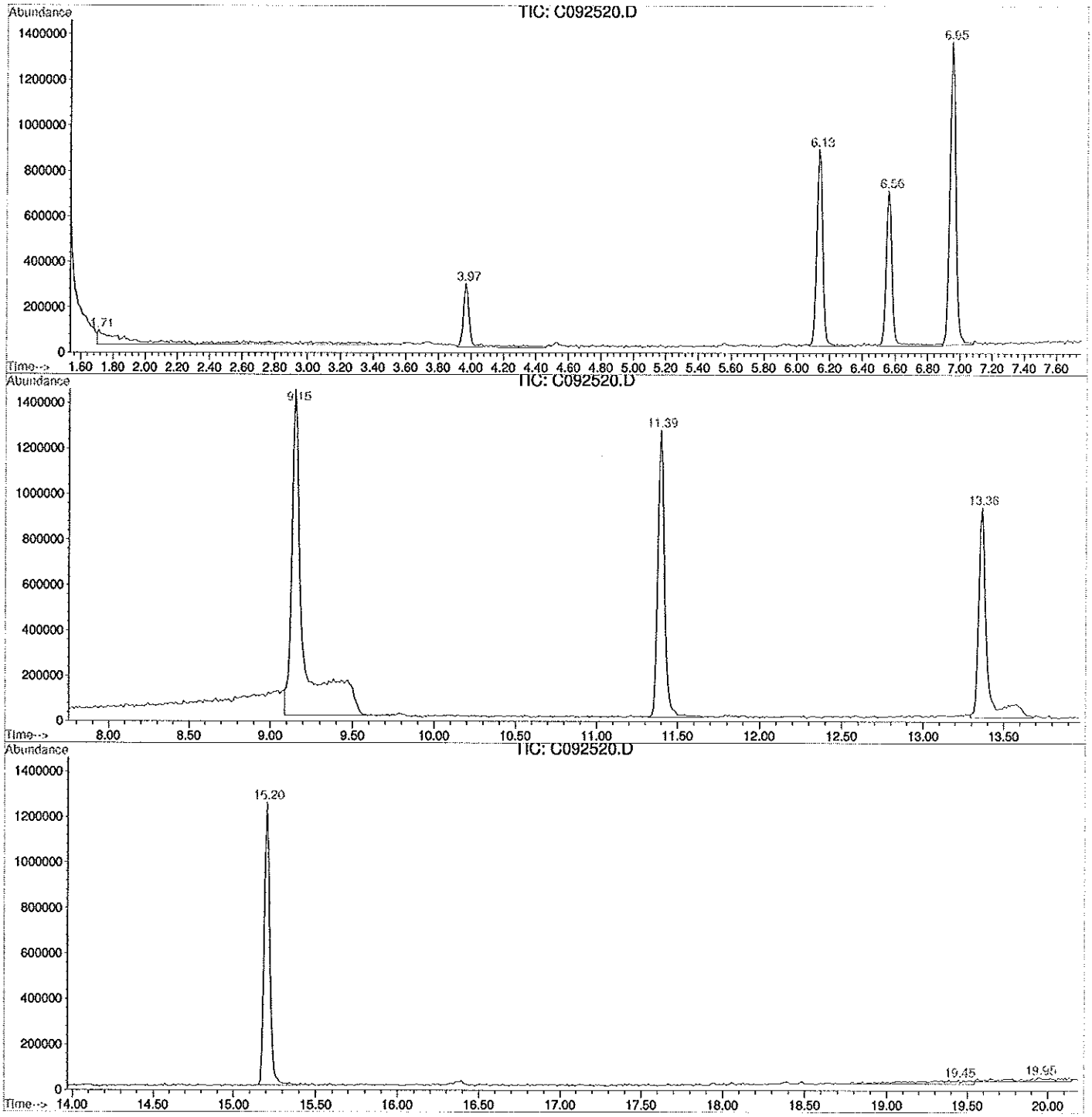
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.712	18	19	208	rVB2	62086	1184347	16.35%	4.332%
2	3.967	243	248	298	rVV	281368	836079	11.54%	3.058%
3	6.134	462	468	491	rVB	865272	2167336	29.92%	7.928%
4	6.557	504	511	545	rBV	684366	1793089	24.75%	6.559%
5	6.951	545	551	564	rVB	1331969	3409337	47.07%	12.471%
6	9.147	768	774	837	rVB	1434216	7243658	100.00%	26.497%
7	11.392	994	1002	1029	rVB	1264874	3678006	50.78%	13.454%
8	13.361	1195	1202	1235	rVB	923734	3355511	46.32%	12.274%
9	15.202	1383	1389	1416	rBV	1243695	3024540	41.75%	11.064%
10	19.446	1752	1820	1830	rBV	17711	374333	5.17%	1.369%
11	19.949	1830	1871	1891	rVV	15981	271524	3.75%	0.993%

Sum of corrected areas: 27337760

C092520.D VOA0815.M Wed Oct 15 13:34:11 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092520.D
Operator : MT
Acquired : 25 Sep 2008 6:15 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-06A,1,
Misc Info : 8260+_W
Vial Number: 20
Quant File :VOA0815.RES (RTE Integrator)



C092520.D VOA0815.M Wed Oct 15 13:34:19 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092520.D
Acq On : 25 Sep 2008 6:15 pm
Sample : ,SAMP,ME0809B07-06A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 20
Operator: MT
Inst : VOA #3
Multiplr: 1.00

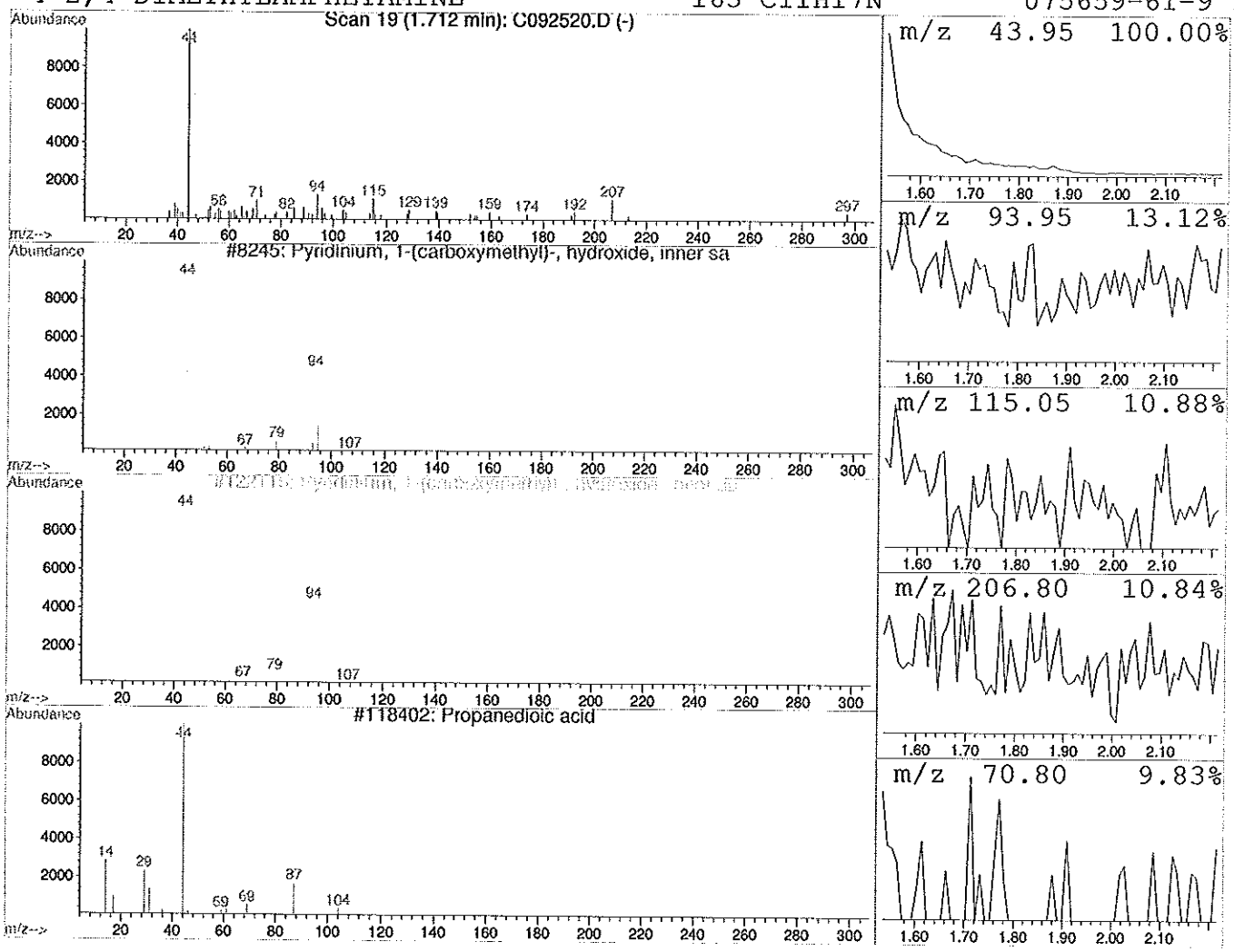
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Pyridinium, 1-(carboxymethyl)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.71	17.37 ug/L	1184350	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyridinium, 1-(carboxymethyl)-, hyd	137	C7H7NO2	024608-93-3	33
2	Pyridinium, 1-(carboxymethyl)-, hyd	137	C7H7NO2	024608-93-3	33
3	Propanedioic acid	104	C3H4O4	000141-82-2	9
4	2,4-DIMETHYLAMPHETAMINE	163	C11H17N	075659-61-9	9



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092521.D Vial: 21
Acq On : 25 Sep 2008 6:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-07A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:32 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

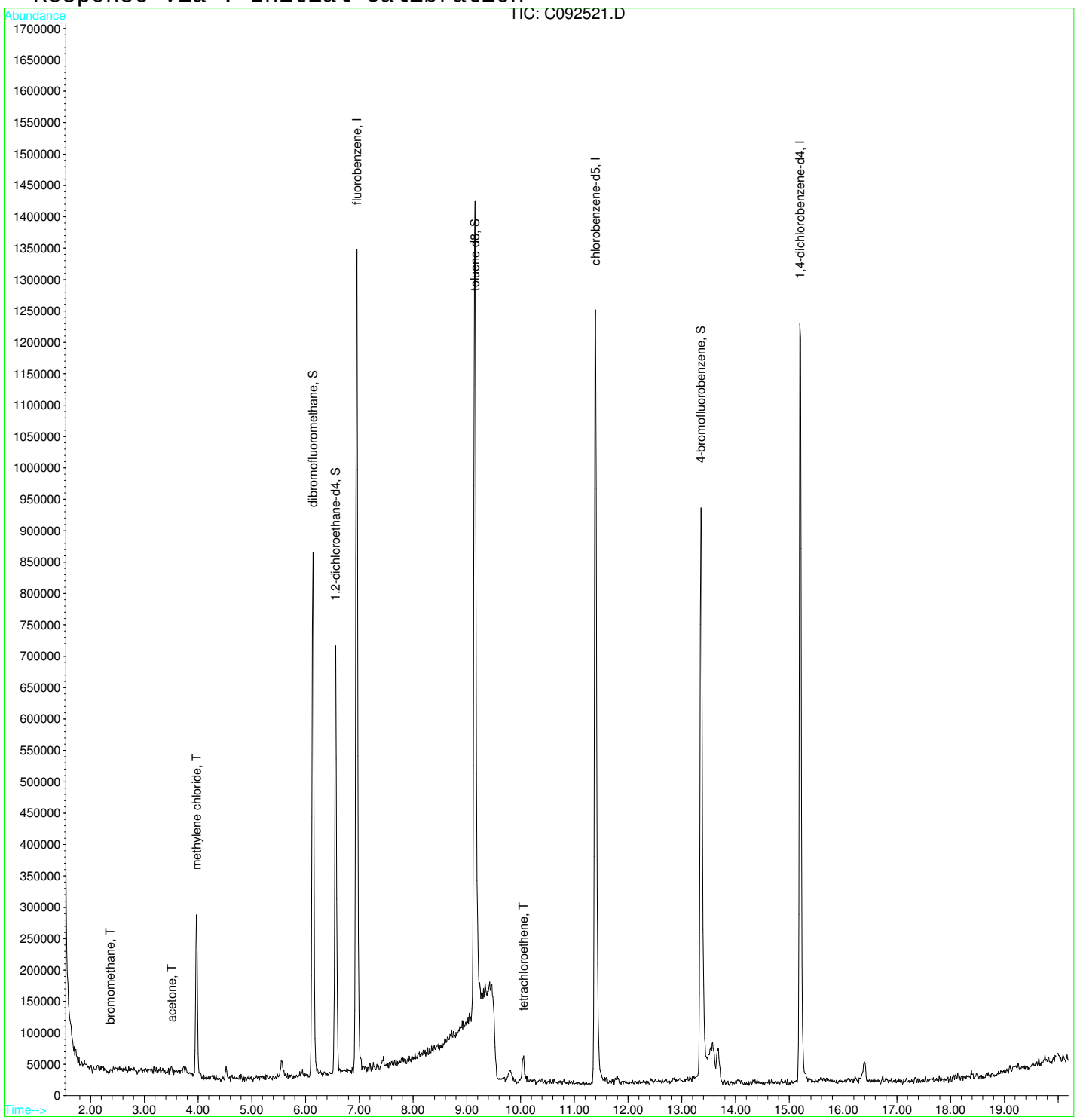
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1574596	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	1147404	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.21	152	471993	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	661897	54.66 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	623148	55.23 ug/L	0.00
44) toluene-d8	9.15	98	1428075	52.30 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	615296	51.15 ug/L	0.00
Target Compounds					Qvalue
6) bromomethane	2.38	94	7072	4.05 ug/L #	22
11) acetone	3.51	43	21004	10.80 ug/L	93
13) methylene chloride	3.97	84	137144	9.01 ug/L	96
48) tetrachloroethene	10.05	164	9831	1.68 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092521.D Vial: 21
Acq On : 25 Sep 2008 6:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-07A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:32 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 6:45 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092521.D
Name: ,SAMP,ME0809B07-07A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
3-Piperidinol	2.13	8.5	ug/L	602619	ISTD01	6.96	3565610	50.0
Cyclotrisiloxane, he	9.04	70.6	ug/L	5036910	ISTD01	6.96	3565610	50.0

C092521.D VOA0815.M Wed Oct 15 13:35:04 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092521.D
Acq On : 25 Sep 2008 6:45 pm
Sample : ,SAMP,ME0809B07-07A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 21
Operator: MT
Inst : VOA #3
Multiplr: 1.00

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0.3

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

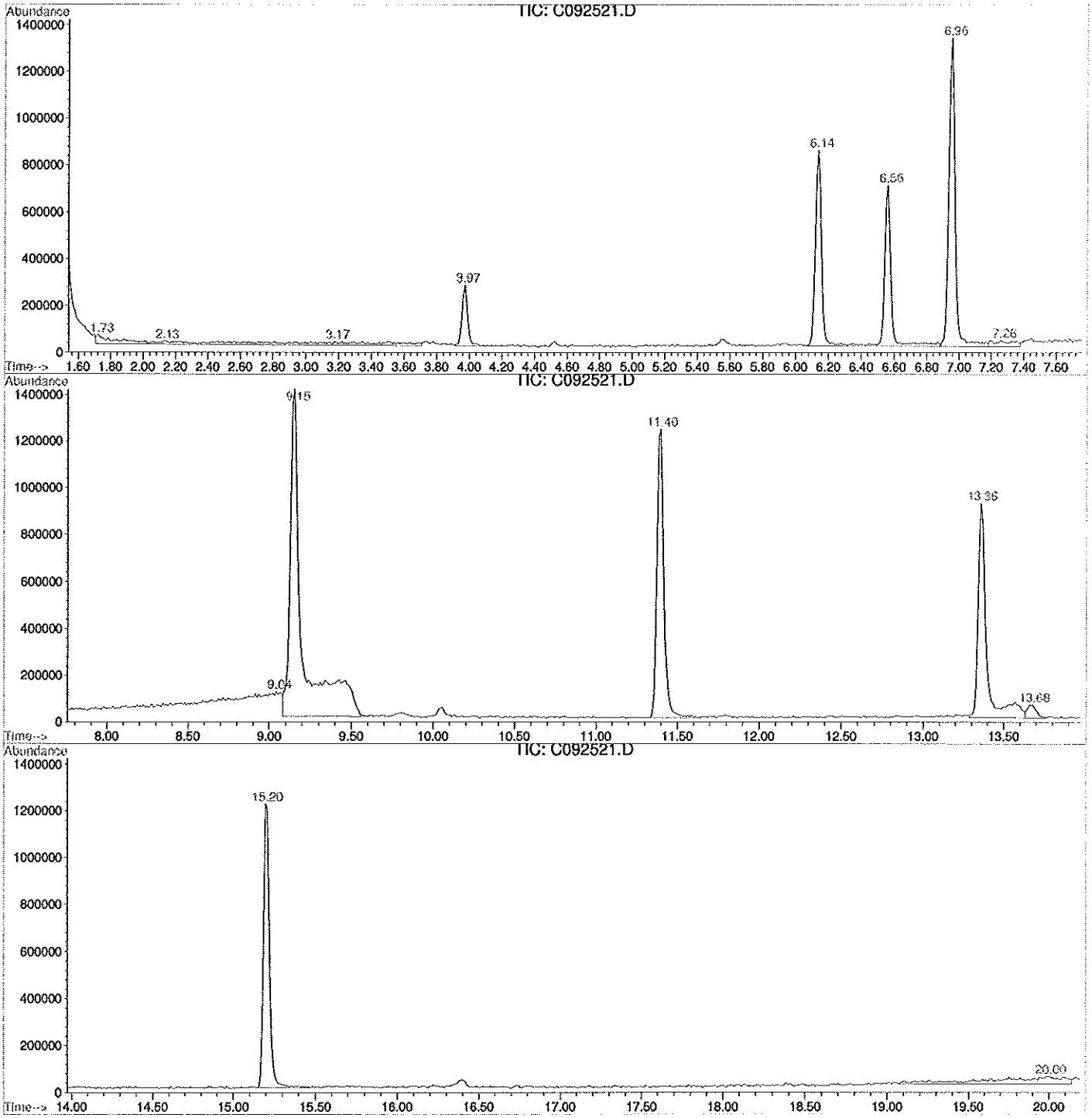
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.727	18	20	51	rVB2	37771	301146	4.13%	0.900%
2	2.130	51	61	166	rVV2	14610	602619	8.26%	1.801%
3	3.174	166	167	221	rVV2	17093	325023	4.45%	0.971%
4	3.972	242	248	274	rVB	261334	642260	8.80%	1.919%
5	6.138	461	468	504	rVV	837655	2216943	30.38%	6.624%
6	6.561	504	511	544	rVV	688864	1892219	25.93%	5.654%
7	6.955	544	551	574	rVV	1320298	3565611	48.85%	10.654%
8	7.260	574	582	594	rVV	26501	223109	3.06%	0.667%
9	9.043	594	763	767	rVV5	106985	5036912	69.01%	15.050%
10	9.151	767	774	833	rVV	1401519	7298493	100.00%	21.808%
11	11.396	992	1002	1027	rBV	1234429	3634549	49.80%	10.860%
12	13.355	1194	1201	1229	rVV	915646	3370237	46.18%	10.070%
13	13.680	1229	1234	1242	rVB5	56717	222936	3.05%	0.666%
14	15.197	1383	1388	1416	rVB	1209530	3096715	42.43%	9.253%
15	20.002	1782	1876	1890	rVV	31768	1038923	14.23%	3.104%

Sum of corrected areas: 33467695

C092521.D VOA0815.M Wed Oct 15 13:34:45 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092521.D
Operator : MT
Acquired : 25 Sep 2008 6:45 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-07A,1,
Misc Info : 8260+_W
Vial Number: 21
Quant File :VOA0815.RES (RTE Integrator)



C092521.D VOA0815.M Wed Oct 15 13:34:53 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092521.D
Acq On : 25 Sep 2008 6:45 pm
Sample : ,SAMP,ME0809B07-07A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 21
Operator: MT
Inst : VOA #3
Multiplr: 1.00

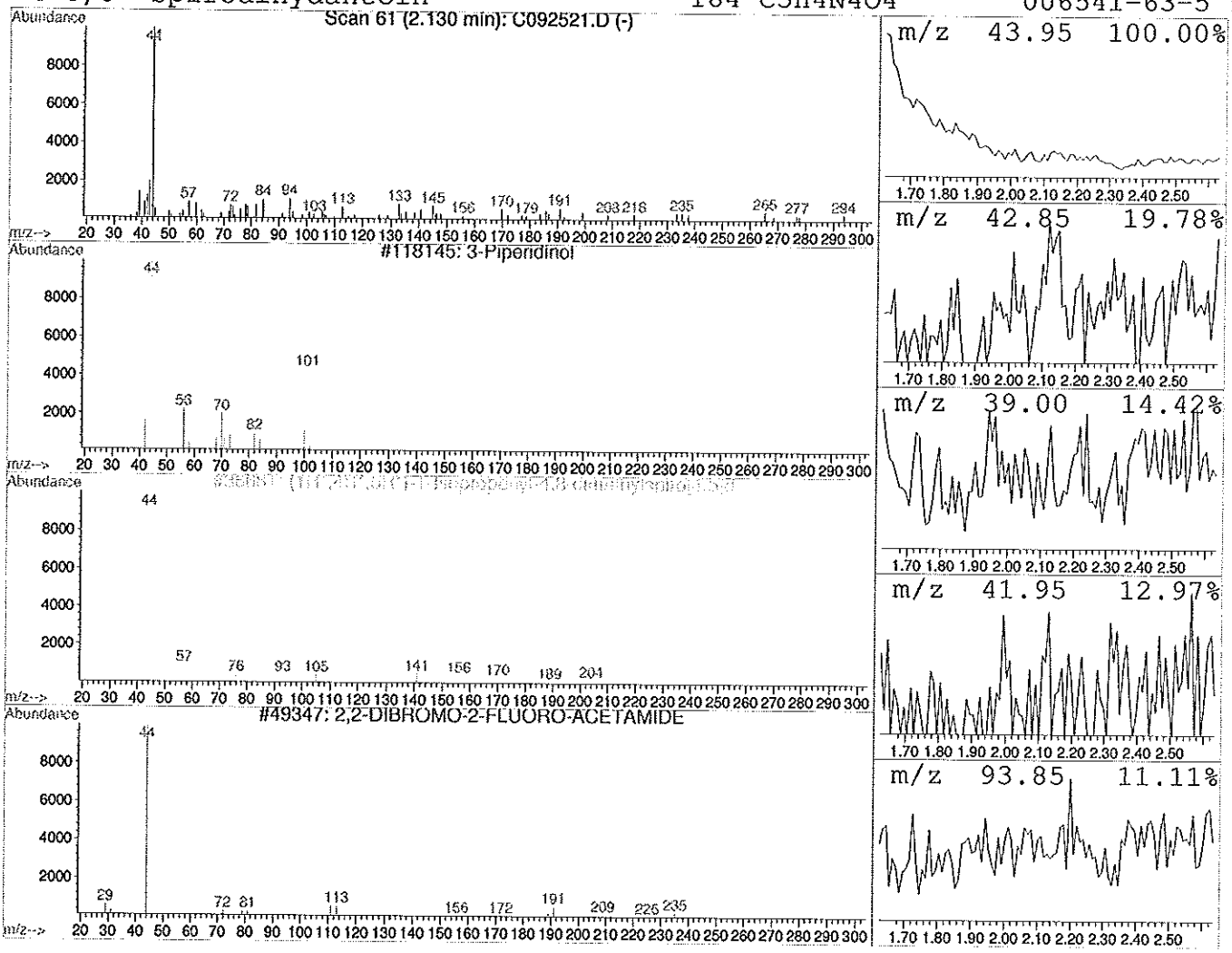
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 3-Piperidinol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	8.45 ug/L	602619	fluorobenzene	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Piperidinol	101	C5H11NO	006859-99-0	38
2	(1R*,4S*,5R*)-1-Isopropenyl-4,8-dim	204	C15H24	087173-79-3	33
3	2,2-DIBROMO-2-FLUORO-ACETAMIDE	233	C2H2Br2FNO	000000-00-0	9
4	5,5'-Spirodihydantoin	184	C5H4N4O4	006541-63-5	9



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092521.D
Acq On : 25 Sep 2008 6:45 pm
Sample : ,SAMP,ME0809B07-07A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 21
Operator: MT
Inst : VOA #3
Multiplr: 1.00

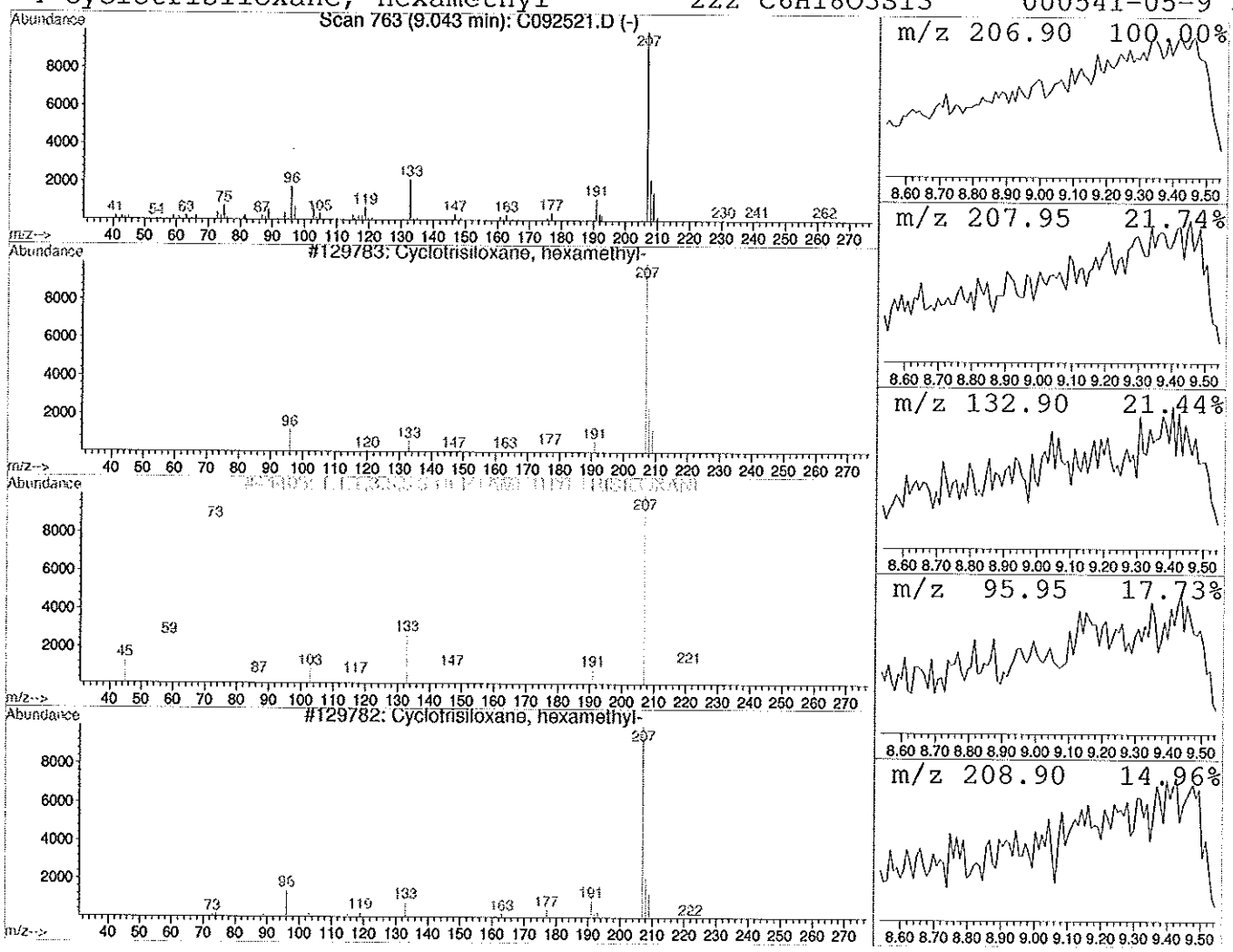
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 Cyclotrisiloxane, hexamethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.04	70.63 ug/L	5036910	fluorobenzene	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	72
2	1,1,1,3,5,5,5-HEPTAMETHYLTRISILOXAN	222	C7H22O2Si3	001873-88-7	72
3	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	72
4	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	56



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092522.D Vial: 22
Acq On : 25 Sep 2008 7:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-08A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:32 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

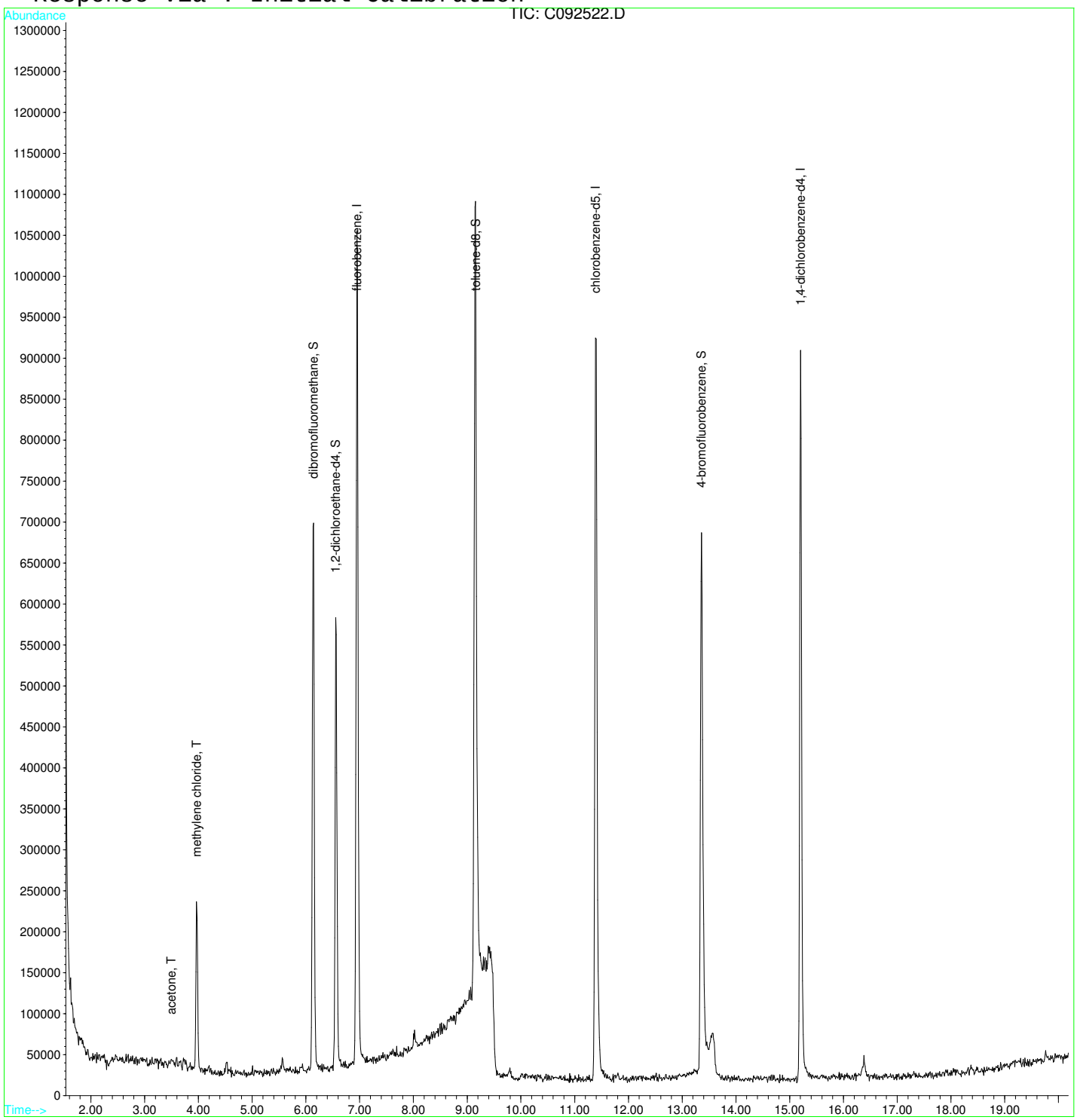
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1259703	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	885421	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	350276	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	547587	56.53 ug/L	0.00
30) 1,2-dichloroethane-d4	6.55	65	495887	54.94 ug/L	0.00
44) toluene-d8	9.15	98	1100508	52.23 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	462188	49.79 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.49	43	16493	10.60 ug/L	74
13) methylene chloride	3.97	84	105942	8.70 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092522.D Vial: 22
Acq On : 25 Sep 2008 7:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-08A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:32 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 7:15 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092522.D
Name: ,SAMP,ME0809B07-08A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Phosphoric acid, die	1.78	7.6	ug/L	609942	ISTD01	6.95	4010250	50.0
D4-METHYL GLYCOLLATE	2.66	13.4	ug/L	1074660	ISTD01	6.95	4010250	50.0
Cyclotrisiloxane, he	9.07	50.7	ug/L	4067260	ISTD01	6.95	4010250	50.0

C092522.D VOA0815.M Wed Oct 15 13:35:47 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092522.D Vial: 22
Acq On : 25 Sep 2008 7:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-08A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

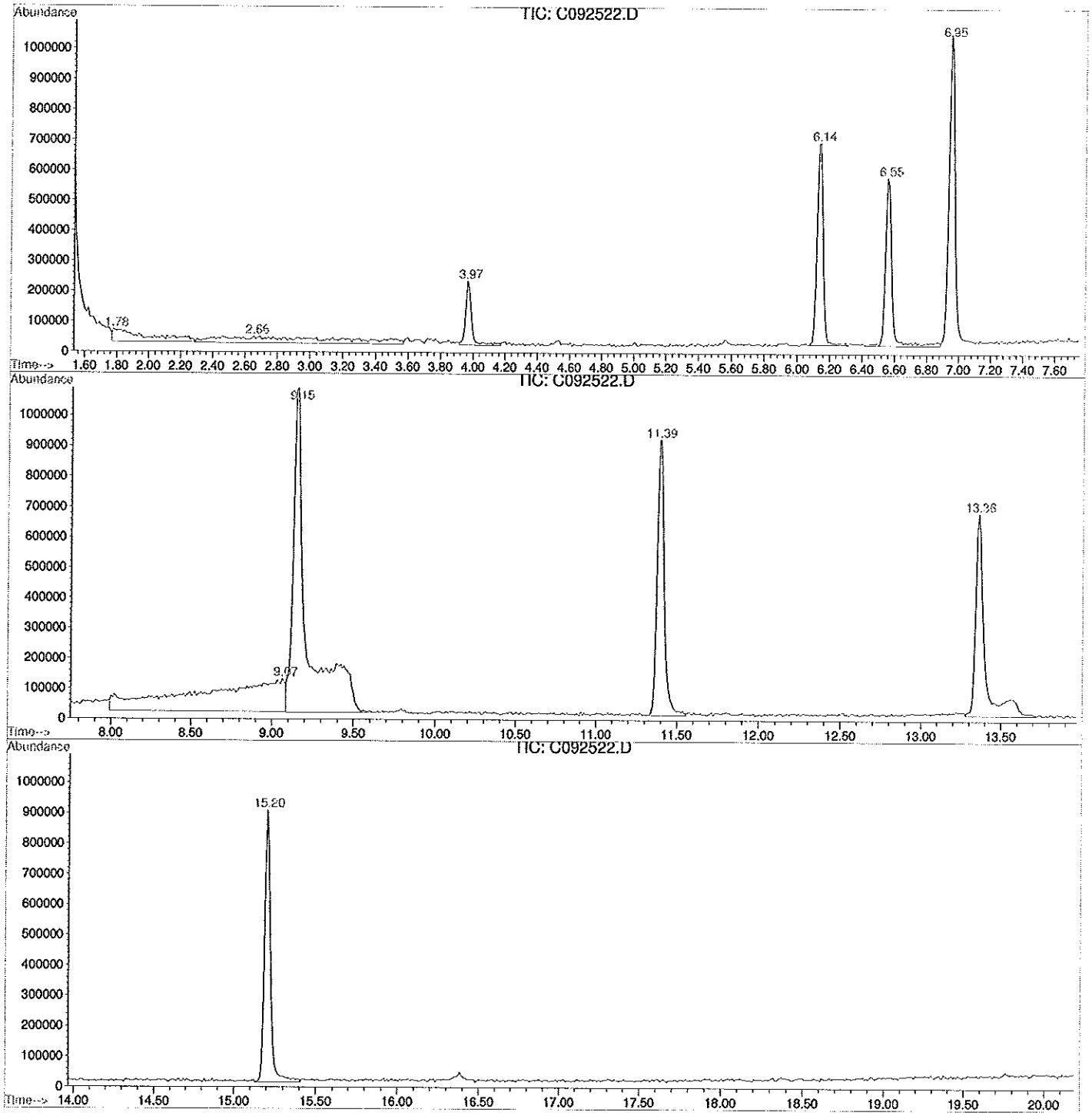
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.779	25	26	78	rVB2	40591	609942	9.75%	2.206%
2	2.655	78	115	208	rVV2	21747	1074657	17.18%	3.887%
3	3.965	243	248	269	rVV	212084	544374	8.70%	1.969%
4	6.141	462	469	487	rBV	668003	1719539	27.48%	6.220%
5	6.555	499	511	545	rBV	554466	1568768	25.07%	5.674%
6	6.949	545	551	657	rVV	1027630	4010252	64.10%	14.505%
7	9.066	657	766	768	rVV7	108821	4067264	65.01%	14.711%
8	9.154	768	775	827	rVB	1069530	6256501	100.00%	22.630%
9	11.389	992	1002	1019	rBV	907460	2787672	44.56%	10.083%
10	13.359	1194	1202	1239	rVB	667394	2683846	42.90%	9.707%
11	15.200	1382	1389	1410	rBV	893940	2324529	37.15%	8.408%

Sum of corrected areas: 27647344

C092522.D VOA0815.M Wed Oct 15 13:35:25 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092522.D
Operator : MT
Acquired : 25 Sep 2008 7:15 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-08A,1,
Misc Info : 8260+_W
Vial Number: 22
Quant File :VOA0815.RES (RTE Integrator)



C092522.D VOA0815.M Wed Oct 15 13:35:34 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092522.D Vial: 22
Acq On : 25 Sep 2008 7:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-08A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

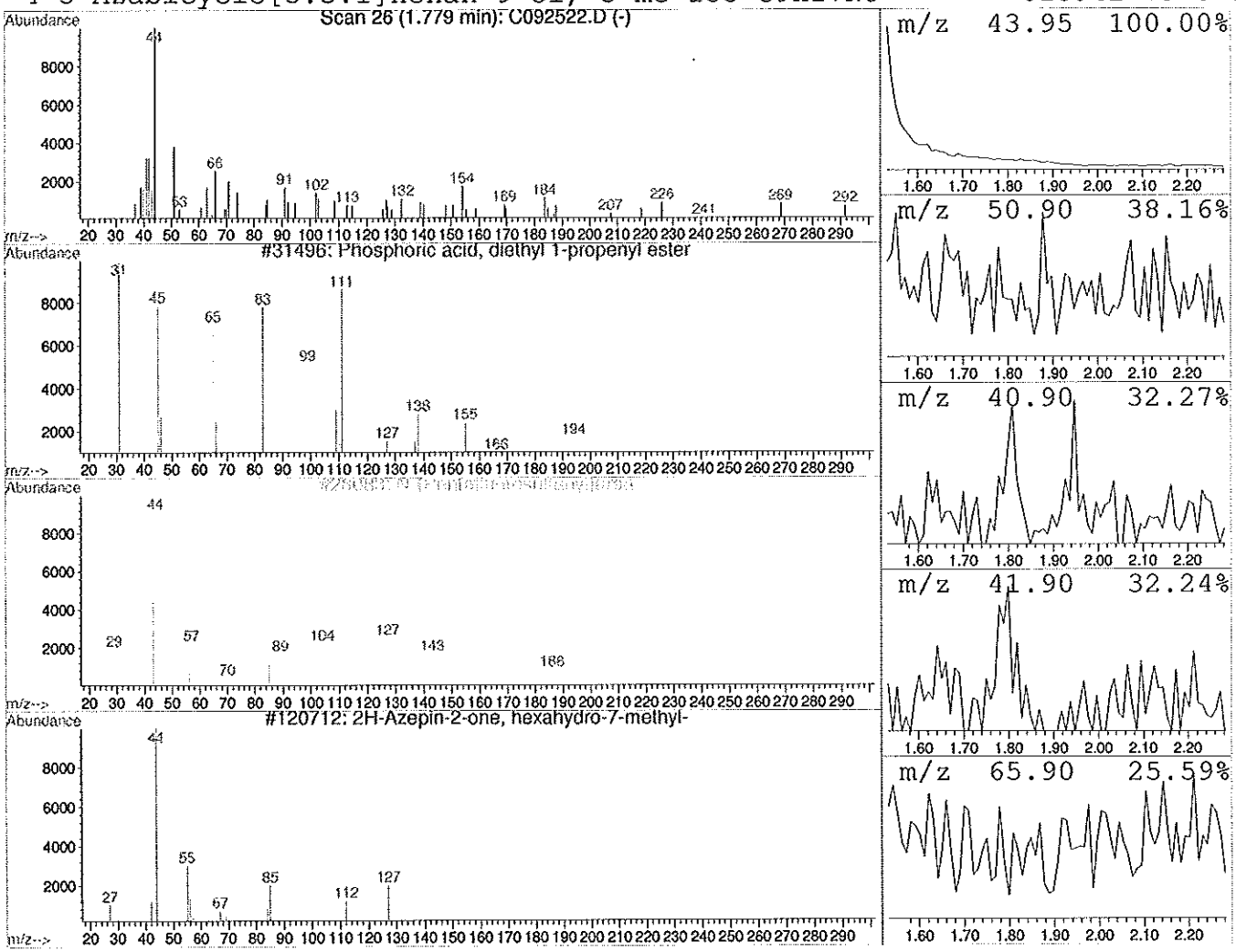
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Phosphoric acid, diethyl 1-pro Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	7.60 ug/L	609942	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphoric acid, diethyl 1-propenyl	194	C7H15O4P	034600-14-1	14
2	N-(Pentafluorosulfanyl)urea	186	CH3F5N2OS	090598-01-9	12
3	2H-Azepin-2-one, hexahydro-7-methyl	127	C7H13NO	001985-48-4	9
4	3-Azabicyclo[3.3.1]nonan-9-ol, 3-me	155	C9H17NO	013962-79-3	9



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092522.D Vial: 22
Acq On : 25 Sep 2008 7:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-08A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

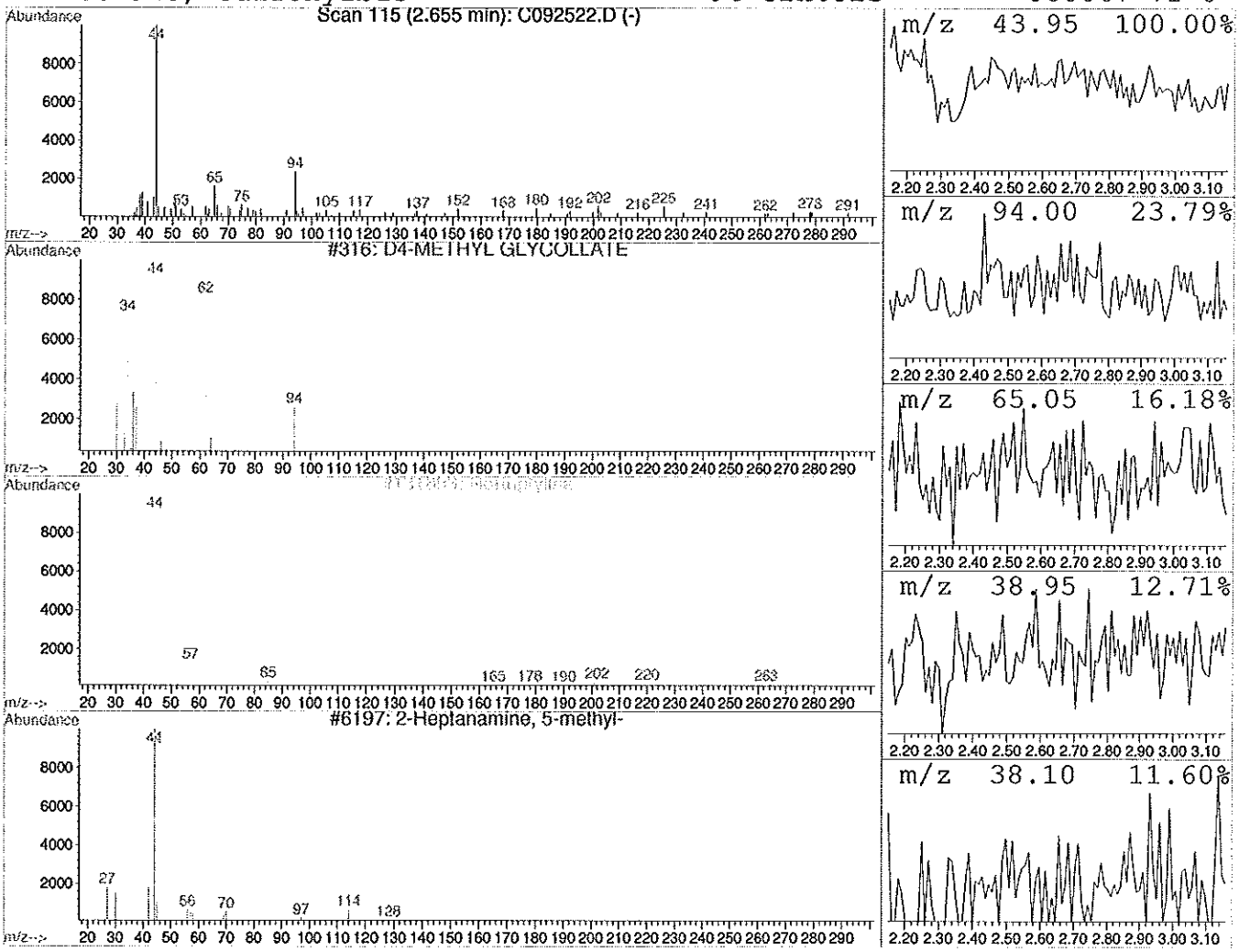
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 D4-METHYL GLYCOLLATE Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.66	13.40 ug/L	1074660	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D4-METHYL GLYCOLLATE	90	C3H2D4O3	053778-48-6	56
2	Nortriptyline	263	C19H21N	000072-69-5	33
3	2-Heptanamine, 5-methyl-	129	C8H19N	053907-81-6	9
4	Methane, sulfonylbis-	94	C2H6O2S	000067-71-0	9



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092522.D Vial: 22
Acq On : 25 Sep 2008 7:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-08A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

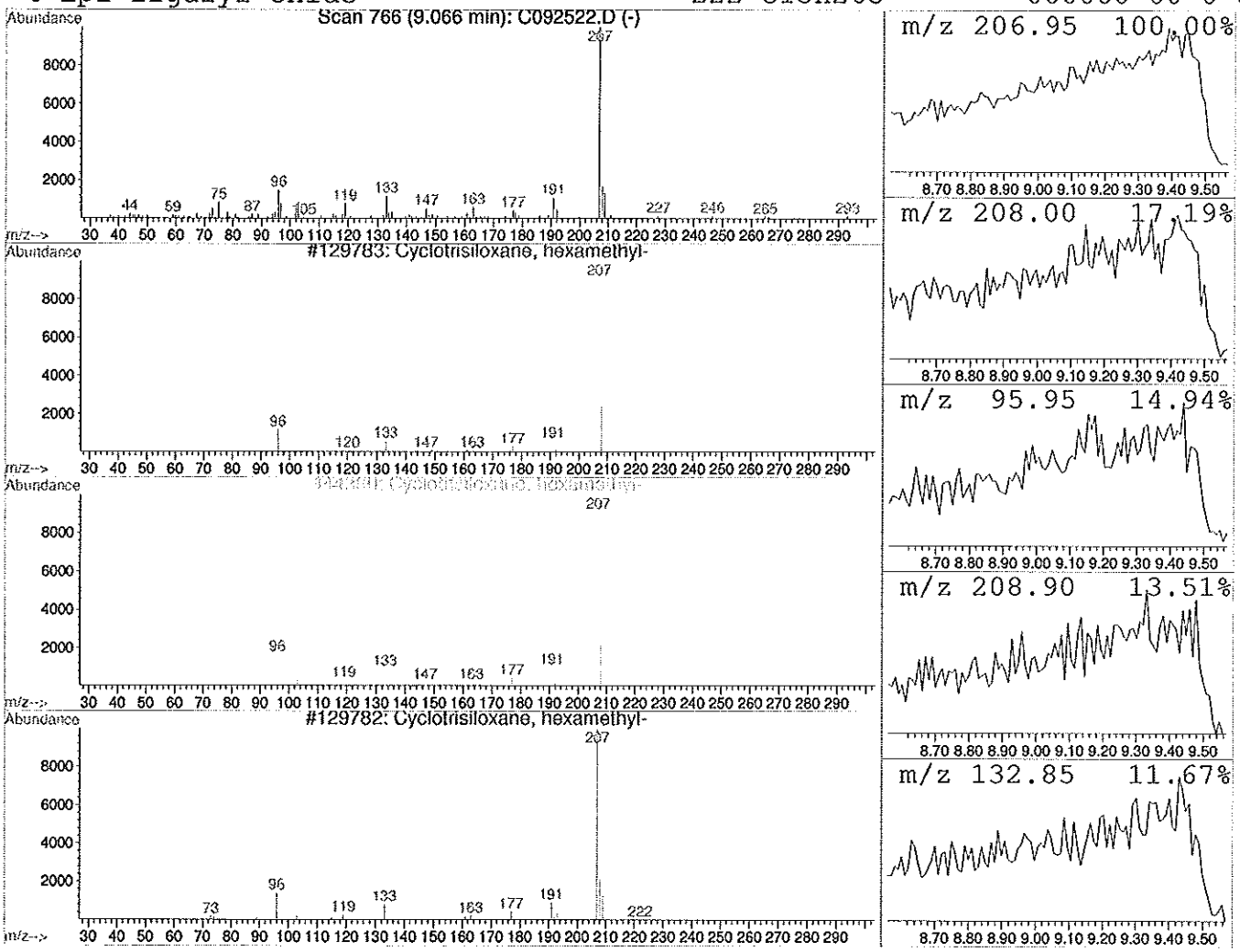
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 3 Cyclotrisiloxane, hexamethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.07	50.71 ug/L	4067260	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	78
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	78
3	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	78
4	Epi-ligulyl oxide	222	C15H26O	000000-00-0	53



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092523.D Vial: 23
Acq On : 25 Sep 2008 7:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-09A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:32 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

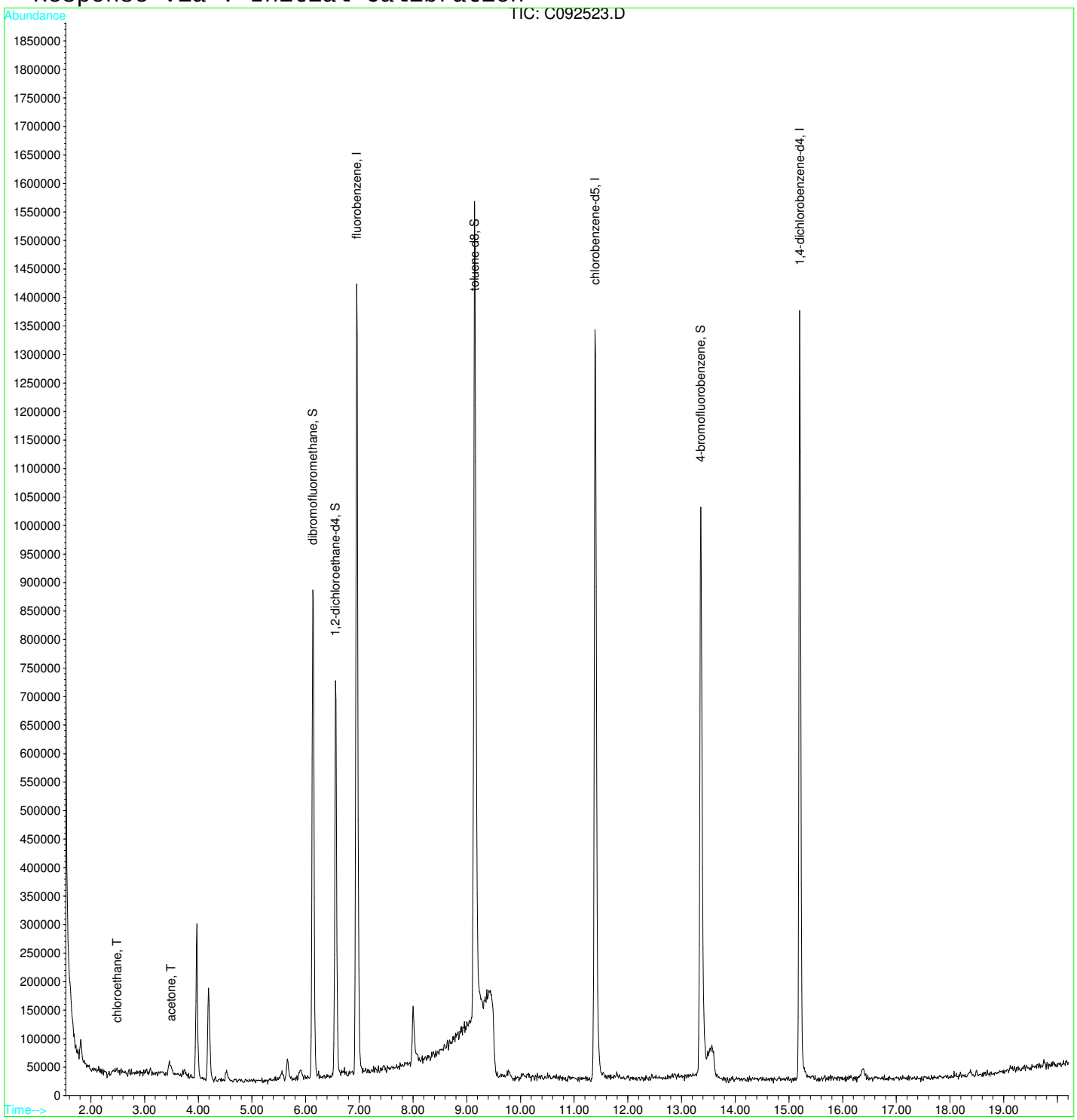
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1675877	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1235110	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	510280	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	701332	54.42 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	649197	54.06 ug/L	0.00
44) toluene-d8	9.15	98	1552466	52.82 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	675789	52.19 ug/L	0.00
Target Compounds					Qvalue
7) chloroethane	2.49	64	6566	2.51 ug/L	71
11) acetone	3.50	43	31762	15.35 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092523.D Vial: 23
Acq On : 25 Sep 2008 7:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-09A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:32 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 7:45 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092523.D
Name: ,SAMP,ME0809B07-09A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
2-PHENYLPYRROLINE	1.81	7.0	ug/L	512441	ISTD01	6.95	3666730	50.0
3-Pentanol	4.19	6.4	ug/L	471023	ISTD01	6.95	3666730	50.0
1,4-Dioxane	8.00	52.7	ug/L	3866170	ISTD01	6.95	3666730	50.0

C092523.D VOA0815.M Wed Oct 15 13:36:36 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092523.D Vial: 23
Acq On : 25 Sep 2008 7:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-09A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

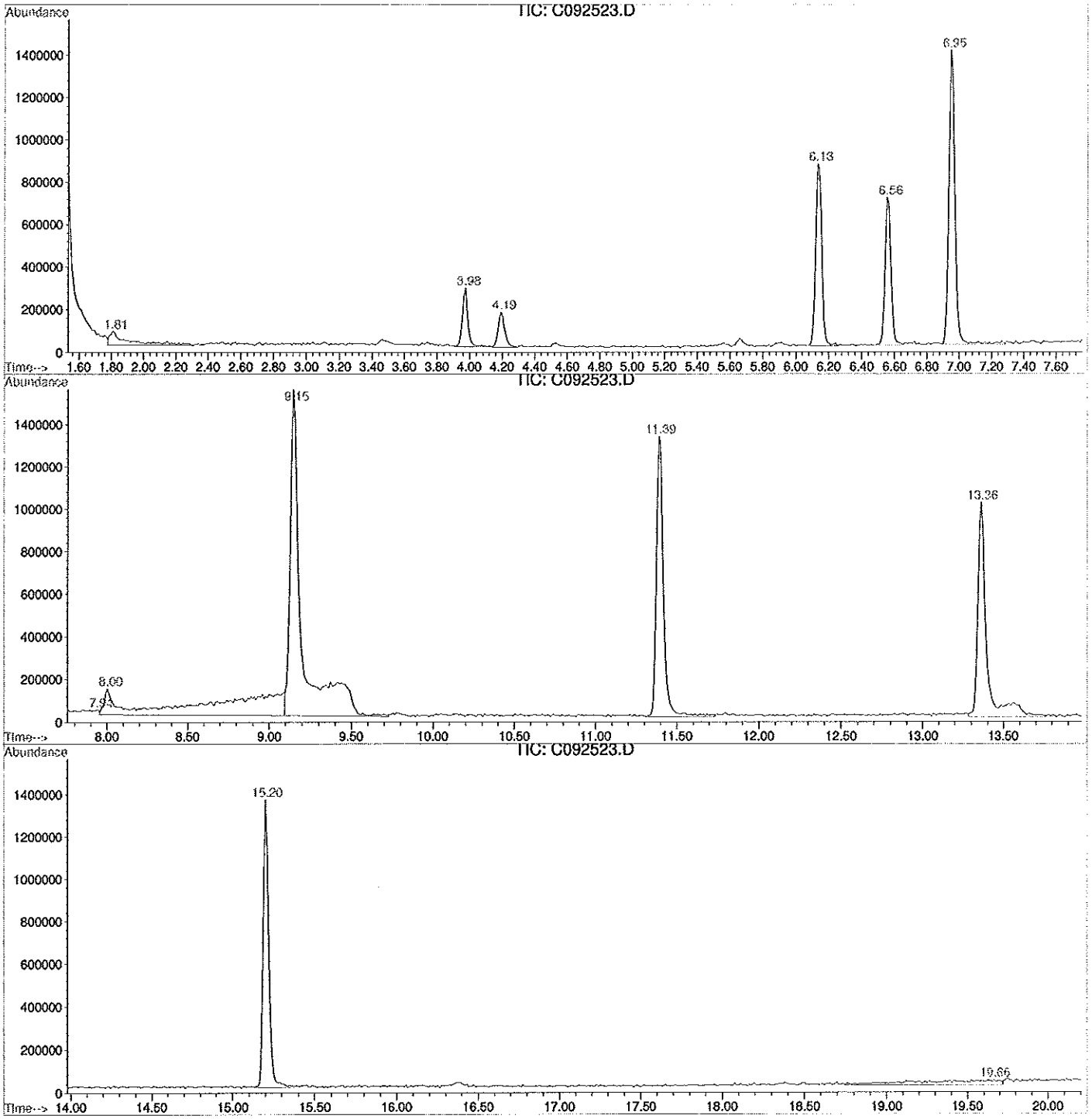
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.809	26	29	80	rVB3	63124	512441	6.87%	1.565%
2	3.975	242	249	266	rVB	275149	645147	8.65%	1.970%
3	4.192	266	271	281	rVB	164769	471023	6.31%	1.438%
4	6.132	461	468	481	rBV	856160	2213259	29.66%	6.758%
5	6.555	503	511	521	rBV	694281	1737329	23.28%	5.305%
6	6.949	545	551	585	rBV	1386887	3666728	49.14%	11.196%
7	7.944	608	652	653	rVV	19356	350632	4.70%	1.071%
8	8.003	653	658	769	rVV4	121052	3866170	51.81%	11.805%
9	9.145	769	774	833	rVV	1540339	7462023	100.00%	22.785%
10	11.390	994	1002	1037	rBV	1319160	3993518	53.52%	12.194%
11	13.359	1194	1202	1250	rVB	1009716	3819597	51.19%	11.663%
12	15.201	1382	1389	1417	rBV	1350175	3295033	44.16%	10.061%
13	19.661	1749	1842	1848	rBV	23209	716218	9.60%	2.187%

Sum of corrected areas: 32749118

C092523.D VOA0815.M Wed Oct 15 13:36:15 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092523.D
Operator : MT
Acquired : 25 Sep 2008 7:45 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-09A,1,
Misc Info : 8260+_W
Vial Number: 23
Quant File :VOA0815.RES (RTE Integrator)



C092523.D VOA0815.M Wed Oct 15 13:36:23 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092523.D Vial: 23
Acq On : 25 Sep 2008 7:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-09A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

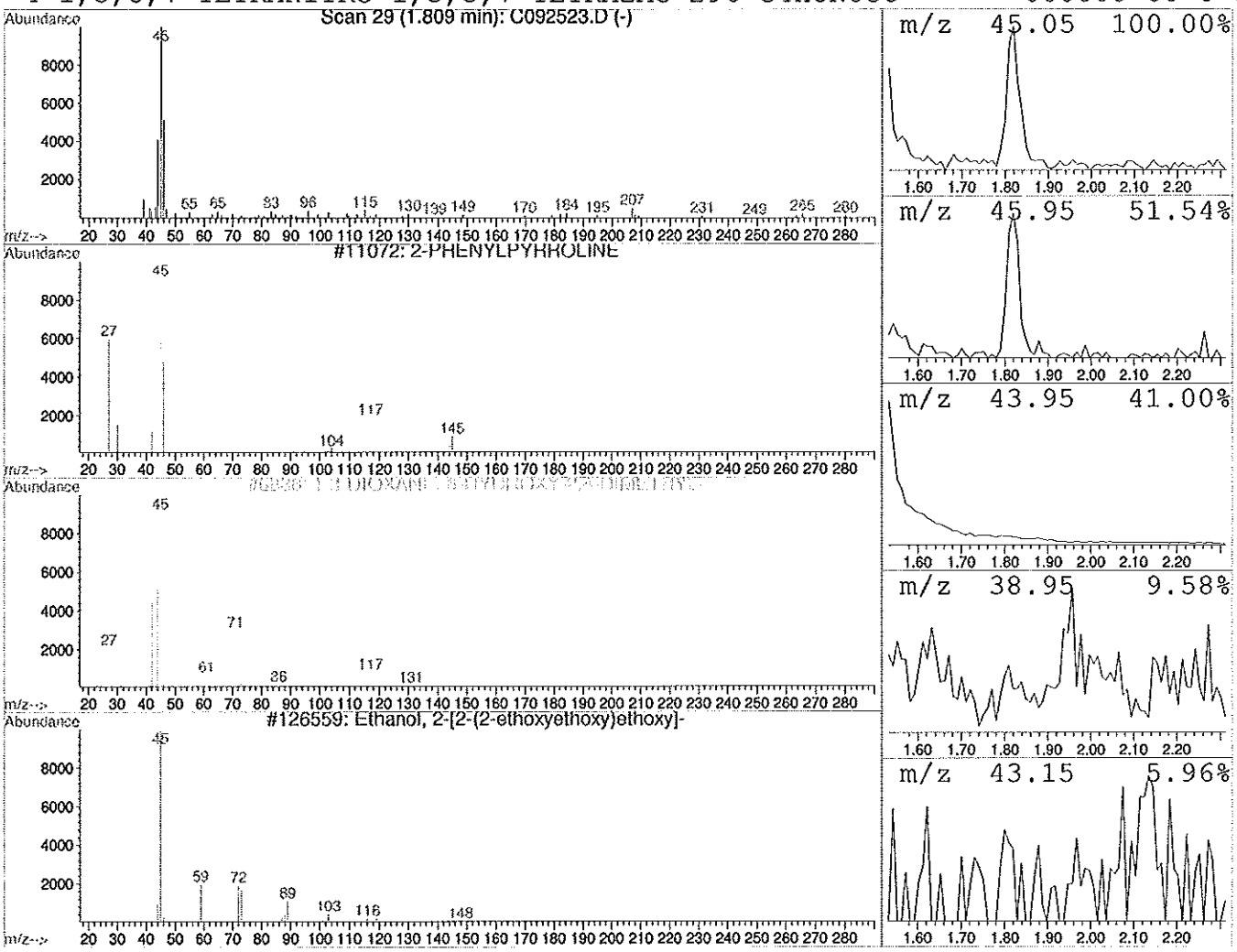
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 2-PHENYLPYRROLINE Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.81	6.99 ug/L	512441	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-PHENYLPYRROLINE	145	C10H11N	000700-91-4	33
2	1,3-DIOXANE, 6-HYDROXY-2,4-DIMETHYL	132	C6H12O3	000000-00-0	9
3	Ethanol, 2-[2-(2-ethoxyethoxy)ethox	178	C8H18O4	000112-50-5	9
4	1,3,5,7-TETRANITRO-1,3,5,7-TETRAZAC	296	C4H8N8O8	000000-00-0	9



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092523.D Vial: 23
Acq On : 25 Sep 2008 7:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-09A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

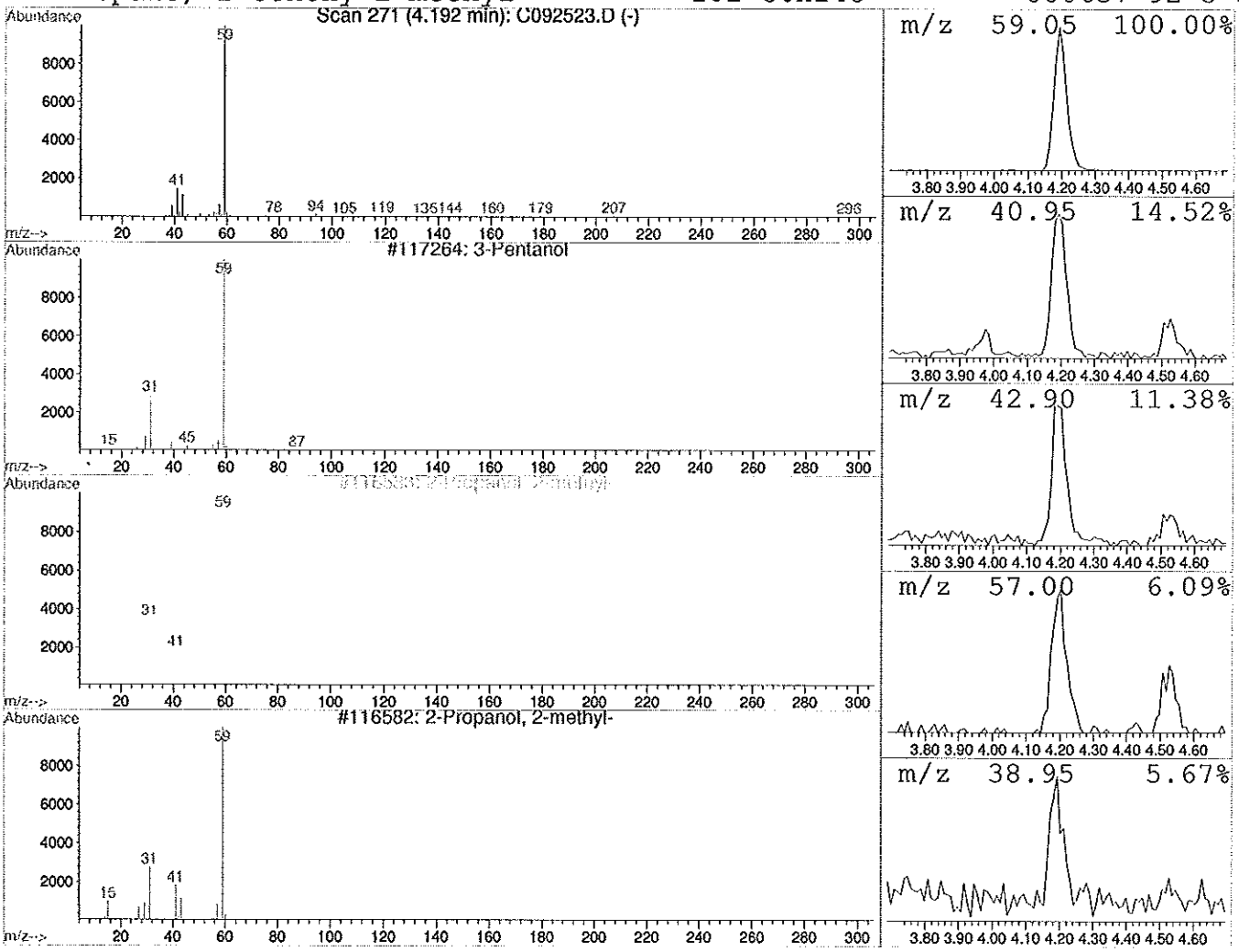
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 3-Pentanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.19	6.42 ug/L	471023	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentanol	88	C5H12O	000584-02-1	64
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	64
3	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	50
4	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	38



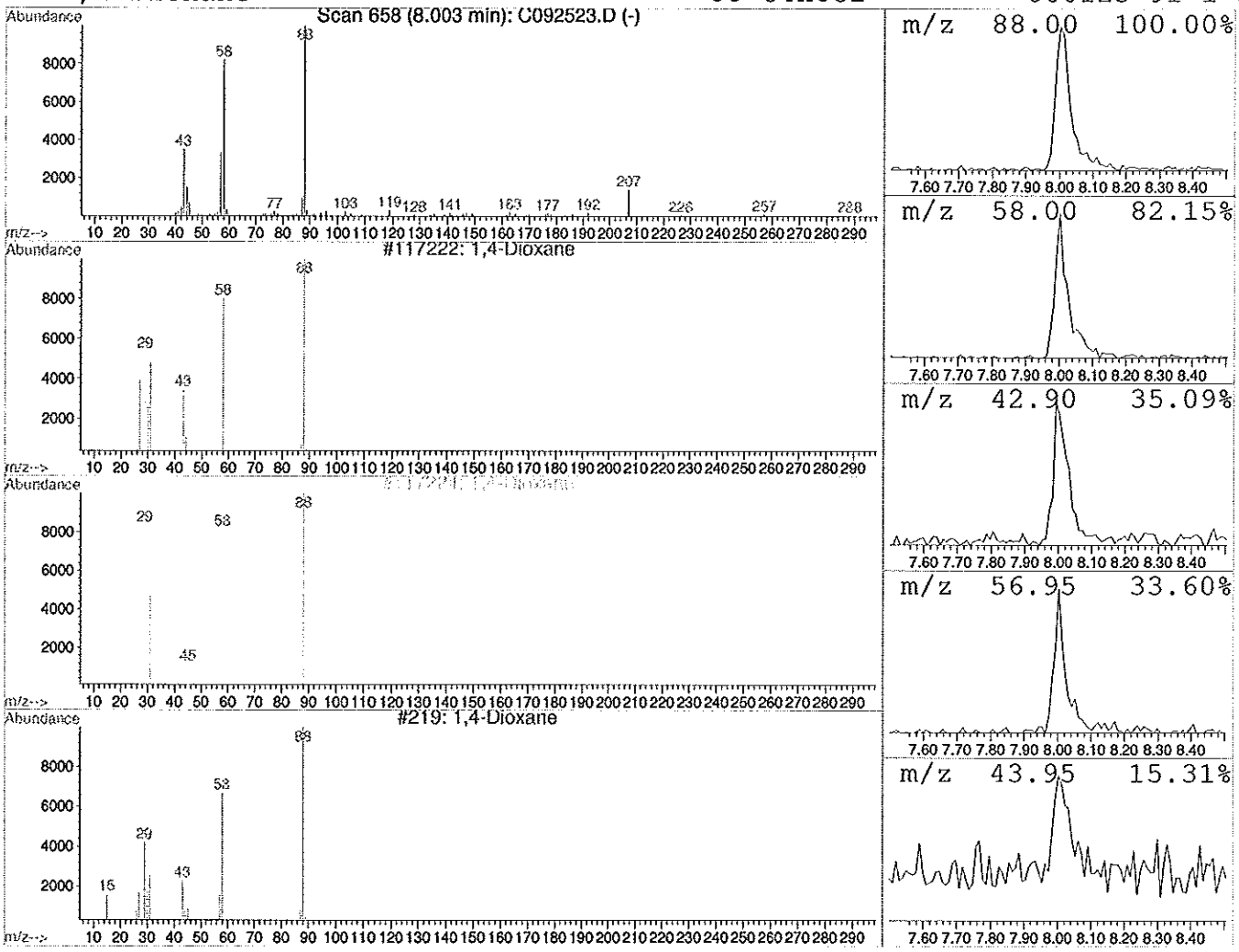
Library Search Compound Report

```
Data File : C:\HPCHEM\3\DATA\C092508\C092523.D          Vial: 23
Acq On    : 25 Sep 2008   7:45 pm                    Operator: MT
Sample    : ,SAMP,ME0809B07-09A,1,                   Inst    : VOA #3
Misc      : 8260+_W                                  Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title        : 8260 ICAL 8/15/08-Misc Included
Library      : C:\DATABASE\WILEY138.L
*****************************************************************
Peak Number  3  1,4-Dioxane                    Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.00	52.72 ug/L	3866170	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dioxane	88	C4H8O2	000123-91-1	87
2	1,4-Dioxane	88	C4H8O2	000123-91-1	80
3	1,4-Dioxane	88	C4H8O2	000123-91-1	72
4	1,4-Dioxane	88	C4H8O2	000123-91-1	50



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092524.D Vial: 24
Acq On : 25 Sep 2008 8:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-10A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:33 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

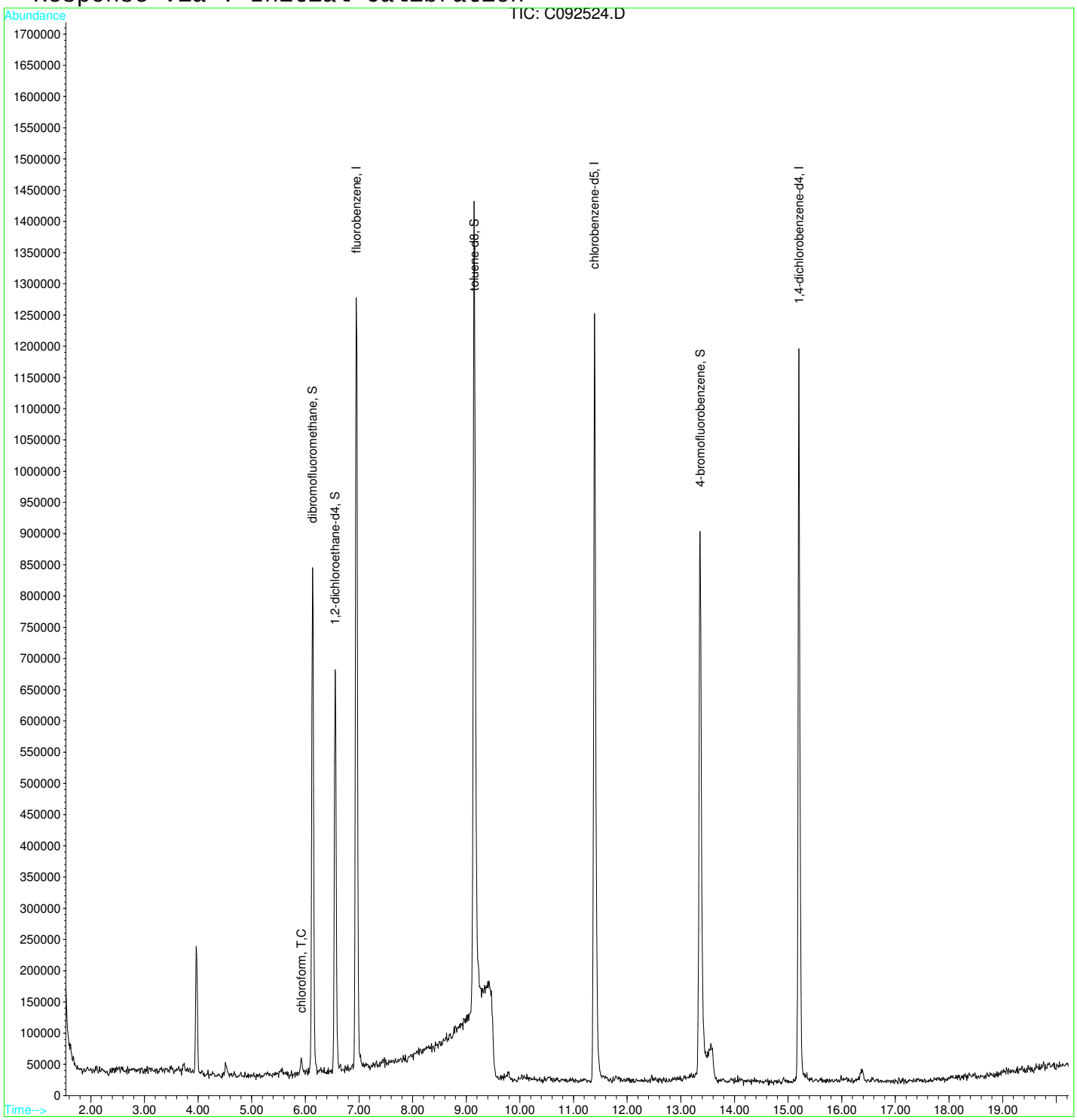
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1550394	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1169323	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	455143	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	632688	53.07 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	575666	51.82 ug/L	0.00
44) toluene-d8	9.15	98	1423323	51.15 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	616077	50.25 ug/L	0.00
Target Compounds					Qvalue
25) chloroform	5.92	83	20751	1.12 ug/L	95

(#) = qualifier out of range (m) = manual integration
C092524.D VOA0815.M Fri Sep 26 06:33:20 2008 VOA8 Page 1

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092524.D Vial: 24
Acq On : 25 Sep 2008 8:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-10A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:33 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 8:15 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092524.D
Name: ,SAMP,ME0809B07-10A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C092524.D VOA0815.M Wed Oct 15 13:37:02 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092524.D Vial: 24
Acq On : 25 Sep 2008 8:15 pm Operator: MT
Sample : ,SAMP,ME0809B07-10A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

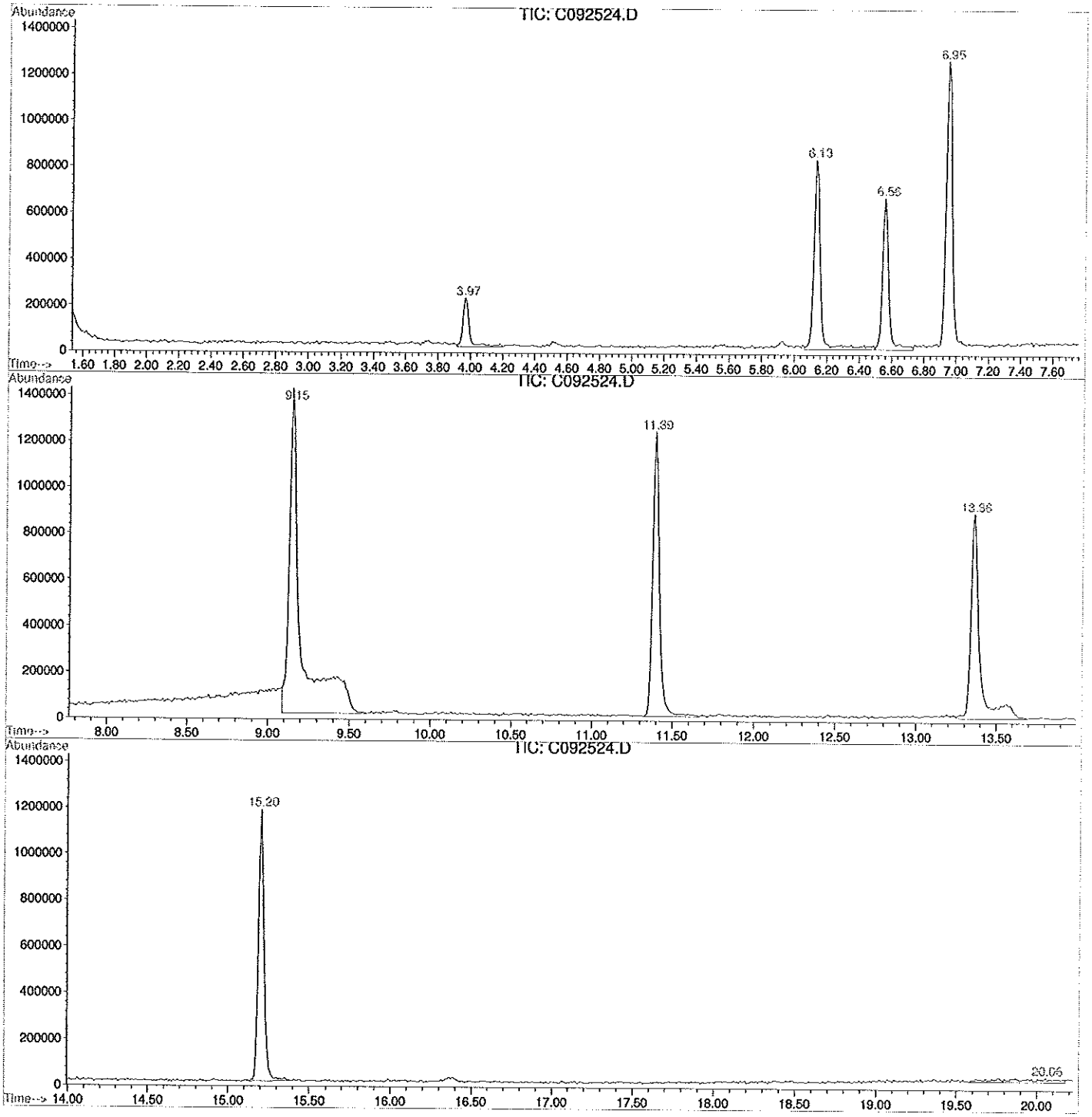
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.966	243	248	272	rVB	211471	600283	6.50%	1.918%
2	6.133	461	468	505	rVV	819999	2313800	25.05%	7.394%
3	6.556	505	511	529	rVV	656195	1759368	19.04%	5.622%
4	6.950	545	551	768	rVV	1251839	9238373	100.00%	29.523%
5	9.146	768	774	821	rVB	1405987	7079267	76.63%	22.623%
6	11.391	995	1002	1030	rBV	1231711	3635467	39.35%	11.618%
7	13.360	1191	1202	1236	rVB2	883141	3417715	36.99%	10.922%
8	15.201	1382	1389	1409	rVB	1173877	2877699	31.15%	9.196%
9	20.056	1834	1882	1894	rBV	17545	370210	4.01%	1.183%

Sum of corrected areas: 31292182

C092524.D VOA0815.M Wed Oct 15 13:36:53 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092524.D
Operator : MT
Acquired : 25 Sep 2008 8:15 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-10A,1,
Misc Info : 8260+_W
Vial Number: 24
Quant File :VOA0815.RES (RTE Integrator)



C092524.D VOA0815.M Wed Oct 15 13:37:00 2008 VOA8

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092525.D Vial: 25
Acq On : 25 Sep 2008 8:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-11A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:33 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

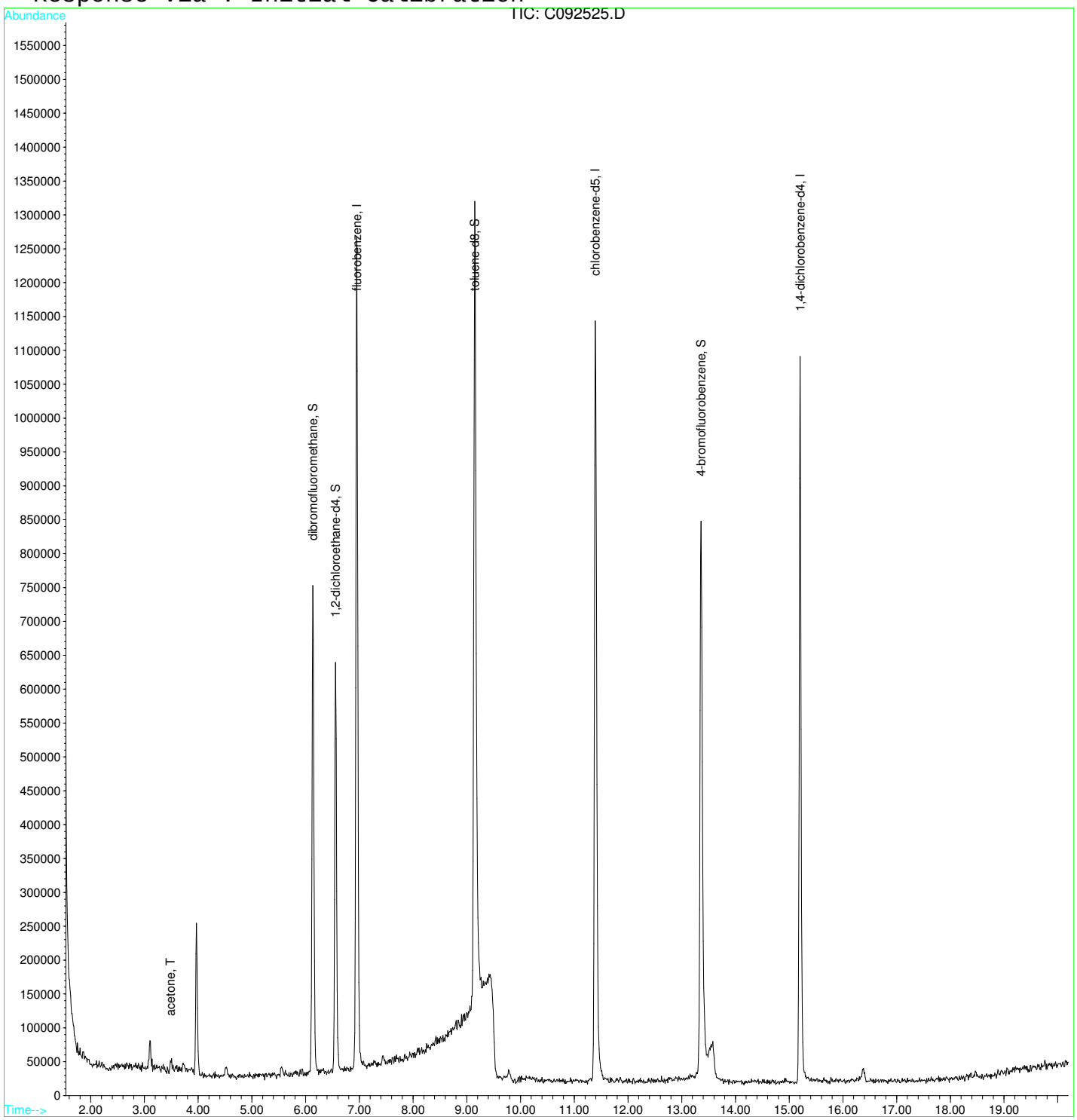
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1499333	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1113818	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	417170	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	592450	51.38 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	560760	52.19 ug/L	0.00
44) toluene-d8	9.15	98	1362649	51.41 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	580347	49.70 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.49	43	30952	16.72 ug/L	74

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092525.D Vial: 25
Acq On : 25 Sep 2008 8:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-11A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:33 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 8:45 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092525.D
Name: ,SAMP,ME0809B07-11A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Amidephrine	1.75	10.7	ug/L	767129	ISTD01	6.95	3589390	50.0
Cyclotrisiloxane, he	9.06	68.4	ug/L	4913140	ISTD01	6.95	3589390	50.0

C092525.D VOA0815.M Wed Oct 15 13:37:41 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092525.D Vial: 25
Acq On : 25 Sep 2008 8:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-11A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

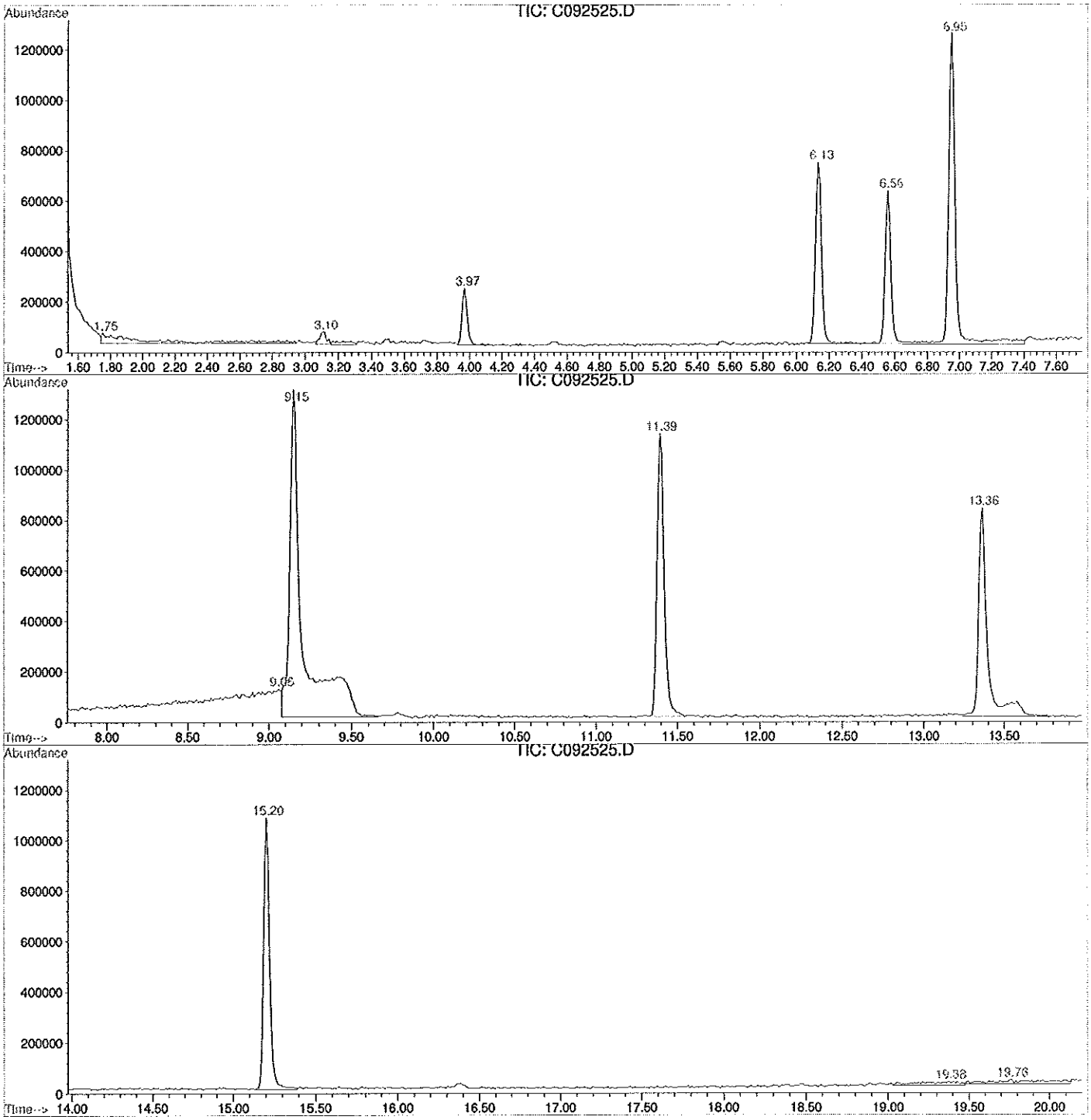
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.752	22	23	144	rVB	41826	767129	10.86%	2.517%
2	3.101	156	160	181	rVV3	49471	232245	3.29%	0.762%
3	3.968	244	248	299	rVV	226174	527851	7.47%	1.732%
4	6.134	462	468	505	rVB	719822	1855487	26.28%	6.088%
5	6.557	505	511	544	rVV	607658	1571355	22.25%	5.156%
6	6.951	544	551	597	rVV	1237171	3589386	50.83%	11.777%
7	9.059	597	765	767	rVV7	106795	4913138	69.57%	16.120%
8	9.147	767	774	826	rVB	1297032	7061699	100.00%	23.170%
9	11.392	995	1002	1018	rBV	1121742	3374093	47.78%	11.071%
10	13.362	1190	1202	1246	rVB	827492	3266397	46.26%	10.717%
11	15.203	1382	1389	1408	rBV	1073084	2709719	38.37%	8.891%
12	19.378	1778	1813	1823	rBV	15226	250186	3.54%	0.821%
13	19.762	1823	1852	1889	rVV	17543	359484	5.09%	1.179%

Sum of corrected areas: 30478169

C092525.D VOA0815.M Wed Oct 15 13:37:23 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092525.D
Operator : MT
Acquired : 25 Sep 2008 8:45 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-11A,1,
Misc Info : 8260+_W
Vial Number: 25
Quant File :VOA0815.RES (RTE Integrator)



C092525.D VOA0815.M Wed Oct 15 13:37:30 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092525.D Vial: 25
Acq On : 25 Sep 2008 8:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-11A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

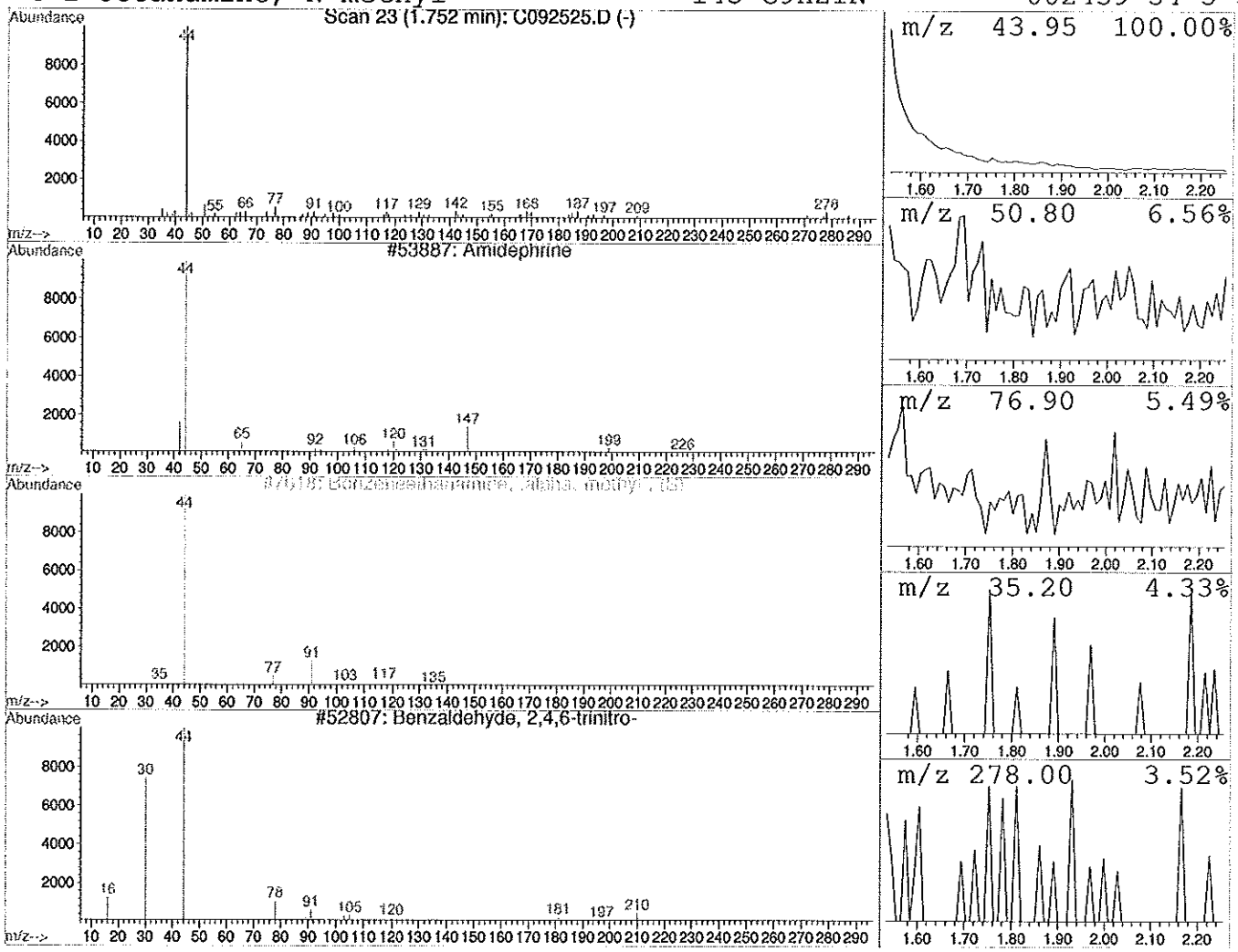
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Amidephrine Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	10.69 ug/L	767129	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Amidephrine	244	C10H16N2O3S	037571-84-9	38
2	Benzeneethanamine, .alpha.-methyl-,	135	C9H13N	000051-64-9	9
3	Benzaldehyde, 2,4,6-trinitro-	241	C7H3N3O7	000606-34-8	9
4	1-Octanamine, N-methyl-	143	C9H21N	002439-54-5	5



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092525.D Vial: 25
Acq On : 25 Sep 2008 8:45 pm Operator: MT
Sample : ,SAMP,ME0809B07-11A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

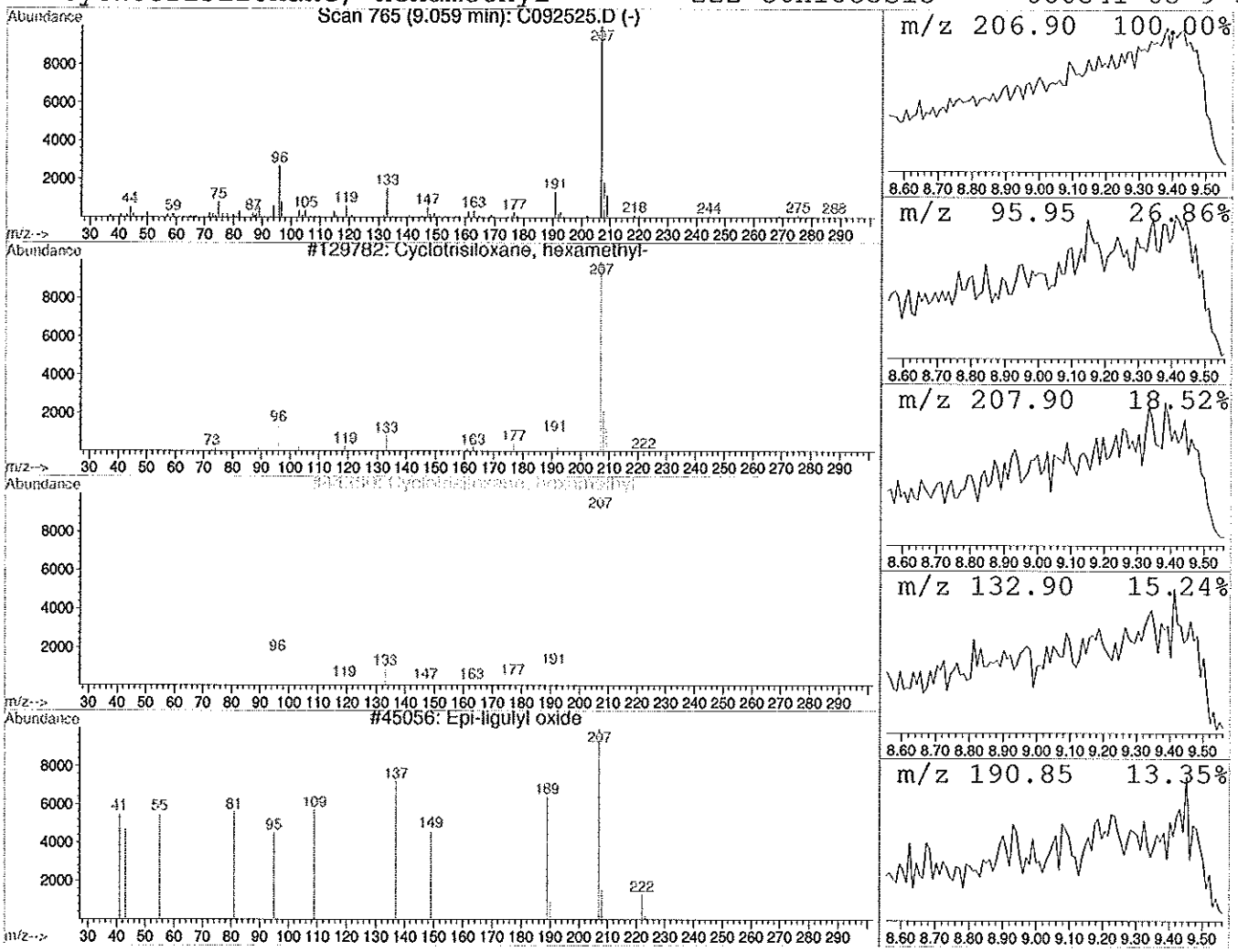
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 Cyclotrisiloxane, hexamethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.06	68.44 ug/L	4913140	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	83
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	78
3	Epi-ligulyl oxide	222	C15H26O	000000-00-0	55
4	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	50



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092526.D Vial: 26
Acq On : 25 Sep 2008 9:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-12A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:34 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

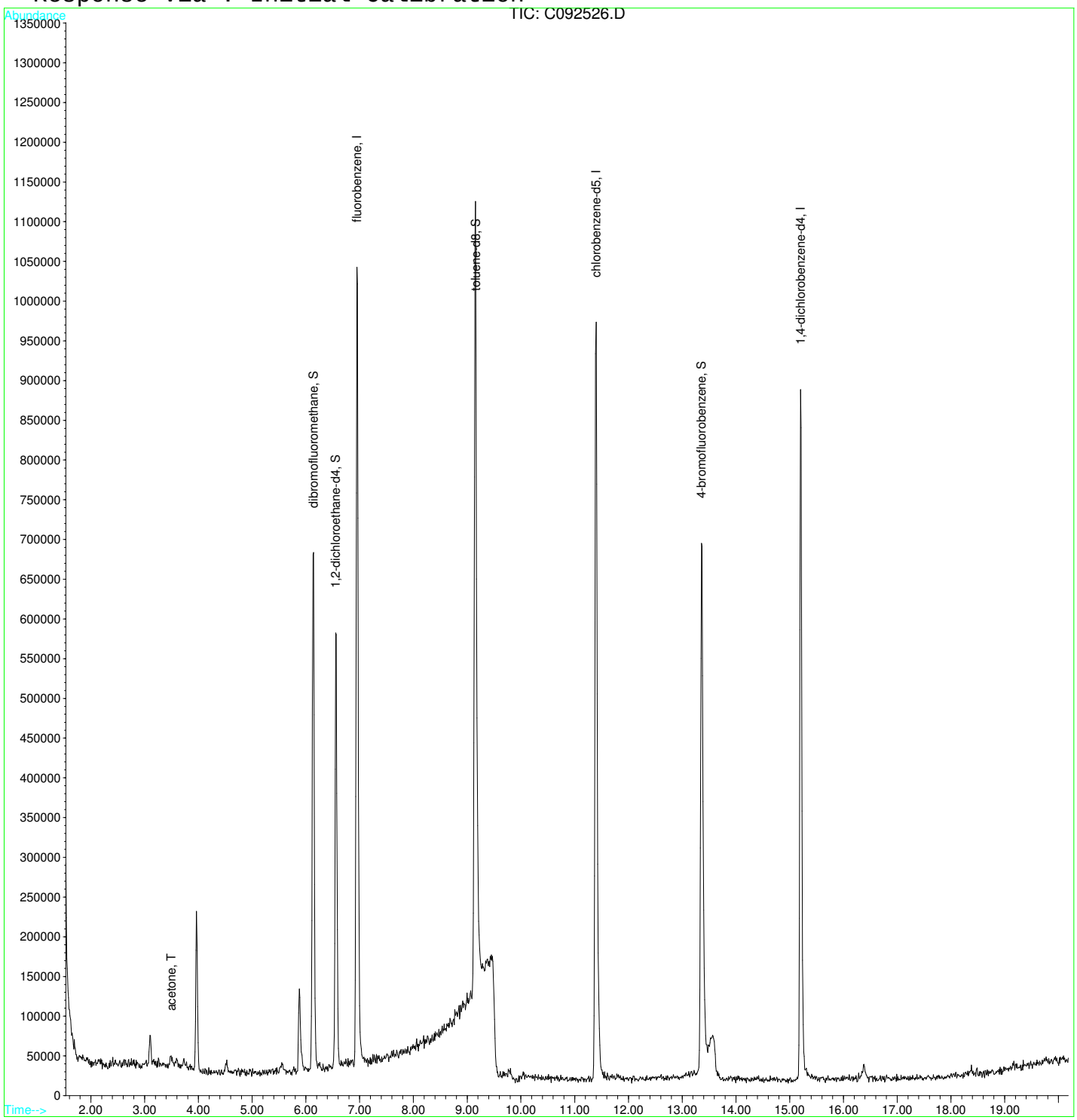
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1279154	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	912221	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	345774	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	531709	54.05 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	522517	57.01 ug/L	0.00
44) toluene-d8	9.15	98	1126445	51.89 ug/L	0.00
63) 4-bromofluorobenzene	13.37	95	476502	49.82 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.48	43	25186	15.95 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092526.D Vial: 26
Acq On : 25 Sep 2008 9:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-12A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:34 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 9:16 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092526.D
Name: ,SAMP,ME0809B07-12A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C092526.D VOA0815.M Wed Oct 15 13:38:07 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092526.D Vial: 26
Acq On : 25 Sep 2008 9:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-12A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

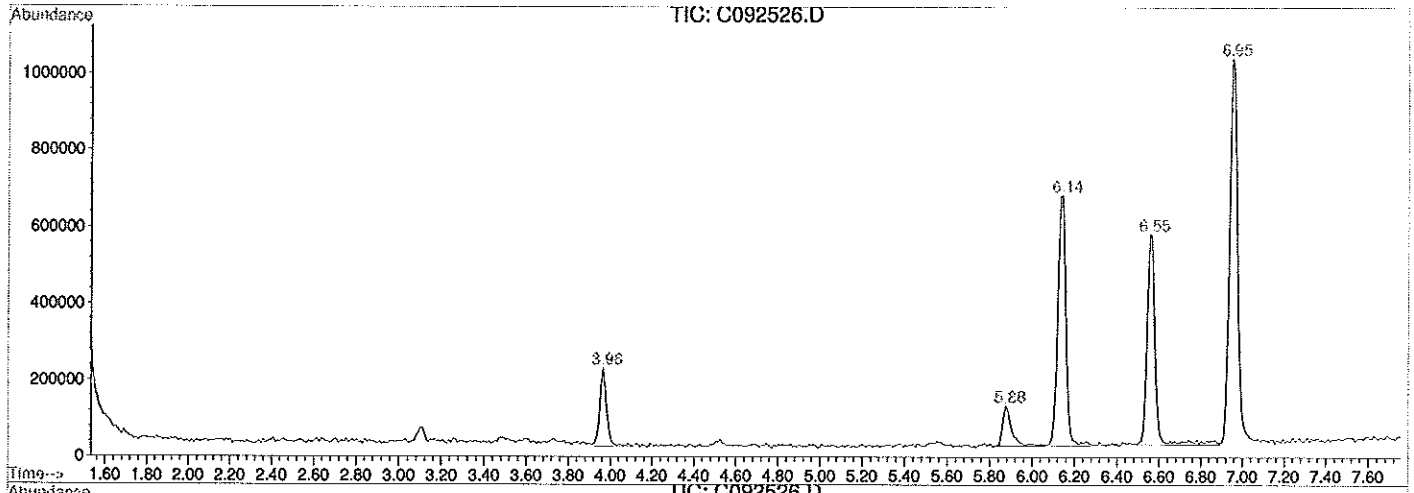
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.965	243	248	263	rVB	204423	465232	6.00%	1.757%
2	5.875	437	442	461	rBV	104675	309851	4.00%	1.170%
3	6.141	461	469	497	rVB	652437	1755091	22.64%	6.627%
4	6.555	505	511	545	rBV	547862	1491228	19.24%	5.631%
5	6.949	545	551	768	rVV	1010700	7751921	100.00%	29.269%
6	9.154	768	775	819	rVB	1102100	6419604	82.81%	24.239%
7	11.399	994	1003	1023	rBV	956344	2870894	37.03%	10.840%
8	13.359	1194	1202	1239	rVB	674941	2769261	35.72%	10.456%
9	15.200	1379	1389	1409	rBV	870363	2293798	29.59%	8.661%
10	19.946	1807	1871	1877	rVV	16434	357914	4.62%	1.351%

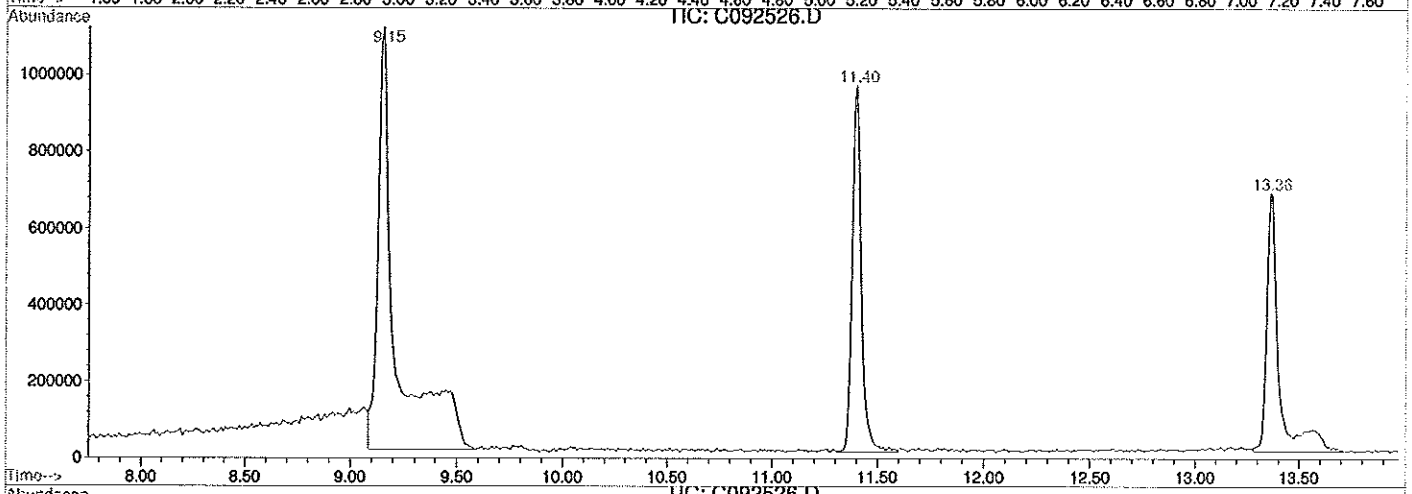
Sum of corrected areas: 26484794

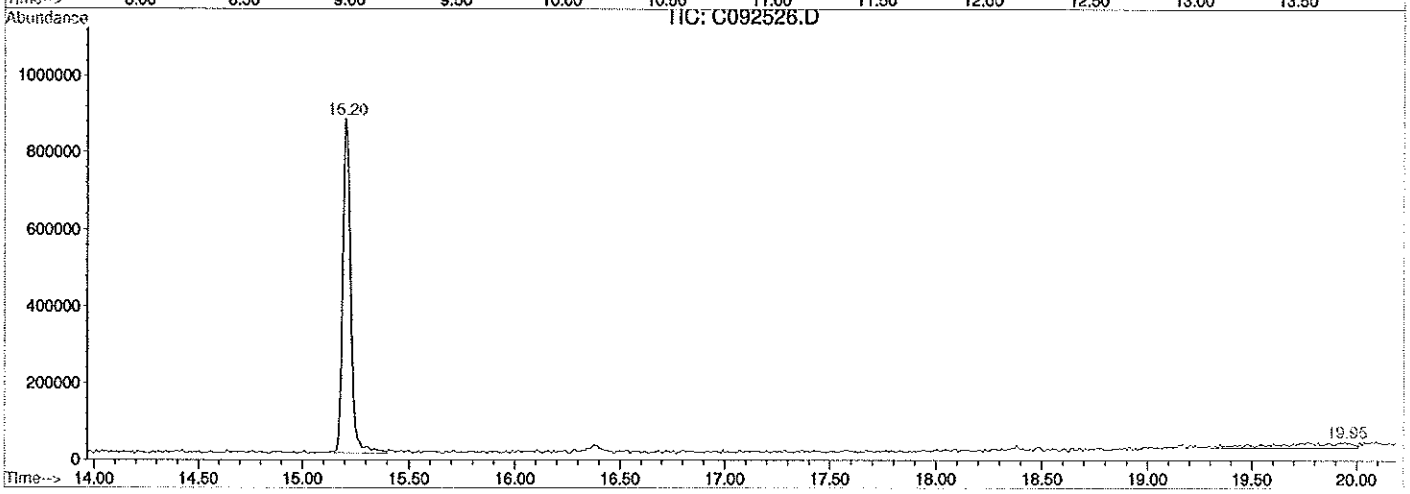
C092526.D VOA0815.M Wed Oct 15 13:37:57 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092526.D
Operator : MT
Acquired : 25 Sep 2008 9:16 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-12A,1,
Misc Info : 8260+_W
Vial Number: 26
Quant File :VOA0815.RES (RTE Integrator)







C092526.D VOA0815.M Wed Oct 15 13:38:04 2008 VOA8

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092608\D092613.D Vial: 13
Acq On : 26 Sep 2008 1:51 pm Operator: BR
Sample : ,SAMP,ME0809B07-13A,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 19:57 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

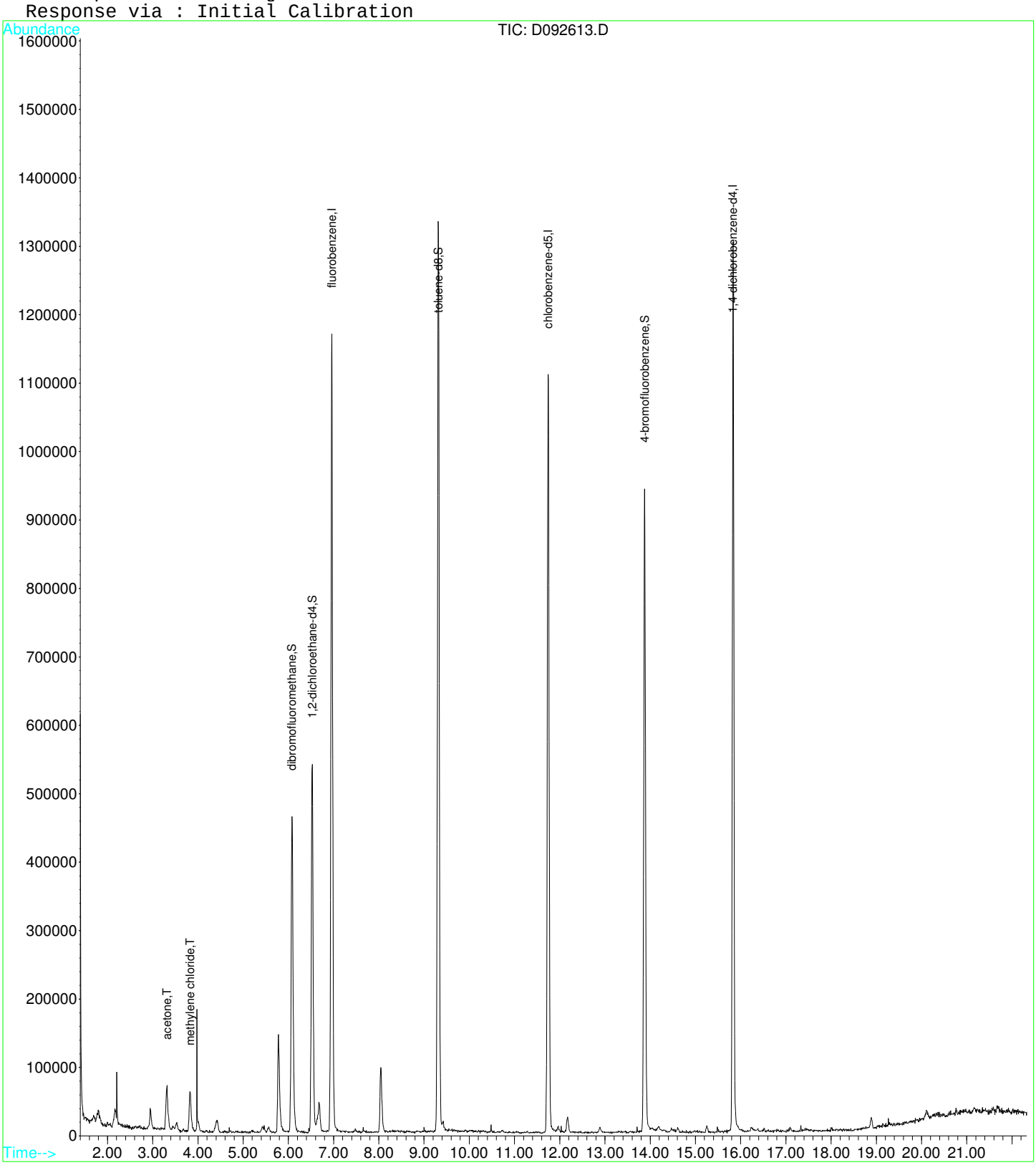
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1378005	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.75	117	945744	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.83	152	462896	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	421337	54.25 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.53	65	547763	51.57 ug/L	-0.02
44) toluene-d8	9.31	98	1233553	50.29 ug/L	-0.02
63) 4-bromofluorobenzene	13.88	95	544789	49.74 ug/L	-0.02
Target Compounds					Qvalue
11) acetone	3.32	43	90669	19.32 ug/L	91
13) methylene chloride	3.83	84	36609	3.80 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092608\D092613.D Vial: 13
Acq On : 26 Sep 2008 1:51 pm Operator: BR
Sample : ,SAMP,ME0809B07-13A,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 19:57 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 26 Sep 2008 1:51 pm
Data File: C:\HPCHEM\1\DATA\D092608\D092613.D
Name: ,SAMP,ME0809B07-13A,1,
Misc: 8260+_W
Method: C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title: VOA ICAL 08/18/08
Library Searched: C:\DATABASE\nbs75k.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Furan, tetrahydro-	5.78	6.5	ug/L	413739	ISTD01	6.96	3200290	50.0

D092613.D VOA0818.M Wed Oct 15 14:39:30 2008 VOA4

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\D092608\D092613.D Vial: 13
Acq On : 26 Sep 2008 1:51 pm Operator: BR
Sample : ,SAMP,ME0809B07-13A,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

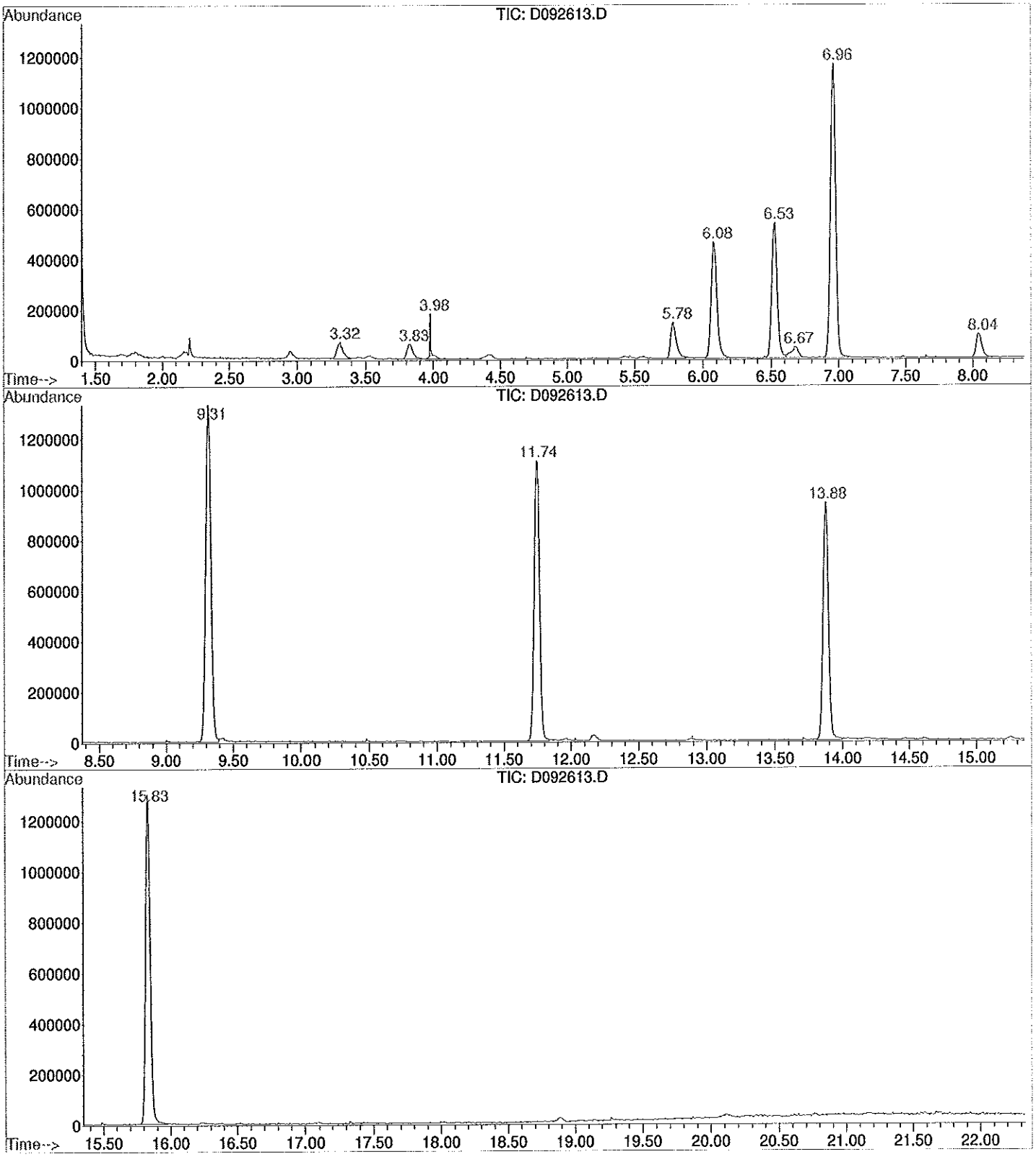
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.317	311	320	333	rVB2	64746	196409	5.42%	0.988%
2	3.828	395	405	421	rBV2	58822	189848	5.24%	0.955%
3	3.978	425	430	444	rVB	178689	121876	3.36%	0.613%
4	5.782	721	730	746	rBV3	142791	413739	11.41%	2.082%
5	6.077	768	779	800	rVB	461163	1391495	38.38%	7.003%
6	6.528	843	854	867	rBV	536240	1492976	41.18%	7.514%
7	6.672	867	878	889	rVB6	42716	158660	4.38%	0.799%
8	6.961	912	926	945	rBV	1165801	3200285	88.28%	16.106%
9	8.043	1094	1106	1122	rVB3	94983	286422	7.90%	1.442%
10	9.312	1305	1317	1330	rBV	1330166	3625118	100.00%	18.244%
11	11.742	1708	1721	1737	rBV	1107773	3085885	85.13%	15.531%
12	13.877	2064	2076	2096	rBV	939882	2615185	72.14%	13.162%
13	15.831	2387	2401	2425	rBV	1299460	3091799	85.29%	15.560%

Sum of corrected areas: 19869697

D092613.D VOA0818.M Wed Oct 15 14:39:25 2008 VOA4

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\D092608\D092613.D
Operator : BR
Acquired : 26 Sep 2008 1:51 pm using AcqMethod VOA-AQ
Instrument : VOA 4
Sample Name: ,SAMP,ME0809B07-13A,1,
Misc Info : 8260+_W
Vial Number: 13
Quant File :VOA0818.RES (RTE Integrator)



D092613.D VOA0818.M Wed Oct 15 14:39:28 2008 VOA4

Library Search Compound Report

```
  Data File : C:\HPCHEM\1\DATA\D092608\D092613.D          Vial: 13
  Acq On    : 26 Sep 2008   1:51 pm                   Operator: BR
  Sample    : ,SAMP,ME0809B07-13A,1,                  Inst    : VOA 4
  Misc      : 8260+_W                                 Multiplr: 1.00
  MS Integration Params: RTEINT.P

  Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
  Title        : VOA ICAL 08/18/08
  Library      : C:\DATABASE\nbs75k.L
*****************************************************************
Peak Number  1  Furan, tetrahydro-            Concentration Rank  1

  R.T.   EstConc          Area       Relative to ISTD        R.T.
-----------------------------------------------------------------
  5.78   6.46 ug/L       413739    fluorobenzene             6.96

 Hit# of  5    Tentative ID              MW  MolForm       CAS#       Qual
-----------------------------------------------------------------------
 1 Furan, tetrahydro-                    72 C4H8O          000109-99-9 86
 2 Furan, tetrahydro-                    72 C4H8O          000109-99-9 86
 3 Furan, tetrahydro-                    72 C4H8O          000109-99-9 86
 4 Furan, tetrahydro-                    72 C4H8O          000109-99-9 72
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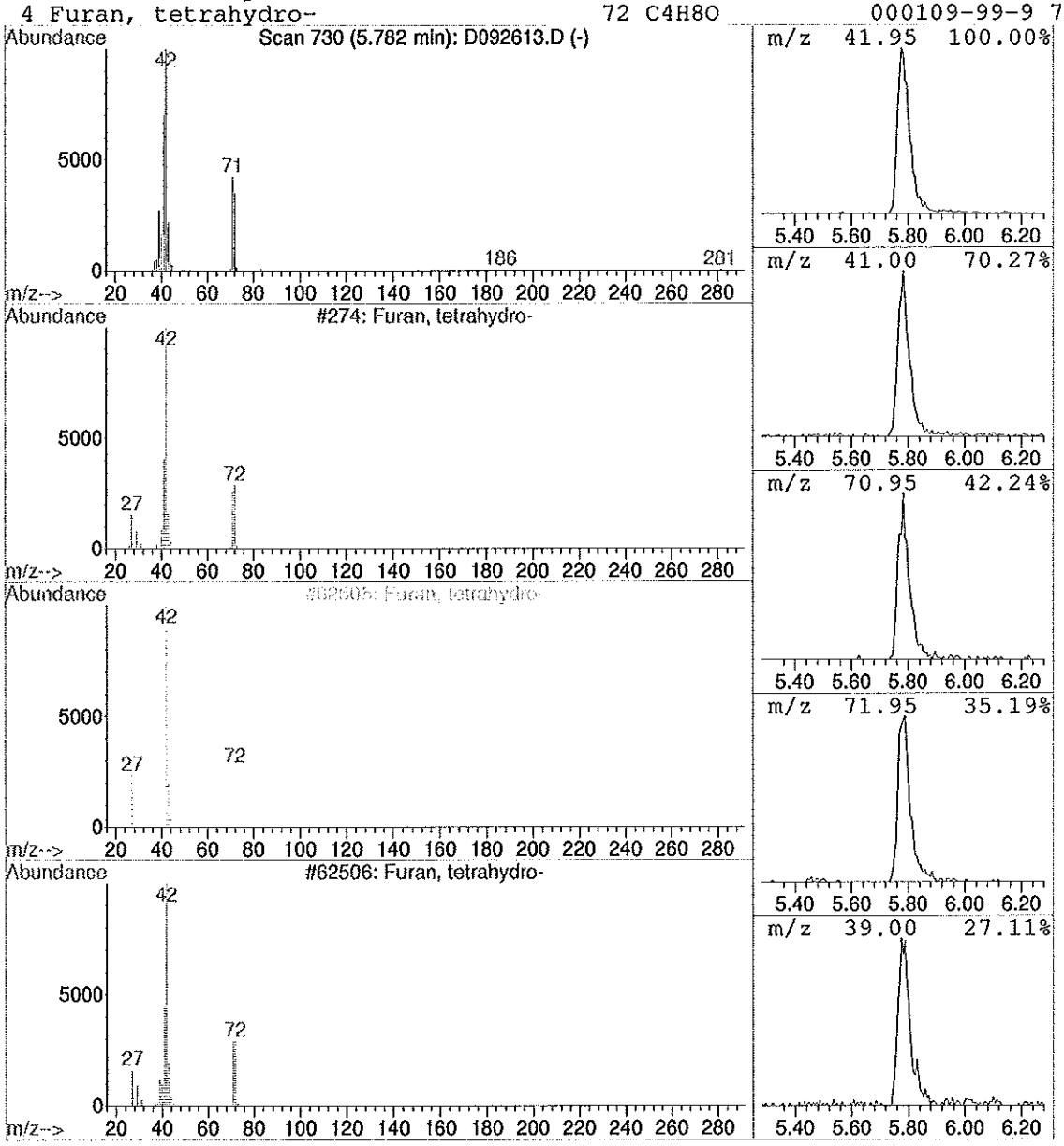


Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092527.D Vial: 27
Acq On : 25 Sep 2008 9:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-14A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:34 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

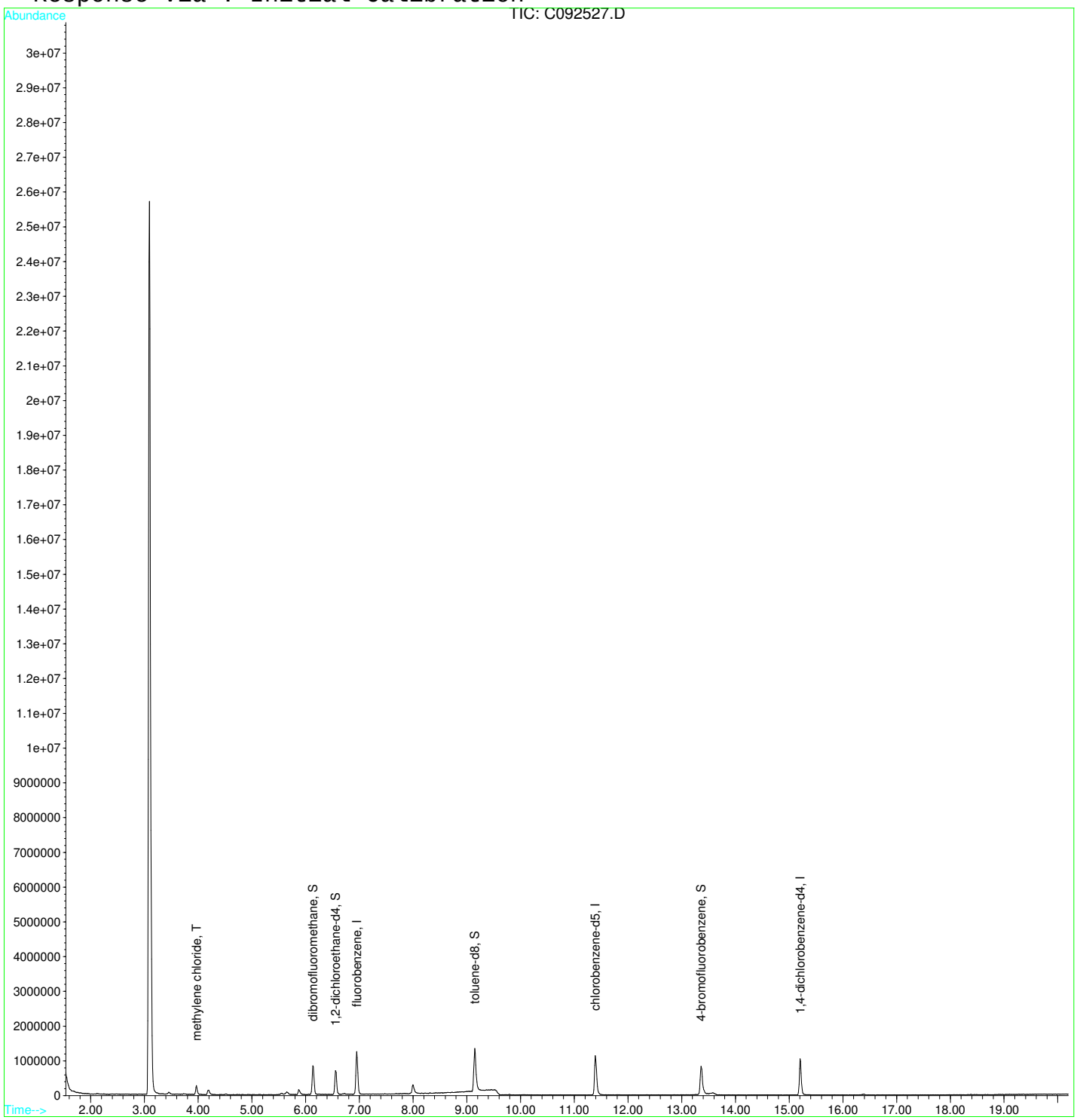
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1418165	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1042801	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	416234	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	668142	61.27 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	624513	61.46 ug/L	0.00
44) toluene-d8	9.15	98	1315017	52.99 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	575609	52.65 ug/L	0.00
Target Compounds					Qvalue
13) methylene chloride	3.97	84	125694	9.17 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092527.D Vial: 27
Acq On : 25 Sep 2008 9:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-14A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:34 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 9:46 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092527.D
Name: ,SAMP,ME0809B07-14A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethane, 1,1'-oxybis-	3.09	943.0	ug/L	65948400	ISTD01	6.95	3496850	50.0
1,4-Dioxane	8.00	49.8	ug/L	3483950	ISTD01	6.95	3496850	50.0

C092527.D VOA0815.M Wed Oct 15 13:38:41 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092527.D Vial: 27
Acq On : 25 Sep 2008 9:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-14A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

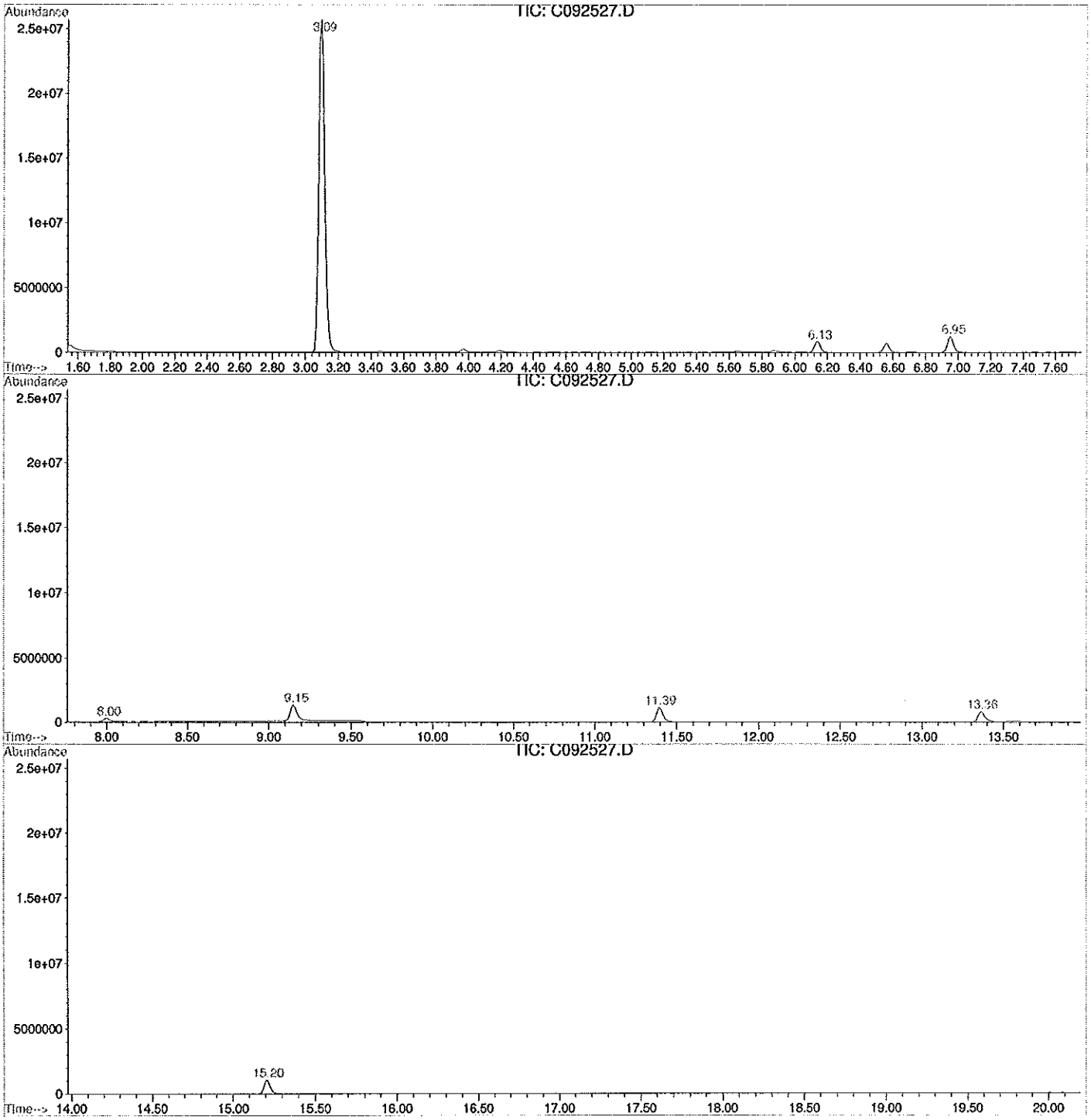
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.092	152	159	192	rBV	25687904	65948383	100.00%	72.537%
2	6.134	462	468	506	rBV	823877	2144859	3.25%	2.359%
3	6.952	544	551	631	rBV	1229983	3496850	5.30%	3.846%
4	7.995	650	657	769	rBV2	253319	3483952	5.28%	3.832%
5	9.147	769	774	825	rVB	1337538	7194401	10.91%	7.913%
6	11.392	993	1002	1025	rBV	1132429	3301059	5.01%	3.631%
7	13.362	1195	1202	1217	rBV	819491	2641420	4.01%	2.905%
8	15.203	1383	1389	1417	rBV	1041894	2705666	4.10%	2.976%

Sum of corrected areas: 90916590

C092527.D VOA0815.M Wed Oct 15 13:38:24 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092527.D
Operator : MT
Acquired : 25 Sep 2008 9:46 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-14A,1,
Misc Info : 8260+_W
Vial Number: 27
Quant File :VOA0815.RES (RTE Integrator)



C092527.D VOA0815.M Wed Oct 15 13:38:31 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092527.D Vial: 27
Acq On : 25 Sep 2008 9:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-14A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

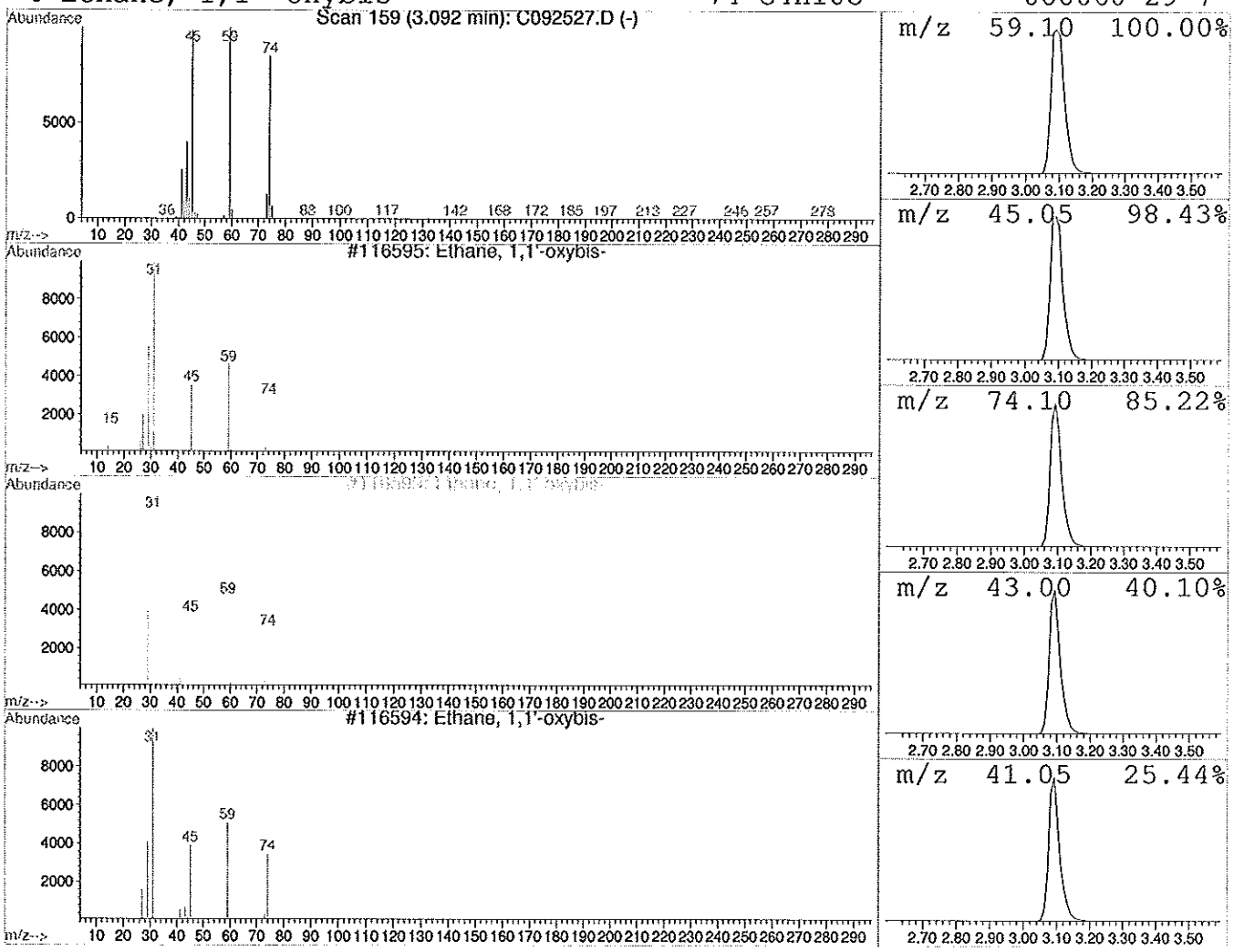
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Ethane, 1,1'-oxybis- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.09	942.97 ug/L	65948400	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	90
2	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	90
3	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	86
4	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	78



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092527.D Vial: 27
Acq On : 25 Sep 2008 9:46 pm Operator: MT
Sample : ,SAMP,ME0809B07-14A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

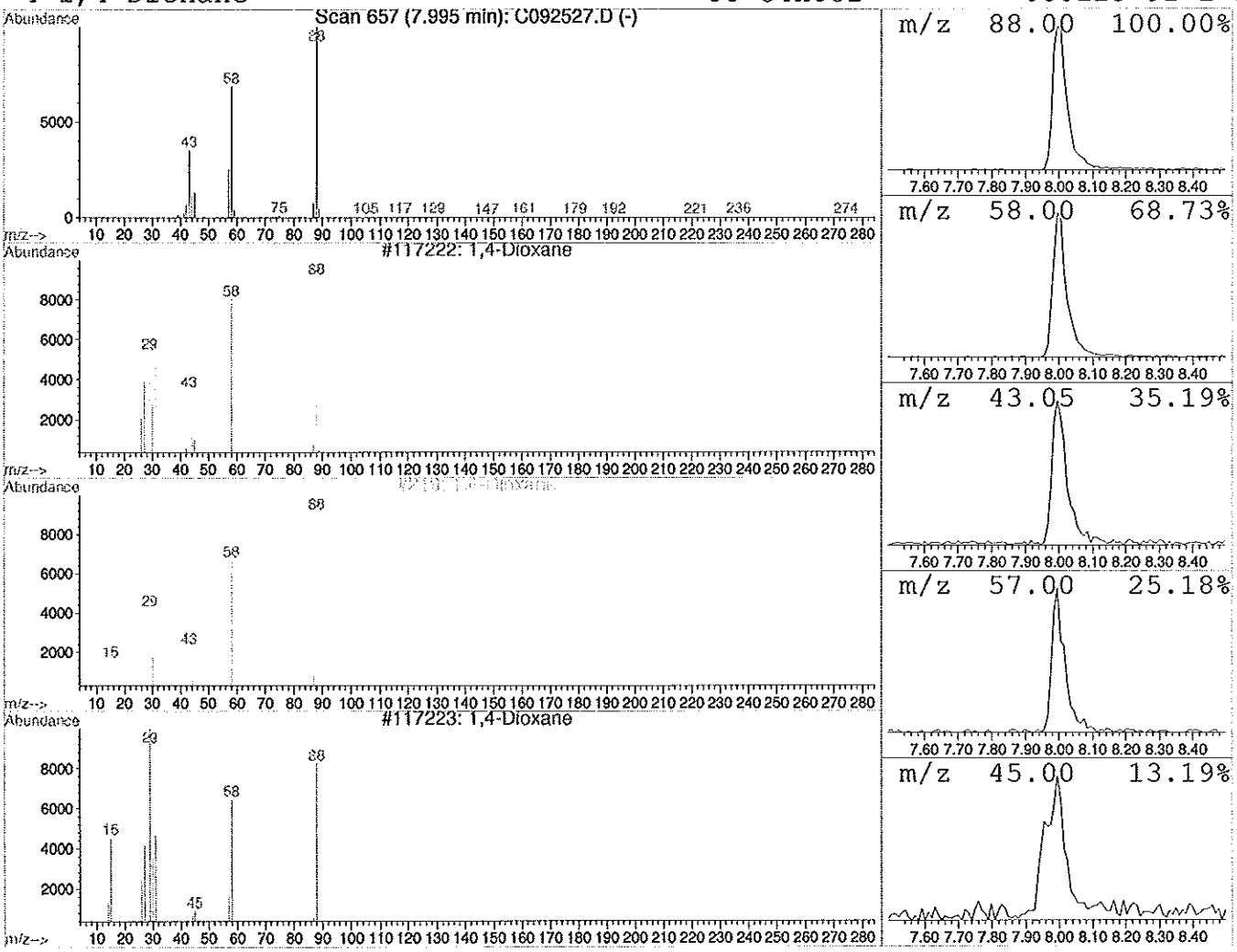
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 1,4-Dioxane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.00	49.82 ug/L	3483950	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dioxane	88	C4H8O2	000123-91-1	91
2	1,4-Dioxane	88	C4H8O2	000123-91-1	90
3	1,4-Dioxane	88	C4H8O2	000123-91-1	90
4	1,4-Dioxane	88	C4H8O2	000123-91-1	90



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:34 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

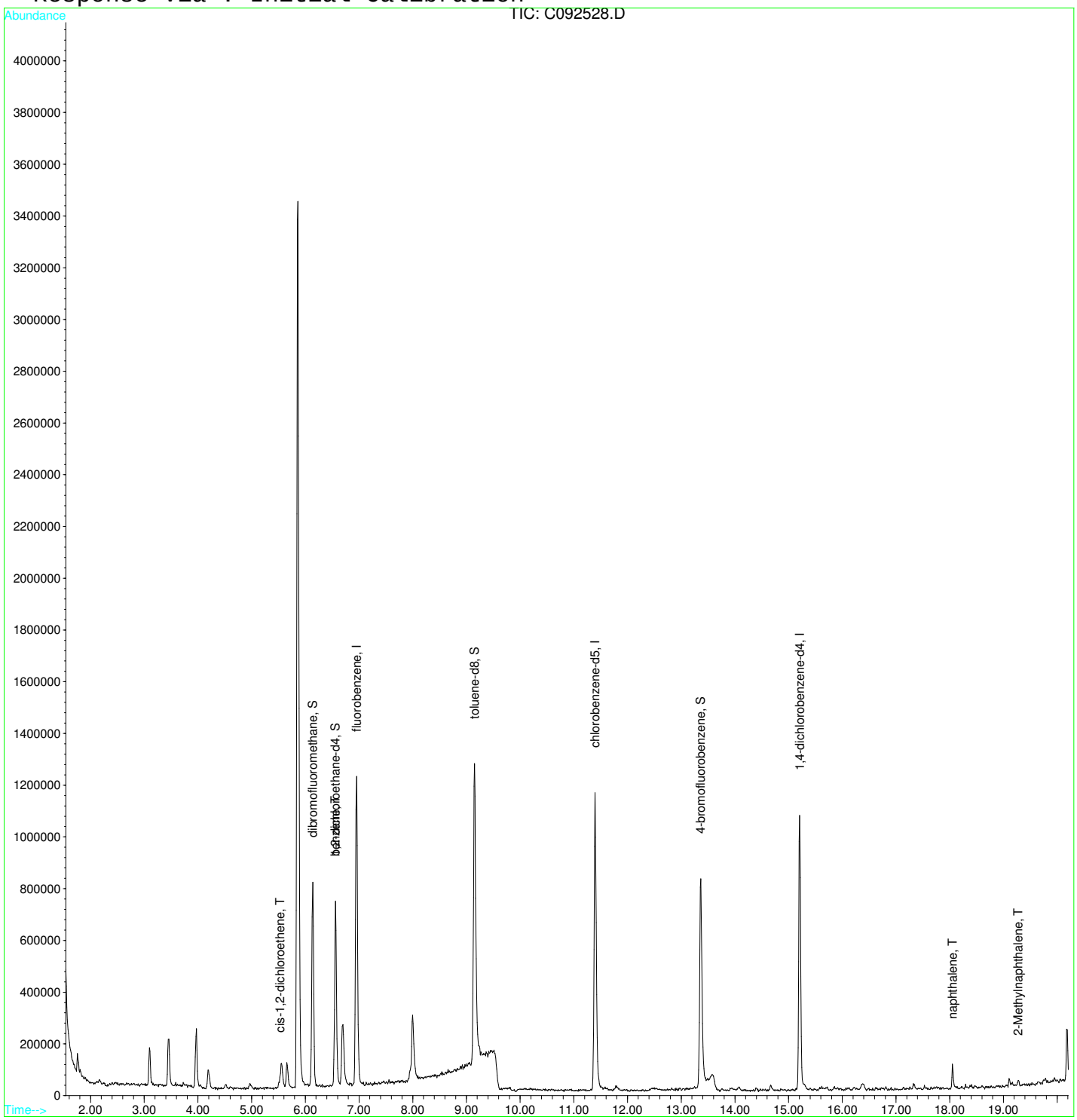
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1408632	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	1041177	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.21	152	417508	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	591613	54.62 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	570543	56.52 ug/L	0.00
44) toluene-d8	9.15	98	1308868	52.82 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	541842	49.64 ug/L	0.00
Target Compounds					Qvalue
21) cis-1,2-dichloroethene	5.52	96	15667	1.70 ug/L #	48
31) benzene	6.57	78	134593	4.52 ug/L	96
83) naphthalene	18.05	128	70847	4.01 ug/L	100
85) 2-Methylnaphthalene	19.27	142	10421	1.98 ug/L	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 6:34 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: MT Date Acquired: 25 Sep 2008 10:16 pm
Data File: C:\HPCHEM\3\DATA\C092508\C092528.D
Name: ,SAMP,ME0809B07-15A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethane, 1,1-difluoro	1.76	18.4	ug/L	1188070	ISTD01	6.95	3232580	50.0
Ethane, 1,1'-oxybis-	3.09	5.9	ug/L	383828	ISTD01	6.95	3232580	50.0
Furan, tetrahydro-	5.86	140.8	ug/L	9101820	ISTD01	6.95	3232580	50.0
1-Propanol, 2-(2-met	6.70	14.8	ug/L	953922	ISTD01	6.95	3232580	50.0
Pyrido[2,3-d]pyrimid	7.56	9.5	ug/L	613233	ISTD01	6.95	3232580	50.0
1,4-Dioxane	8.00	77.1	ug/L	4985200	ISTD01	6.95	3232580	50.0

C092528.D VOA0815.M Wed Oct 15 13:39:47 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

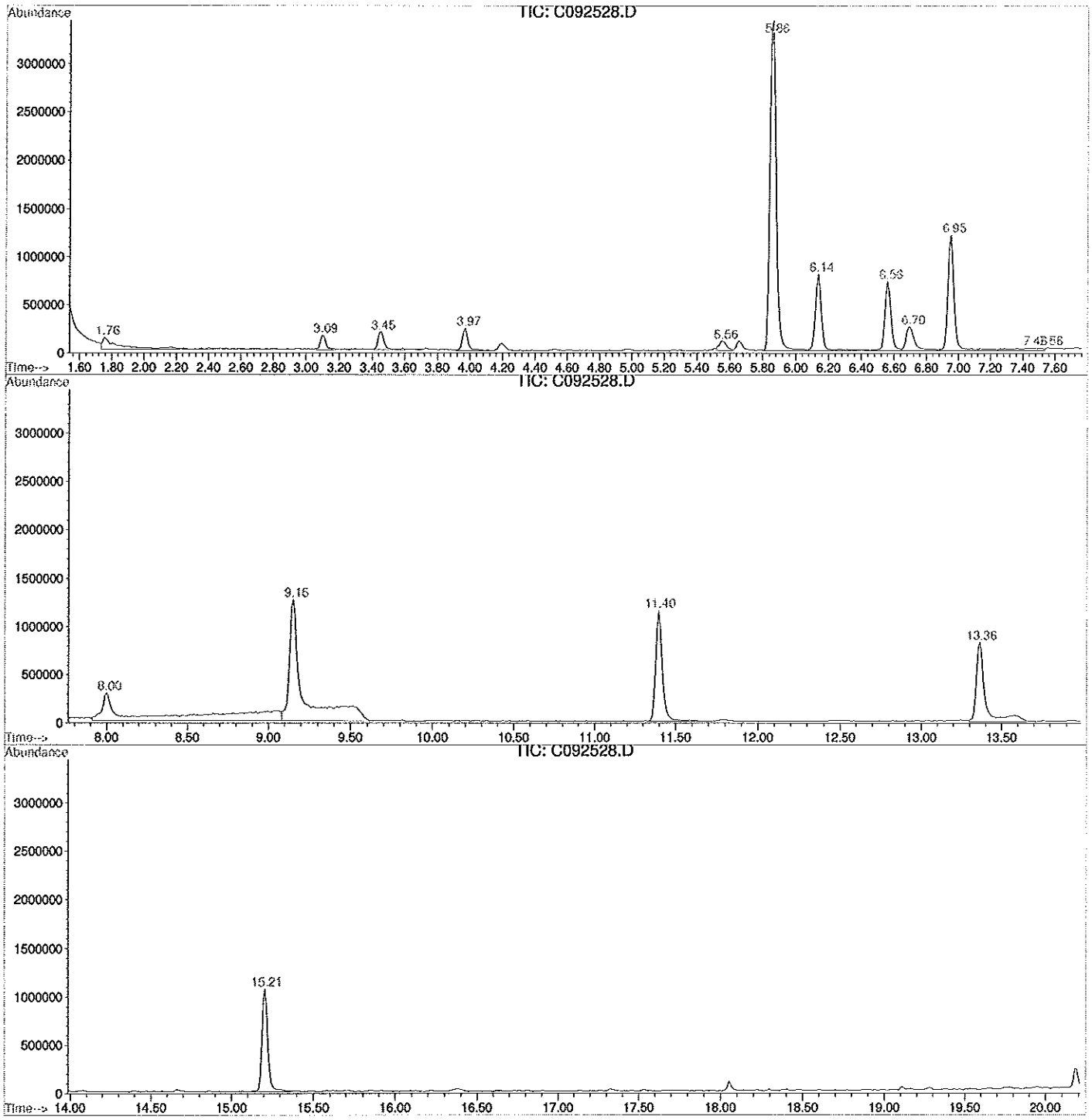
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.756	21	23	141	rVB2	125891	1188066	13.05%	2.770%
2	3.095	155	159	176	rVB2	151105	383828	4.22%	0.895%
3	3.449	191	195	221	rVV	181644	528920	5.81%	1.233%
4	3.971	242	248	266	rVV	232611	578138	6.35%	1.348%
5	5.556	400	409	415	rBV	95145	335948	3.69%	0.783%
6	5.862	433	440	462	rVV	3427446	9101818	100.00%	21.222%
7	6.137	462	468	504	rVV	796773	2100582	23.08%	4.898%
8	6.561	504	511	520	rVV2	723090	1879614	20.65%	4.383%
9	6.699	520	525	544	rVV2	246678	953922	10.48%	2.224%
10	6.955	544	551	568	rVV	1206802	3232576	35.52%	7.537%
11	7.457	568	602	610	rVV	29648	506003	5.56%	1.180%
12	7.555	610	612	648	rVV	34418	613233	6.74%	1.430%
13	7.998	648	657	767	rVV3	285174	4985203	54.77%	11.624%
14	9.150	767	774	827	rVV	1259053	7244358	79.59%	16.891%
15	11.395	995	1002	1035	rVB	1151704	3316430	36.44%	7.733%
16	13.365	1195	1202	1238	rVB	823640	3251621	35.72%	7.582%
17	15.206	1380	1389	1406	rBV	1063890	2688032	29.53%	6.268%

Sum of corrected areas: 42888292

C092528.D VOA0815.M Wed Oct 15 13:39:13 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092508\C092528.D
Operator : MT
Acquired : 25 Sep 2008 10:16 pm using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-15A,1,
Misc Info : 8260+_W
Vial Number: 28
Quant File :VOA0815.RES (RTE Integrator)



C092528.D VOA0815.M Wed Oct 15 13:39:22 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

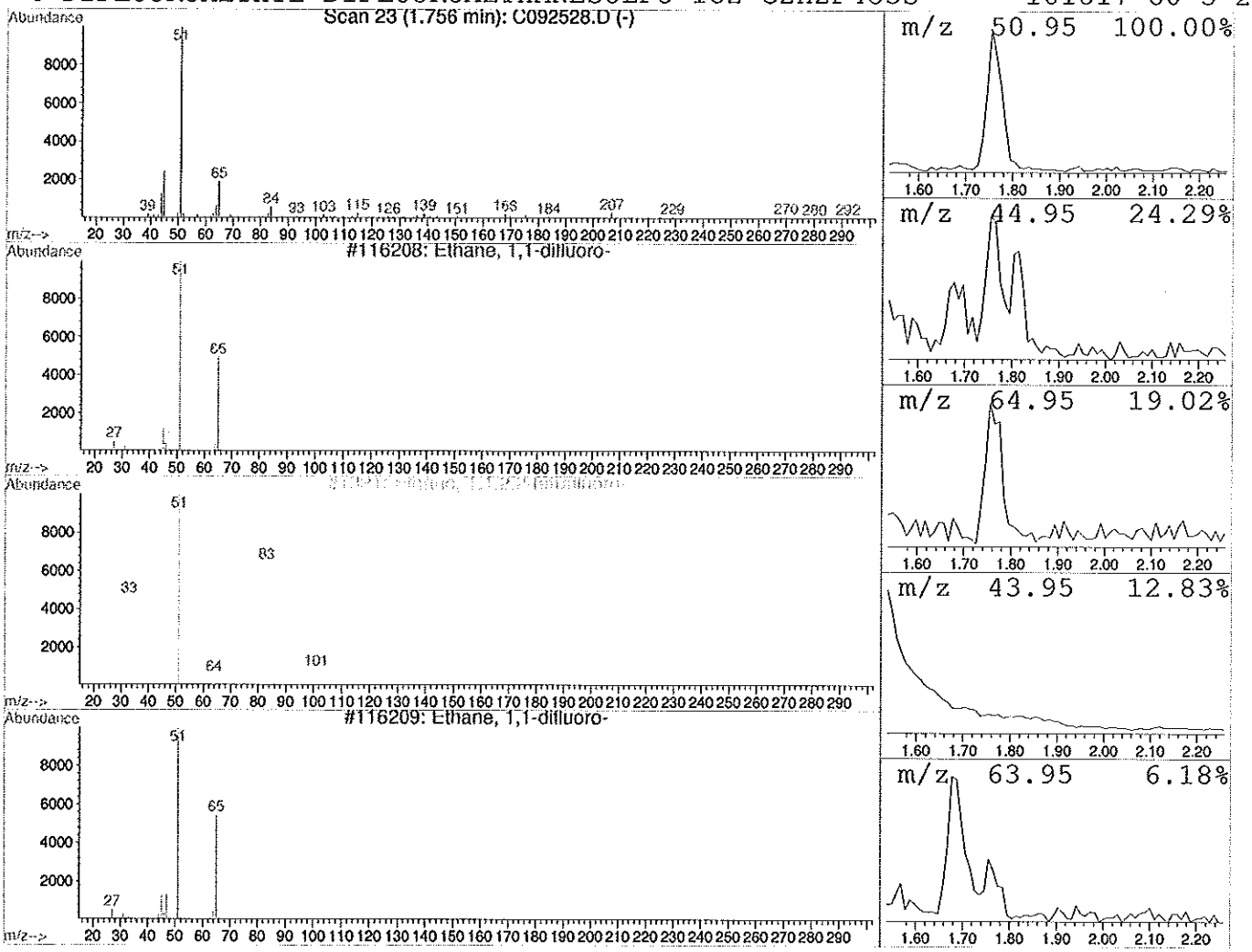
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Ethane, 1,1-difluoro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.76	18.38 ug/L	1188070	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	4
2	Ethane, 1,1,2,2-tetrafluoro-	102	C2H2F4	000359-35-3	2
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	2
4	DIFLUOROMETHYL DIFLUOROMETHANESULFO	182	C2H2F4O3S	101817-80-5	2



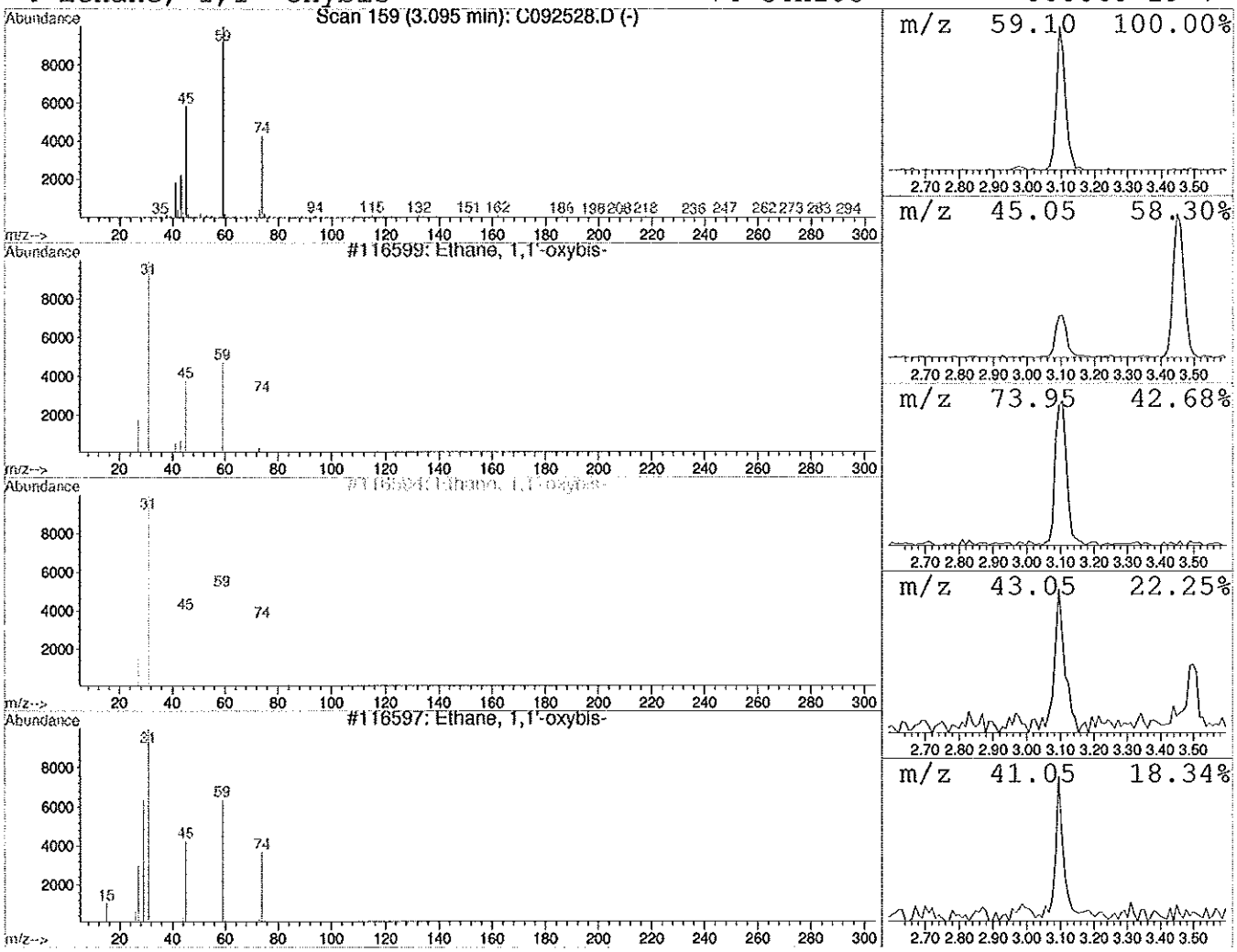
Library Search Compound Report

```
Data File : C:\HPCHEM\3\DATA\C092508\C092528.D          Vial: 28
Acq On    : 25 Sep 2008  10:16 pm                   Operator: MT
Sample    : ,SAMP,ME0809B07-15A,1,                  Inst    : VOA #3
Misc      : 8260+_W                                 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title        : 8260 ICAL 8/15/08-Misc Included
Library      : C:\DATABASE\WILEY138.L
*****************************************************************
Peak Number  2  Ethane, 1,1'-oxybis-          Concentration Rank  6
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.09	5.94 ug/L	383828	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	64
2	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	53
3	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	53
4	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	53



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

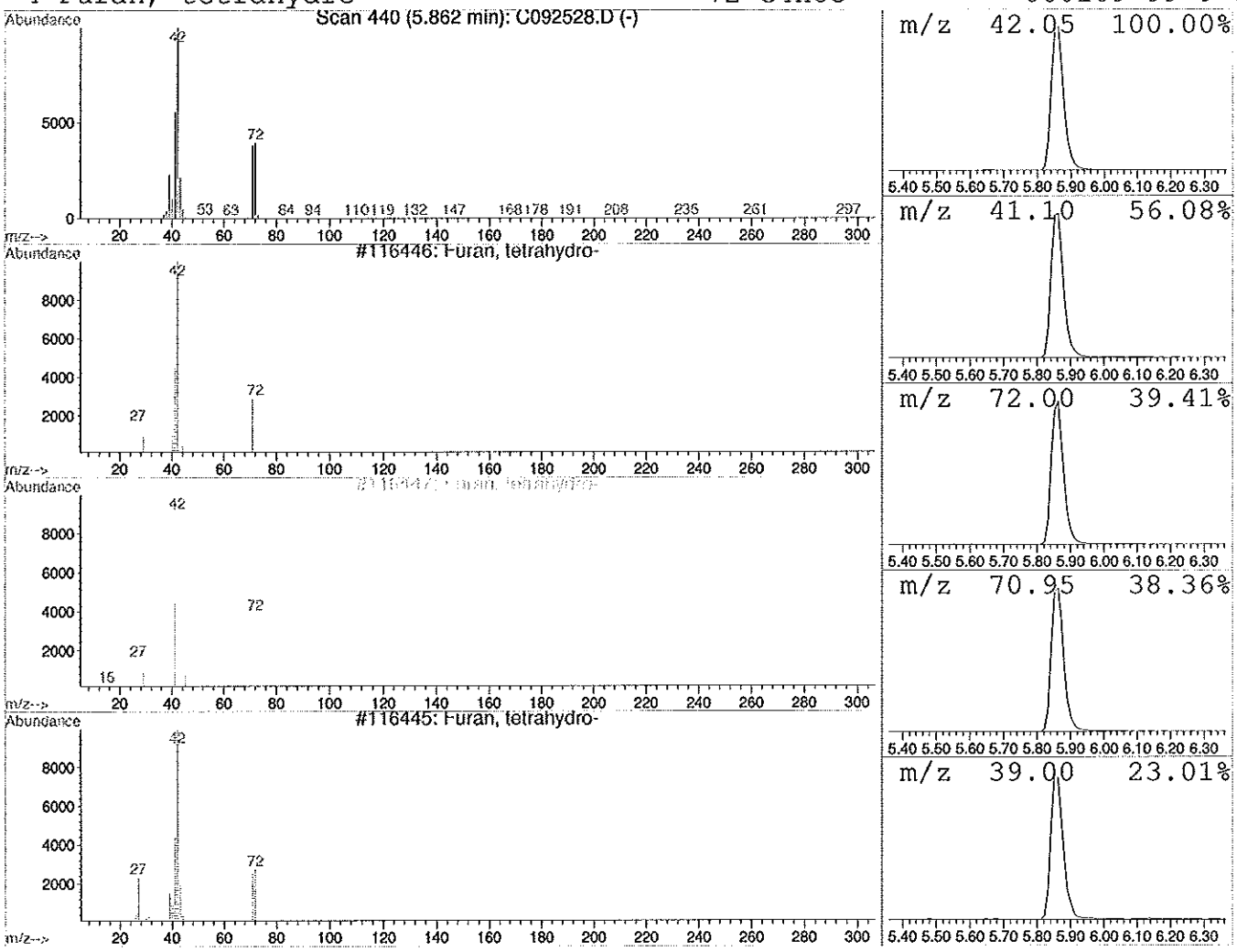
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 3 Furan, tetrahydro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.86	140.78 ug/L	9101820	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-	72	C4H8O	000109-99-9	90
2	Furan, tetrahydro-	72	C4H8O	000109-99-9	90
3	Furan, tetrahydro-	72	C4H8O	000109-99-9	90
4	Furan, tetrahydro-	72	C4H8O	000109-99-9	90



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

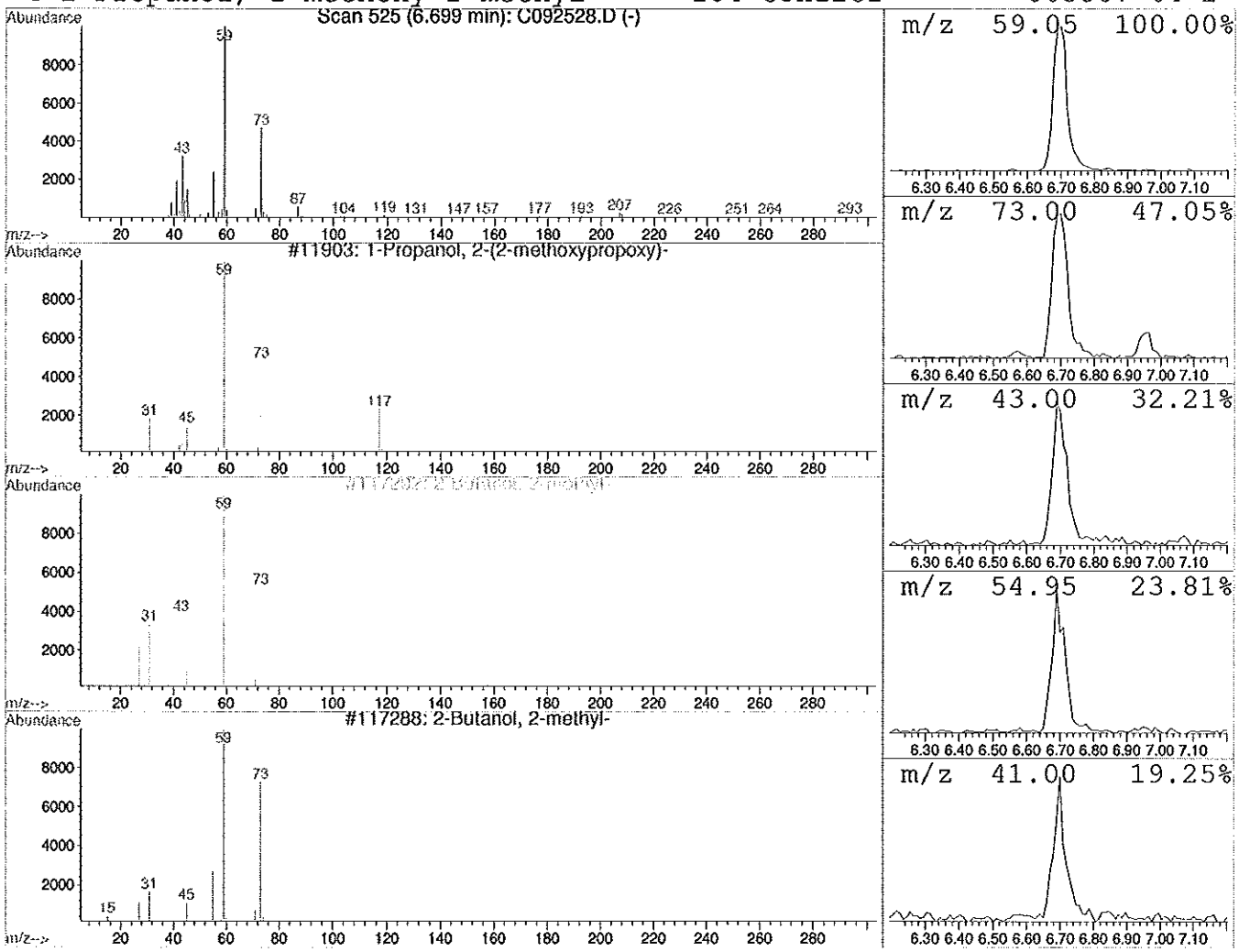
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 4 1-Propanol, 2-(2-methoxypropox Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.70	14.75 ug/L	953922	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	72
2	2-Butanol, 2-methyl-	88	C5H12O	000075-85-4	72
3	2-Butanol, 2-methyl-	88	C5H12O	000075-85-4	72
4	2-Propanol, 1-methoxy-2-methyl-	104	C5H12O2	003587-64-2	64



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

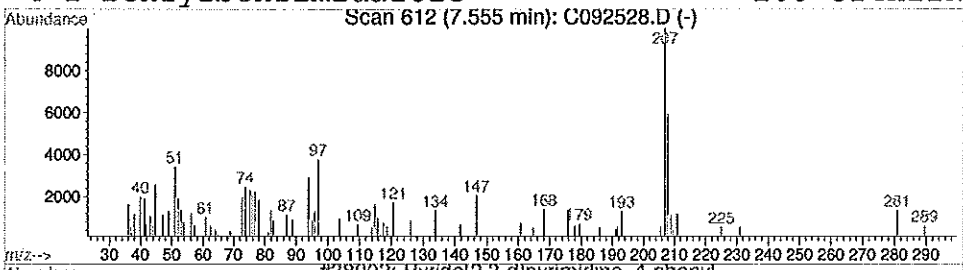
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

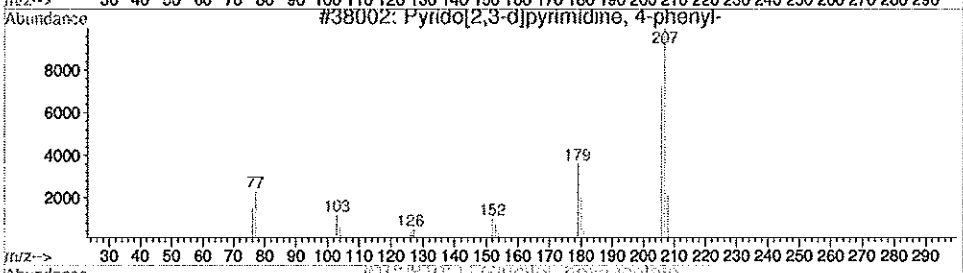
****

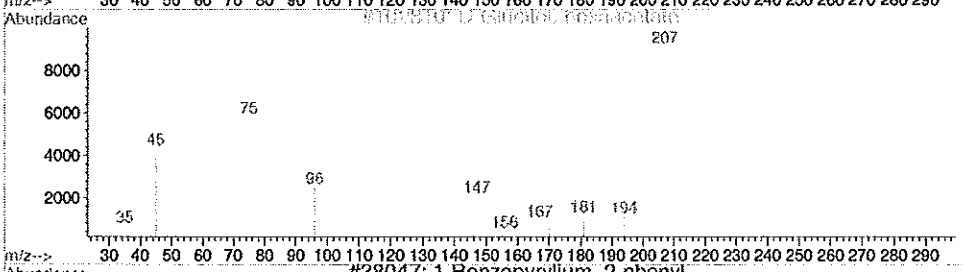
Peak Number 5 Pyrido[2,3-d]pyrimidine, 4-phe Concentration Rank 5

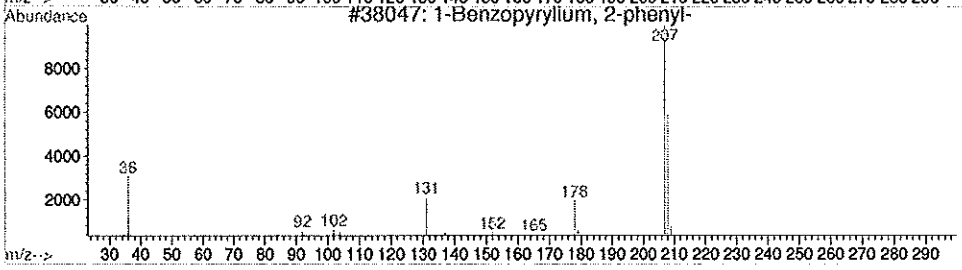
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	9.49 ug/L	613233	fluorobenzene	6.95

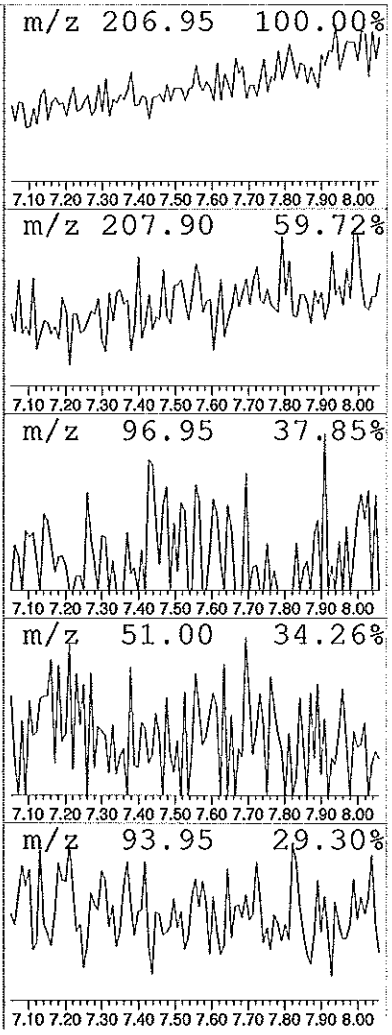
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrido[2,3-d]pyrimidine, 4-phenyl-	207	C13H9N3	028732-75-4	37
2	D-Glucitol, hexaacetate	434	C18H26O12	007208-47-1	27
3	1-Benzopyrylium, 2-phenyl-	207	C15H11O	014051-53-7	27
4	2-Benzylbenzimidazole	208	C14H12N2	000621-72-7	22











Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092508\C092528.D Vial: 28
Acq On : 25 Sep 2008 10:16 pm Operator: MT
Sample : ,SAMP,ME0809B07-15A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

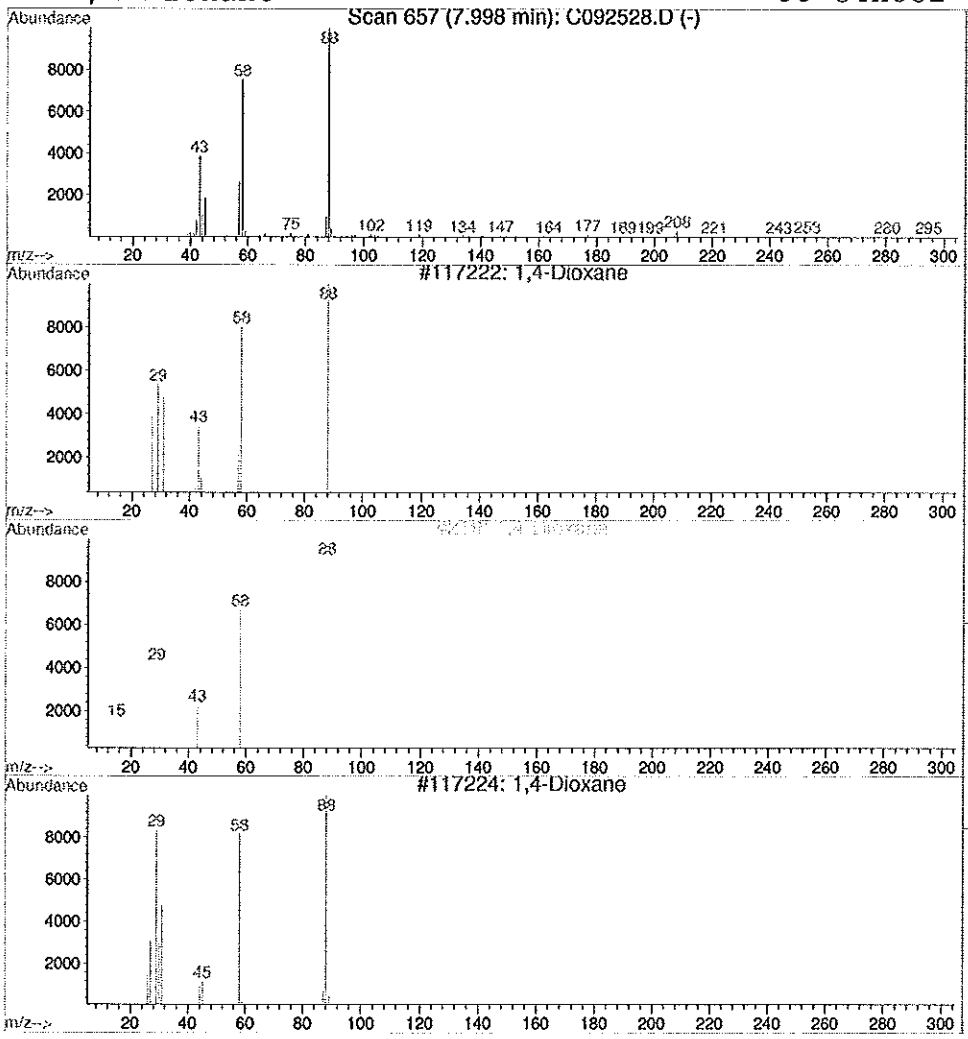
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

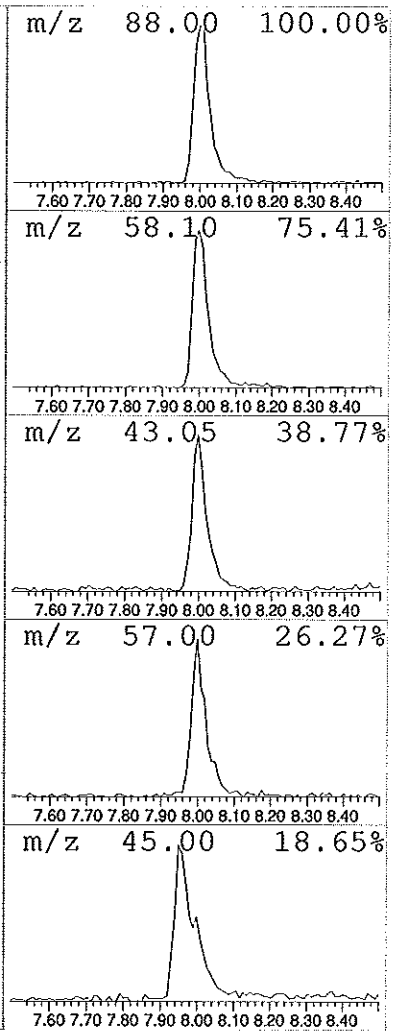
****

Peak Number 6 1,4-Dioxane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.00	77.11 ug/L	4985200	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dioxane	88	C4H8O2	000123-91-1	86
2	1,4-Dioxane	88	C4H8O2	000123-91-1	78
3	1,4-Dioxane	88	C4H8O2	000123-91-1	78
4	1,4-Dioxane	88	C4H8O2	000123-91-1	78





Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092608.D Vial: 4
Acq On : 26 Sep 2008 10:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-16A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:25 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

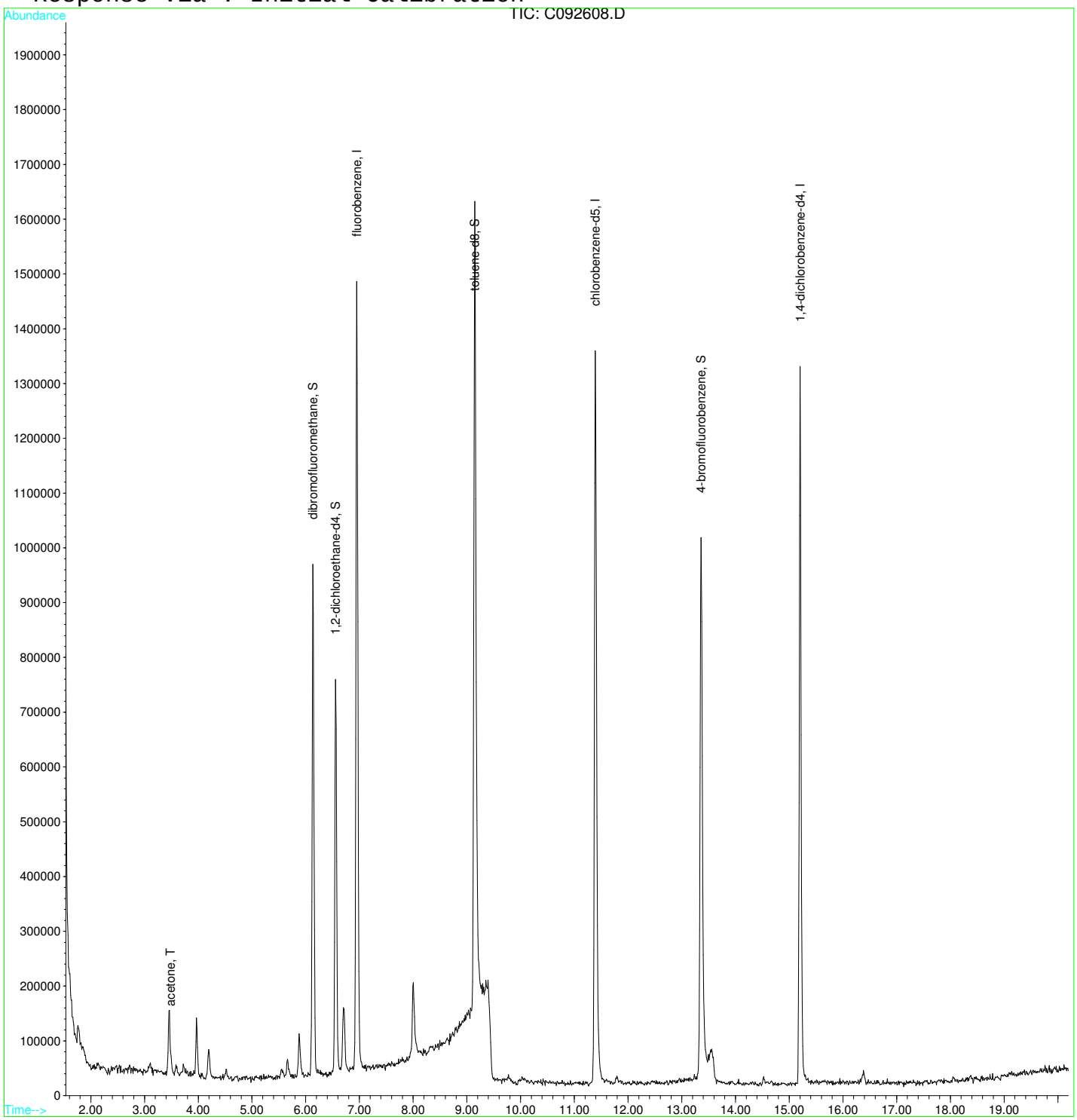
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1798969	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1319918	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	540388	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	729057	52.70 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	626812	48.62 ug/L	0.00
44) toluene-d8	9.15	98	1633859	52.01 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	671456	48.52 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.49	43	21665	9.75 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092608.D Vial: 4
Acq On : 26 Sep 2008 10:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-16A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:25 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: NLT Date Acquired: 26 Sep 2008 10:32 am
Data File: C:\HPCHEM\3\DATA\C092608\C092608.D
Name: ,SAMP,ME0809B07-16A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
trans-3-t-Butylcyclo	1.76	9.3	ug/L	909909	ISTD01	6.95	4885970	50.0
1,4-Dioxane	8.00	54.4	ug/L	5313500	ISTD01	6.95	4885970	50.0

C092608.D VOA0815.M Wed Oct 15 14:10:20 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092608\C092608.D Vial: 4
Acq On : 26 Sep 2008 10:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-16A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

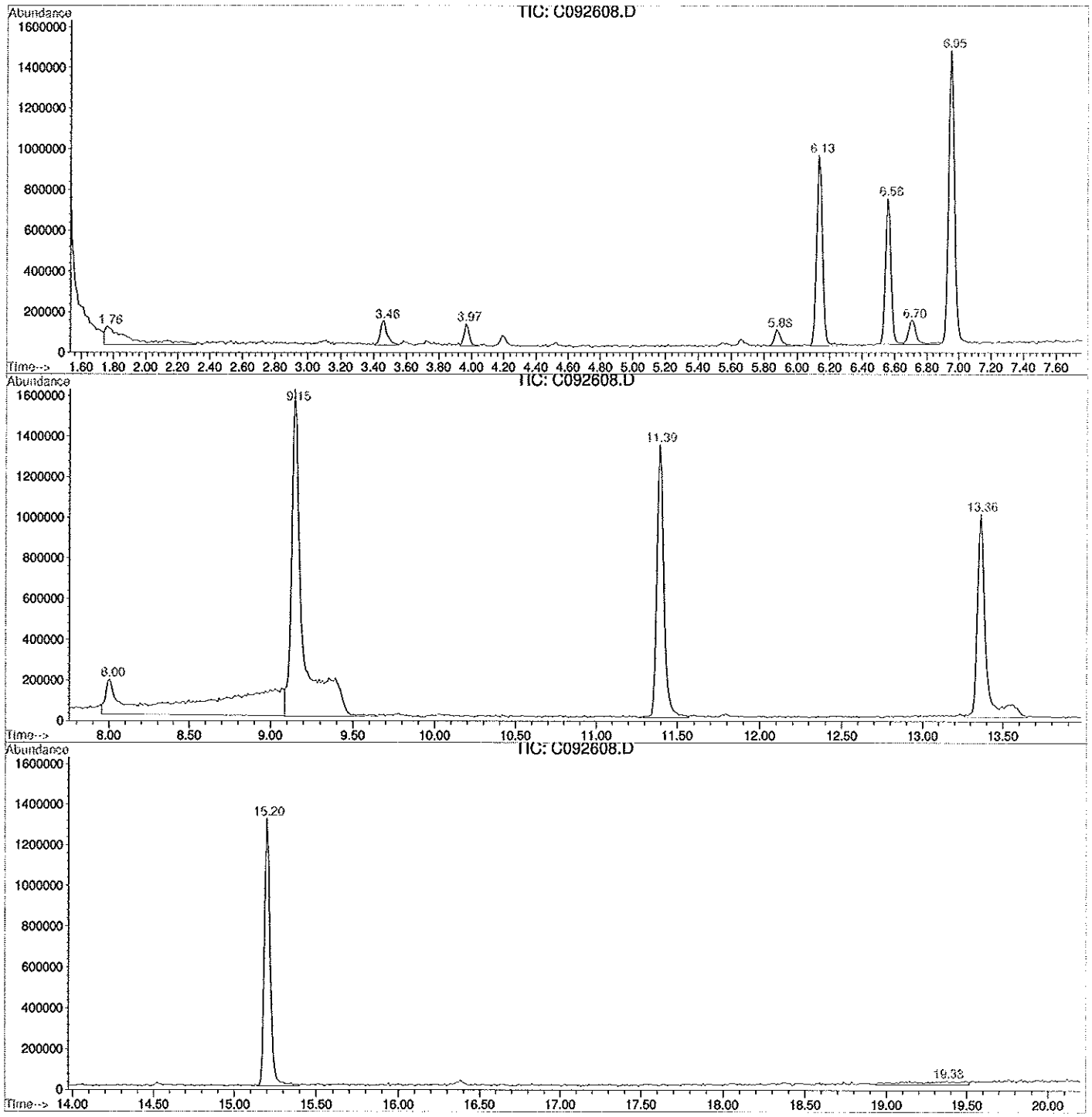
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.761	22	24	80	rVB3	89581	909909	11.80%	2.565%
2	3.465	191	197	206	rBV	119009	347729	4.51%	0.980%
3	3.967	244	248	256	rVB2	110874	249954	3.24%	0.705%
4	5.877	437	442	458	rVV2	79724	234395	3.04%	0.661%
5	6.133	463	468	498	rVB	934547	2334985	30.28%	6.583%
6	6.556	506	511	521	rBV	715956	1690944	21.92%	4.767%
7	6.704	521	526	544	rVV3	117961	418531	5.43%	1.180%
8	6.950	544	551	653	rVV	1446378	4885967	63.35%	13.776%
9	8.004	653	658	768	rVV2	176256	5313501	68.90%	14.981%
10	9.146	768	774	825	rVB	1610621	7712453	100.00%	21.745%
11	11.391	989	1002	1020	rBV	1342021	4006630	51.95%	11.296%
12	13.361	1192	1202	1231	rVB	997048	3671175	47.60%	10.351%
13	15.202	1380	1389	1409	rBV	1312968	3290637	42.67%	9.278%
14	19.377	1768	1813	1827	rBV	19023	401634	5.21%	1.132%

Sum of corrected areas: 35468444

C092608.D VOA0815.M Wed Oct 15 14:09:59 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092608\C092608.D
Operator : NLT
Acquired : 26 Sep 2008 10:32 am using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-16A,1,
Misc Info : 8260+_W
Vial Number: 4
Quant File :VOA0815.RES (RTE Integrator)



C092608.D VOA0815.M Wed Oct 15 14:10:09 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092608.D Vial: 4
Acq On : 26 Sep 2008 10:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-16A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

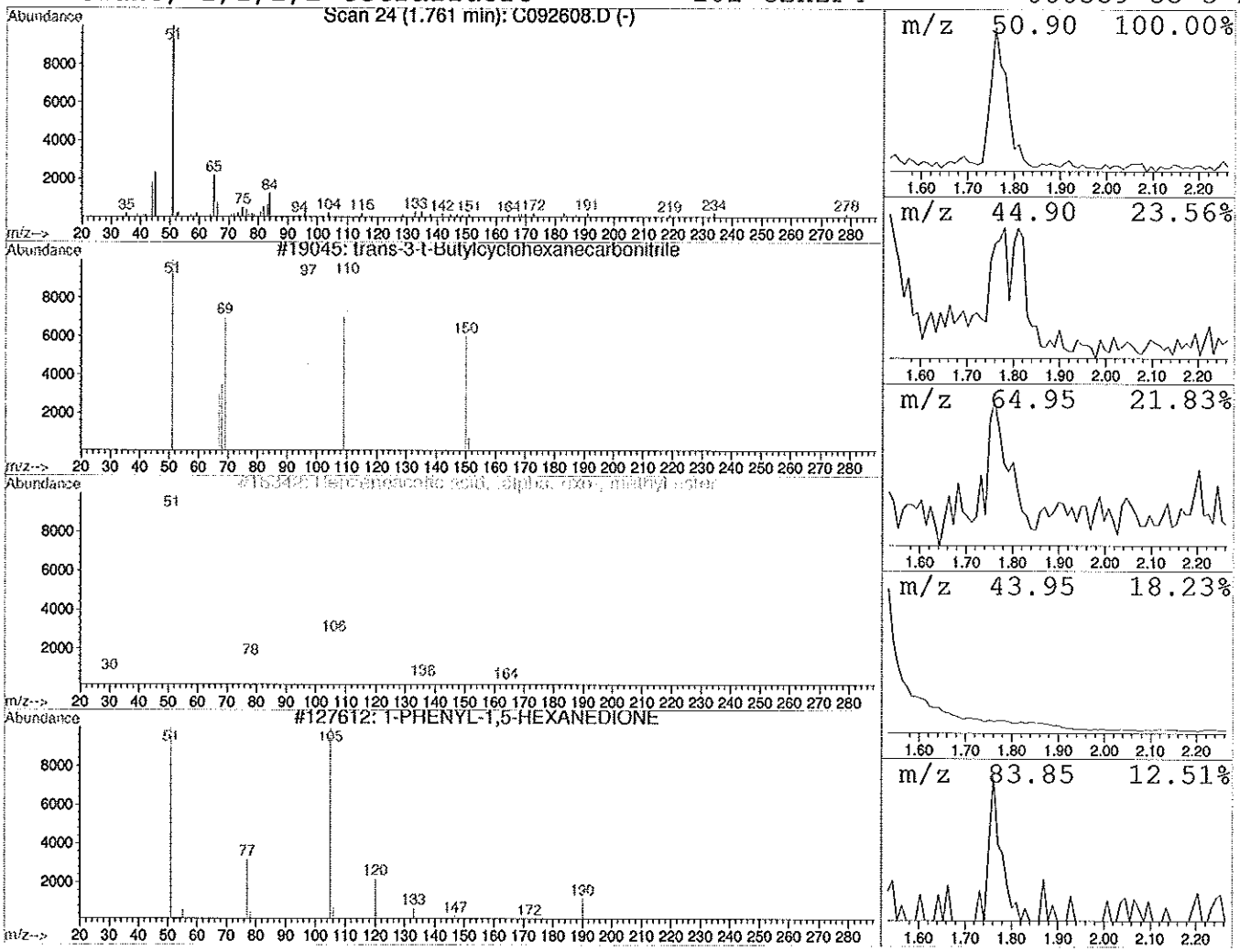
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 trans-3-t-Butylcyclohexanecarb Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.76	9.31 ug/L	909909	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-3-t-Butylcyclohexanecarbonitr	165	C11H19N	084784-46-3	9
2	Benzeneacetic acid, .alpha.-oxo-, m	164	C9H8O3	015206-55-0	4
3	1-PHENYL-1,5-HEXANEDIONE	190	C12H14O2	006303-82-8	2
4	Ethane, 1,1,2,2-tetrafluoro-	102	C2H2F4	000359-35-3	2



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092608.D
Acq On : 26 Sep 2008 10:32 am
Sample : ,SAMP,ME0809B07-16A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 4
Operator: NLT
Inst : VOA #3
Multiplr: 1.00

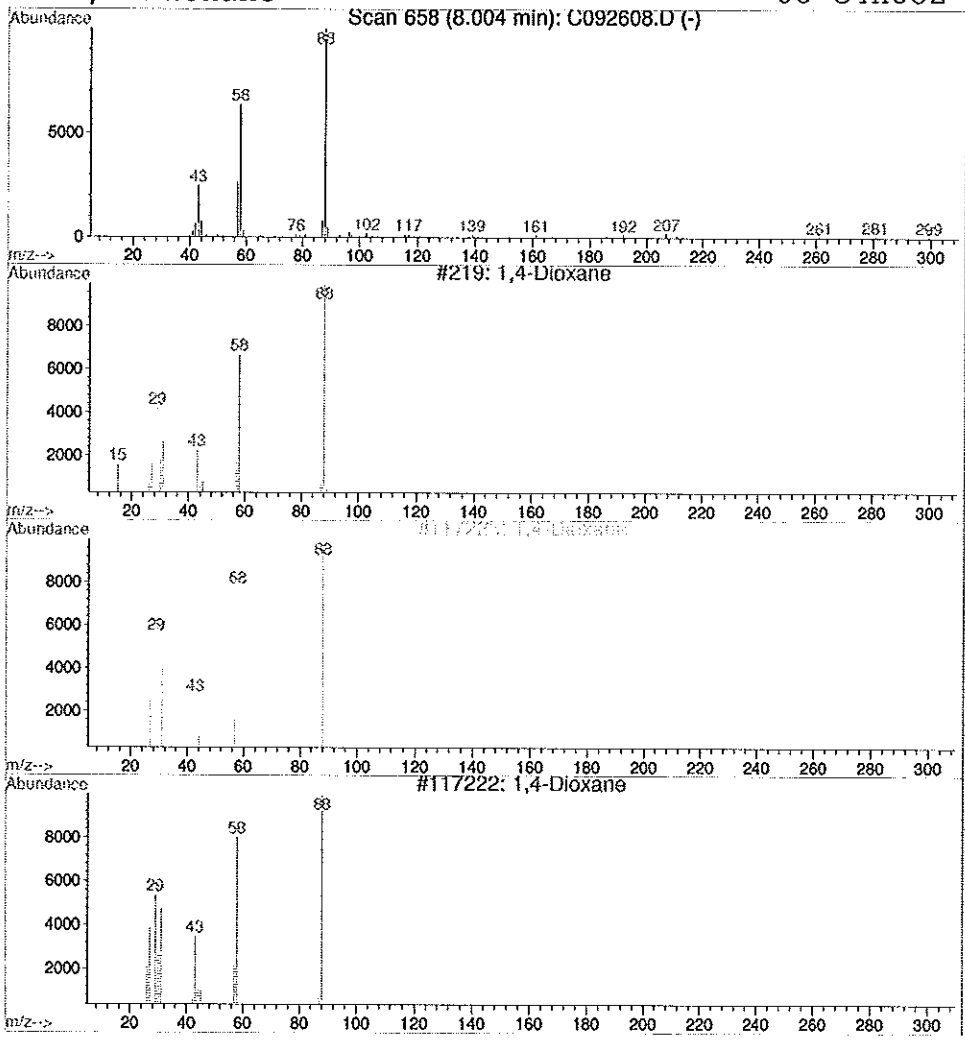
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 1,4-Dioxane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.00	54.38 ug/L	5313500	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dioxane	88	C4H8O2	000123-91-1	86
2	1,4-Dioxane	88	C4H8O2	000123-91-1	86
3	1,4-Dioxane	88	C4H8O2	000123-91-1	86
4	1,4-Dioxane	88	C4H8O2	000123-91-1	86



Tentatively Identified Compound (LSC) summary

Operator ID: NLT Date Acquired: 26 Sep 2008 11:02 am
Data File: C:\HPCHEM\3\DATA\C092608\C092609.D
Name: ,SAMP,ME0809B07-17A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Cyclotrisiloxane, he	9.05	38.2	ug/L	4471640	ISTD01	6.95	5850290	50.0

C092609.D VOA0815.M Wed Oct 15 14:10:53 2008 VOA8

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092609.D Vial: 5
Acq On : 26 Sep 2008 11:02 am Operator: NLT
Sample : ,SAMP,ME0809B07-17A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:26 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	2070509	50.00 ug/L	0.00
41) chlorobenzene-d5	11.40	117	1456613	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.21	152	595689	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.14	113	828785	52.05 ug/L	0.00
30) 1,2-dichloroethane-d4	6.56	65	745458	50.24 ug/L	0.00
44) toluene-d8	9.15	98	1810574	52.23 ug/L	0.00
63) 4-bromofluorobenzene	13.35	95	764844	50.08 ug/L	0.00

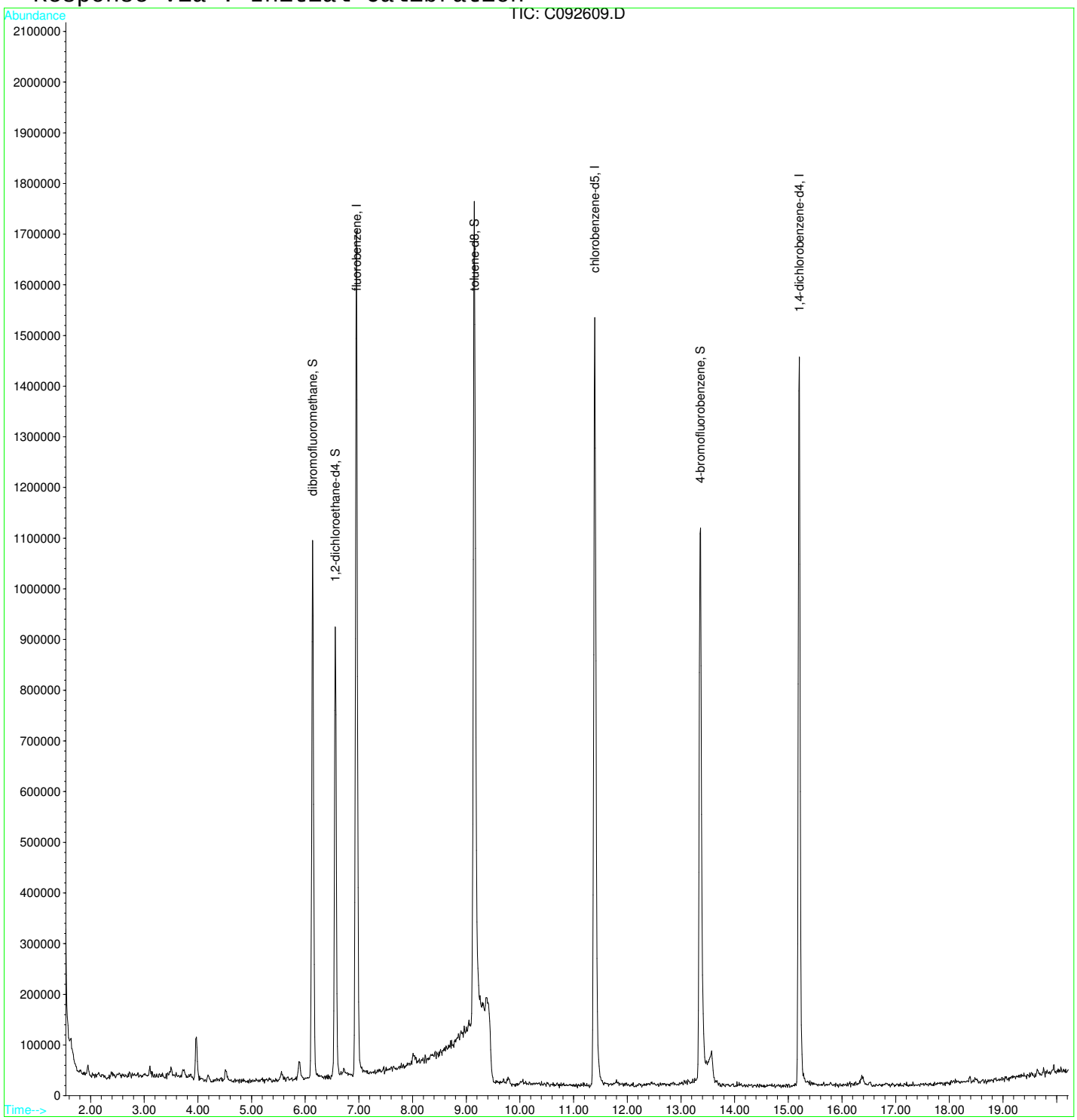
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092609.D Vial: 5
Acq On : 26 Sep 2008 11:02 am Operator: NLT
Sample : ,SAMP,ME0809B07-17A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 11:26 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: NLT Date Acquired: 26 Sep 2008 11:02 am
Data File: C:\HPCHEM\3\DATA\C092608\C092609.D
Name: ,SAMP,ME0809B07-17A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Cyclotrisiloxane, he	9.05	38.2	ug/L	4471640	ISTD01	6.95	5850290	50.0

C092609.D VOA0815.M Wed Oct 15 14:10:53 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092608\C092609.D Vial: 5
Acq On : 26 Sep 2008 11:02 am Operator: NLT
Sample : ,SAMP,ME0809B07-17A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

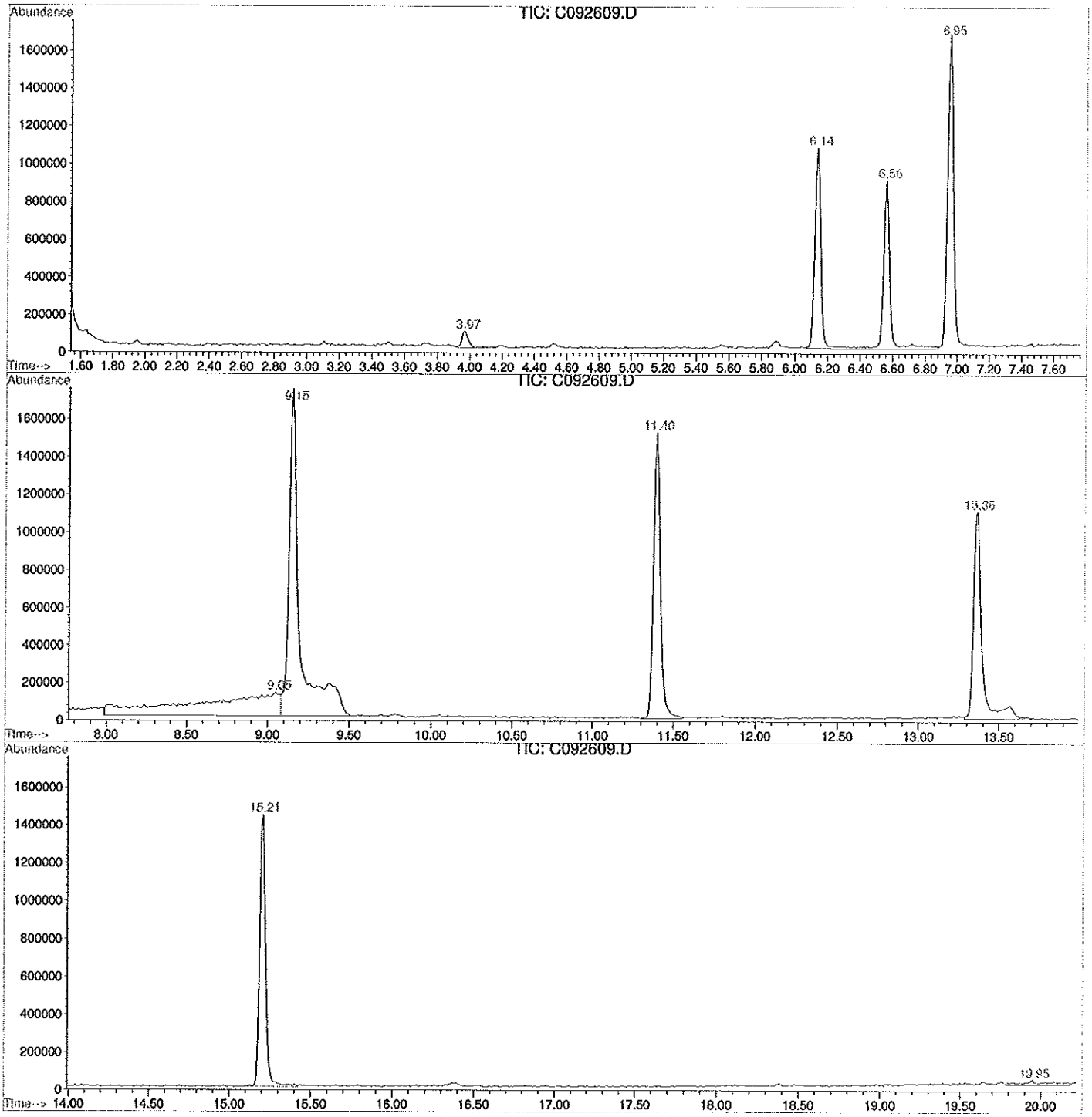
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.971	243	248	267	rVB2	88600	270971	3.37%	0.744%
2	6.137	461	468	502	rVV	1067362	2806771	34.95%	7.705%
3	6.560	502	511	544	rVV	897194	2431216	30.27%	6.674%
4	6.954	544	551	656	rVV	1679932	5850292	72.84%	16.059%
5	9.052	656	764	767	rVV7	124403	4471637	55.68%	12.275%
6	9.150	767	774	814	rVB	1740308	8031189	100.00%	22.046%
7	11.395	992	1002	1019	rBV	1519685	4479999	55.78%	12.298%
8	13.364	1194	1202	1242	rVB	1102747	4098691	51.03%	11.251%
9	15.206	1375	1389	1411	rBV	1440325	3705819	46.14%	10.173%
10	19.952	1854	1871	1894	rBV	24393	282679	3.52%	0.776%

Sum of corrected areas: 36429264

C092609.D VOA0815.M Wed Oct 15 14:10:37 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092608\C092609.D
Operator : NLT
Acquired : 26 Sep 2008 11:02 am using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-17A,1,
Misc Info : 8260+_W
Vial Number: 5
Quant File :VOA0815.RES (RTE Integrator)



C092609.D VOA0815.M Wed Oct 15 14:10:46 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092609.D
Acq On : 26 Sep 2008 11:02 am
Sample : ,SAMP,ME0809B07-17A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 5
Operator: NLT
Inst : VOA #3
Multiplr: 1.00

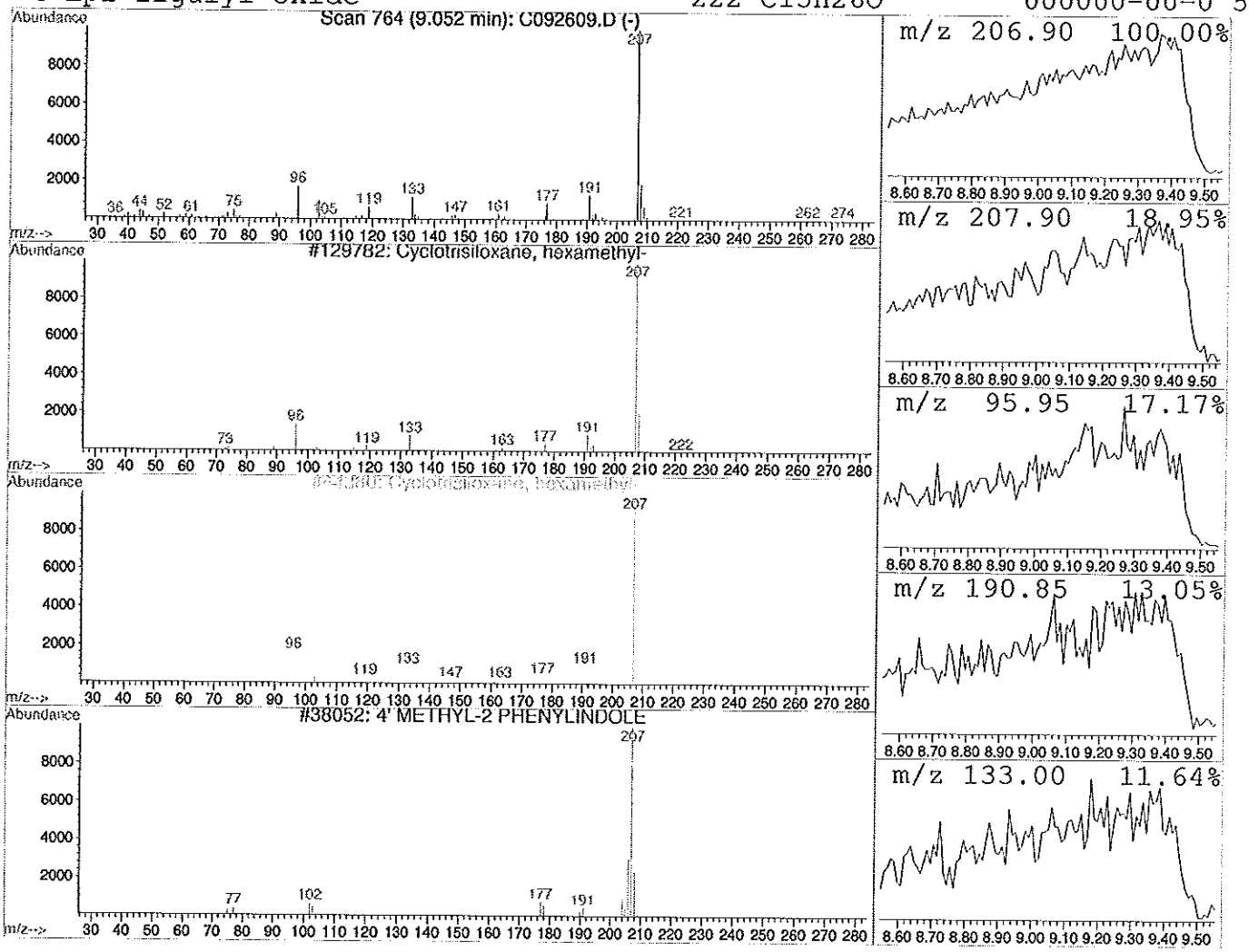
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Cyclotrisiloxane, hexamethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.05	38.22 ug/L	4471640	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	64
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	64
3	4' METHYL-2 PHENYLINDOLE	207	C15H13N	000000-00-0	59
4	Epi-ligulyl oxide	222	C15H26O	000000-00-0	53



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\3\DATA\C092608\C092610.D Vial: 6
Acq On : 26 Sep 2008 11:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-18A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:17 2008 Quant Results File: VOA0815.RES

Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

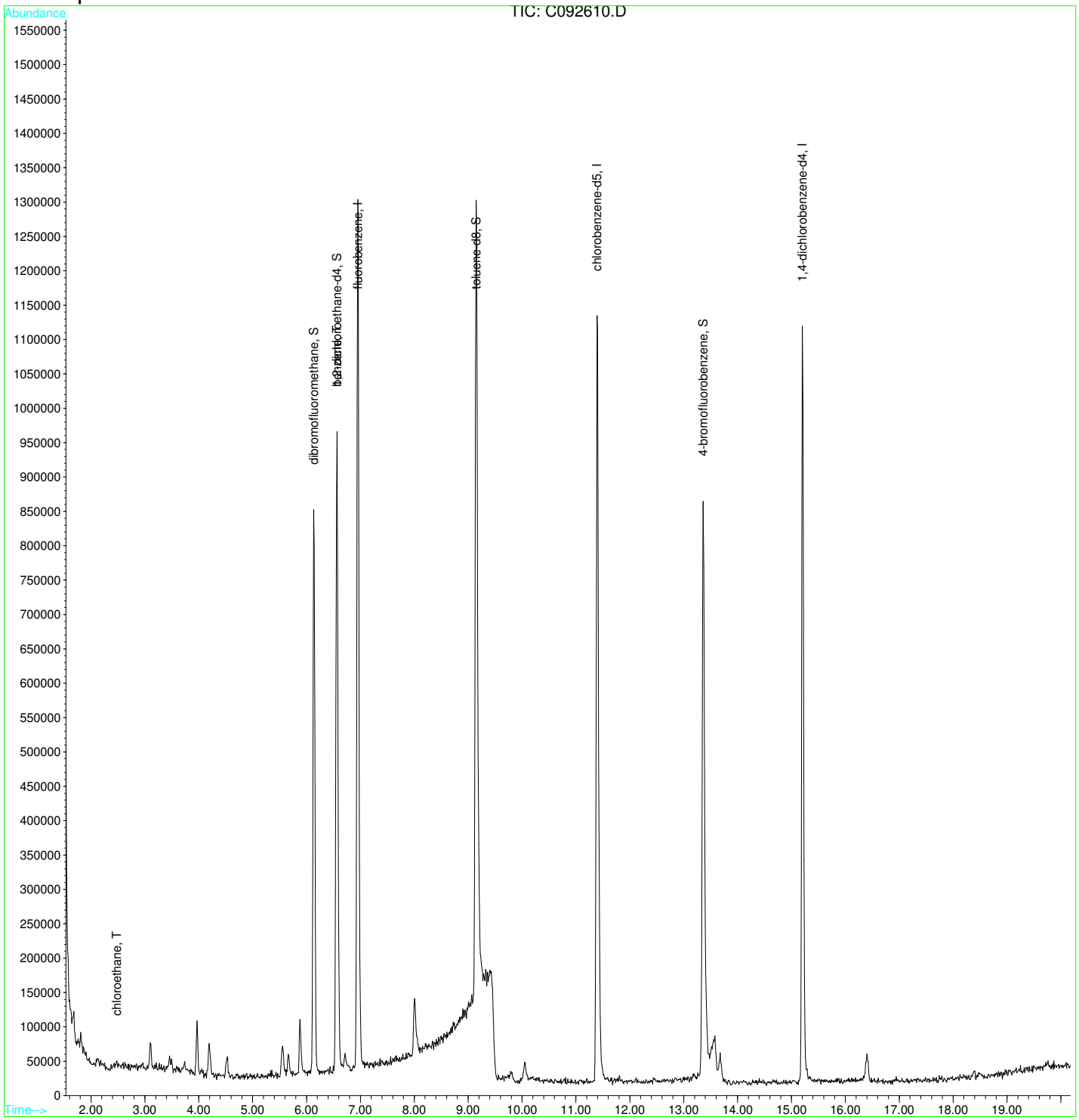
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1549327	50.00 ug/L	0.00
41) chlorobenzene-d5	11.39	117	1091245	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.20	152	430300	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.13	113	651315	54.67 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.56	65	603420	54.35 ug/L	0.00
44) toluene-d8	9.15	98	1343095	51.72 ug/L	0.00
63) 4-bromofluorobenzene	13.36	95	594179	51.93 ug/L	0.00
Target Compounds					Qvalue
7) chloroethane	2.47	64	5859	2.43 ug/L	78
31) benzene	6.58	78	418781	12.78 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\3\DATA\C092608\C092610.D Vial: 6
Acq On : 26 Sep 2008 11:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-18A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 26 13:17 2008 Quant Results File: VOA0815.RES

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Last Update : Fri Aug 15 15:06:22 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: NLT Date Acquired: 26 Sep 2008 11:32 am
Data File: C:\HPCHEM\3\DATA\C092608\C092610.D
Name: ,SAMP,ME0809B07-18A,1,
Misc: 8260+_W
Method: C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title: 8260 ICAL 8/15/08-Misc Included
Library Searched: C:\DATABASE\WILEY138.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethane, chloro-	1.68	7.5	ug/L	675107	ISTD01	6.95	4516350	50.0
Cyclotrisiloxane, he	9.07	51.0	ug/L	4606950	ISTD01	6.95	4516350	50.0

C092610.D VOA0815.M Wed Oct 15 14:11:36 2008 VOA8

LSC Area Percent Report

Data File : C:\HPCHEM\3\DATA\C092608\C092610.D Vial: 6
Acq On : 26 Sep 2008 11:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-18A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

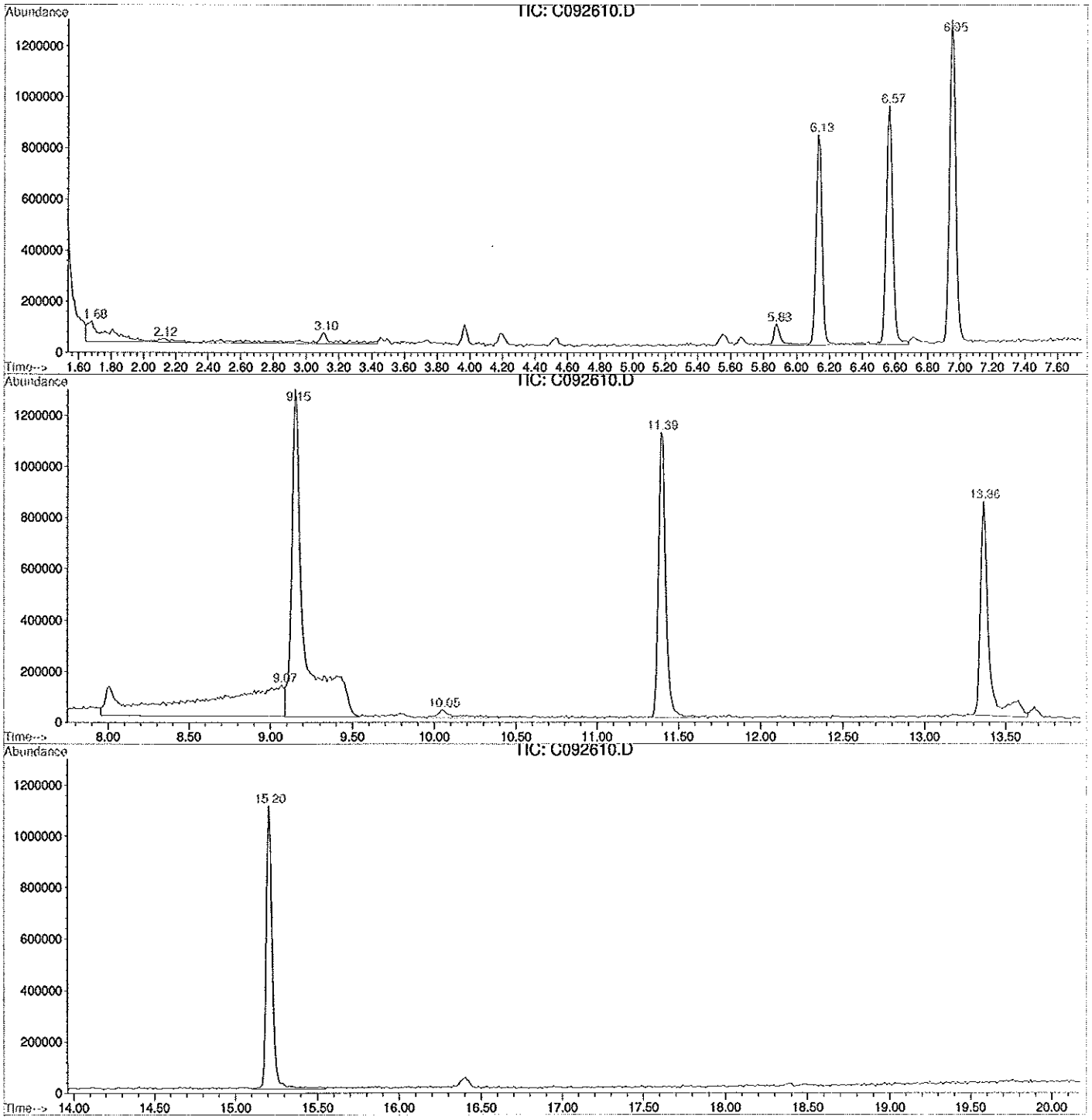
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.682	12	16	57	rVB5	80091	675107	9.82%	2.131%
2	2.116	57	60	156	rVV5	14701	345955	5.03%	1.092%
3	3.100	156	160	194	rVV6	43361	241294	3.51%	0.762%
4	5.877	437	442	462	rVV3	82495	260937	3.80%	0.824%
5	6.133	462	468	497	rVB	822464	2116126	30.78%	6.679%
6	6.566	504	512	524	rBV2	934402	2579960	37.53%	8.143%
7	6.950	545	551	653	rVV	1273616	4516352	65.70%	14.254%
8	9.067	653	766	768	rVV5	122499	4606945	67.01%	14.540%
9	9.146	768	774	814	rVB	1280210	6874706	100.00%	21.697%
10	10.052	856	866	901	rBV	31243	234126	3.41%	0.739%
11	11.391	994	1002	1026	rBV	1114833	3338778	48.57%	10.538%
12	13.360	1194	1202	1230	rBV	836718	3074807	44.73%	9.704%
13	15.202	1379	1389	1424	rVB	1103089	2819629	41.01%	8.899%

Sum of corrected areas: 31684722

C092610.D VOA0815.M Wed Oct 15 14:11:13 2008 VOA8

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\3\DATA\C092608\C092610.D
Operator : NLT
Acquired : 26 Sep 2008 11:32 am using AcqMethod VOA-AQ
Instrument : VOA #3
Sample Name: ,SAMP,ME0809B07-18A,1,
Misc Info : 8260+_W
Vial Number: 6
Quant File :VOA0815.RES (RTE Integrator)



C092610.D VOA0815.M Wed Oct 15 14:11:22 2008 VOA8

Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092610.D Vial: 6
Acq On : 26 Sep 2008 11:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-18A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

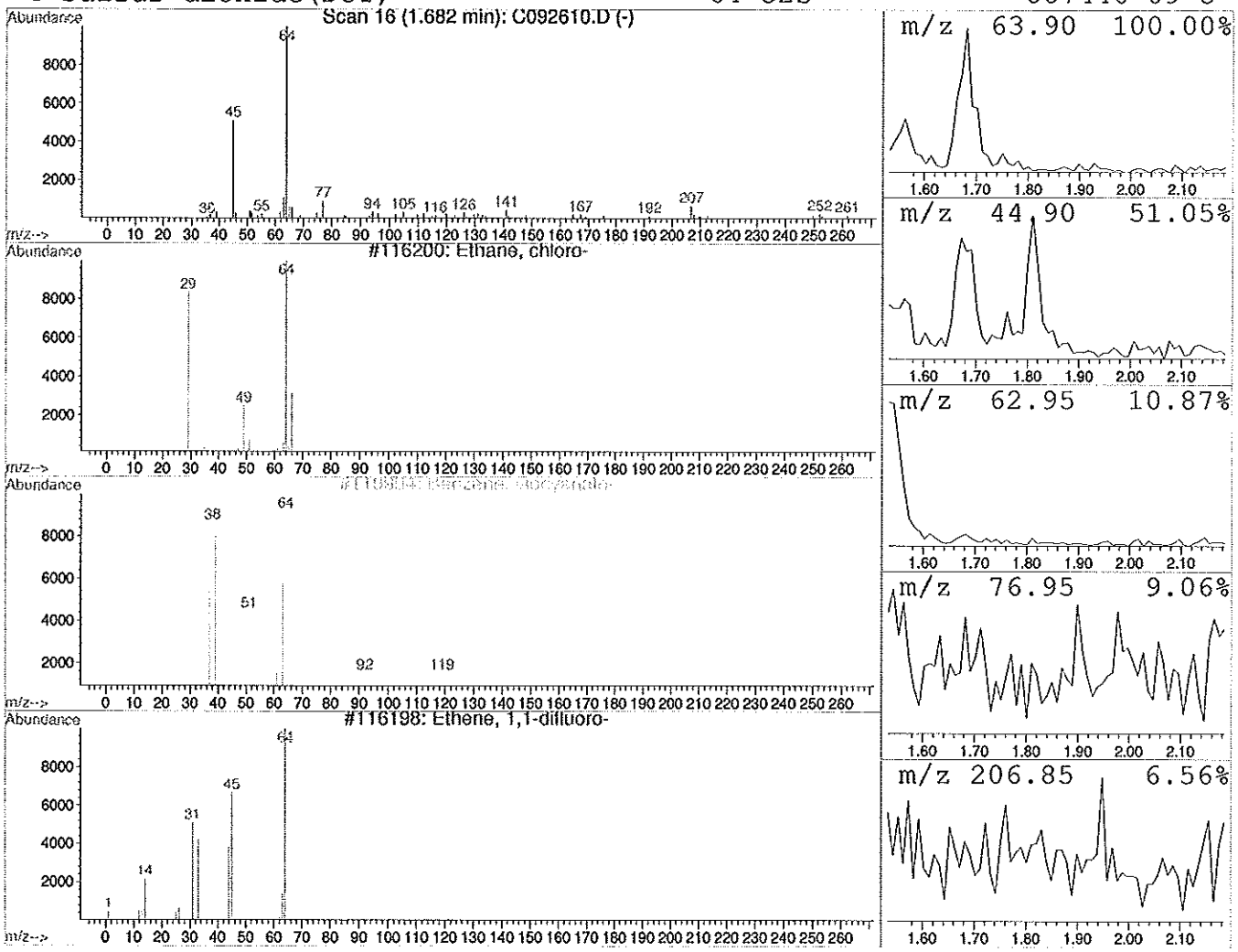
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 1 Ethane, chloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.68	7.47 ug/L	675107	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, chloro-	64	C2H5Cl	000075-00-3	39
2	Benzene, isocyanato-	119	C7H5NO	000103-71-9	16
3	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	9
4	Sulfur dioxide(DOT)	64	O2S	007446-09-5	4



Library Search Compound Report

Data File : C:\HPCHEM\3\DATA\C092608\C092610.D Vial: 6
Acq On : 26 Sep 2008 11:32 am Operator: NLT
Sample : ,SAMP,ME0809B07-18A,1, Inst : VOA #3
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

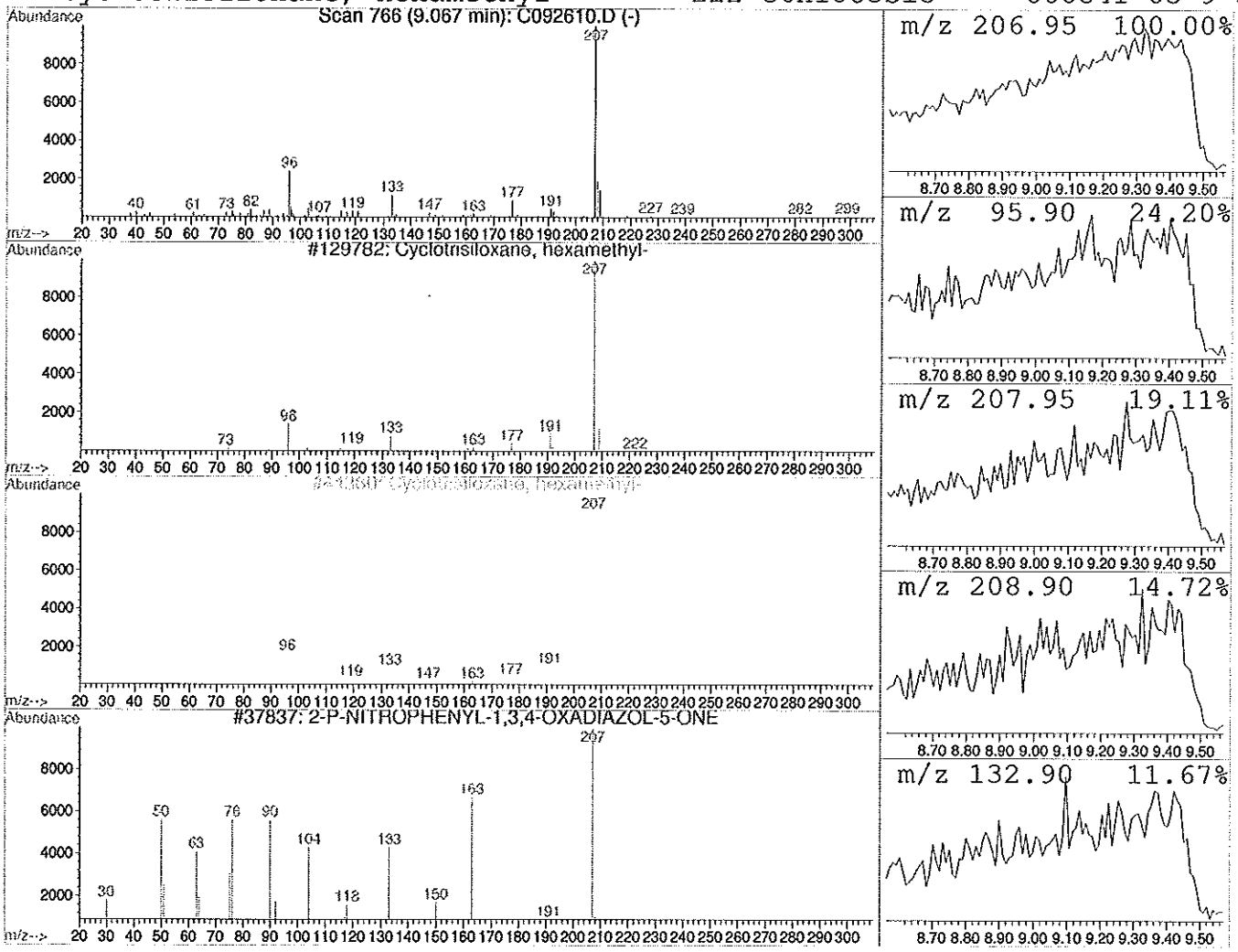
Quant Method : C:\HPCHEM\3\METHODS\VOA0815.M (RTE Integrator)
Title : 8260 ICAL 8/15/08-Misc Included
Library : C:\DATABASE\WILEY138.L

****

Peak Number 2 Cyclotrisiloxane, hexamethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.07	51.00 ug/L	4606950	fluorobenzene	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	72
2	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	56
3	2-P-NITROPHENYL-1,3,4-OXADIAZOL-5-O	207	C8H5N3O4	041125-77-3	50
4	Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	50



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092616.D Vial: 16
Acq On : 26 Sep 2008 3:34 pm Operator: BR
Sample : ,SAMP,ME0809B07-19A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 17:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

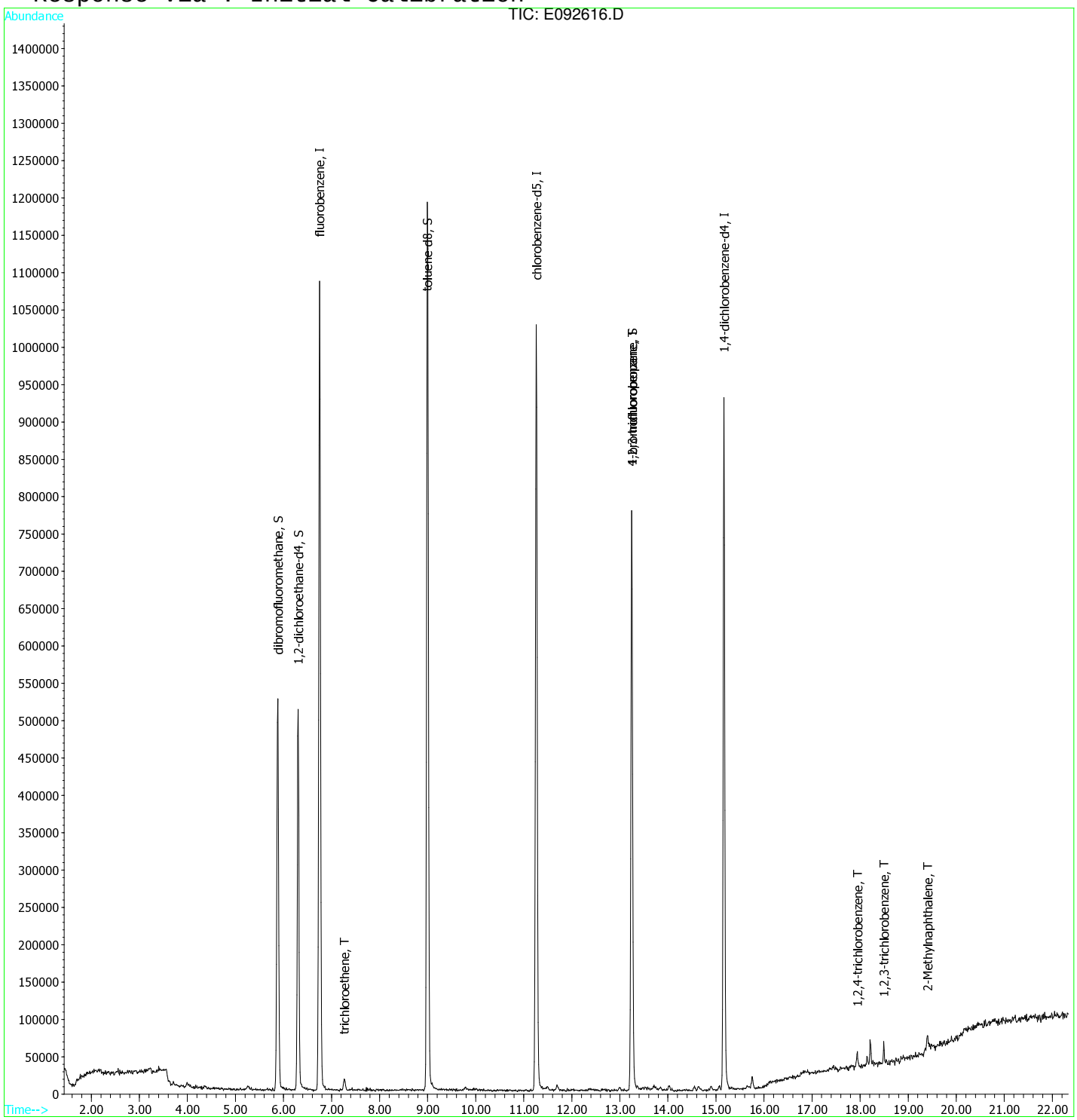
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1326447	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	898362	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	346348	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	422805	49.90 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	436829	53.86 ug/L	-0.01
44) toluene-d8	8.99	98	1144952	53.52 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	407045	50.03 ug/L	-0.01
Target Compounds					Qvalue
34) trichloroethene	7.26	95	7376	1.30 ug/L #	79
64) 1,2,3-trichloropropane	13.25	75	167879	24.54 ug/L #	48
81) 1,2,4-trichlorobenzene	17.94	180	8506	2.35 ug/L #	64
84) 1,2,3-trichlorobenzene	18.49	180	9757	3.02 ug/L	94
85) 2-Methylnaphthalene	19.40	142	12514	3.66 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092616.D Vial: 16
Acq On : 26 Sep 2008 3:34 pm Operator: BR
Sample : ,SAMP,ME0809B07-19A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 17:06 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 26 Sep 2008 3:34 pm
Data File: C:\HPCHEM\4\DATA\E092608\E092616.D
Name: ,SAMP,ME0809B07-19A,1,
Misc: 8260+_W
Method: C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title: Soil ICAL 08/14/08-Misc Included
Library Searched: C:\DATABASE\WILEY.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbamic acid, methy	3.40	42.9	ug/L	2375730	ISTD01	6.75	2766170	50.0
1,2R-DIMETHYL-4S-VIN	17.94	67.4	ug/L	2810630	ISTD03	15.17	2083700	50.0

E092616.D SOIL0814.M Wed Oct 15 14:46:19 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E092608\E092616.D Vial: 16
Acq On : 26 Sep 2008 3:34 pm Operator: BR
Sample : ,SAMP,ME0809B07-19A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\SOIL0814.M (RTE Integrator)
Title : Soil ICAL 08/14/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

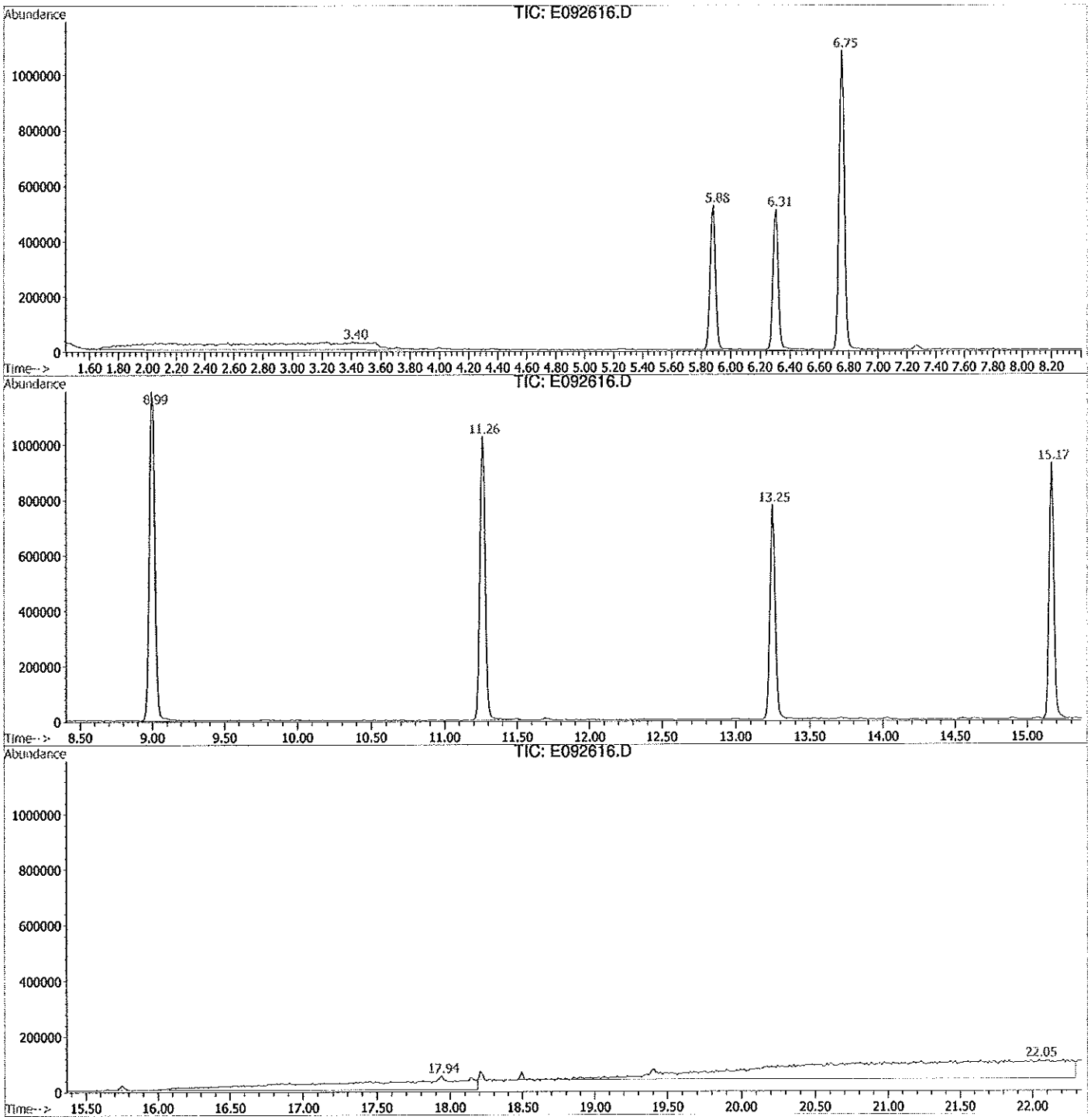
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.403	25	201	258	rVV	28614	2375726	27.25%	8.137%
2	5.884	446	453	469	rBV	524640	1374569	15.76%	4.708%
3	6.307	489	496	528	rVB	511467	1317391	15.11%	4.512%
4	6.750	533	541	583	rVB	1084513	2766170	31.72%	9.474%
5	8.994	761	769	796	rBV	1190072	3121252	35.80%	10.690%
6	11.258	990	999	1036	rVB	1026147	2665579	30.57%	9.129%
7	13.247	1190	1201	1222	rBV	777573	1963660	22.52%	6.725%
8	15.166	1390	1396	1411	rBV	927129	2083702	23.90%	7.136%
9	17.942	1452	1678	1703	rBV6	49290	2810633	32.23%	9.626%
10	22.047	1703	2095	2120	rBV6	67731	8719334	100.00%	29.863%

Sum of corrected areas: 29198016

E092616.D SOIL0814.M Wed Oct 15 14:46:10 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E092608\E092616.D
Operator : BR
Acquired : 26 Sep 2008 3:34 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809B07-19A,1,
Misc Info : 8260+_W
Vial Number: 16
Quant File :WTR0814.RES (RTE Integrator)



E092616.D SOIL0814.M Wed Oct 15 14:46:13 2008

Library Search Compound Report

Data File : C:\HPCHEM\4\DATA\E092608\E092616.D
Acq On : 26 Sep 2008 3:34 pm
Sample : ,SAMP,ME0809B07-19A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 16
Operator: BR
Inst : VOA5
Multiplr: 1.00

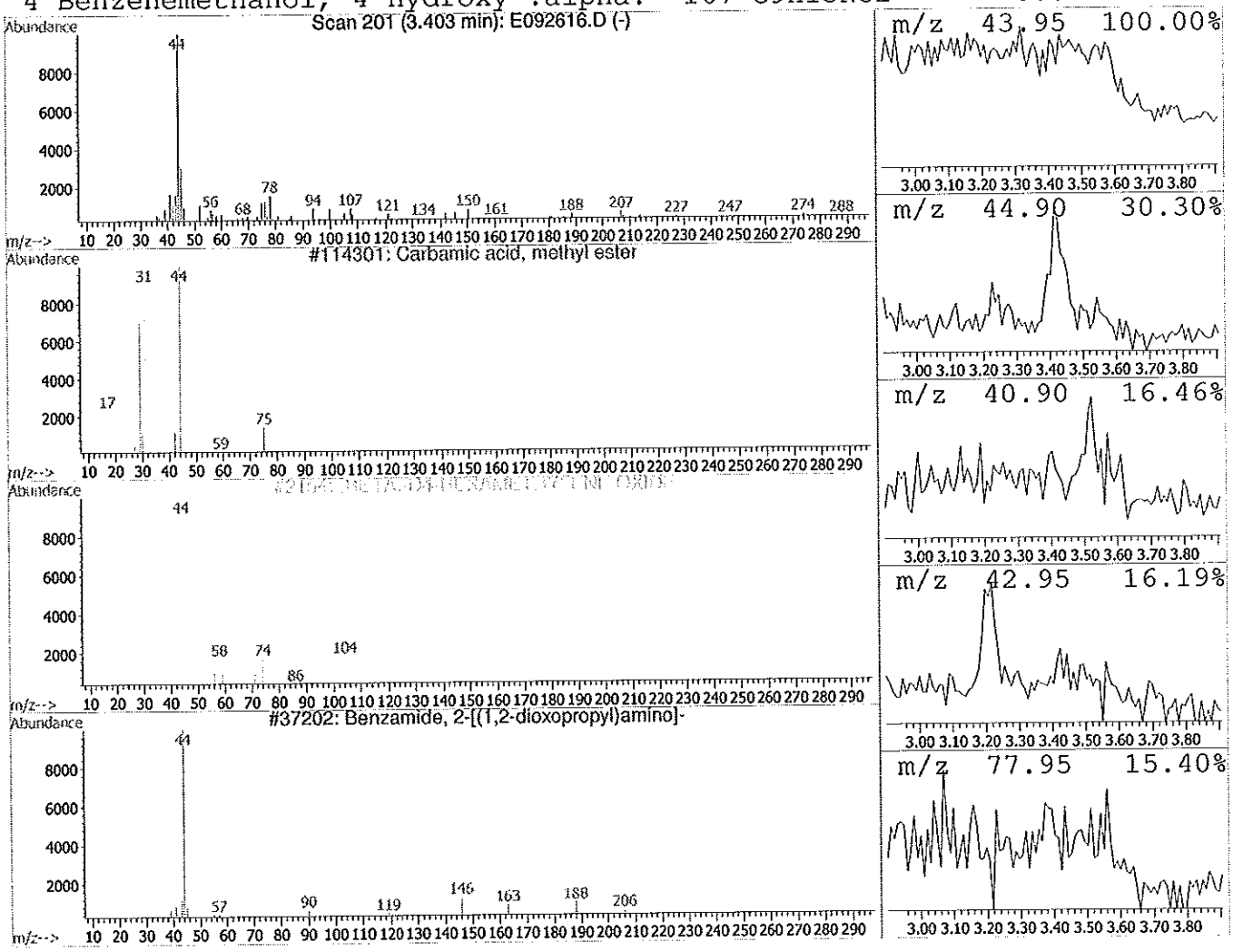
Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Library : C:\DATABASE\WILEY.L

****

Peak Number 1 Carbamic acid, methyl ester Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.40	42.94 ug/L	2375730	fluorobenzene	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbamic acid, methyl ester	75	C2H5NO2	000598-55-0	38
2	.BETA.-D4-HEXAMETHYLENE OXIDE	100	C6H8D4O	053778-64-6	36
3	Benzamide, 2-[(1,2-dioxopropyl)amin	206	C10H10N2O3	018326-62-0	25
4	Benzenemethanol, 4-hydroxy-.alpha.-	167	C9H13NO2	000094-07-5	25



Library Search Compound Report

Data File : C:\HPCHEM\4\DATA\E092608\E092616.D
Acq On : 26 Sep 2008 3:34 pm
Sample : ,SAMP,ME0809B07-19A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 16
Operator: BR
Inst : VOA5
Multiplr: 1.00

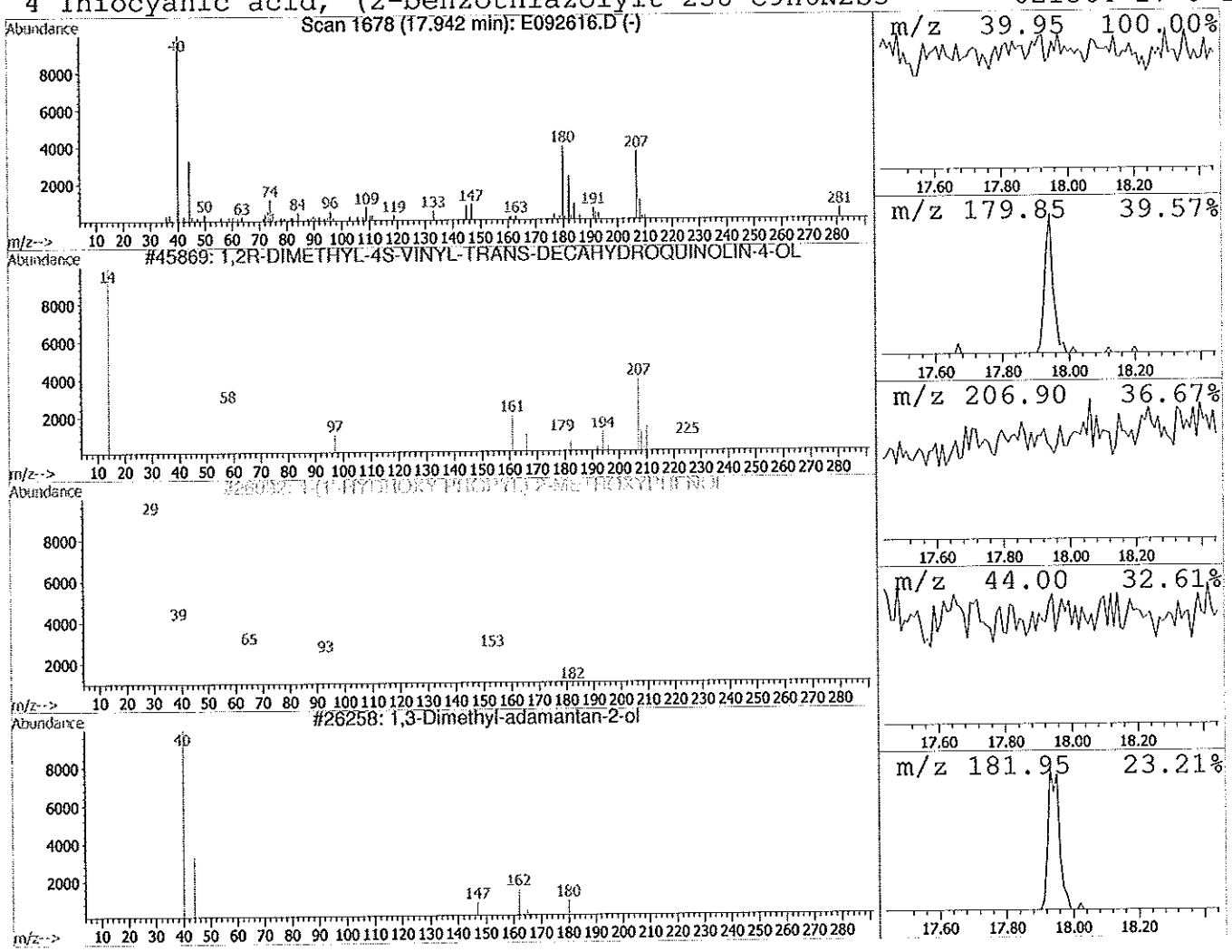
Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Library : C:\DATABASE\WILEY.L

****

Peak Number 2 1,2R-DIMETHYL-4S-VINYL-TRANS-D Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.94	67.44 ug/L	2810630	1,4-dichlorobenzene-d4	15.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2R-DIMETHYL-4S-VINYL-TRANS-DECAHY	225	C13H23NO2	053133-53-2	9
2	4-(1'-HYDROXY PROPYL)-2-METHOXYPHEN	182	C10H14O3	006997-34-8	3
3	1,3-Dimethyl-adamantan-2-ol	180	C12H20O	078074-21-2	1
4	Thiocyanic acid, (2-benzothiazolylt	238	C9H6N2S3	021564-17-0	1



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092617.D Vial: 17
Acq On : 26 Sep 2008 4:05 pm Operator: BR
Sample : ,SAMP,ME0809B07-20A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 17:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

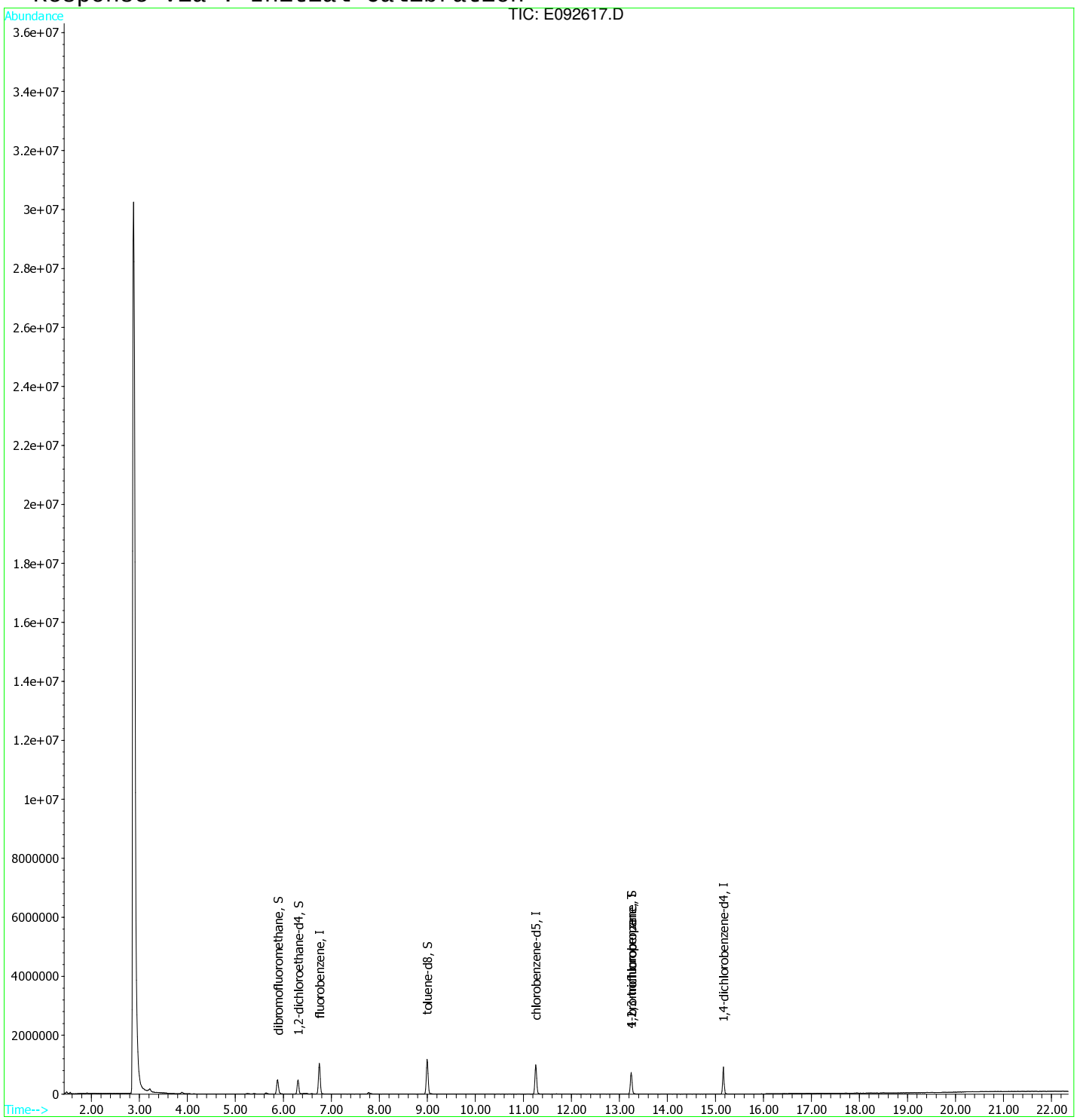
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1295831	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	887060	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	337373	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	418941	50.62 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	432698	54.61 ug/L	-0.01
44) toluene-d8	8.99	98	1116234	52.84 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	398688	49.62 ug/L	-0.01
Target Compounds					Qvalue
64) 1,2,3-trichloropropane	13.25	75	166367	24.62 ug/L #	48

(#) = qualifier out of range (m) = manual integration
E092617.D WTR0814.M Fri Sep 26 17:06:20 2008 Page 1

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092617.D Vial: 17
Acq On : 26 Sep 2008 4:05 pm Operator: BR
Sample : ,SAMP,ME0809B07-20A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 17:06 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 26 Sep 2008 4:05 pm
Data File: C:\HPCHEM\4\DATA\E092608\E092617.D
Name: ,SAMP,ME0809B07-20A,1,
Misc: 8260+_W
Method: C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title: Soil ICAL 08/14/08-Misc Included
Library Searched: C:\DATABASE\WILEY.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethane, 1,1'-oxybis-	2.88	50.0	ug/L	109953000	ISTD01	6.75	109953000	50.0

E092617.D SOIL0814.M Wed Oct 15 14:46:34 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E092608\E092617.D Vial: 17
Acq On : 26 Sep 2008 4:05 pm Operator: BR
Sample : ,SAMP,ME0809B07-20A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\SOIL0814.M (RTE Integrator)
Title : Soil ICAL 08/14/08-Misc Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0.5 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

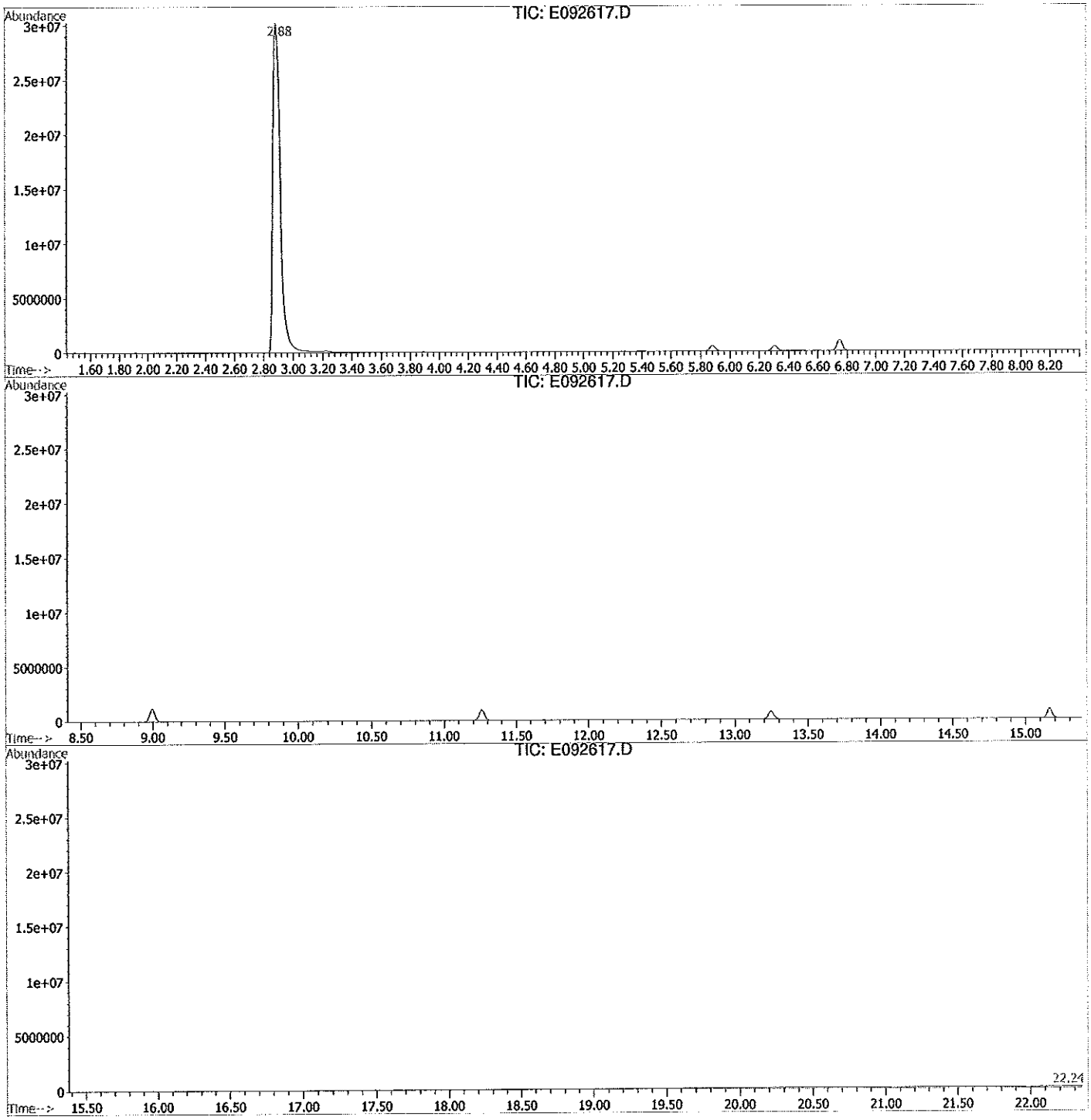
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	2.881	141	148	245	rVB	30239839	109952831	100.00%	84.895%
2	22.243	1452	2115	2122	rBV9	98886	19562876	17.79%	15.105%

Sum of corrected areas: 129515707

E092617.D SOIL0814.M Wed Oct 15 14:46:27 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E092608\E092617.D
Operator : BR
Acquired : 26 Sep 2008 4:05 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809B07-20A,1,
Misc Info : 8260+_W
Vial Number: 17
Quant File :WTR0814.RES (RTE Integrator)



E092617.D SOIL0814.M Wed Oct 15 14:46:30 2008

Library Search Compound Report

Data File : C:\HPCHEM\4\DATA\E092608\E092617.D Vial: 17
Acq On : 26 Sep 2008 4:05 pm Operator: BR
Sample : ,SAMP,ME0809B07-20A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

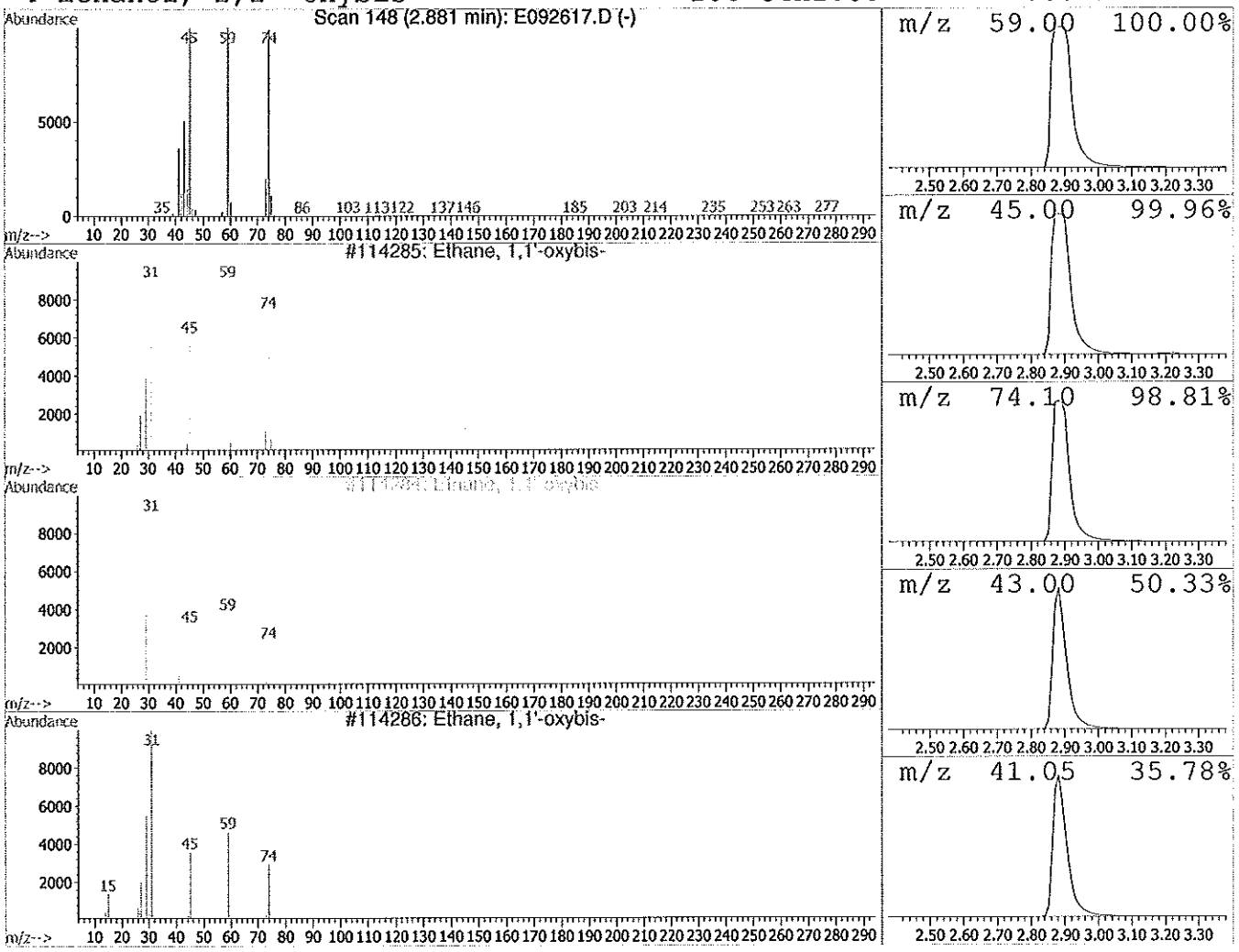
Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Library : C:\DATABASE\WILEY.L

****

Peak Number 1 Ethane, 1,1'-oxybis- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.88	50.00 ug/L	109953000	fluorobenzene	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	40
2	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	40
3	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	28
4	Ethanol, 2,2'-oxybis-	106	C4H10O3	000111-46-6	16



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092618.D Vial: 18
Acq On : 26 Sep 2008 4:35 pm Operator: BR
Sample : ,SAMP,ME0809B07-21A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 17:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

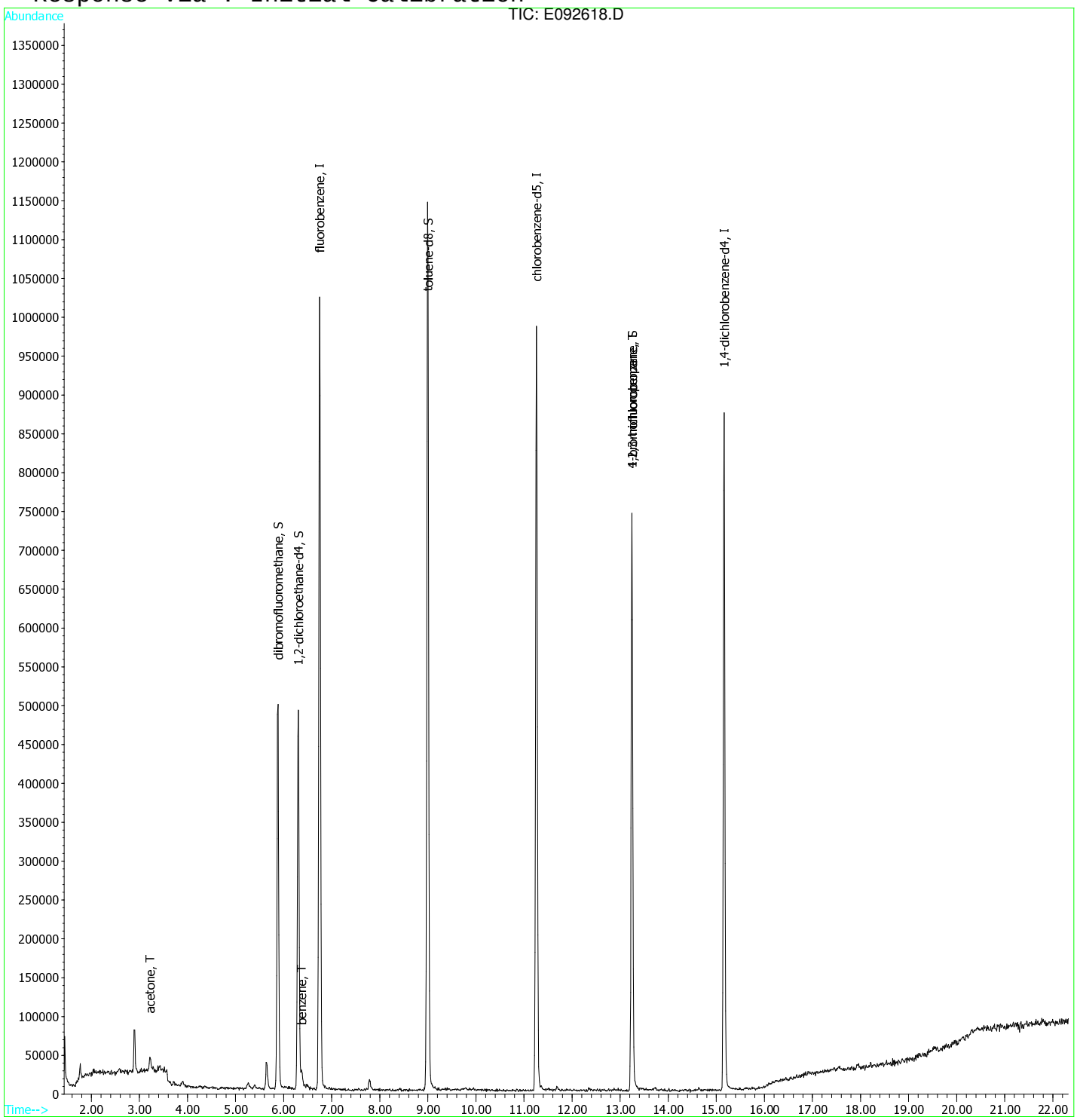
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1249827	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	840464	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	330430	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	414020	51.86 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	430158	56.29 ug/L	-0.01
44) toluene-d8	8.99	98	1088601	54.39 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	394974	51.89 ug/L	-0.01
Target Compounds					Qvalue
11) acetone	3.22	43	23561	8.63 ug/L	93
31) benzene	6.37	78	26151	1.20 ug/L	97
64) 1,2,3-trichloropropane	13.25	75	157519	24.61 ug/L #	49

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092618.D Vial: 18
Acq On : 26 Sep 2008 4:35 pm Operator: BR
Sample : ,SAMP,ME0809B07-21A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 17:06 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 26 Sep 2008 4:35 pm
Data File: C:\HPCHEM\4\DATA\E092608\E092618.D
Name: ,SAMP,ME0809B07-21A,1,
Misc: 8260+_W
Method: C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title: Soil ICAL 08/14/08-Misc Included
Library Searched: C:\DATABASE\WILEY.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1-Propene, 2-methyl-	1.77	24.3	ug/L	1275910	ISTD01	6.75	2629370	50.0
Ethane, 1,1'-oxybis-	2.89	31.4	ug/L	1651000	ISTD01	6.75	2629370	50.0

E092618.D SOIL0814.M Wed Oct 15 14:46:52 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E092608\E092618.D
Acq On : 26 Sep 2008 4:35 pm
Sample : ,SAMP,ME0809B07-21A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 18
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\SOIL0814.M (RTE Integrator)
Title : Soil ICAL 08/14/08-Misc Included
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0.5

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

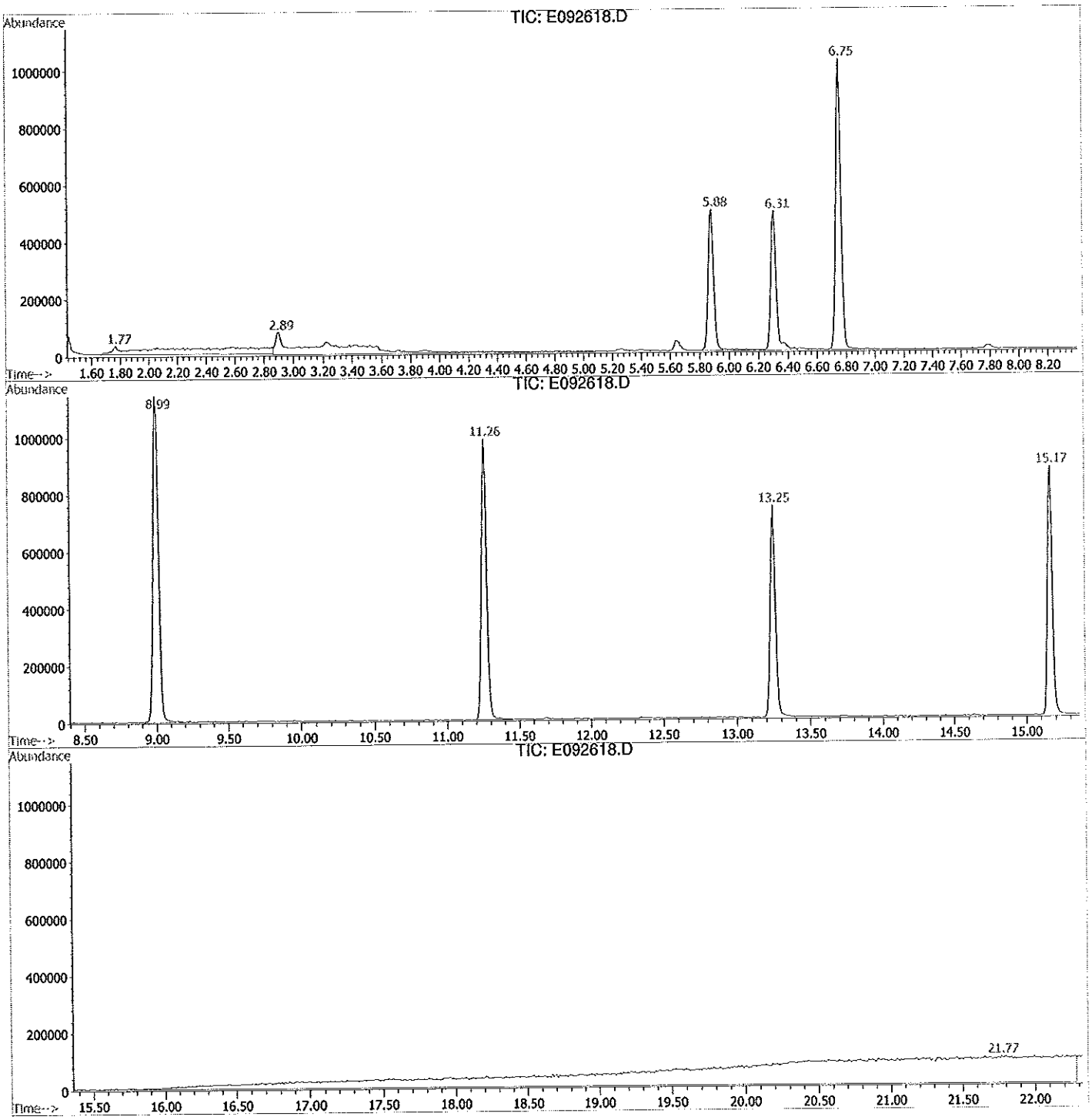
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.768	25	35	146	rBV	29102	1275905	6.85%	3.534%
2	2.890	146	149	371	rVB4	77388	1651004	8.87%	4.573%
3	5.883	446	453	489	rVV	496435	1350599	7.25%	3.741%
4	6.306	489	496	512	rVV	489302	1292359	6.94%	3.580%
5	6.749	533	541	613	rVB	1021436	2629374	14.12%	7.283%
6	8.993	761	769	790	rBV	1144151	2946046	15.82%	8.161%
7	11.257	989	999	1019	rBV	984698	2461188	13.22%	6.817%
8	13.246	1192	1201	1216	rBV	744335	1854780	9.96%	5.138%
9	15.165	1388	1396	1436	rBV	872660	2017151	10.83%	5.587%
10	21.770	1436	2067	2119	rBV9	92335	18622778	100.00%	51.585%

Sum of corrected areas: 36101184

E092618.D SOIL0814.M Wed Oct 15 14:46:43 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E092608\E092618.D
Operator : BR
Acquired : 26 Sep 2008 4:35 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809B07-21A,1,
Misc Info : 8260+_W
Vial Number: 18
Quant File :WTR0814.RES (RTE Integrator)



E092618.D SOIL0814.M Wed Oct 15 14:46:46 2008

Library Search Compound Report

Data File : C:\HPCHEM\4\DATA\E092608\E092618.D Vial: 18
Acq On : 26 Sep 2008 4:35 pm Operator: BR
Sample : ,SAMP,ME0809B07-21A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

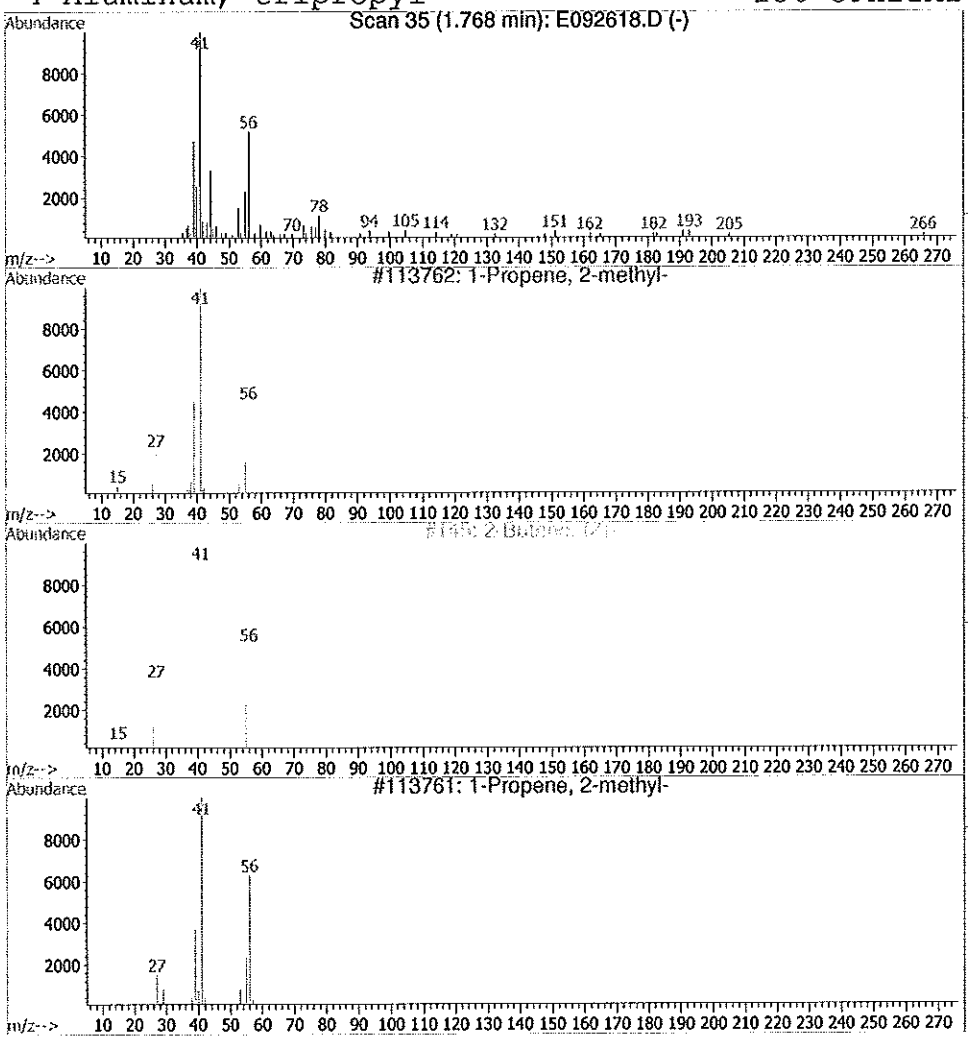
Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Library : C:\DATABASE\WILEY.L

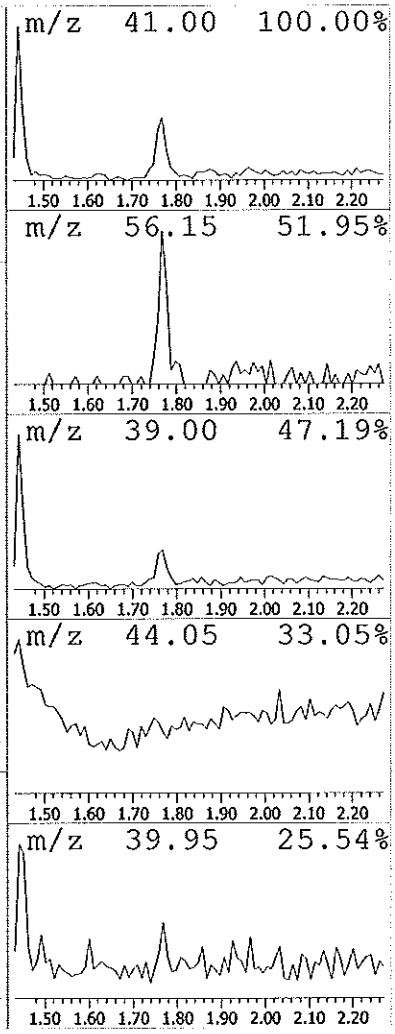
****

Peak Number 1 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.77	24.26 ug/L	1275910	fluorobenzene	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	38
2	2-Butene, (Z)-	56	C4H8	000590-18-1	38
3	1-Propene, 2-methyl-	56	C4H8	000115-11-7	35
4	Aluminum, tripropyl-	156	C9H21Al	000102-67-0	28





Library Search Compound Report

Data File : C:\HPCHEM\4\DATA\E092608\E092618.D Vial: 18
Acq On : 26 Sep 2008 4:35 pm Operator: BR
Sample : ,SAMP,ME0809B07-21A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

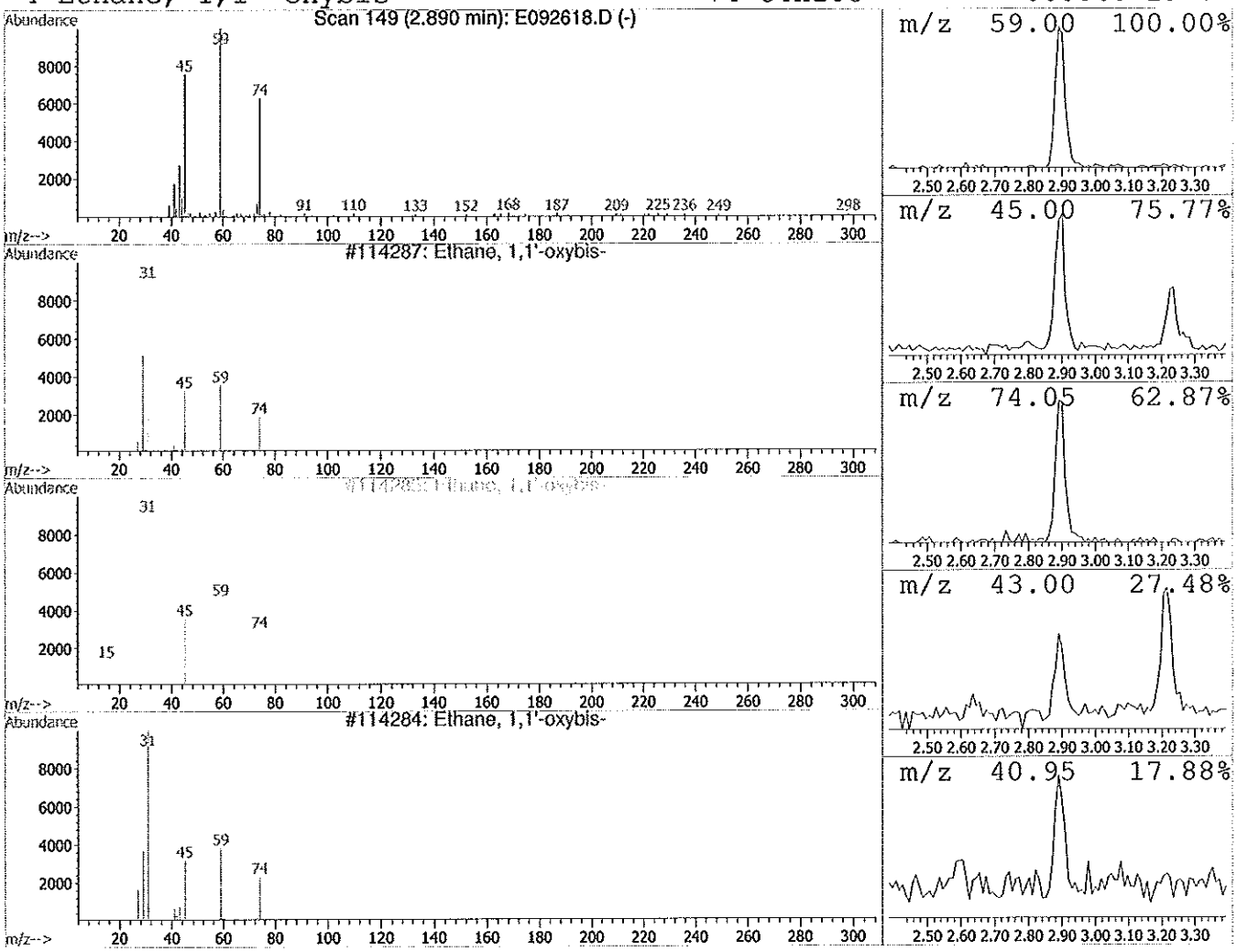
Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Library : C:\DATABASE\WILEY.L

****

Peak Number 2 Ethane, 1,1'-oxybis- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.89	31.40 ug/L	1651000	fluorobenzene	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	90
2	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	90
3	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	90
4	Ethane, 1,1'-oxybis-	74	C4H10O	000060-29-7	83



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092619.D Vial: 19
Acq On : 26 Sep 2008 5:06 pm Operator: BR
Sample : ,SAMP,ME0809B07-22A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 27 5:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

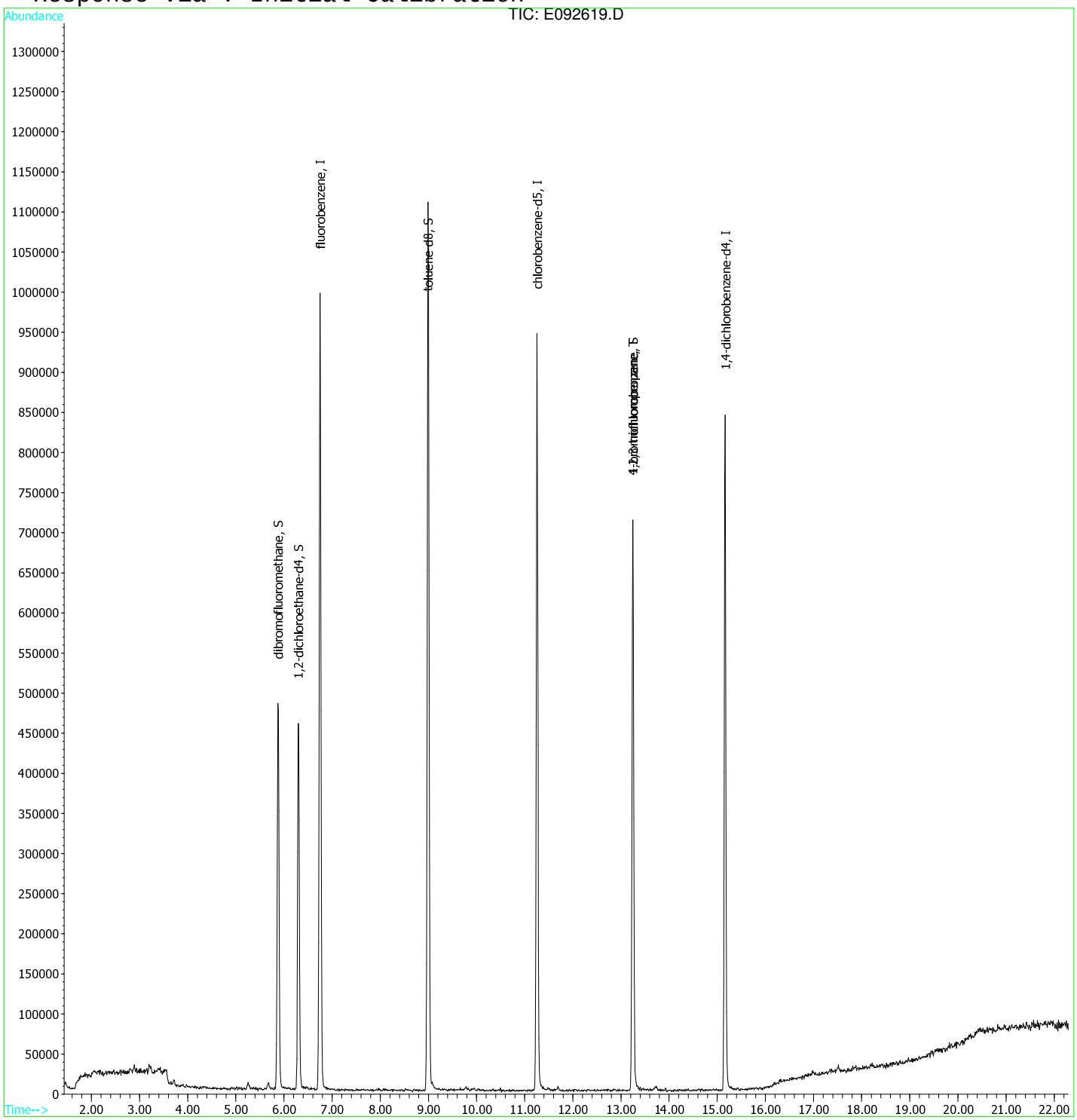
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1199450	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	804937	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	313418	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	400301	52.25 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.31	65	415628	56.67 ug/L	-0.01
44) toluene-d8	8.99	98	1038045	54.15 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	380201	52.15 ug/L	-0.01
Target Compounds					Qvalue
64) 1,2,3-trichloropropane	13.25	75	155491	25.36 ug/L #	48

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092619.D Vial: 19
Acq On : 26 Sep 2008 5:06 pm Operator: BR
Sample : ,SAMP,ME0809B07-22A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 27 5:45 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 26 Sep 2008 5:06 pm
Data File: C:\HPCHEM\4\DATA\E092608\E092619.D
Name: ,SAMP,ME0809B07-22A,1,
Misc: 8260+_W
Method: C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title: Soil ICAL 08/14/08-Misc Included
Library Searched: C:\DATABASE\WILEY.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E092619.D SOIL0814.M Wed Oct 15 14:47:04 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E092608\E092619.D
Acq On : 26 Sep 2008 5:06 pm
Sample : ,SAMP,ME0809B07-22A,1,
Misc : 8260+_W
MS Integration Params: RTEINT.P

Vial: 19
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\SOIL0814.M (RTE Integrator)
Title : Soil ICAL 08/14/08-Misc Included
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0.5

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

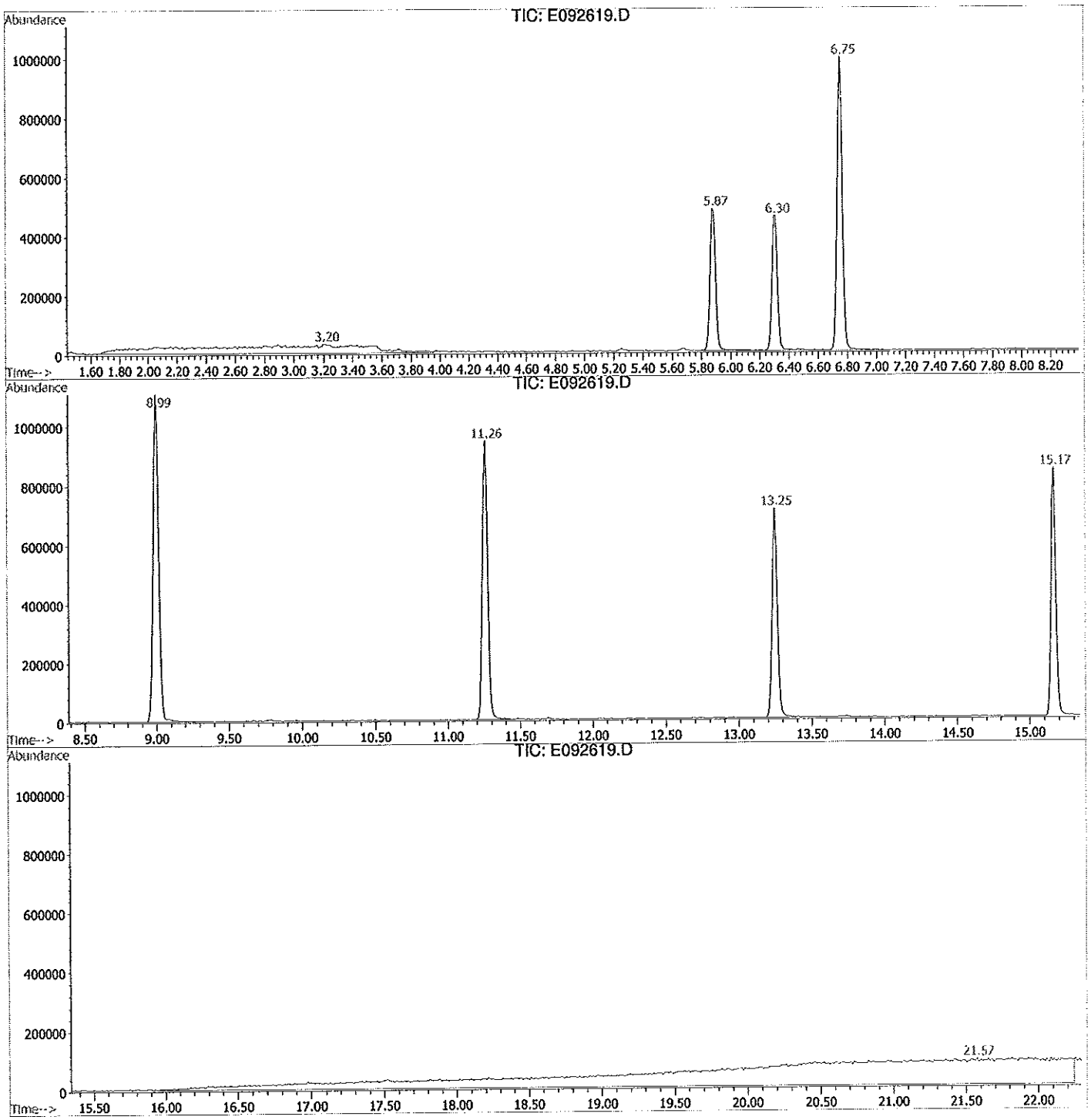
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.196	24	180	257	rBV10	30824	2479663	14.57%	7.422%
2	5.873	444	452	488	rVV	481620	1298645	7.63%	3.887%
3	6.297	488	495	533	rVV	457132	1214113	7.14%	3.634%
4	6.750	533	541	577	rVB	994214	2484258	14.60%	7.436%
5	8.994	762	769	797	rBV	1108289	2864970	16.84%	8.575%
6	11.258	991	999	1020	rBV	943734	2363807	13.89%	7.075%
7	13.246	1194	1201	1215	rBV	711359	1771712	10.41%	5.303%
8	15.166	1389	1396	1428	rBV	842501	1918035	11.27%	5.741%
9	21.574	1475	2047	2115	rBV9	87210	17015105	100.00%	50.928%

Sum of corrected areas: 33410308

E092619.D SOIL0814.M Wed Oct 15 14:47:00 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E092608\E092619.D
Operator : BR
Acquired : 26 Sep 2008 5:06 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809B07-22A,1,
Misc Info : 8260+_W
Vial Number: 19
Quant File :WTR0814.RES (RTE Integrator)



E092619.D SOIL0814.M Wed Oct 15 14:47:03 2008

INJECTION LOG(S)

Injection Log

Directory: c:\hpchem\3\data\c092508

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	c092501.d	1.	,TUNE,BFB TUNE,1,	BFB	25 Sep 08 07:37
2	2	c092502.d	1.	,CCV,CCV 50 PPB,1,	8260_W	25 Sep 08 07:54
3	3	c092503.d	1.	,MBLK,MB 9/25,1,	1311_V	25 Sep 08 08:27
4	4	c092504.d	1.	,LCS,LCS 20PPB,1,	1311_V	25 Sep 08 08:57
5	5	c092505.d	1.	,MBLK,ZHEBK-092408,10,	1311_V	25 Sep 08 09:49
6	6	c092506.d	1.	,SAMP,ME0809988-01A,10,	1311_V	25 Sep 08 10:19
7	7	c092507.d	1.	,SAMP,ME0809915-01A,10,	1311_V	25 Sep 08 10:49
8	8	c092508.d	1.	,SAMP,ME0809794-01A,10,	1311_V	25 Sep 08 11:19
9	9	c092509.d	1.	,MS,ME0809988-01AMS,10,	1311_V	25 Sep 08 11:49
10	10	c092510.d	1.	,MSD,ME0809988-01AMSD,10,	1311_V	25 Sep 08 12:19
11	11	c092511.d	1.	,SAMP,ME0809923-01A,10,RA,	8260_W	25 Sep 08 12:49
12	12	c092512.d	1.	,SAMP,ME0809923-02A,10,RA,	8260_W	25 Sep 08 13:19
13	13	c092513.d	1.	,SAMP,ME0809923-03A,1,RA,	8260_W	25 Sep 08 13:49
14	14	c092514.d	1.	,TUNE,BFB TUNE,1,	BFB	25 Sep 08 14:36
15	15	c092515.d	1.	,CCV,CCV 50 PPB,1,	8260_W	25 Sep 08 14:53
16	16	c092516.d	1.	,SAMP,ME0809B07-01A,1,	8260+_W	25 Sep 08 16:15
17	17	c092517.d	1.	,SAMP,ME0809B07-02A,1,	8260+_W	25 Sep 08 16:45
18	18	c092518.d	1.	,SAMP,ME0809B07-03A,1,	8260+_W	25 Sep 08 17:15
19	19	c092519.d	1.	,SAMP,ME0809B07-04A,1,	8260+_W	25 Sep 08 17:46
20	20	c092520.d	1.	,SAMP,ME0809B07-06A,1,	8260+_W	25 Sep 08 18:15
21	21	c092521.d	1.	,SAMP,ME0809B07-07A,1,	8260+_W	25 Sep 08 18:45
22	22	c092522.d	1.	,SAMP,ME0809B07-08A,1,	8260+_W	25 Sep 08 19:15
23	23	c092523.d	1.	,SAMP,ME0809B07-09A,1,	8260+_W	25 Sep 08 19:45
24	24	c092524.d	1.	,SAMP,ME0809B07-10A,1,	8260+_W	25 Sep 08 20:15
25	25	c092525.d	1.	,SAMP,ME0809B07-11A,1,	8260+_W	25 Sep 08 20:45
26	26	c092526.d	1.	,SAMP,ME0809B07-12A,1,	8260+_W	25 Sep 08 21:16
27	27	c092527.d	1.	,SAMP,ME0809B07-14A,1,	8260+_W	25 Sep 08 21:46
28	28	c092528.d	1.	,SAMP,ME0809B07-15A,1,	8260+_W	25 Sep 08 22:16

Injection Log

Directory: c:\hpchem\3\data\c092608

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	c092601.d	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 08 06:28
2	2	c092602.d	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 08 06:45
3	3	c092603.d	1.	,MBLK,MB 9/26,1,	1311_V	26 Sep 08 07:27
4	4	c092604.d	1.	,LCS,LCS 20PPB,1,	1311_V	26 Sep 08 07:57
5	1	c092605.d	1.	,SAMP,ME0809B07-05A,1,	8260+_W	26 Sep 08 09:01
6	2	c092606.d	1.	,MS,ME0809B07-05AMS,1,	8260+_W	26 Sep 08 09:31
7	3	c092607.d	1.	,MSD,ME0809B07-05AMSD,1,	8260+_W	26 Sep 08 10:01
8	4	c092608.d	1.	,SAMP,ME0809B07-16A,1,	8260+_W	26 Sep 08 10:32
9	5	c092609.d	1.	,SAMP,ME0809B07-17A,1,	8260+_W	26 Sep 08 11:02
10	6	c092610.d	1.	,SAMP,ME0809B07-18A,1,	8260+_W	26 Sep 08 11:32
11	7	c092611.d	1.	,SAMP,ME0809B64-01A,10,	1311_V	26 Sep 08 12:11
12	12	c092612.d	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 08 13:14
13	13	c092613.d	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 08 13:31
14	14	c092614.d	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 08 14:08
15	15	c092615.d	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 08 14:25
16	16	c092616.d	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 08 15:09
17	17	c092617.d	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 08 15:43
18	18	c092618.d	1.	,SAMP,ME0809B04-19A,1,	BTEX+M_W	26 Sep 08 16:22
19	19	c092619.d	1.	,SAMP,ME0809A94-04A,25,RA,	BTEX+M_W	26 Sep 08 16:55
20	20	c092620.d	1.	,SAMP,ME0809A94-05A,1,RA,	BTEX+M_W	26 Sep 08 17:25
21	21	c092621.d	1.	,SAMP,ME0809A94-06A,10,RA,	BTEX+M_W	26 Sep 08 17:55
22	22	c092622.d	1.	,SAMP,ME0809B57-01A,1,	BTEX+M_W	26 Sep 08 18:25
23	23	c092623.d	1.	,SAMP,ME0809B57-02A,1,	BTEX+M_W	26 Sep 08 18:55
24	24	c092624.d	1.	,SAMP,ME0809B57-03A,1,	BTEX+M_W	26 Sep 08 19:25
25	25	c092625.d	1.	,SAMP,ME0809B57-04A,1,	BTEX+M_W	26 Sep 08 19:55
26	26	c092626.d	1.	,SAMP,ME0809B57-05A,50,	BTEX+M_W	26 Sep 08 20:25
27	27	c092627.d	1.	,SAMP,ME0809B57-06A,1,	BTEX+M_W	26 Sep 08 20:55
28	28	c092628.d	1.	,SAMP,ME0809B57-07A,1,	BTEX+M_W	26 Sep 08 21:25
29	29	c092629.d	1.	,SAMP,ME0809B57-08A,10,	BTEX+M_W	26 Sep 08 21:55
30	30	c092630.d	1.	,SAMP,ME0809B57-09A,1,	BTEX+M_W	26 Sep 08 22:25

Injection Log

Directory: C:\HPCHEM\1\DATA\D092608

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	D092601.D	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 2008 06:25
2	2	D092602.D	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 2008 07:01
3	3	D092603.D	1.	,CCV,CCV-gro-1000 PPB,1,	gro_W	26 Sep 2008 07:36
4	4	D092604.D	1.	,MBLK,BK-9/26/08,1,	8260+_W	26 Sep 2008 08:14
5	5	D092605.D	1.	,LCS,LCS-20 PPB,1,	8260+_W	26 Sep 2008 08:49
6	6	D092606.D	1.	,CCV,CCV-gro-1000 PPB,1,	gro_W	26 Sep 2008 09:28
7	7	D092607.D	1.	,SAMP,ME0809B04-04A,10,RA,	BTEX+M+G_W	26 Sep 2008 10:18
8	8	D092608.D	1.	,SAMP,ME0809B04-08A,10,RA,	BTEX+M+G_W	26 Sep 2008 10:54
9	9	D092609.D	1.	,SAMP,ME0809B04-15A,2,	BTEX+M+G_W	26 Sep 2008 11:29
10	10	D092610.D	1.	,SAMP,ME0809B04-16A,1,	BTEX+M+G_W	26 Sep 2008 12:05
11	11	D092611.D	1.	,SAMP,ME0809B04-17A,1,	BTEX+M+G_W	26 Sep 2008 12:40
12	12	D092612.D	1.	,SAMP,ME0809B04-18A,1,	BTEX+M+G_W	26 Sep 2008 13:16
13	13	D092613.D	1.	,SAMP,ME0809B07-13A,1,	8260+_W	26 Sep 2008 13:51
14	14	D092614.D	1.	,MS,ME0809B07-13AMS,1,	8260+_W	26 Sep 2008 14:27
15	15	D092615.D	1.	,MSD,ME0809B07-13AMSD,1,	8260+_W	26 Sep 2008 15:02
16	16	D092616.D	1.	,SAMP,ME0809B04-04A,1,RA,	BTEX+M+G_W	26 Sep 2008 15:38
17	17	D092617.D	1.	,SAMP,ME0809B04-15A,10,RA,	BTEX+M+G_W	26 Sep 2008 16:13
18	18	D092618.D	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 2008 17:01
19	19	D092619.D	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 2008 17:37
20	20	D092620.D	1.	,CCV,CCV-gro-1000 PPB,1,	gro_W	26 Sep 2008 18:12
21	21	D092621.D	1.	,CCV,CCV 50 PPB,1,	8260_W	26 Sep 2008 18:49
22	22	D092622.D	1.	,SAMP,ME0809B05-04A,1,	GRO-IN_W	26 Sep 2008 19:27
23	23	D092623.D	1.	,SAMP,ME0809B05-05A,10,	GRO-IN_W	26 Sep 2008 20:02
24	24	D092624.D	1.	,SAMP,ME0809B05-06A,1,	GRO-IN_W	26 Sep 2008 20:38
25	25	D092625.D	1.	,SAMP,ME0809B05-07A,10,	GRO-IN_W	26 Sep 2008 21:14
26	26	D092626.D	1.	,SAMP,ME0809B08-01A,1,	GRO-IN_W	26 Sep 2008 21:49
27	27	D092627.D	1.	,SAMP,ME0809B08-02A,1,	GRO-IN_W	26 Sep 2008 22:25
28	28	D092628.D	1.	,SAMP,ME0809B08-03A,1,	GRO-IN_W	26 Sep 2008 23:00
29	29	D092629.D	1.	,SAMP,ME0809B08-04A,10,	GRO-IN_W	26 Sep 2008 23:36
30	30	D092630.D	1.	,SAMP,ME0809B08-05A,1,	GRO-IN_W	27 Sep 2008 00:11
31	31	D092631.D	1.	,SAMP,ME0809B08-06A,1,	GRO-IN_W	27 Sep 2008 00:47
32	32	D092632.D	1.	,SAMP,ME0809B08-07A,10,	GRO-IN_W	27 Sep 2008 01:22
33	33	D092633.D	1.	,SAMP,ME0809B08-08A,1,	GRO-IN_W	27 Sep 2008 01:58
34	34	D092634.D	1.	,SAMP,ME0809B08-10A,1,	GRO-IN_W	27 Sep 2008 02:33
35	35	D092635.D	1.	RINSE 5	GRO-IN_W	27 Sep 2008 10:35
36	36	D092636.D	1.	RINSE 6	GRO-IN_W	27 Sep 2008 11:11
37	37	D092637.D	1.	RINSE 7	GRO-IN_W	27 Sep 2008 11:46
38	38	D092638.D	1.	RINSE 8	GRO-IN_W	27 Sep 2008 12:22
39	39	D092639.D	1.	RINSE 9	GRO-IN_W	27 Sep 2008 12:58
40	40	D092640.D	1.	RINSE 10	GRO-IN_W	27 Sep 2008 13:33
41	41	D092641.D	1.	RINSE 11	GRO-IN_W	27 Sep 2008 14:09
42	42	D092642.D	1.	RINSE 12	GRO-IN_W	27 Sep 2008 14:44
43	43	D092643.D	1.	RINSE 13	GRO-IN_W	27 Sep 2008 15:20

Injection Log

Directory: c:\hpchem\4\data\e092608

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	e092601.d	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 08 06:04
2	2	e092602.d	1.	,CCV,CCV W 50 PPB,1,	8260_W	26 Sep 08 06:22
3	3	e092603.d	1.	,MBLK,MB-W-092608,1,	8260+_W	26 Sep 08 07:05
4	4	e092604.d	1.	,LCS,LCS-W-20 PPB,1,	8260+_W	26 Sep 08 07:35
5	5	e092605.d	1.	,SAMP,ME0809A94-15A,1,RA,	BTEX+M_W	26 Sep 08 08:29
6	6	e092606.d	1.	,SAMP,ME0809A94-17A,1,RA,	BTEX+M_W	26 Sep 08 09:00
7	7	e092607.d	1.	,SAMP,ME0809A94-10A,10,RA,	BTEX+M_W	26 Sep 08 09:31
8	8	e092608.d	1.	,SAMP,ME0809A94-13A,10,RA,	BTEX+M_W	26 Sep 08 10:01
9	9	e092609.d	1.	,SAMP,ME0809A94-14A,50,RA,	BTEX+M_W	26 Sep 08 10:32
10	10	e092610.d	1.	,SAMP,ME0809A94-16A,25,RA,	BTEX+M_W	26 Sep 08 11:03
11	11	e092611.d	1.	,SAMP,ME0809A94-18A,10,RA,	BTEX+M_W	26 Sep 08 11:33
12	12	e092612.d	1.	,MS,ME0809A94-17AMS,1,	8260+_W	26 Sep 08 12:04
13	13	e092613.d	1.	,MSD,ME0809A94-17AMSD,1,	8260+_W	26 Sep 08 12:35
14	14	e092614.d	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 08 14:31
15	15	e092615.d	1.	,CCV,CCV W 50 PPB,1,	8260_W	26 Sep 08 14:50
16	16	e092616.d	1.	,SAMP,ME0809B07-19A,1,	8260+_W	26 Sep 08 15:34
17	17	e092617.d	1.	,SAMP,ME0809B07-20A,1,	8260+_W	26 Sep 08 16:05
18	18	e092618.d	1.	,SAMP,ME0809B07-21A,1,	8260+_W	26 Sep 08 16:35
19	19	e092619.d	1.	,SAMP,ME0809B07-22A,1,	8260+_W	26 Sep 08 17:06
20	20	e092620.d	1.	,SAMP,ME0809B24-01A,1,	624+_W	26 Sep 08 17:37
21	21	e092621.d	1.	,SAMP,ME0809B24-02A,1,	624+_W	26 Sep 08 18:08
22	22	e092622.d	1.	,SAMP,ME0809B24-03A,1,	624+_W	26 Sep 08 18:38
23	23	e092623.d	1.	,SAMP,ME0809B24-04A,1,	624+_W	26 Sep 08 19:09
24	24	e092624.d	1.	,SAMP,ME0809B24-05A,1,	624+_W	26 Sep 08 19:40
25	25	e092625.d	1.	,SAMP,ME0809B24-06A,1,	624+_W	26 Sep 08 20:10
26	26	e092626.d	1.	,SAMP,ME0809B48-01H,10,	8260_W	26 Sep 08 20:41
27	27	e092627.d	1.	,SAMP,ME0809B67-01A,1,	8260+_W	26 Sep 08 21:19
28	28	e092628.d	1.	,SAMP,ME0809B67-02A,1,	8260+_W	26 Sep 08 21:49
29	29	e092629.d	1.	RINSE	8260+_W	26 Sep 08 22:20
30	30	e092630.d	1.	RINSE	8260+_W	26 Sep 08 22:51

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LEVEL IV
QA/QC DATA PACKAGE

CLIENT:	MWH, Inc.
PROJECT:	GW - SemiAnnual / ACS
LAB WORKORDER:	ME0809B67
DATE PACKAGE ISSUED:	10/20/08

250 West 84th Drive, Merrillville, IN [illegible] TEL.219.769.8378 FAX 219.769.1664

TABLE OF CONTENTS

CLIENT: **MWH, Inc.**

PROJECT: **GW - SemiAnnual / ACS**

LAB WORKORDER: **ME0809B67**

CHAIN-OF-CUSTODY: **85985 / 86464**

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Case Narrative
VOA Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809B67

Sixteen ground water samples were received on 9/25/2008 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for Volatile Organic Analytes using SW-846 Method 8260B.

The samples were collected on 9/24/2008. The samples were analyzed on between 9/26/2008 and 10/7/2008. All samples were analyzed within the prescribed maximum allowable holding time without exception.

The required instrument calibrations were performed and the acceptance criteria met. The grand mean average was used to assess linearity.

Prior to analysis, the resultant mass spectra for BFB met all method criteria, and all samples were analyzed within 12-hour analytical sequences.

Prior to daily analysis, a CCV standard was analyzed and the acceptance criteria met for all CCCs and SPCCs with the following exception.

- CCV standard E092602.D failed with a high bias for 1,1-Dichloroethene. This is considered insignificant as this CCV is only associated with QC samples.

The batch quality control tests were performed and the acceptance criteria met with the following exceptions.

- LCS 10/03 from VOA-1 failed with a high bias for Chloromethane. This is considered insignificant as the bias was high yet the concentration of the associated samples remained below the reporting limit for this analyte.
- LCS 10/04 from VOA-4 failed with a high bias for Chloromethane, Methylene Chloride and 1,3-Dichlorbenzene. This is considered insignificant as the bias was high yet the concentration of the associated samples remained below the reporting limit for these analytes.
- LCS 10/06 from VOA-1 failed with a high bias for Chloromethane. This is considered insignificant as the bias was high yet the concentration of the associated samples remained below the reporting limit for these analytes.

Surrogate compounds are spiked into each sample to evaluate analysis efficiency. All environmental samples yielded acceptable surrogate recovery.

Case Narrative
VOA Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809B67

Internal standards are spiked into each CCV standard and environmental sample. All internal standard responses met the criteria established for the CCVs. The internal standard responses in the environmental samples were evaluated and deemed adequate.

Matrix evaluation was performed on the following client-submitted samples. The accuracy and precision criteria were met as noted.

SAMPLE ID	QC TYPE	EVALUATION
ACS-GW-MW10C-32	MS/MSD	Accuracy criteria met with the exception of Chloromethane. The precision criteria met without exception.

This Case Narrative was prepared by Amy L. Sheehy, QA Assistant.

October 15, 2008

Christopher Daly
MWH, Inc.
175 West Jackson Boulevard, Suite 1900
Chicago, IL 60604

Work Order No.: ME0809B67

RE: GW - SemiAnnual / ACS

Dear Christopher Daly:

Microbac Laboratories, Inc. received 16 samples on 9/25/2008 3:15:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Ronald J. Misiunas
Client Services Manager

Enclosures

WORK ORDER SAMPLE SUMMARY

Date: *Wednesday, October 15, 2008*

CLIENT: MWH, Inc.
Project: GW - SemiAnnual / ACS
Lab Order: ME0809B67

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME0809B67-01A	ACS-GW-TB02-32		9/24/2008 8:15:00 AM	9/25/2008
ME0809B67-02A	ACS-GW-MW29-32		9/24/2008 9:15:00 AM	9/25/2008
ME0809B67-03A	ACS-GW-MW14-32		9/24/2008 9:30:00 AM	9/25/2008
ME0809B67-04A	ACS-GW-MW09R-32		9/24/2008 10:05:00 AM	9/25/2008
ME0809B67-05A	ACS-GW-MW10C-32		9/24/2008 10:20:00 AM	9/25/2008
ME0809B67-06A	ACS-GW-MW23-32		9/24/2008 11:25:00 AM	9/25/2008
ME0809B67-07A	ACS-GW-DUP03-32		9/24/2008 12:00:00 PM	9/25/2008
ME0809B67-08A	ACS-GW-MW06-32		9/24/2008 1:45:00 PM	9/25/2008
ME0809B67-09A	ACS-GW-MW19-32		9/24/2008 2:45:00 PM	9/25/2008
ME0809B67-10A	ACS-GW-MW15-32		9/24/2008 3:05:00 PM	9/25/2008
ME0809B67-11A	ACS-GW-TB03-32		9/24/2008 8:00:00 AM	9/25/2008
ME0809B67-12A	ACS-GW-MW42-32		9/25/2008 8:45:00 AM	9/25/2008
ME0809B67-13A	ACS-GW-MW43-32		9/25/2008 10:00:00 AM	9/25/2008
ME0809B67-14A	ACS-GW-MW45-32		9/25/2008 11:05:00 AM	9/25/2008
ME0809B67-15A	ACS-GW-MW49-32		9/25/2008 1:20:00 PM	9/25/2008
ME0809B67-16A	ACS-GW-MW48-32		9/25/2008 1:25:00 PM	9/25/2008

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-01
Collection Date: 09/24/08 08:15
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*7.7*	5.8	50	J	µg/L	1	09/26/08 21:19
Benzene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/26/08 21:19
Bromoform	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
Bromomethane	A	ND	1.8	10		µg/L	1	09/26/08 21:19
2-Butanone	A	ND	3.6	10		µg/L	1	09/26/08 21:19
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/26/08 21:19
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/26/08 21:19
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
Chloroethane	A	ND	2.3	10		µg/L	1	09/26/08 21:19
Chloroform	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
Chloromethane	A	ND	1	10		µg/L	1	09/26/08 21:19
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/26/08 21:19
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/26/08 21:19
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/26/08 21:19
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/26/08 21:19
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/26/08 21:19
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
2-Hexanone	A	ND	2.4	10		µg/L	1	09/26/08 21:19
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/26/08 21:19
Methylene chloride	A	ND	3.1	10		µg/L	1	09/26/08 21:19
Styrene	A	ND	0.7	5.0		µg/L	1	09/26/08 21:19
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/26/08 21:19
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/26/08 21:19
Toluene	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/26/08 21:19
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/26/08 21:19
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/26/08 21:19
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/26/08 21:19
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/26/08 21:19
Surr: 4-Bromofluorobenzene	S	107	0	76.9-116		%REC	1	09/26/08 21:19

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-TB02-32	**Work Order / ID:**	ME0809B67-01
Sample Description:		**Collection Date:**	09/24/08 08:15
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	99.4	0	78.4-125		%REC	1	09/26/08 21:19
Surr: 1,2-Dichloroethane-d4	S	117	0	74.2-136		%REC	1	09/26/08 21:19
Surr: Toluene-d8	S	112	0	81.4-122		%REC	1	09/26/08 21:19

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW29-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-02
Collection Date: 09/24/08 09:15
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*6.2*	5.8	50	J	µg/L	1	09/26/08 21:49
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 21:49
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/26/08 21:49
2-Butanone	A	*ND*	3.6	10		µg/L	1	09/26/08 21:49
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 21:49
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 21:49
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
Chloroethane	A	*40*	2.3	10		µg/L	1	09/26/08 21:49
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 21:49
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 21:49
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 21:49
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 21:49
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 21:49
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 21:49
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 21:49
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 21:49
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 21:49
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 21:49
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 21:49
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 21:49
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 21:49
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/26/08 21:49
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 21:49
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 21:49
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 21:49
Surr: 4-Bromofluorobenzene	S	105	0	76.9-116		%REC	1	09/26/08 21:49

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW29-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-02
Collection Date: 09/24/08 09:15
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	09/26/08 21:49
Surr: 1,2-Dichloroethane-d4	S	120	0	74.2-136		%REC	1	09/26/08 21:49
Surr: Toluene-d8	S	111	0	81.4-122		%REC	1	09/26/08 21:49

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW14-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-03
Collection Date: 09/24/08 09:30
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	10/03/08 20:26
Benzene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 20:26
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/03/08 20:26
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/03/08 20:26
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/03/08 20:26
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/03/08 20:26
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/03/08 20:26
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/03/08 20:26
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 20:26
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/03/08 20:26
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/03/08 20:26
Chloromethane	A	***ND***	1	10		µg/L	1	10/03/08 20:26
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/03/08 20:26
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/03/08 20:26
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/03/08 20:26
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/03/08 20:26
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 20:26
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/03/08 20:26
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/03/08 20:26
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 20:26
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/03/08 20:26
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/03/08 20:26
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/03/08 20:26
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/03/08 20:26
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/03/08 20:26
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/03/08 20:26
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/03/08 20:26
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/03/08 20:26
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/03/08 20:26
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/03/08 20:26
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/03/08 20:26
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/03/08 20:26
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/03/08 20:26
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/03/08 20:26
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/03/08 20:26
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	10/03/08 20:26
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/03/08 20:26
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	10/03/08 20:26
Surr: 4-Bromofluorobenzene	S	85.2	0	76.9-116		%REC	1	10/03/08 20:26

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW14-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-03
Collection Date: 09/24/08 09:30
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **NLT**
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	10/03/08 20:26
Surr: 1,2-Dichloroethane-d4	S	105	0	74.2-136		%REC	1	10/03/08 20:26
Surr: Toluene-d8	S	102	0	81.4-122		%REC	1	10/03/08 20:26

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW09R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-04
Collection Date: 09/24/08 10:05
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 20:58
Benzene	A	5.8	0.8	5.0		µg/L	1	10/03/08 20:58
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 20:58
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 20:58
Bromomethane	A	ND	1.8	10		µg/L	1	10/03/08 20:58
2-Butanone	A	ND	3.6	10		µg/L	1	10/03/08 20:58
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 20:58
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 20:58
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 20:58
Chloroethane	A	ND	2.3	10		µg/L	1	10/03/08 20:58
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 20:58
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 20:58
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 20:58
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 20:58
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 20:58
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 20:58
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 20:58
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 20:58
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 20:58
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 20:58
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 20:58
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 20:58
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 20:58
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 20:58
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 20:58
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 20:58
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/03/08 20:58
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 20:58
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 20:58
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 20:58
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 20:58
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 20:58
Vinyl chloride	A	1.1	0.9	10	J	µg/L	1	10/03/08 20:58
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 20:58
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	10/03/08 20:58
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 20:58
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 20:58
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 20:58
Surr: 4-Bromofluorobenzene	S	84.1	0	76.9-116		%REC	1	10/03/08 20:58

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW09R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-04
Collection Date: 09/24/08 10:05
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**NLT**
Surr: Dibromofluoromethane	S	99.9	0	78.4-125		%REC	1	10/03/08 20:58
Surr: 1,2-Dichloroethane-d4	S	101	0	74.2-136		%REC	1	10/03/08 20:58
Surr: Toluene-d8	S	101	0	81.4-122		%REC	1	10/03/08 20:58

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW10C-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-05
Collection Date: 09/24/08 10:20
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 21:32
Benzene	A	340	8	50		µg/L	10	10/04/08 12:55
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 21:32
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
Bromomethane	A	ND	1.8	10		µg/L	1	10/03/08 21:32
2-Butanone	A	ND	3.6	10		µg/L	1	10/03/08 21:32
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 21:32
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 21:32
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
Chloroethane	A	280	23	100		µg/L	10	10/04/08 12:55
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 21:32
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 21:32
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 21:32
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 21:32
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 21:32
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 21:32
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 21:32
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 21:32
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 21:32
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 21:32
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/03/08 21:32
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 21:32
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 21:32
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	10/03/08 21:32
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 21:32
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 21:32
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 21:32
Surr: 4-Bromofluorobenzene	S	83.9	0	76.9-116		%REC	1	10/03/08 21:32

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW10C-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-05
Collection Date: 09/24/08 10:20
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**								
Surr: Dibromofluoromethane	S	98.5	0	78.4-125		%REC	1	10/03/08 21:32
Surr: 1,2-Dichloroethane-d4	S	103	0	74.2-136		%REC	1	10/03/08 21:32
Surr: Toluene-d8	S	99.6	0	81.4-122		%REC	1	10/03/08 21:32

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW23-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-06
Collection Date: 09/24/08 11:25
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	10/03/08 22:04
Benzene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 22:04
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/03/08 22:04
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/03/08 22:04
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/03/08 22:04
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/03/08 22:04
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/03/08 22:04
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/03/08 22:04
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 22:04
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/03/08 22:04
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/03/08 22:04
Chloromethane	A	***ND***	1	10		µg/L	1	10/03/08 22:04
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/03/08 22:04
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/03/08 22:04
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/03/08 22:04
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/03/08 22:04
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 22:04
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/03/08 22:04
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/03/08 22:04
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/03/08 22:04
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/03/08 22:04
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/03/08 22:04
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/03/08 22:04
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/03/08 22:04
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/03/08 22:04
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/03/08 22:04
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/03/08 22:04
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/03/08 22:04
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/03/08 22:04
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/03/08 22:04
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/03/08 22:04
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/03/08 22:04
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/03/08 22:04
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/03/08 22:04
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/03/08 22:04
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	10/03/08 22:04
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/03/08 22:04
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	10/03/08 22:04
Surr: 4-Bromofluorobenzene	S	83.2	0	76.9-116		%REC	1	10/03/08 22:04

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW23-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-06
Collection Date: 09/24/08 11:25
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **NLT**
Surr: Dibromofluoromethane	S	107	0	78.4-125		%REC	1	10/03/08 22:04
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	10/03/08 22:04
Surr: Toluene-d8	S	100	0	81.4-122		%REC	1	10/03/08 22:04

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-07
Collection Date: 09/24/08 12:00
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 22:38
Benzene	A	170	0.8	5.0		µg/L	1	10/03/08 22:38
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 22:38
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 22:38
Bromomethane	A	ND	1.8	10		µg/L	1	10/03/08 22:38
2-Butanone	A	ND	3.6	10		µg/L	1	10/03/08 22:38
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 22:38
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 22:38
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 22:38
Chloroethane	A	37	2.3	10		µg/L	1	10/03/08 22:38
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 22:38
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 22:38
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 22:38
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 22:38
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 22:38
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 22:38
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 22:38
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 22:38
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 22:38
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 22:38
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 22:38
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 22:38
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 22:38
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 22:38
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 22:38
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 22:38
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/03/08 22:38
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 22:38
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 22:38
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 22:38
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 22:38
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 22:38
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 22:38
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 22:38
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	10/03/08 22:38
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 22:38
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 22:38
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 22:38
Surr: 4-Bromofluorobenzene	S	80.4	0	76.9-116		%REC	1	10/03/08 22:38

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-07
Collection Date: 09/24/08 12:00
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**NLT**
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	10/03/08 22:38
Surr: 1,2-Dichloroethane-d4	S	105	0	74.2-136		%REC	1	10/03/08 22:38
Surr: Toluene-d8	S	98.3	0	81.4-122		%REC	1	10/03/08 22:38

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW06-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-08
Collection Date: 09/24/08 13:45
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 23:12
Benzene	A	160	0.8	5.0		µg/L	1	10/03/08 23:12
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 23:12
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
Bromomethane	A	ND	1.8	10		µg/L	1	10/03/08 23:12
2-Butanone	A	ND	3.6	10		µg/L	1	10/03/08 23:12
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 23:12
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 23:12
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
Chloroethane	A	36	2.3	10		µg/L	1	10/03/08 23:12
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 23:12
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 23:12
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 23:12
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 23:12
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 23:12
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:12
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 23:12
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 23:12
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 23:12
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:12
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/03/08 23:12
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 23:12
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 23:12
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	10/03/08 23:12
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 23:12
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 23:12
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 23:12
Surr: 4-Bromofluorobenzene	S	79.8	0	76.9-116		%REC	1	10/03/08 23:12

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW06-32 — **Work Order / ID:** ME0809B67-08
Sample Description: — **Collection Date:** 09/24/08 13:45
Sample Matrix: Aqueous — **Date Received:** 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**								
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	10/03/08 23:12
Surr: 1,2-Dichloroethane-d4	S	107	0	74.2-136		%REC	1	10/03/08 23:12
Surr: Toluene-d8	S	98.1	0	81.4-122		%REC	1	10/03/08 23:12

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW19-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-09
Collection Date: 09/24/08 14:45
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 23:46
Benzene	A	5.1	0.8	5.0		µg/L	1	10/03/08 23:46
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 23:46
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
Bromomethane	A	ND	1.8	10		µg/L	1	10/03/08 23:46
2-Butanone	A	ND	3.6	10		µg/L	1	10/03/08 23:46
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 23:46
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 23:46
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
Chloroethane	A	10	2.3	10		µg/L	1	10/03/08 23:46
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 23:46
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 23:46
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 23:46
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 23:46
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 23:46
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:46
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 23:46
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 23:46
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 23:46
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:46
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/03/08 23:46
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 23:46
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 23:46
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	10/03/08 23:46
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 23:46
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 23:46
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 23:46
Surr: 4-Bromofluorobenzene	S	81.8	0	76.9-116		%REC	1	10/03/08 23:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW19-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-09
Collection Date: 09/24/08 14:45
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**NLT**
Surr: Dibromofluoromethane	S	107	0	78.4-125		%REC	1	10/03/08 23:46
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	10/03/08 23:46
Surr: Toluene-d8	S	98.7	0	81.4-122		%REC	1	10/03/08 23:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW15-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-10
Collection Date: 09/24/08 15:05
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/04/08 00:21
Benzene	A	1.3	0.8	5.0	J	µg/L	1	10/04/08 00:21
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/04/08 00:21
Bromoform	A	ND	0.8	5.0		µg/L	1	10/04/08 00:21
Bromomethane	A	ND	1.8	10		µg/L	1	10/04/08 00:21
2-Butanone	A	ND	3.6	10		µg/L	1	10/04/08 00:21
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/04/08 00:21
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/04/08 00:21
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/04/08 00:21
Chloroethane	A	ND	2.3	10		µg/L	1	10/04/08 00:21
Chloroform	A	ND	0.9	5.0		µg/L	1	10/04/08 00:21
Chloromethane	A	ND	1	10		µg/L	1	10/04/08 00:21
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/04/08 00:21
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/04/08 00:21
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/04/08 00:21
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/04/08 00:21
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/04/08 00:21
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/04/08 00:21
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/04/08 00:21
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/04/08 00:21
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/04/08 00:21
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/04/08 00:21
2-Hexanone	A	ND	2.4	10		µg/L	1	10/04/08 00:21
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/04/08 00:21
Methylene chloride	A	ND	3.1	10		µg/L	1	10/04/08 00:21
Styrene	A	ND	0.7	5.0		µg/L	1	10/04/08 00:21
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/04/08 00:21
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/04/08 00:21
Toluene	A	ND	0.9	5.0		µg/L	1	10/04/08 00:21
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/04/08 00:21
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/04/08 00:21
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/04/08 00:21
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/04/08 00:21
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/04/08 00:21
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	10/04/08 00:21
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/04/08 00:21
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/04/08 00:21
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/04/08 00:21
Surr: 4-Bromofluorobenzene	S	83.1	0	76.9-116		%REC	1	10/04/08 00:21

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW15-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-10
Collection Date: 09/24/08 15:05
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**								
Surr: Dibromofluoromethane	S	107	0	78.4-125		%REC	1	10/04/08 00:21
Surr: 1,2-Dichloroethane-d4	S	109	0	74.2-136		%REC	1	10/04/08 00:21
Surr: Toluene-d8	S	99.4	0	81.4-122		%REC	1	10/04/08 00:21

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-11
Collection Date: 09/24/08 08:00
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	10/04/08 00:55
Benzene	A	***ND***	0.8	5.0		µg/L	1	10/04/08 00:55
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/04/08 00:55
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/04/08 00:55
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/04/08 00:55
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/04/08 00:55
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/04/08 00:55
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/04/08 00:55
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	10/04/08 00:55
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/04/08 00:55
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/04/08 00:55
Chloromethane	A	***ND***	1	10		µg/L	1	10/04/08 00:55
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/04/08 00:55
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/04/08 00:55
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/04/08 00:55
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/04/08 00:55
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/04/08 00:55
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/04/08 00:55
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/04/08 00:55
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/04/08 00:55
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/04/08 00:55
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/04/08 00:55
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/04/08 00:55
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/04/08 00:55
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/04/08 00:55
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/04/08 00:55
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/04/08 00:55
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/04/08 00:55
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/04/08 00:55
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/04/08 00:55
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/04/08 00:55
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/04/08 00:55
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/04/08 00:55
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/04/08 00:55
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/04/08 00:55
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	10/04/08 00:55
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/04/08 00:55
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	10/04/08 00:55
Surr: 4-Bromofluorobenzene	S	79.8	0	76.9-116		%REC	1	10/04/08 00:55

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-11
Collection Date: 09/24/08 08:00
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**NLT**
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	10/04/08 00:55
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	10/04/08 00:55
Surr: Toluene-d8	S	99.3	0	81.4-122		%REC	1	10/04/08 00:55

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW42-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-12
Collection Date: 09/25/08 08:45
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	10/07/08 15:44
Benzene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 15:44
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/07/08 15:44
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/07/08 15:44
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/07/08 15:44
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/07/08 15:44
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/07/08 15:44
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/07/08 15:44
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 15:44
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/07/08 15:44
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/07/08 15:44
Chloromethane	A	***ND***	1	10		µg/L	1	10/07/08 15:44
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/07/08 15:44
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/07/08 15:44
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/07/08 15:44
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/07/08 15:44
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 15:44
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/07/08 15:44
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/07/08 15:44
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 15:44
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/07/08 15:44
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/07/08 15:44
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/07/08 15:44
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/07/08 15:44
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/07/08 15:44
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/07/08 15:44
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/07/08 15:44
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/07/08 15:44
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/07/08 15:44
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/07/08 15:44
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/07/08 15:44
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/07/08 15:44
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/07/08 15:44
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/07/08 15:44
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/07/08 15:44
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	10/07/08 15:44
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/07/08 15:44
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	10/07/08 15:44
Surr: 4-Bromofluorobenzene	S	87.3	0	76.9-116		%REC	1	10/07/08 15:44

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW42-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-12
Collection Date: 09/25/08 08:45
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	10/07/08 15:44
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	10/07/08 15:44
Surr: Toluene-d8	S	99.5	0	81.4-122		%REC	1	10/07/08 15:44

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW43-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-13
Collection Date: 09/25/08 10:00
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***ND***	5.8	50		µg/L	1	10/07/08 16:16
Benzene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 16:16
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/07/08 16:16
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/07/08 16:16
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/07/08 16:16
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/07/08 16:16
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/07/08 16:16
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/07/08 16:16
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 16:16
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/07/08 16:16
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/07/08 16:16
Chloromethane	A	***ND***	1	10		µg/L	1	10/07/08 16:16
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/07/08 16:16
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/07/08 16:16
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/07/08 16:16
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/07/08 16:16
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 16:16
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/07/08 16:16
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/07/08 16:16
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/07/08 16:16
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/07/08 16:16
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/07/08 16:16
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/07/08 16:16
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/07/08 16:16
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/07/08 16:16
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/07/08 16:16
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/07/08 16:16
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/07/08 16:16
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/07/08 16:16
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/07/08 16:16
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/07/08 16:16
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/07/08 16:16
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/07/08 16:16
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/07/08 16:16
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/07/08 16:16
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	10/07/08 16:16
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/07/08 16:16
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	10/07/08 16:16
Surr: 4-Bromofluorobenzene	S	81.3	0	76.9-116		%REC	1	10/07/08 16:16

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW43-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-13
Collection Date: 09/25/08 10:00
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	106	0	78.4-125		%REC	1	10/07/08 16:16
Surr: 1,2-Dichloroethane-d4	S	107	0	74.2-136		%REC	1	10/07/08 16:16
Surr: Toluene-d8	S	97.9	0	81.4-122		%REC	1	10/07/08 16:16

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW45-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-14
Collection Date: 09/25/08 11:05
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***42***	5.8	50	J	µg/L	1	10/06/08 18:46
Benzene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 18:46
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/06/08 18:46
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/06/08 18:46
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/06/08 18:46
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/06/08 18:46
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/06/08 18:46
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/06/08 18:46
Chlorobenzene	A	***11***	0.8	5.0		µg/L	1	10/06/08 18:46
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/06/08 18:46
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/06/08 18:46
Chloromethane	A	***ND***	1	10		µg/L	1	10/06/08 18:46
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/06/08 18:46
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/06/08 18:46
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/06/08 18:46
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/06/08 18:46
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 18:46
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/06/08 18:46
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/06/08 18:46
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 18:46
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/06/08 18:46
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 18:46
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/06/08 18:46
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/06/08 18:46
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/06/08 18:46
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/06/08 18:46
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/06/08 18:46
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/06/08 18:46
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 18:46
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/06/08 18:46
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/06/08 18:46
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 18:46
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/06/08 18:46
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/06/08 18:46
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/06/08 18:46
1,2-Dichlorobenzene	A	***1.2***	1	10	J	µg/L	1	10/06/08 18:46
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/06/08 18:46
1,4-Dichlorobenzene	A	***0.97***	0.7	10	J	µg/L	1	10/06/08 18:46
Surr: 4-Bromofluorobenzene	S	84.7	0	76.9-116		%REC	1	10/06/08 18:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW45-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-14
Collection Date: 09/25/08 11:05
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	10/06/08 18:46
Surr: 1,2-Dichloroethane-d4	S	111	0	74.2-136		%REC	1	10/06/08 18:46
Surr: Toluene-d8	S	95.6	0	81.4-122		%REC	1	10/06/08 18:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW49-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-15
Collection Date: 09/25/08 13:20
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***27***	5.8	50	J	µg/L	1	10/06/08 19:19
Benzene	A	***120***	0.8	5.0		µg/L	1	10/06/08 19:19
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/06/08 19:19
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:19
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/06/08 19:19
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/06/08 19:19
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/06/08 19:19
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/06/08 19:19
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:19
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/06/08 19:19
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:19
Chloromethane	A	***ND***	1	10		µg/L	1	10/06/08 19:19
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:19
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:19
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/06/08 19:19
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/06/08 19:19
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:19
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/06/08 19:19
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/06/08 19:19
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:19
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/06/08 19:19
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:19
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/06/08 19:19
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/06/08 19:19
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/06/08 19:19
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/06/08 19:19
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/06/08 19:19
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/06/08 19:19
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:19
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:19
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:19
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:19
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/06/08 19:19
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:19
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/06/08 19:19
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	10/06/08 19:19
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/06/08 19:19
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	10/06/08 19:19
Surr: 4-Bromofluorobenzene	S	84.0	0	76.9-116		%REC	1	10/06/08 19:19

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW49-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-15
Collection Date: 09/25/08 13:20
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	10/06/08 19:19
Surr: 1,2-Dichloroethane-d4	S	112	0	74.2-136		%REC	1	10/06/08 19:19
Surr: Toluene-d8	S	98.4	0	81.4-122		%REC	1	10/06/08 19:19

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW48-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-16
Collection Date: 09/25/08 13:25
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***18***	5.8	50	J	µg/L	1	10/06/08 19:51
Benzene	A	***46***	0.8	5.0		µg/L	1	10/06/08 19:51
Bromodichloromethane	A	***ND***	0.7	5.0		µg/L	1	10/06/08 19:51
Bromoform	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:51
Bromomethane	A	***ND***	1.8	10		µg/L	1	10/06/08 19:51
2-Butanone	A	***ND***	3.6	10		µg/L	1	10/06/08 19:51
Carbon Disulfide	A	***ND***	1.7	10		µg/L	1	10/06/08 19:51
Carbon tetrachloride	A	***ND***	1.7	5.0		µg/L	1	10/06/08 19:51
Chlorobenzene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:51
Chloroethane	A	***ND***	2.3	10		µg/L	1	10/06/08 19:51
Chloroform	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:51
Chloromethane	A	***ND***	1	10		µg/L	1	10/06/08 19:51
Dibromochloromethane	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:51
1,1-Dichloroethane	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:51
1,2-Dichloroethane	A	***ND***	1.2	5.0		µg/L	1	10/06/08 19:51
1,1-Dichloroethene	A	***ND***	1.7	5.0		µg/L	1	10/06/08 19:51
cis-1,2-Dichloroethene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:51
trans-1,2-Dichloroethene	A	***ND***	1.1	5.0		µg/L	1	10/06/08 19:51
1,2-Dichloropropane	A	***ND***	1	5.0		µg/L	1	10/06/08 19:51
cis-1,3-Dichloropropene	A	***ND***	0.8	5.0		µg/L	1	10/06/08 19:51
trans-1,3-Dichloropropene	A	***ND***	0.7	5.0		µg/L	1	10/06/08 19:51
Ethylbenzene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:51
2-Hexanone	A	***ND***	2.4	10		µg/L	1	10/06/08 19:51
4-Methyl-2-Pentanone	A	***ND***	1.7	10		µg/L	1	10/06/08 19:51
Methylene chloride	A	***ND***	3.1	10		µg/L	1	10/06/08 19:51
Styrene	A	***ND***	0.7	5.0		µg/L	1	10/06/08 19:51
1,1,2,2-Tetrachloroethane	A	***ND***	1.4	5.0		µg/L	1	10/06/08 19:51
Tetrachloroethene	A	***ND***	1.3	5.0		µg/L	1	10/06/08 19:51
Toluene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:51
1,1,1-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:51
1,1,2-Trichloroethane	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:51
Trichloroethene	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:51
Vinyl chloride	A	***ND***	0.9	10		µg/L	1	10/06/08 19:51
Total Xylenes	A	***ND***	0.9	5.0		µg/L	1	10/06/08 19:51
1,2,4-Trichlorobenzene	A	***ND***	2	5.0		µg/L	1	10/06/08 19:51
1,2-Dichlorobenzene	A	***ND***	1	10		µg/L	1	10/06/08 19:51
1,3-Dichlorobenzene	A	***ND***	0.9	10		µg/L	1	10/06/08 19:51
1,4-Dichlorobenzene	A	***ND***	0.7	10		µg/L	1	10/06/08 19:51
Surr: 4-Bromofluorobenzene	S	81.4	0	76.9-116		%REC	1	10/06/08 19:51

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW48-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-16
Collection Date: 09/25/08 13:25
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	10/06/08 19:51
Surr: 1,2-Dichloroethane-d4	S	111	0	74.2-136		%REC	1	10/06/08 19:51
Surr: Toluene-d8	S	98.7	0	81.4-122		%REC	1	10/06/08 19:51

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Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-TB02-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-01A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\E092608/E09

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW29-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-02A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\E092608/E09

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW14-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-3A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW09R-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-04A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 10/3/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	6.86		

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW10C-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-05A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 9/26/2008

% Moisture: not dec. Date Analyzed: 10/3/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.00	273.5	

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW23-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-06A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	29.0	

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-DUP03-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-7A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	19.4	

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TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW06-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-8A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	19.5	

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW19-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-09A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	7.0	

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW15-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-10A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 10/4/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-TB03-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-11A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW42-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-12A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100708\A100

Level: LOW Date Received: 10/7/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW43-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-13A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100708\A100

Level: LOW Date Received: 10/7/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW45-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-14A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100608\A100

Level: LOW Date Received: 10/6/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW49-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-15A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100608\A100

Level: LOW Date Received: 10/6/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW48-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-16A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100608\A100

Level: LOW Date Received: 10/6/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Sulfide	7.52	5.6	

FORM I TIC

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	N/A	=	Not Applicable			
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	=	Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	=	Nanograms per Liter (ppt)

U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL
D	=	Surrogate recoveries are not calculated due to sample dilution
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate

DF = Dilution Factor RL = Reporting Limit ST = Sample Type MDL = Method Detection Limit

SAMPLE TYPES

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)

Baltimore Division - Baltimore, MD
Camp Hill Division - Camp Hill, PA
Camp Hill Division (SC) - Pittston, PA
Chicagoland Division - Merrillville, IN
Chicagoland Division (SC) - Indianapolis, IN
Corona Division - Corona, CA
Erie Division - Erie, PA
Fayetteville Division - Fayetteville, NC
Hauser Division - Boulder, CO
Kentucky Division - Louisville, KY
Kentucky Division (Sat) - Evansville, IN
Kentucky Division (Sat) - Lexington, KY
Kentucky Division (Sat) - Paducah, KY
Knoxville Division - Maryville, TN
Massachusetts Division - Marlborough, MA
Microbac Corporate Office - Wexford, PA
Microbac NY - Cortland Office - Cortland, NY
Microbac NY - Waverly Office - Waverly, NY
New Castle Division - New Castle, PA
Pittsburgh Division - Warrendale, PA
Richmond Division - Richmond, VA
South Carolina Division - New Ellenton, SC
South Jersey Division - Turnersville, NJ
Southern Headquarters - Poquoson, VA
Southern Testing Division - Wilson, NC
Southern Testing Division (Sat) - Greensboro, NC
Venice Division - Venice, FL

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COOLER INSPECTION

Date: Wednesday, October 15, 2008

Client Name:

Work Order Number

Checklist completed by

Date / Time Received:

Received by:

Reviewed by

Carrier name:

After-Hour Arrival?	Yes ☐	No ☐	
Shipping container/cooler in good condition?	Yes ☐	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☐
Chain of custody present?	Yes ☐	No ☐	
Chain of custody included sufficient client identification?	Yes ☐	No ☐	
Chain of custody included sufficient sample collector information?	Yes ☐	No ☐	
Chain of custody included a sample description?	Yes ☐	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☐	
Chain of custody identified the appropriate matrix?	Yes ☐	No ☐	
Chain of custody included date of collection?	Yes ☐	No ☐	
Chain of custody included time of collection?	Yes ☐	No ☐	
Chain of custody identified the appropriate number of containers?	Yes ☐	No ☐	
Samples in proper container/bottle?	Yes ☐	No ☐	
Sample containers intact?	Yes ☐	No ☐	
Sufficient sample volume for indicated test?	Yes ☐	No ☐	
All samples received within holding time?	Yes ☐	No ☐	
If samples are preserved, are the preservatives identified?	Yes ☐	No ☐	
Samples properly preserved?	Yes ☐	No ☐	

If No, adjusted by? _____ Date/Time _____

Chain of custody included the requested analyses?	Yes ☐	No ☐
Chain of custody signed when relinquished and received?	Yes ☐	No ☐
Samples received on ice?	Yes ☐	No ☐

Container/Temp Blank temperatures

VOA vials for aqueous samples have zero headspace? No VOA vials submitted ☐ Yes ☐ No ☐

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

General Comments:

Sample ID	Client Sample ID	Comments

ME0809B67 MONT. WATSON-IL-CHICAG 10/2/2008
GW - SemiAnnual / ACS
Christopher Daly RJM

Microbac®

Samples Submitted to: [X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664 [ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 85985

Instructions on back

Client Name: MWH	Project: ACS GROUNDWATER	Turnaround Time	Report Type
Address: 175 W. JACKSON BLVD, SUITE 1900	Location: GRIFFITH, IN	[X] Routine (7 working days)	[ ] Results Only [ ] Level II
City, State, Zip: CHICAGO, IL 60604	PO #: 4050577.03010601	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: JUSTIN FINGER	Compliance Monitoring? [ ] Yes(1) [ ] No	(needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #: (312) 831-3447	(1)Agency/Program		[ ] EDD

Sampled by (PRINT): J. FINGER, A. BUTLER, D. ARMBRUSTER Sampler Signature: [signature] Sampler Phone #: (312) 831-3447

Send Report via [X] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) JUSTIN.E.FINGER@MWHGLOBAL.COM

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	VOCs + TICs							For Lab Use Only 0809B67
ACS-GW-TB02-32	GW	X			9/24/08	0815	1	3	X							01 A
ACS-GW-MW29-32	GW	X			9/24/08	0915	3	3	X							02
ACS-GW-MW14-32	GW	X			9/24/08	0930	3	3	X							03
ACS-GW-MW09R-32	GW	X			9/24/08	1005	3	3	X							04
ACS-GW-MW10C-32	GW	X			9/24/08	1020	3	3	X							05
ACS-GW-MW23-32	GW	X			9/24/08	1125	3	3	X							06
ACS-GW-DUP03-32	GW	X			9/24/08	1200	3	3	X							07
ACS-GW-MW06-32	GW	X			9/24/08	1345	3	3	X							08
ACS-GW-MW19-32	GW	X			9/24/08	1445	3	3	X							09
ACS-GW-MW15-32	GW	X			9/24/08	1505	3	3	X							10
ACS-GW-TB03-32	GW	X			9/25/08	0800	1	3	X							11

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
RUN SAMPLES ON REGULAR LEVEL MACHINES	[signature]	9/25/08 1500	[signature]	9/25/08 1515
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature) [signature]	Date/Time 9/25/08 1515	Received for Lab By (signature) [signature]	Date/Time 9-25-08/1515

Sample temperature upon receipt in degrees C =

rev. 11/04/04

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Samples Submitted to: [X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664 [ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 86464

Instructions on back

Client Name SEE PAGE 1	Project	Turnaround Time	Report Type
Address	Location	[ ] Routine (7 working days)	[ ] Results Only [ ] Level II
City, State, Zip	PO #	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact	Compliance Monitoring? [ ] Yes(1) [ ] No	_____ (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #	(1)Agency/Program		[ ] EDD

Sampled by (PRINT) _____ Sampler Signature _____ Sampler Phone # _____

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) _____ [ ] e-mail (address) _____

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	VOCs + TICs								For Lab Use Only 0809B67
ACS-GW-MW42-32	GW	X			9/25/08	0845	3	3	X								12 A
ACS-GW-MW43-32	GW	X			9/25/08	1000	3	3	X								13
ACS-GW-MW45-32	GW	X			9/25/08	1105	3	3	X								14
ACS-GW-MW49-32	GW	X			9/25/08	1320	3	3	X								15
ACS-GW-MW48-32	GW	X			9/25/08	1325	3	3	X								16

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
RUN SAMPLES ON REGULAR LOVEL MACHINES	[signature]	9/25/08 1500		
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature) [signature]	Date/Time 9-25-08/1575

Sample temperature upon receipt in degrees C =

rev. 11/04/04

Page 2 of 2

Microbac Laboratories, Inc.

Date: *16-Oct-08*

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **MB-W-092608** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:05:00 AM** SeqNo: **1896198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	ND	10									
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
H - Analyte was prepared and/or analyzed outside of the analytical method holding time
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
b - Analyte detected below reporting limit in the Method Blank

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **MB-W-092608** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:05:00 AM** SeqNo: **1896198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	48.81	0	50	0	97.6	76.9	116	0	0		
Surr: Dibromofluoromethane	49.41	0	50	0	98.8	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	49.94	0	50	0	99.9	74.2	136	0	0		
Surr: Toluene-d8	51.61	0	50	0	103	81.4	122	0	0		

Sample ID: **LCS-W-20 PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:35:00 AM** SeqNo: **1896199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.35	5.0	20	0	96.8	75.5	121	0	0		
Bromodichloromethane	18.68	5.0	20	0	93.4	63.1	132	0	0		
Bromoform	19.13	5.0	20	0	95.7	33.5	173	0	0		
Bromomethane	22.53	10	20	0	113	10	226	0	0		
Carbon tetrachloride	22.58	5.0	20	0	113	68.7	143	0	0		
Chlorobenzene	20.27	5.0	20	0	101	67.9	138	0	0		
Chloroethane	22.89	10	20	0	114	35.6	190	0	0		
Chloroform	20.3	5.0	20	0	102	72.6	134	0	0		
Chloromethane	23.9	10	20	0	120	34.7	130	0	0		
Dibromochloromethane	18.39	5.0	20	0	92	61.4	141	0	0		
1,1-Dichloroethane	20.12	5.0	20	0	101	76.1	139	0	0		
1,2-Dichloroethane	20.93	5.0	20	0	105	63	145	0	0		
1,1-Dichloroethene	21.16	5.0	20	0	106	44	149	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **LCS-W-20 PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 7:35:00 AM** SeqNo: **1896199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	20.6	5.0	20	0	103	52.5	152	0	0		
1,2-Dichloropropane	16.95	5.0	20	0	84.8	75.3	124	0	0		
cis-1,3-Dichloropropene	18.04	5.0	20	0	90.2	48.4	152	0	0		
trans-1,3-Dichloropropene	19.66	5.0	20	0	98.3	39.9	176	0	0		
Ethylbenzene	20.25	5.0	20	0	101	76.1	125	0	0		
Methylene chloride	24.19	10	20	0	121	26.3	157	0	0		
1,1,2,2-Tetrachloroethane	18.93	5.0	20	0	94.6	56.5	136	0	0		
Tetrachloroethene	21.22	5.0	20	0	106	68.7	150	0	0		
Toluene	20.13	5.0	20	0	101	63.9	131	0	0		
1,1,1-Trichloroethane	21.77	5.0	20	0	109	70.1	136	0	0		
1,1,2-Trichloroethane	19.03	5.0	20	0	95.2	66.6	137	0	0		
Trichloroethene	19.93	5.0	20	0	99.7	45.2	154	0	0		
Vinyl chloride	19.53	10	20	0	97.6	45	140	0	0		
1,2-Dichlorobenzene	20.58	10	20	0	103	79.6	121	0	0		
1,3-Dichlorobenzene	19.04	10	20	0	95.2	73.8	113	0	0		
1,4-Dichlorobenzene	19.14	10	20	0	95.7	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	51.19	0	50	0	102	76.9	116	0	0		
Surr: Dibromofluoromethane	51.48	0	50	0	103	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	51.7	0	50	0	103	74.2	136	0	0		
Surr: Toluene-d8	51.69	0	50	0	103	81.4	122	0	0		

Sample ID: **ME0809A94-17AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:04:00 PM** SeqNo: **1896207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.87	5.0	20	0	94.4	60.6	130	0	0		
Bromodichloromethane	19.36	5.0	20	0	96.8	65.8	126	0	0		
Bromoform	19.35	5.0	20	0	96.8	40.5	146	0	0		
Bromomethane	27.65	10	20	0	138	0	243	0	0		
Carbon tetrachloride	23.08	5.0	20	0	115	47.2	149	0	0		
Chlorobenzene	20.83	5.0	20	0	104	75.6	127	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **ME0809A94-17AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:04:00 PM** SeqNo: **1896207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	24.22	10	20	0	121	0	357	0	0		
Chloroform	21.52	5.0	20	0	108	71.2	120	0	0		
Chloromethane	24.96	10	20	0	125	10.8	155	0	0		
Dibromochloromethane	18.69	5.0	20	0	93.4	60.1	136	0	0		
1,1-Dichloroethane	19.44	5.0	20	0	97.2	68	119	0	0		
1,2-Dichloroethane	21.45	5.0	20	0	107	67.7	133	0	0		
1,1-Dichloroethene	21.45	5.0	20	0	107	50.1	125	0	0		
trans-1,2-Dichloroethene	21.16	5.0	20	0	106	56.9	132	0	0		
1,2-Dichloropropane	16.12	5.0	20	0	80.6	71.4	125	0	0		
cis-1,3-Dichloropropene	18.95	5.0	20	0	94.8	66.9	134	0	0		
trans-1,3-Dichloropropene	21.03	5.0	20	0	105	69.9	130	0	0		
Ethylbenzene	21.79	5.0	20	0	109	60.6	144	0	0		
Methylene chloride	23.51	10	20	0	118	55.4	130	0	0		
1,1,2,2-Tetrachloroethane	18.73	5.0	20	0	93.6	46.8	168	0	0		
Tetrachloroethene	22.77	5.0	20	0	114	60.1	144	0	0		
Toluene	22.19	5.0	20	0	111	69.7	130	0	0		
1,1,1-Trichloroethane	23.41	5.0	20	0	117	63	136	0	0		
1,1,2-Trichloroethane	19.31	5.0	20	0	96.6	40.6	165	0	0		
Trichloroethene	19.4	5.0	20	0	97	48.6	139	0	0		
Vinyl chloride	21.41	10	20	0	107	33	151	0	0		
1,2-Dichlorobenzene	19.72	10	20	0	98.6	76.7	123	0	0		
1,3-Dichlorobenzene	19.7	10	20	0	98.5	69.3	116	0	0		
1,4-Dichlorobenzene	19.66	10	20	0	98.3	73.9	122	0	0		
Surr: 4-Bromofluorobenzene	54.36	0	50	0	109	76.9	116	0	0		
Surr: Dibromofluoromethane	49.92	0	50	0	99.8	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	54.34	0	50	0	109	74.2	136	0	0		
Surr: Toluene-d8	54.31	0	50	0	109	81.4	122	0	0		

Qualifiers:
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **ME0809A94-17AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:35:00 PM** SeqNo: **1896208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.52	5.0	20	0	97.6	60.6	130	18.87	3.39	23.7	
Bromodichloromethane	19.61	5.0	20	0	98	65.8	126	19.36	1.28	28.4	
Bromoform	19.6	5.0	20	0	98	40.5	146	19.35	1.28	28.8	
Bromomethane	31.51	10	20	0	158	0	243	27.65	13.0	52.8	
Carbon tetrachloride	24.72	5.0	20	0	124	47.2	149	23.08	6.86	31.1	
Chlorobenzene	21.31	5.0	20	0	107	75.6	127	20.83	2.28	23	
Chloroethane	26.69	10	20	0	133	0	357	24.22	9.70	29.3	
Chloroform	22.6	5.0	20	0	113	71.2	120	21.52	4.90	25	
Chloromethane	26.24	10	20	0	131	10.8	155	24.96	5.00	90.9	
Dibromochloromethane	19.33	5.0	20	0	96.7	60.1	136	18.69	3.37	27.1	
1,1-Dichloroethane	19.61	5.0	20	0	98	68	119	19.44	0.871	14.2	
1,2-Dichloroethane	22.17	5.0	20	0	111	67.7	133	21.45	3.30	23.3	
1,1-Dichloroethene	22.31	5.0	20	0	112	50.1	125	21.45	3.93	31	
trans-1,2-Dichloroethene	22	5.0	20	0	110	56.9	132	21.16	3.89	66.1	
1,2-Dichloropropane	16.67	5.0	20	0	83.4	71.4	125	16.12	3.35	26	
cis-1,3-Dichloropropene	18.16	5.0	20	0	90.8	66.9	134	18.95	4.26	28.7	
trans-1,3-Dichloropropene	20.43	5.0	20	0	102	69.9	130	21.03	2.89	27.9	
Ethylbenzene	21.82	5.0	20	0	109	60.6	144	21.79	0.138	25.2	
Methylene chloride	23.19	10	20	0	116	55.4	130	23.51	1.37	28.7	
1,1,2,2-Tetrachloroethane	18.09	5.0	20	0	90.4	46.8	168	18.73	3.48	22.3	
Tetrachloroethene	23.01	5.0	20	0	115	60.1	144	22.77	1.05	29.7	
Toluene	22.27	5.0	20	0	111	69.7	130	22.19	0.360	25.4	
1,1,1-Trichloroethane	23.85	5.0	20	0	119	63	136	23.41	1.86	29	
1,1,2-Trichloroethane	20.05	5.0	20	0	100	40.6	165	19.31	3.76	25.9	
Trichloroethene	20.54	5.0	20	0	103	48.6	139	19.4	5.71	26.9	
Vinyl chloride	23.44	10	20	0	117	33	151	21.41	9.05	31.2	
1,2-Dichlorobenzene	20.45	10	20	0	102	76.7	123	19.72	3.63	17.8	
1,3-Dichlorobenzene	19.65	10	20	0	98.2	69.3	116	19.7	0.254	18.2	
1,4-Dichlorobenzene	20.14	10	20	0	101	73.9	122	19.66	2.41	17.1	
Surr: 4-Bromofluorobenzene	51.67	0	50	0	103	76.9	116	0	0	0	
Surr: Dibromofluoromethane	49.8	0	50	0	99.6	78.4	125	0	0	0	

Qualifiers:
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H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R118879

Sample ID: **ME0809A94-17AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-5_080926A**
Client ID: **ZZZZZ** Batch ID: **R118879** TestNo: **SW8260B** Analysis Date: **9/26/2008 12:35:00 PM** SeqNo: **1896208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	55.28	0	50	0	111	74.2	136	0	0	0	
Surr: Toluene-d8	53.42	0	50	0	107	81.4	122	0	0	0	

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119265

Sample ID: **bk-w-10/03/08 ppb** SampType: **mblk** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081003B**
Client ID: **ZZZZZ** Batch ID: **R119265** TestNo: **SW8260B** Analysis Date: **10/3/2008 4:32:00 PM** SeqNo: **1900548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	ND	10									
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119265

Sample ID: **bk-w-10/03/08 ppb** SampType: **mblk** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081003B**
Client ID: **ZZZZZ** Batch ID: **R119265** TestNo: **SW8260B** Analysis Date: **10/3/2008 4:32:00 PM** SeqNo: **1900548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	45.1	0	50	0	90.2	76.9	116	0	0		
Surr: Dibromofluoromethane	50.5	0	50	0	101	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	48.7	0	50	0	97.4	74.2	136	0	0		
Surr: Toluene-d8	51.12	0	50	0	102	81.4	122	0	0		

Sample ID: **LCS/ICv-w-50 ppb** SampType: **LCS** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081003B**
Client ID: **ZZZZZ** Batch ID: **R119265** TestNo: **SW8260B** Analysis Date: **10/3/2008 2:48:00 PM** SeqNo: **1900356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.81	5.0	50	0	104	75.5	121	0	0		
Bromodichloromethane	49.2	5.0	50	0	98.4	63.1	132	0	0		
Bromoform	51.88	5.0	50	0	104	33.5	173	0	0		
Bromomethane	22.77	10	50	0	45.5	10	226	0	0		
Carbon tetrachloride	52.7	5.0	50	0	105	68.7	143	0	0		
Chlorobenzene	53.38	5.0	50	0	107	67.9	138	0	0		
Chloroethane	54.16	10	50	0	108	35.6	190	0	0		
Chloroform	53.03	5.0	50	0	106	72.6	134	0	0		
Chloromethane	71.36	10	50	0	143	34.7	130	0	0		S
Dibromochloromethane	51.08	5.0	50	0	102	61.4	141	0	0		
1,1-Dichloroethane	52.19	5.0	50	0	104	76.1	139	0	0		
1,2-Dichloroethane	48.63	5.0	50	0	97.3	63	145	0	0		
1,1-Dichloroethene	46.47	5.0	50	0	92.9	44	149	0	0		
trans-1,2-Dichloroethene	52.96	5.0	50	0	106	52.5	152	0	0		
1,2-Dichloropropane	49.92	5.0	50	0	99.8	75.3	124	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119265

Sample ID: LCS/ICv-w-50 ppb | SampType: LCS | TestCode: 8260+_w | Units: µg/L | Prep Date: | Run ID: VOA-1_081003B
Client ID: ZZZZZ | Batch ID: R119265 | TestNo: SW8260B | Analysis Date: 10/3/2008 2:48:00 PM | SeqNo: 1900356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	51.16	5.0	50	0	102	48.4	152	0	0		
trans-1,3-Dichloropropene	55.7	5.0	50	0	111	39.9	176	0	0		
Ethylbenzene	55.64	5.0	50	0	111	76.1	125	0	0		
Methylene chloride	48.47	10	50	0	96.9	26.3	157	0	0		
1,1,2,2-Tetrachloroethane	50.03	5.0	50	0	100	56.5	136	0	0		
Tetrachloroethene	55.48	5.0	50	0	111	68.7	150	0	0		
Toluene	53.29	5.0	50	0	107	63.9	131	0	0		
1,1,1-Trichloroethane	53.19	5.0	50	0	106	70.1	136	0	0		
1,1,2-Trichloroethane	48.11	5.0	50	0	96.2	66.6	137	0	0		
Trichloroethene	51.6	5.0	50	0	103	45.2	154	0	0		
Vinyl chloride	55.7	10	50	0	111	45	140	0	0		
1,2-Dichlorobenzene	56.68	10	50	0	113	79.6	121	0	0		
1,3-Dichlorobenzene	56.39	10	50	0	113	73.8	113	0	0		
1,4-Dichlorobenzene	53.91	10	50	0	108	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	50.4	0	50	0	101	76.9	116	0	0		
Surr: Dibromofluoromethane	48.45	0	50	0	96.9	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	48.03	0	50	0	96.1	74.2	136	0	0		
Surr: Toluene-d8	49.87	0	50	0	99.7	81.4	122	0	0		

Sample ID: me0810119-01AMS | SampType: MS | TestCode: 8260+_W | Units: µg/L | Prep Date: | Run ID: VOA-1_081003B
Client ID: ZZZZZ | Batch ID: R119265 | TestNo: SW8260B | Analysis Date: 10/4/2008 1:28:00 AM | SeqNo: 1900564

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.55	5.0	20	0	103	60.6	130	0	0		
Bromodichloromethane	19.65	5.0	20	0	98.2	65.8	126	0	0		
Bromoform	18.68	5.0	20	0	93.4	40.5	146	0	0		
Bromomethane	10.84	10	20	0	54.2	0	243	0	0		
Carbon tetrachloride	20.91	5.0	20	0	105	47.2	149	0	0		
Chlorobenzene	20.16	5.0	20	0	101	75.6	127	0	0		
Chloroethane	24.21	10	20	0	121	0	357	0	0		
Chloroform	21.98	5.0	20	0	110	71.2	120	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119265

Sample ID: **me0810119-01AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081003B**
Client ID: **ZZZZZ** Batch ID: **R119265** TestNo: **SW8260B** Analysis Date: **10/4/2008 1:28:00 AM** SeqNo: **1900564**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	27.34	10	20	0	137	10.8	155	0	0		
Dibromochloromethane	19.9	5.0	20	0	99.5	60.1	136	0	0		
1,1-Dichloroethane	21.41	5.0	20	0	107	68	119	0	0		
1,2-Dichloroethane	21.19	5.0	20	0	106	67.7	133	0	0		
1,1-Dichloroethene	16.33	5.0	20	0	81.7	50.1	125	0	0		
trans-1,2-Dichloroethene	20.44	5.0	20	0	102	56.9	132	0	0		
1,2-Dichloropropane	18.94	5.0	20	0	94.7	71.4	125	0	0		
cis-1,3-Dichloropropene	16	5.0	20	0	80	66.9	134	0	0		
trans-1,3-Dichloropropene	18.4	5.0	20	0	92	69.9	130	0	0		
Ethylbenzene	18.15	5.0	20	0	90.8	60.6	144	0	0		
Methylene chloride	19.72	10	20	0	98.6	55.4	130	0	0		
1,1,2,2-Tetrachloroethane	19.73	5.0	20	0	98.6	46.8	168	0	0		
Tetrachloroethene	19.68	5.0	20	0	98.4	60.1	144	0	0		
Toluene	20.29	5.0	20	0	101	69.7	130	0	0		
1,1,1-Trichloroethane	21.18	5.0	20	0	106	63	136	0	0		
1,1,2-Trichloroethane	20.71	5.0	20	0	104	40.6	165	0	0		
Trichloroethene	18.2	5.0	20	0	91	48.6	139	0	0		
Vinyl chloride	22.79	10	20	0	114	33	151	0	0		
1,2-Dichlorobenzene	18.79	10	20	0	94	76.7	123	0	0		
1,3-Dichlorobenzene	18.41	10	20	0	92	69.3	116	0	0		
1,4-Dichlorobenzene	17.6	10	20	0	88	73.9	122	0	0		
Surr: 4-Bromofluorobenzene	49.51	0	50	0	99	76.9	116	0	0		
Surr: Dibromofluoromethane	54.47	0	50	0	109	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	54.69	0	50	0	109	74.2	136	0	0		
Surr: Toluene-d8	50	0	50	0	100	81.4	122	0	0		

Sample ID: **ME0810119-01AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081003B**
Client ID: **ZZZZZ** Batch ID: **R119265** TestNo: **SW8260B** Analysis Date: **10/4/2008 2:00:00 AM** SeqNo: **1900565**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.95	5.0	20	0	105	60.6	130	20.55	1.93	23.7	

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119265

Sample ID: **ME0810119-01AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081003B**
Client ID: **ZZZZZ** Batch ID: **R119265** TestNo: **SW8260B** Analysis Date: **10/4/2008 2:00:00 AM** SeqNo: **1900565**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	20.1	5.0	20	0	100	65.8	126	19.65	2.26	28.4	
Bromoform	18.94	5.0	20	0	94.7	40.5	146	18.68	1.38	28.8	
Bromomethane	13.37	10	20	0	66.8	0	243	10.84	20.9	52.8	
Carbon tetrachloride	21.38	5.0	20	0	107	47.2	149	20.91	2.22	31.1	
Chlorobenzene	20.44	5.0	20	0	102	75.6	127	20.16	1.38	23	
Chloroethane	23.95	10	20	0	120	0	357	24.21	1.08	29.3	
Chloroform	22.1	5.0	20	0	110	71.2	120	21.98	0.544	25	
Chloromethane	28.78	10	20	0	144	10.8	155	27.34	5.13	90.9	
Dibromochloromethane	19.75	5.0	20	0	98.8	60.1	136	19.9	0.757	27.1	
1,1-Dichloroethane	22.14	5.0	20	0	111	68	119	21.41	3.35	14.2	
1,2-Dichloroethane	20.81	5.0	20	0	104	67.7	133	21.19	1.81	23.3	
1,1-Dichloroethene	17.17	5.0	20	0	85.8	50.1	125	16.33	5.01	31	
trans-1,2-Dichloroethene	21.41	5.0	20	0	107	56.9	132	20.44	4.64	66.1	
1,2-Dichloropropane	19.19	5.0	20	0	96	71.4	125	18.94	1.31	26	
cis-1,3-Dichloropropene	16.34	5.0	20	0	81.7	66.9	134	16	2.10	28.7	
trans-1,3-Dichloropropene	18.71	5.0	20	0	93.6	69.9	130	18.4	1.67	27.9	
Ethylbenzene	18.49	5.0	20	0	92.5	60.6	144	18.15	1.86	25.2	
Methylene chloride	19.41	10	20	0	97	55.4	130	19.72	1.58	28.7	
1,1,2,2-Tetrachloroethane	20.62	5.0	20	0	103	46.8	168	19.73	4.41	22.3	
Tetrachloroethene	18.96	5.0	20	0	94.8	60.1	144	19.68	3.73	29.7	
Toluene	19.92	5.0	20	0	99.6	69.7	130	20.29	1.84	25.4	
1,1,1-Trichloroethane	21.37	5.0	20	0	107	63	136	21.18	0.893	29	
1,1,2-Trichloroethane	20.24	5.0	20	0	101	40.6	165	20.71	2.30	25.9	
Trichloroethene	19.43	5.0	20	0	97.2	48.6	139	18.2	6.54	26.9	
Vinyl chloride	22.37	10	20	0	112	33	151	22.79	1.86	31.2	
1,2-Dichlorobenzene	19.06	10	20	0	95.3	76.7	123	18.79	1.43	17.8	
1,3-Dichlorobenzene	18.42	10	20	0	92.1	69.3	116	18.41	0.0543	18.2	
1,4-Dichlorobenzene	18.18	10	20	0	90.9	73.9	122	17.6	3.24	17.1	
Surr: 4-Bromofluorobenzene	48.66	0	50	0	97.3	76.9	116	0	0	0	
Surr: Dibromofluoromethane	53.41	0	50	0	107	78.4	125	0	0	0	
Surr: 1,2-Dichloroethane-d4	54.89	0	50	0	110	74.2	136	0	0	0	

Qualifiers:
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R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119265

Sample ID: **ME0810119-01AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081003B**
Client ID: **ZZZZZ** Batch ID: **R119265** TestNo: **SW8260B** Analysis Date: **10/4/2008 2:00:00 AM** SeqNo: **1900565**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	49.66	0	50	0	99.3	81.4	122	0	0	0	

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R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119297

Sample ID: **MB 10/4** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_081004A**
Client ID: **ZZZZZ** Batch ID: **R119297** TestNo: **SW8260B** Analysis Date: **10/4/2008 9:51:00 AM** SeqNo: **1900592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	6.73	50									J
Benzene	1.55	5.0									J
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	8.68	10									J
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119297

Sample ID: **MB 10/4** SampType: **MBLK** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_081004A**
Client ID: **ZZZZZ** Batch ID: **R119297** TestNo: **SW8260B** Analysis Date: **10/4/2008 9:51:00 AM** SeqNo: **1900592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	48.24	0	50	0	96.5	76.9	116	0	0		
Surr: Dibromofluoromethane	53.2	0	50	0	106	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	48	0	50	0	96	74.2	136	0	0		
Surr: Toluene-d8	49.99	0	50	0	100	81.4	122	0	0		

Sample ID: **LCS 20 PPB** SampType: **LCS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_081004A**
Client ID: **ZZZZZ** Batch ID: **R119297** TestNo: **SW8260B** Analysis Date: **10/4/2008 10:26:00 AM** SeqNo: **1900596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.54	5.0	20	0	113	75.5	121	0	0		
Bromodichloromethane	20.74	5.0	20	0	104	63.1	132	0	0		
Bromoform	24.25	5.0	20	0	121	33.5	173	0	0		
Bromomethane	18.98	10	20	0	94.9	10	226	0	0		
Carbon tetrachloride	20.05	5.0	20	0	100	68.7	143	0	0		
Chlorobenzene	22.67	5.0	20	0	113	67.9	138	0	0		
Chloroethane	21.65	10	20	0	108	35.6	190	0	0		
Chloroform	23.21	5.0	20	0	116	72.6	134	0	0		
Chloromethane	30.85	10	20	0	154	34.7	130	0	0		S
Dibromochloromethane	21.42	5.0	20	0	107	61.4	141	0	0		
1,1-Dichloroethane	22.7	5.0	20	0	114	76.1	139	0	0		
1,2-Dichloroethane	20.55	5.0	20	0	103	63	145	0	0		
1,1-Dichloroethene	20.96	5.0	20	0	105	44	149	0	0		
trans-1,2-Dichloroethene	23.25	5.0	20	0	116	52.5	152	0	0		
1,2-Dichloropropane	22.31	5.0	20	0	112	75.3	124	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119297

Sample ID: LCS 20 PPB | SampType: LCS | TestCode: 8260+_W | Units: µg/L | Prep Date: | Run ID: VOA-4_081004A
Client ID: ZZZZZ | Batch ID: R119297 | TestNo: SW8260B | Analysis Date: 10/4/2008 10:26:00 AM | SeqNo: 1900596

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	21.04	5.0	20	0	105	48.4	152	0	0		
trans-1,3-Dichloropropene	21.08	5.0	20	0	105	39.9	176	0	0		
Ethylbenzene	22.74	5.0	20	0	114	76.1	125	0	0		
Methylene chloride	32.04	10	20	0	160	26.3	157	0	0		S
1,1,2,2-Tetrachloroethane	21.62	5.0	20	0	108	56.5	136	0	0		
Tetrachloroethene	24.21	5.0	20	0	121	68.7	150	0	0		
Toluene	22.73	5.0	20	0	114	63.9	131	0	0		
1,1,1-Trichloroethane	20.57	5.0	20	0	103	70.1	136	0	0		
1,1,2-Trichloroethane	22.61	5.0	20	0	113	66.6	137	0	0		
Trichloroethene	22.76	5.0	20	0	114	45.2	154	0	0		
Vinyl chloride	18.73	10	20	0	93.6	45	140	0	0		
1,2-Dichlorobenzene	23.09	10	20	0	115	79.6	121	0	0		
1,3-Dichlorobenzene	23.33	10	20	0	117	73.8	113	0	0		S
1,4-Dichlorobenzene	22.43	10	20	0	112	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	48.94	0	50	0	97.9	76.9	116	0	0		
Surr: Dibromofluoromethane	53.06	0	50	0	106	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	48.01	0	50	0	96	74.2	136	0	0		
Surr: Toluene-d8	51.58	0	50	0	103	81.4	122	0	0		

Sample ID: ME0809B67-05AMS | SampType: MS | TestCode: 8260+_W | Units: µg/L | Prep Date: | Run ID: VOA-4_081004A
Client ID: ACS-GW-MW10C-32 | Batch ID: R119297 | TestNo: SW8260B | Analysis Date: 10/4/2008 6:14:00 PM | SeqNo: 1902122

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	597.1	50	200	340.9	128	60.6	130	0	0		
Bromodichloromethane	217.8	50	200	0	109	65.8	126	0	0		
Bromoform	246.8	50	200	0	123	40.5	146	0	0		
Bromomethane	190.7	100	200	0	95.4	0	243	0	0		
Carbon tetrachloride	190.8	50	200	0	95.4	47.2	149	0	0		
Chlorobenzene	237.7	50	200	0	119	75.6	127	0	0		
Chloroethane	627	100	200	284.6	171	0	357	0	0		
Chloroform	233.3	50	200	0	117	71.2	120	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119297

Sample ID: **ME0809B67-05AMS** SampType: **MS** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_081004A**
Client ID: **ACS-GW-MW10C-32** Batch ID: **R119297** TestNo: **SW8260B** Analysis Date: **10/4/2008 6:14:00 PM** SeqNo: **1902122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	326.4	100	200	0	163	10.8	155	0	0		S
Dibromochloromethane	232.7	50	200	0	116	60.1	136	0	0		
1,1-Dichloroethane	233.6	50	200	0	117	68	119	0	0		
1,2-Dichloroethane	213.2	50	200	0	107	67.7	133	0	0		
1,1-Dichloroethene	185.4	50	200	0	92.7	50.1	125	0	0		
trans-1,2-Dichloroethene	221.4	50	200	0	111	56.9	132	0	0		
1,2-Dichloropropane	235	50	200	0	118	71.4	125	0	0		
cis-1,3-Dichloropropene	219.9	50	200	0	110	66.9	134	0	0		
trans-1,3-Dichloropropene	225.9	50	200	0	113	69.9	130	0	0		
Ethylbenzene	230.5	50	200	0	115	60.6	144	0	0		
Methylene chloride	247.6	100	200	0	124	55.4	130	0	0		
1,1,2,2-Tetrachloroethane	234.9	50	200	0	117	46.8	168	0	0		
Tetrachloroethene	231.5	50	200	0	116	60.1	144	0	0		
Toluene	229.7	50	200	0	115	69.7	130	0	0		
1,1,1-Trichloroethane	203.6	50	200	0	102	63	136	0	0		
1,1,2-Trichloroethane	239.5	50	200	0	120	40.6	165	0	0		
Trichloroethene	225.5	50	200	0	113	48.6	139	0	0		
Vinyl chloride	179.1	100	200	0	89.6	33	151	0	0		
1,2-Dichlorobenzene	237	100	200	0	118	76.7	123	0	0		
1,3-Dichlorobenzene	240.6	100	200	0	120	69.3	116	0	0		S
1,4-Dichlorobenzene	235.2	100	200	0	118	73.9	122	0	0		
Surr: 4-Bromofluorobenzene	482.4	0	500	0	96.5	76.9	116	0	0		
Surr: Dibromofluoromethane	525.8	0	500	0	105	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	475.3	0	500	0	95.1	74.2	136	0	0		
Surr: Toluene-d8	503.3	0	500	0	101	81.4	122	0	0		

Sample ID: **ME0809B67-05AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_081004A**
Client ID: **ACS-GW-MW10C-32** Batch ID: **R119297** TestNo: **SW8260B** Analysis Date: **10/4/2008 6:49:00 PM** SeqNo: **1902123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	585.7	50	200	340.9	122	60.6	130	597.1	1.93	23.7	

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119297

Sample ID: **ME0809B67-05AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_081004A**
Client ID: **ACS-GW-MW10C-32** Batch ID: **R119297** TestNo: **SW8260B** Analysis Date: **10/4/2008 6:49:00 PM** SeqNo: **1902123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	208.2	50	200	0	104	65.8	126	217.8	4.51	28.4	
Bromoform	241	50	200	0	120	40.5	146	246.8	2.38	28.8	
Bromomethane	204.1	100	200	0	102	0	243	190.7	6.79	52.8	
Carbon tetrachloride	203.8	50	200	0	102	47.2	149	190.8	6.59	31.1	
Chlorobenzene	228.7	50	200	0	114	75.6	127	237.7	3.86	23	
Chloroethane	626.9	100	200	284.6	171	0	357	627	0.0160	29.3	
Chloroform	232.8	50	200	0	116	71.2	120	233.3	0.215	25	
Chloromethane	340.9	100	200	0	170	10.8	155	326.4	4.35	90.9	S
Dibromochloromethane	224.7	50	200	0	112	60.1	136	232.7	3.50	27.1	
1,1-Dichloroethane	225.4	50	200	0	113	68	119	233.6	3.57	14.2	
1,2-Dichloroethane	202.7	50	200	0	101	67.7	133	213.2	5.05	23.3	
1,1-Dichloroethene	200.1	50	200	0	100	50.1	125	185.4	7.63	31	
trans-1,2-Dichloroethene	231.8	50	200	0	116	56.9	132	221.4	4.59	66.1	
1,2-Dichloropropane	218.9	50	200	0	109	71.4	125	235	7.09	26	
cis-1,3-Dichloropropene	210.2	50	200	0	105	66.9	134	219.9	4.51	28.7	
trans-1,3-Dichloropropene	217	50	200	0	108	69.9	130	225.9	4.02	27.9	
Ethylbenzene	227.7	50	200	0	114	60.6	144	230.5	1.22	25.2	
Methylene chloride	246.9	100	200	0	123	55.4	130	247.6	0.283	28.7	
1,1,2,2-Tetrachloroethane	230.4	50	200	0	115	46.8	168	234.9	1.93	22.3	
Tetrachloroethene	241.4	50	200	0	121	60.1	144	231.5	4.19	29.7	
Toluene	232.8	50	200	0	116	69.7	130	229.7	1.34	25.4	
1,1,1-Trichloroethane	212.7	50	200	0	106	63	136	203.6	4.37	29	
1,1,2-Trichloroethane	228.3	50	200	0	114	40.6	165	239.5	4.79	25.9	
Trichloroethene	221.7	50	200	0	111	48.6	139	225.5	1.70	26.9	
Vinyl chloride	182.8	100	200	0	91.4	33	151	179.1	2.04	31.2	
1,2-Dichlorobenzene	232.4	100	200	0	116	76.7	123	237	1.96	17.8	
1,3-Dichlorobenzene	231.5	100	200	0	116	69.3	116	240.6	3.86	18.2	
1,4-Dichlorobenzene	227.5	100	200	0	114	73.9	122	235.2	3.33	17.1	
Surr: 4-Bromofluorobenzene	477.7	0	500	0	95.5	76.9	116	0	0	0	
Surr: Dibromofluoromethane	533.9	0	500	0	107	78.4	125	0	0	0	
Surr: 1,2-Dichloroethane-d4	476.8	0	500	0	95.4	74.2	136	0	0	0	

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119297

Sample ID: **ME0809B67-05AMS** SampType: **MSD** TestCode: **8260+_W** Units: **µg/L** Prep Date: Run ID: **VOA-4_081004A**
Client ID: **ACS-GW-MW10C-32** Batch ID: **R119297** TestNo: **SW8260B** Analysis Date: **10/4/2008 6:49:00 PM** SeqNo: **1902123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	518	0	500	0	104	81.4	122	0	0	0	

Qualifiers:
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B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119327

Sample ID: **bk-w-10/06/08 ppb** SampType: **mblk** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 7:41:00 AM** SeqNo: **1900877**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	ND	10									
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									

Qualifiers:
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119327

Sample ID: **bk-w-10/06/08 ppb** SampType: **mblk** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 7:41:00 AM** SeqNo: **1900877**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	43.37	0	50	0	86.7	76.9	116	0	0		
Surr: Dibromofluoromethane	50.28	0	50	0	101	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	50.19	0	50	0	100	74.2	136	0	0		
Surr: Toluene-d8	49.79	0	50	0	99.6	81.4	122	0	0		

Sample ID: **lcs-w-20 ppb** SampType: **lcs** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 8:13:00 AM** SeqNo: **1900878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19	5.0	20	0	95	75.5	121	0	0		
Bromodichloromethane	18.49	5.0	20	0	92.5	63.1	132	0	0		
Bromoform	18.19	5.0	20	0	91	33.5	173	0	0		
Bromomethane	12.39	10	20	0	62	10	226	0	0		
Carbon tetrachloride	18.19	5.0	20	0	91	68.7	143	0	0		
Chlorobenzene	18.74	5.0	20	0	93.7	67.9	138	0	0		
Chloroethane	22	10	20	0	110	35.6	190	0	0		
Chloroform	20.26	5.0	20	0	101	72.6	134	0	0		
Chloromethane	27.12	10	20	0	136	34.7	130	0	0		S
Dibromochloromethane	18.76	5.0	20	0	93.8	61.4	141	0	0		
1,1-Dichloroethane	19.66	5.0	20	0	98.3	76.1	139	0	0		
1,2-Dichloroethane	19.34	5.0	20	0	96.7	63	145	0	0		
1,1-Dichloroethene	16.18	5.0	20	0	80.9	44	149	0	0		
trans-1,2-Dichloroethene	18.59	5.0	20	0	93	52.5	152	0	0		
1,2-Dichloropropane	17.83	5.0	20	0	89.2	75.3	124	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119327

Sample ID: **Ics-w-20 ppb** SampType: **Ics** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 8:13:00 AM** SeqNo: **1900878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	17.8	5.0	20	0	89	48.4	152	0	0		
trans-1,3-Dichloropropene	19.46	5.0	20	0	97.3	39.9	176	0	0		
Ethylbenzene	17.93	5.0	20	0	89.7	76.1	125	0	0		
Methylene chloride	20.79	10	20	0	104	26.3	157	0	0		
1,1,2,2-Tetrachloroethane	18.87	5.0	20	0	94.4	56.5	136	0	0		
Tetrachloroethene	18.69	5.0	20	0	93.4	68.7	150	0	0		
Toluene	18.93	5.0	20	0	94.6	63.9	131	0	0		
1,1,1-Trichloroethane	19.22	5.0	20	0	96.1	70.1	136	0	0		
1,1,2-Trichloroethane	19.32	5.0	20	0	96.6	66.6	137	0	0		
Trichloroethene	17.54	5.0	20	0	87.7	45.2	154	0	0		
Vinyl chloride	21.29	10	20	0	106	45	140	0	0		
1,2-Dichlorobenzene	17.98	10	20	0	89.9	79.6	121	0	0		
1,3-Dichlorobenzene	17.95	10	20	0	89.8	73.8	113	0	0		
1,4-Dichlorobenzene	17.39	10	20	0	87	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	49.4	0	50	0	98.8	76.9	116	0	0		
Surr: Dibromofluoromethane	51.1	0	50	0	102	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	50.69	0	50	0	101	74.2	136	0	0		
Surr: Toluene-d8	50.75	0	50	0	102	81.4	122	0	0		

Sample ID: **ME0810086-01AMS** SampType: **MS** TestCode: **8260_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 11:11:00 AM** SeqNo: **1908206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	254.7	50	200	0	127	60.6	130	0	0		
Bromodichloromethane	199.3	50	200	0	99.6	65.8	126	0	0		
Bromoform	191.8	50	200	0	95.9	40.5	146	0	0		
Bromomethane	97.9	100	200	0	49	0	243	0	0		J
Carbon tetrachloride	156.9	50	200	0	78.4	47.2	149	0	0		
Chlorobenzene	196.8	50	200	0	98.4	75.6	127	0	0		
Chloroethane	182.5	100	200	0	91.2	0	357	0	0		
Chloroform	208.4	50	200	0	104	71.2	120	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119327

Sample ID: **ME0810086-01AMS** SampType: **MS** TestCode: **8260_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 11:11:00 AM** SeqNo: **1908206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	213.3	100	200	0	107	10.8	155	0	0		
Dibromochloromethane	199.3	50	200	0	99.6	60.1	136	0	0		
1,1-Dichloroethane	198.9	50	200	0	99.4	68	119	0	0		
1,2-Dichloroethane	204.9	50	200	0	102	67.7	133	0	0		
1,1-Dichloroethene	131	50	200	0	65.5	50.1	125	0	0		
trans-1,2-Dichloroethene	174	50	200	0	87	56.9	132	0	0		
1,2-Dichloropropane	191.6	50	200	0	95.8	71.4	125	0	0		
cis-1,3-Dichloropropene	187.9	50	200	0	94	66.9	134	0	0		
trans-1,3-Dichloropropene	199.1	50	200	0	99.6	69.9	130	0	0		
Ethylbenzene	174.2	50	200	0	87.1	60.6	144	0	0		
Methylene chloride	209.8	100	200	0	105	55.4	130	0	0		
1,1,2,2-Tetrachloroethane	202.1	50	200	0	101	46.8	168	0	0		
Tetrachloroethene	150.6	50	200	0	75.3	60.1	144	0	0		
Toluene	318.9	50	200	0	159	69.7	130	0	0		S
1,1,1-Trichloroethane	171.6	50	200	0	85.8	63	136	0	0		
1,1,2-Trichloroethane	204.3	50	200	0	102	40.6	165	0	0		
Trichloroethene	164.8	50	200	0	82.4	48.6	139	0	0		
Vinyl chloride	163.9	100	200	0	82	33	151	0	0		
Surr: Toluene-d8	513.1	0	500	0	103	81.4	122	0	0		
Surr: 4-Bromofluorobenzene	491.9	0	500	0	98.4	76.9	116	0	0		
Surr: Dibromofluoromethane	525.4	0	500	0	105	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	531.5	0	500	0	106	74.2	136	0	0		

Sample ID: **ME0810086-01AMS** SampType: **MSD** TestCode: **8260_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 11:43:00 AM** SeqNo: **1908207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	263.4	50	200	0	132	60.6	130	254.7	3.36	23.7	S
Bromodichloromethane	200.1	50	200	0	100	65.8	126	199.3	0.401	28.4	
Bromoform	199.1	50	200	0	99.6	40.5	146	191.8	3.73	28.8	
Bromomethane	116.5	100	200	0	58.2	0	243	97.9	17.4	52.8	

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119327

Sample ID: **ME0810086-01AMS** SampType: **MSD** TestCode: **8260_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081006A**
Client ID: **ZZZZZ** Batch ID: **R119327** TestNo: **SW8260B** Analysis Date: **10/6/2008 11:43:00 AM** SeqNo: **1908207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	163.5	50	200	0	81.8	47.2	149	156.9	4.12	31.1	
Chlorobenzene	202	50	200	0	101	75.6	127	196.8	2.61	23	
Chloroethane	193.1	100	200	0	96.6	0	357	182.5	5.64	29.3	
Chloroform	216.1	50	200	0	108	71.2	120	208.4	3.63	25	
Chloromethane	233.4	100	200	0	117	10.8	155	213.3	9.00	90.9	
Dibromochloromethane	200.1	50	200	0	100	60.1	136	199.3	0.401	27.1	
1,1-Dichloroethane	206	50	200	0	103	68	119	198.9	3.51	14.2	
1,2-Dichloroethane	214.6	50	200	0	107	67.7	133	204.9	4.62	23.3	
1,1-Dichloroethene	137.8	50	200	0	68.9	50.1	125	131	5.06	31	
trans-1,2-Dichloroethene	176	50	200	0	88	56.9	132	174	1.14	66.1	
1,2-Dichloropropane	199.7	50	200	0	99.8	71.4	125	191.6	4.14	26	
cis-1,3-Dichloropropene	192.3	50	200	0	96.2	66.9	134	187.9	2.31	28.7	
trans-1,3-Dichloropropene	208.7	50	200	0	104	69.9	130	199.1	4.71	27.9	
Ethylbenzene	182.1	50	200	0	91	60.6	144	174.2	4.43	25.2	
Methylene chloride	221	100	200	0	110	55.4	130	209.8	5.20	28.7	
1,1,2,2-Tetrachloroethane	202.6	50	200	0	101	46.8	168	202.1	0.247	22.3	
Tetrachloroethene	166	50	200	0	83	60.1	144	150.6	9.73	29.7	
Toluene	321.9	50	200	0	161	69.7	130	318.9	0.936	25.4	S
1,1,1-Trichloroethane	184.6	50	200	0	92.3	63	136	171.6	7.30	29	
1,1,2-Trichloroethane	211.4	50	200	0	106	40.6	165	204.3	3.42	25.9	
Trichloroethene	179.6	50	200	0	89.8	48.6	139	164.8	8.59	26.9	
Vinyl chloride	167.7	100	200	0	83.8	33	151	163.9	2.29	31.2	
Surr: Toluene-d8	509.1	0	500	0	102	81.4	122	0	0	0	
Surr: 4-Bromofluorobenzene	497	0	500	0	99.4	76.9	116	0	0	0	
Surr: Dibromofluoromethane	513.7	0	500	0	103	78.4	125	0	0	0	
Surr: 1,2-Dichloroethane-d4	537.8	0	500	0	108	74.2	136	0	0	0	

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119387

Sample ID: **ME0810087-02AMS** SampType: **MS** TestCode: **624+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007B**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **E624_r40CFR** Analysis Date: **10/7/2008 1:26:00 PM** SeqNo: **1904415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	177.9	50	200	0	89	52	162	0	0		
1,1,2,2-Tetrachloroethane	206.5	50	200	0	103	46	157	0	0		
1,1,2-Trichloroethane	213.9	50	200	0	107	52	150	0	0		
1,1-Dichloroethane	211.1	50	200	0	106	59	155	0	0		
1,1-Dichloroethene	131.7	50	200	0	65.8	0	234	0	0		
1,2-Dichlorobenzene	185.4	100	200	0	92.7	18	190	0	0		
1,2-Dichloroethane	226.2	50	200	0	113	49	155	0	0		
1,2-Dichloropropane	189.4	50	200	0	94.7	0	210	0	0		
1,3-Dichlorobenzene	182.5	100	200	0	91.2	59	156	0	0		
1,4-Dichlorobenzene	180	100	200	0	90	18	190	0	0		
Benzene	662.4	50	200	471.4	95.5	37	151	0	0		
Bromodichloromethane	209.6	50	200	0	105	35	155	0	0		
Bromoform	200.3	50	200	0	100	45	169	0	0		
Bromomethane	92.8	100	200	0	46.4	0	242	0	0		J
Carbon tetrachloride	167.6	50	200	0	83.8	70	140	0	0		
Chlorobenzene	198.3	50	200	0	99.2	37	160	0	0		
Chloroethane	194.4	100	200	0	97.2	14	230	0	0		
Chloroform	227.5	50	200	0	114	51	138	0	0		
Chloromethane	213.2	100	200	0	107	0	273	0	0		
cis-1,3-Dichloropropene	173.6	50	200	0	86.8	0	227	0	0		
Dibromochloromethane	210.3	50	200	0	105	53	149	0	0		
Ethylbenzene	314	50	200	119.4	97.3	37	162	0	0		
Methylene chloride	251.3	100	200	0	126	0	221	0	0		
Tetrachloroethene	160.8	50	200	0	80.4	64	148	0	0		
Toluene	581.4	50	200	386.1	97.7	47	150	0	0		
trans-1,2-Dichloroethene	180	50	200	0	90	54	156	0	0		
trans-1,3-Dichloropropene	198.6	50	200	0	99.3	17	183	0	0		
Trichloroethene	173.3	50	200	0	86.7	71	157	0	0		
Vinyl chloride	164.8	100	200	0	82.4	0	251	0	0		
Surr: 4-Bromofluorobenzene	499.5	0	500	0	99.9	76.9	116	0	0		
Surr: Dibromofluoromethane	528.7	0	500	0	106	78.4	125	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119387

Sample ID: **ME0810087-02AMS** SampType: **MS** TestCode: **624+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007B**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **E624_r40CFR** Analysis Date: **10/7/2008 1:26:00 PM** SeqNo: **1904415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	545.3	0	500	0	109	74.2	136	0	0		
Surr: Toluene-d8	492.9	0	500	0	98.6	81.4	122	0	0		

Sample ID: **ME0810087-02AMS** SampType: **MSD** TestCode: **624+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007B**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **E624_r40CFR** Analysis Date: **10/7/2008 1:59:00 PM** SeqNo: **1904416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	152.8	50	200	0	76.4	52	162	177.9	15.2	0	
1,1,2,2-Tetrachloroethane	212.4	50	200	0	106	46	157	206.5	2.82	0	
1,1,2-Trichloroethane	213	50	200	0	106	52	150	213.9	0.422	0	
1,1-Dichloroethane	198	50	200	0	99	59	155	211.1	6.40	0	
1,1-Dichloroethene	111.1	50	200	0	55.6	0	234	131.7	17.0	14	R
1,2-Dichlorobenzene	195.3	100	200	0	97.6	18	190	185.4	5.20	0	
1,2-Dichloroethane	218.1	50	200	0	109	49	155	226.2	3.65	0	
1,2-Dichloropropane	195.7	50	200	0	97.8	0	210	189.4	3.27	0	
1,3-Dichlorobenzene	178.8	100	200	0	89.4	59	156	182.5	2.05	0	
1,4-Dichlorobenzene	185.6	100	200	0	92.8	18	190	180	3.06	0	
Benzene	605.9	50	200	471.4	67.2	37	151	662.4	8.91	11	
Bromodichloromethane	204.9	50	200	0	102	35	155	209.6	2.27	0	
Bromoform	206.9	50	200	0	103	45	169	200.3	3.24	0	
Bromomethane	104.7	100	200	0	52.4	0	242	92.8	12.1	0	
Carbon tetrachloride	141	50	200	0	70.5	70	140	167.6	17.2	0	
Chlorobenzene	190.6	50	200	0	95.3	37	160	198.3	3.96	13	
Chloroethane	172.2	100	200	0	86.1	14	230	194.4	12.1	0	
Chloroform	213.2	50	200	0	107	51	138	227.5	6.49	0	
Chloromethane	198.2	100	200	0	99.1	0	273	213.2	7.29	0	
cis-1,3-Dichloropropene	168	50	200	0	84	0	227	173.6	3.28	0	
Dibromochloromethane	212	50	200	0	106	53	149	210.3	0.805	0	
Ethylbenzene	282.5	50	200	119.4	81.6	37	162	314	10.6	0	
Methylene chloride	278.7	100	200	0	139	0	221	251.3	10.3	0	
Tetrachloroethene	141.6	50	200	0	70.8	64	148	160.8	12.7	0	

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CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119387

Sample ID: **ME0810087-02AMS** SampType: **MSD** TestCode: **624+_W** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007B**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **E624_r40CFR** Analysis Date: **10/7/2008 1:59:00 PM** SeqNo: **1904416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	522.7	50	200	386.1	68.3	47	150	581.4	10.6	13	
trans-1,2-Dichloroethene	168.7	50	200	0	84.4	54	156	180	6.48	0	
trans-1,3-Dichloropropene	200.2	50	200	0	100	17	183	198.6	0.802	0	
Trichloroethene	158.7	50	200	0	79.4	71	157	173.3	8.80	14	
Vinyl chloride	147.4	100	200	0	73.7	0	251	164.8	11.1	0	
Surr: 4-Bromofluorobenzene	488.9	0	500	0	97.8	76.9	116	0	0	0	
Surr: Dibromofluoromethane	536.2	0	500	0	107	78.4	125	0	0	0	
Surr: 1,2-Dichloroethane-d4	542.1	0	500	0	108	74.2	136	0	0	0	
Surr: Toluene-d8	500.3	0	500	0	100	81.4	122	0	0	0	

Sample ID: **bk-w-10/07/08 ppb** SampType: **mblk** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007A**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **SW8260B** Analysis Date: **10/7/2008 9:16:00 AM** SeqNo: **1901774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	50									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
2-Butanone	ND	10									
Carbon Disulfide	ND	10									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
Dibromochloromethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119387

Sample ID: **bk-w-10/07/08 ppb** SampType: **mblk** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007A**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **SW8260B** Analysis Date: **10/7/2008 9:16:00 AM** SeqNo: **1901774**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	5.0									
1,2-Dichloropropane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Ethylbenzene	ND	5.0									
2-Hexanone	ND	10									
4-Methyl-2-Pentanone	ND	10									
Methylene chloride	ND	10									
Styrene	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
Trichloroethene	ND	5.0									
Vinyl chloride	ND	10									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dichlorobenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,4-Dichlorobenzene	ND	10									
Total Xylenes	ND	5.0									
Surr: 4-Bromofluorobenzene	43.11	0	50	0	86.2	76.9	116	0	0		
Surr: Dibromofluoromethane	51.92	0	50	0	104	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	53.44	0	50	0	107	74.2	136	0	0		
Surr: Toluene-d8	49.13	0	50	0	98.3	81.4	122	0	0		

Sample ID: **lcs-w-20 ppb** SampType: **lcs** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007A**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **SW8260B** Analysis Date: **10/7/2008 9:48:00 AM** SeqNo: **1904270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.43	5.0	20	0	102	75.5	121	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119387

Sample ID: **lcs-w-20 ppb** SampType: **lcs** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007A**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **SW8260B** Analysis Date: **10/7/2008 9:48:00 AM** SeqNo: **1904270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	20.94	5.0	20	0	105	63.1	132	0	0		
Bromoform	19.91	5.0	20	0	99.6	33.5	173	0	0		
Bromomethane	8.52	10	20	0	42.6	10	226	0	0		J
Carbon tetrachloride	15.45	5.0	20	0	77.2	68.7	143	0	0		
Chlorobenzene	20.09	5.0	20	0	100	67.9	138	0	0		
Chloroethane	18.53	10	20	0	92.6	35.6	190	0	0		
Chloroform	22.87	5.0	20	0	114	72.6	134	0	0		
Chloromethane	20.68	10	20	0	103	34.7	130	0	0		
Dibromochloromethane	21.68	5.0	20	0	108	61.4	141	0	0		
1,1-Dichloroethane	21.29	5.0	20	0	106	76.1	139	0	0		
1,2-Dichloroethane	22.95	5.0	20	0	115	63	145	0	0		
1,1-Dichloroethene	13.04	5.0	20	0	65.2	44	149	0	0		
trans-1,2-Dichloroethene	18.65	5.0	20	0	93.3	52.5	152	0	0		
1,2-Dichloropropane	20.27	5.0	20	0	101	75.3	124	0	0		
cis-1,3-Dichloropropene	19.4	5.0	20	0	97	48.4	152	0	0		
trans-1,3-Dichloropropene	20.41	5.0	20	0	102	39.9	176	0	0		
Ethylbenzene	17.1	5.0	20	0	85.5	76.1	125	0	0		
Methylene chloride	25.02	10	20	0	125	26.3	157	0	0		
1,1,2,2-Tetrachloroethane	21.32	5.0	20	0	107	56.5	136	0	0		
Tetrachloroethene	15.91	5.0	20	0	79.6	68.7	150	0	0		
Toluene	19.27	5.0	20	0	96.4	63.9	131	0	0		
1,1,1-Trichloroethane	17.57	5.0	20	0	87.8	70.1	136	0	0		
1,1,2-Trichloroethane	20.42	5.0	20	0	102	66.6	137	0	0		
Trichloroethene	17.89	5.0	20	0	89.4	45.2	154	0	0		
Vinyl chloride	15.26	10	20	0	76.3	45	140	0	0		
1,2-Dichlorobenzene	19.49	10	20	0	97.5	79.6	121	0	0		
1,3-Dichlorobenzene	18.97	10	20	0	94.8	73.8	113	0	0		
1,4-Dichlorobenzene	18.44	10	20	0	92.2	78.9	119	0	0		
Surr: 4-Bromofluorobenzene	49.97	0	50	0	99.9	76.9	116	0	0		
Surr: Dibromofluoromethane	53.63	0	50	0	107	78.4	125	0	0		
Surr: 1,2-Dichloroethane-d4	53.84	0	50	0	108	74.2	136	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809B67
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119387

Sample ID: **lcs-w-20 ppb** SampType: **lcs** TestCode: **8260+_w** Units: **µg/L** Prep Date: Run ID: **VOA-1_081007A**
Client ID: **ZZZZZ** Batch ID: **R119387** TestNo: **SW8260B** Analysis Date: **10/7/2008 9:48:00 AM** SeqNo: **1904270**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	50.02	0	50	0	100	81.4	122	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

VOA GC/MS
RAW DATA

METHOD BLANK
RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092603.D Vial: 3
Acq On : 26 Sep 2008 7:05 am Operator: NLT
Sample : ,MBLK,MB-W-092608,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 7:55 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

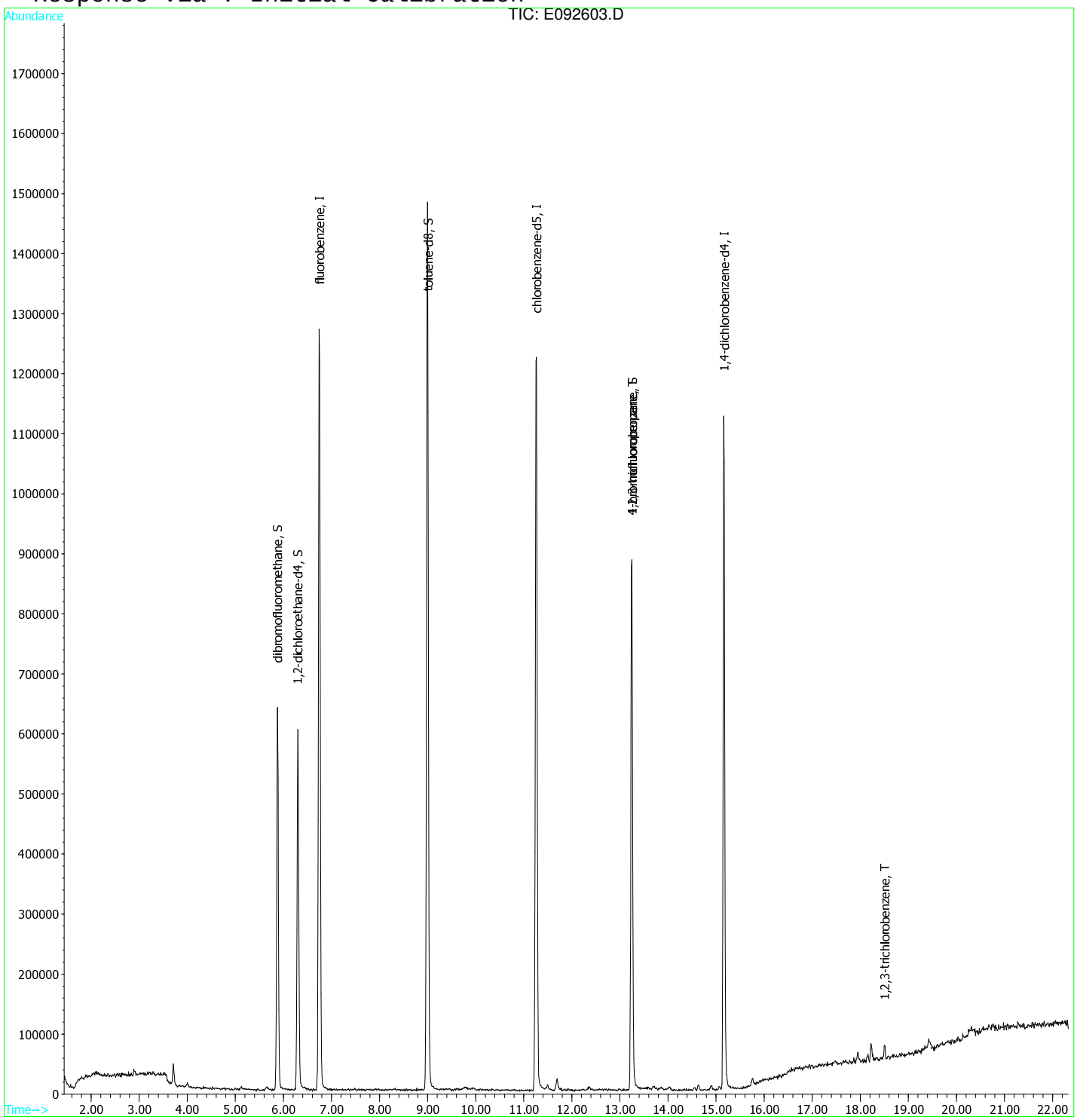
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.74	96	1632994	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.26	117	1150685	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	444728	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	515392	49.41 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.30	65	498637	49.94 ug/L	-0.02
44) toluene-d8	9.00	98	1414296	51.61 ug/L	0.00
63) 4-bromofluorobenzene	13.24	95	508684	48.81 ug/L	-0.02
Target Compounds					Qvalue
64) 1,2,3-trichloropropane	13.24	75	198667	22.67 ug/L #	49
84) 1,2,3-trichlorobenzene	18.52	180	10321	2.48 ug/L	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092603.D Vial: 3
Acq On : 26 Sep 2008 7:05 am Operator: NLT
Sample : ,MBLK,MB-W-092608,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 7:55 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100317.D Vial: 17
Acq On : 3 Oct 2008 4:32 pm Operator: BR
Sample : ,mblk,bk-w-10/03/08 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 21:09:25 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

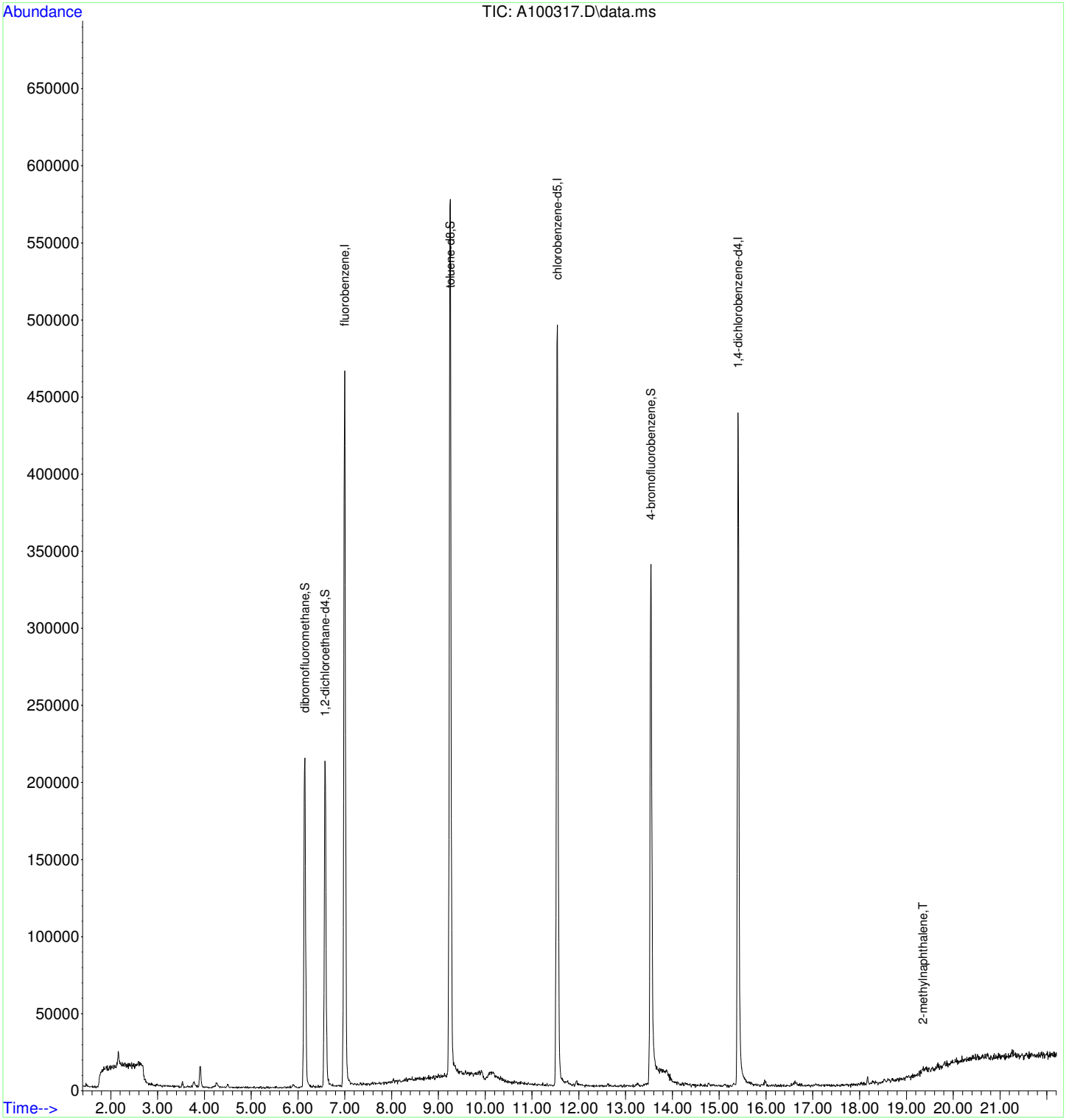
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.997	96	540835	50.00	ug/L	0.00
41) chlorobenzene-d5	11.540	117	417619	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.401	152	176921	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.146	113	168157	50.50	ug/L	0.00
30) 1,2-dichloroethane-d4	6.577	65	199949	48.70	ug/L	0.00
44) toluene-d8	9.253	98	538388	51.12	ug/L	0.00
63) 4-bromofluorobenzene	13.540	95	175048	45.10	ug/L	0.00
Target Compounds						Qvalue
85) 2-methylnaphthalene	19.354	142	1434	2.98	ug/L	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100317.D Vial: 17
Acq On : 3 Oct 2008 4:32 pm Operator: BR
Sample : ,mblk,bk-w-10/03/08 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 21:09:25 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100405.D Vial: 5
Acq On : 4 Oct 2008 9:51 am Operator: BR
Sample : ,MBLK,MB 10/4,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 10:15 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

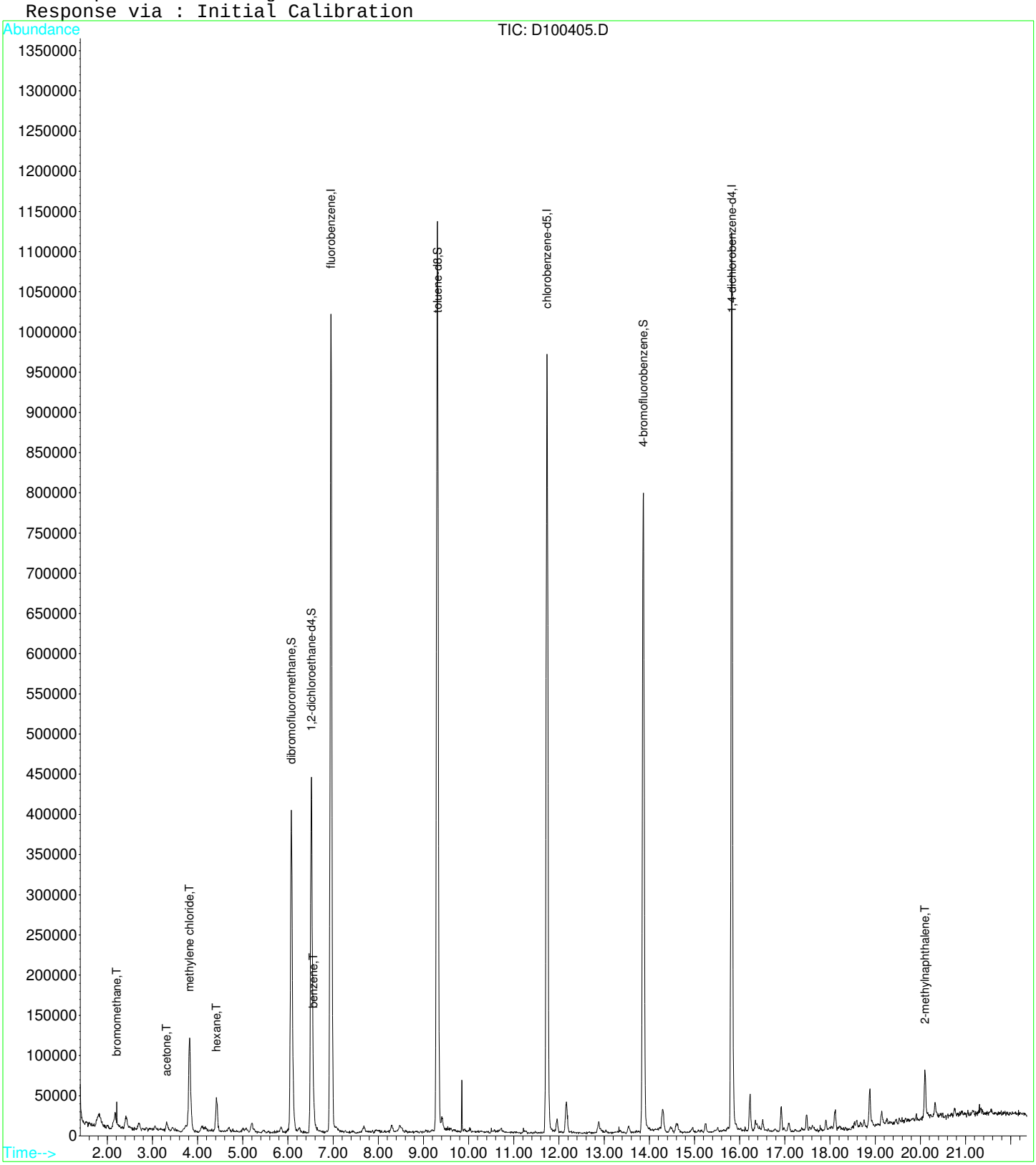
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1190633	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.73	117	828395	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.82	152	399356	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	356986	53.20 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	440603	48.00 ug/L	-0.02
44) toluene-d8	9.31	98	1074162	49.99 ug/L	-0.02
63) 4-bromofluorobenzene	13.87	95	462806	48.24 ug/L	-0.03
Target Compounds					Qvalue
6) bromomethane	2.22	94	196	8.28 ug/L #	4
11) acetone	3.31	43	27312	6.73 ug/L	91
13) methylene chloride	3.83	84	72183	8.68 ug/L #	84
18) hexane	4.41	57	24602	2.06 ug/L #	72
31) benzene	6.56	78	37105	1.55 ug/L	88
85) 2-methylnaphthalene	20.10	142	39490	3.47 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100408\D100405.D Vial: 5
Acq On : 4 Oct 2008 9:51 am Operator: BR
Sample : ,MBLK,MB 10/4,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 10:15 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100603.D Vial: 3
Acq On : 6 Oct 2008 7:41 am Operator: BR
Sample : ,mblk,bk-w-10/06/08 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 08:12:04 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.995	96	469329	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	364707	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	146223	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.144	113	145307	50.28	ug/L	0.00
30) 1,2-dichloroethane-d4	6.575	65	178829	50.19	ug/L	0.00
44) toluene-d8	9.251	98	457956	49.79	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	147018	43.37	ug/L	0.00

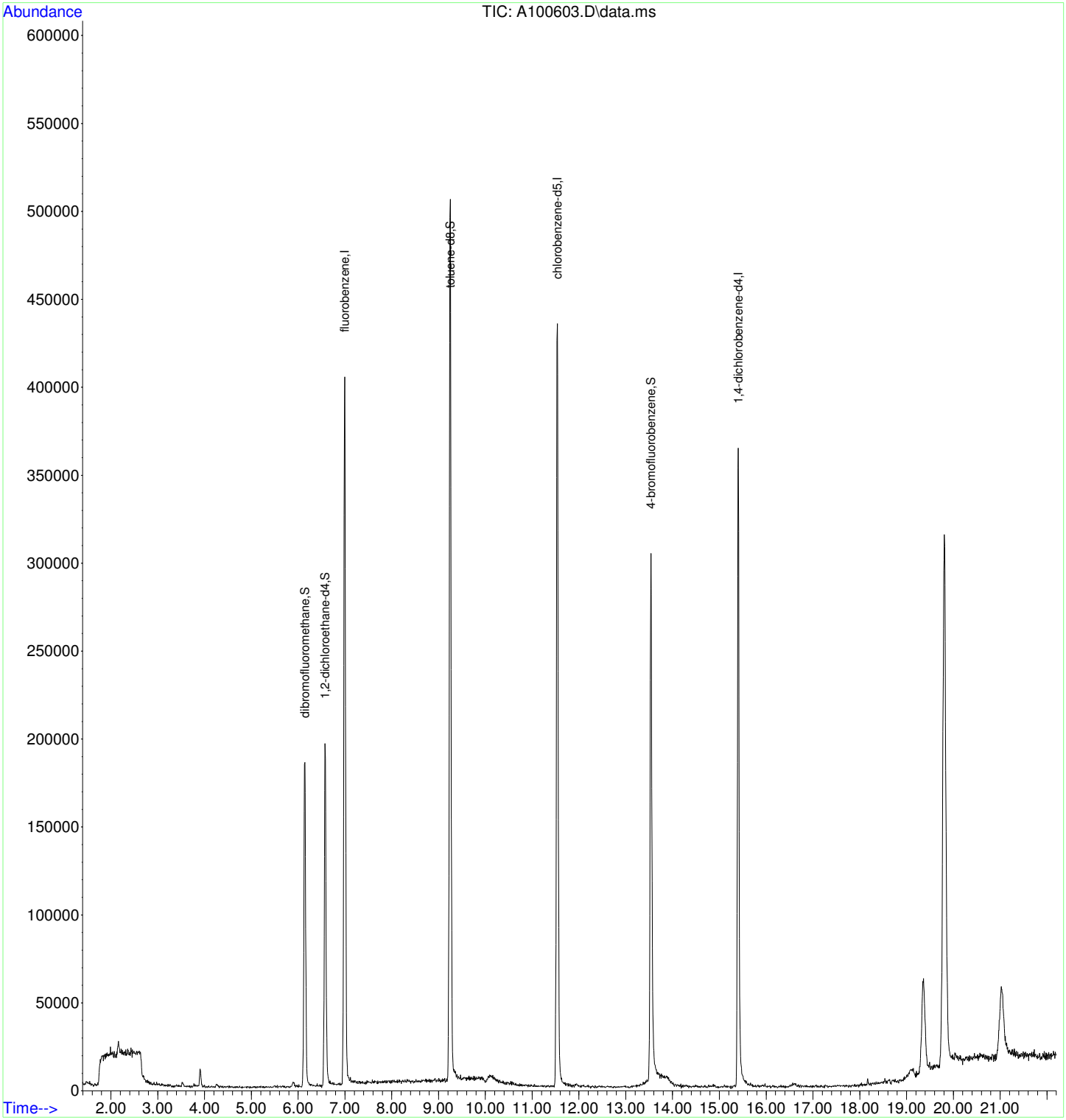
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100603.D Vial: 3
Acq On : 6 Oct 2008 7:41 am Operator: BR
Sample : ,mblk,bk-w-10/06/08 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 08:12:04 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100704.D Vial: 4
Acq On : 7 Oct 2008 9:16 am Operator: nlt
Sample : ,mblk,bk-w-10/07/08 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 09:51:25 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.997	96	390745	50.00	ug/L	0.00
41) chlorobenzene-d5	11.540	117	315135	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.408	152	126971	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.146	113	124910	51.92	ug/L	0.00
30) 1,2-dichloroethane-d4	6.578	65	158536	53.44	ug/L	0.00
44) toluene-d8	9.254	98	390427	49.13	ug/L	0.00
63) 4-bromofluorobenzene	13.541	95	126261	43.11	ug/L	0.00

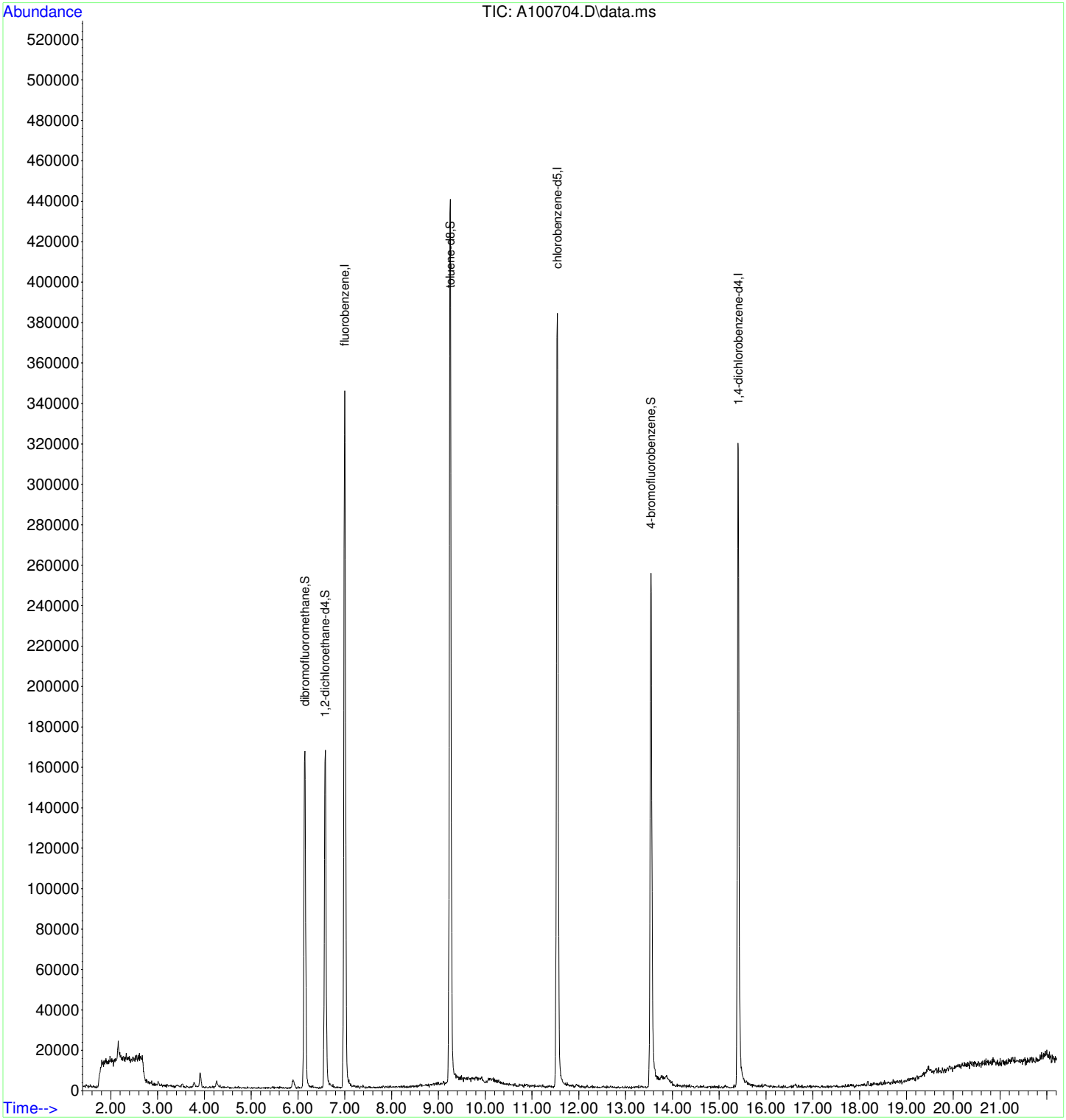
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100704.D Vial: 4
Acq On : 7 Oct 2008 9:16 am Operator: nlt
Sample : ,mblk,bk-w-10/07/08 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 09:51:25 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LABORATORY CONTROL SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1462968	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.25	117	1050538	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.16	152	446260	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	481082	51.48 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.29	65	462467	51.70 ug/L	-0.03
44) toluene-d8	8.99	98	1293017	51.69 ug/L	-0.02
63) 4-bromofluorobenzene	13.24	95	487031	51.19 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	107637	24.48 ug/L	93
3) chloromethane	1.68	50	172259	23.90 ug/L	98
4) vinyl chloride	1.78	62	132780	19.53 ug/L	97
6) bromomethane	2.14	94	47656	22.53 ug/L	99
7) chloroethane	2.26	64	75743	22.89 ug/L	92
8) trichlorofluoromethane	2.55	101	145255	24.47 ug/L	94
9) acrolein	3.02	56	30116	47.21 ug/L	96
10) 1,1-dichloroethene	3.13	96	70850	21.16 ug/L #	84
11) acetone	3.20	43	93627	29.29 ug/L	98
12) carbon disulfide	3.38	76	217823	21.84 ug/L	98
13) methylene chloride	3.70	84	192164	24.19 ug/L	95
14) acrylonitrile	3.99	53	86741	18.42 ug/L	94
15) trans-1,2-dichloroethene	4.03	96	121404	20.60 ug/L	93
16) methyl-t-butyl ether	4.04	73	391010	19.35 ug/L	96
19) 1,1-dichloroethane	4.53	63	248641	20.12 ug/L	95
20) vinyl acetate	4.61	43	385218	31.92 ug/L	99
21) cis-1,2-dichloroethene	5.26	96	145401	19.13 ug/L #	88
22) 2,2-dichloropropane	5.24	77	161383	20.48 ug/L	99
23) 2-butanone	5.28	72	22633	19.67 ug/L	76
25) chloroform	5.67	83	231099	20.30 ug/L	94
27) 1,1,1-trichloroethane	5.89	97	163881	21.77 ug/L	99
29) carbon tetrachloride	6.12	117	152709	22.58 ug/L	87
31) benzene	6.37	78	495460	19.35 ug/L	96
32) 1,1-dichloropropene	6.11	75	151265	18.76 ug/L #	92
33) 1,2-dichloroethane	6.40	62	216346	20.93 ug/L	95
34) trichloroethene	7.26	95	124703	19.93 ug/L #	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,2-dichloropropane	7.55	63	139396	16.95 ug/L	99
37) methyl methacrylate	7.55	41	85651	9.11 ug/L #	35
38) dibromomethane	7.73	93	111724	20.08 ug/L	99
39) bromodichloromethane	7.97	83	181599	18.68 ug/L	100
40) 2-chloroethyl vinyl ether	8.40	63	63401	36.86 ug/L	99
42) cis-1,3-dichloropropene	8.61	75	214711	18.04 ug/L	98
43) 4-methyl-2-pentanone	8.83	43	191325	17.29 ug/L	94
45) toluene	9.09	92	289804	20.13 ug/L	97
46) 1,1,2-trichloroethane	9.73	83	116384	19.03 ug/L	93
47) 1,3-dichloropropane	9.97	76	237436	19.01 ug/L	95
48) tetrachloroethene	9.94	164	92188	21.22 ug/L	96
49) trans-1,3-dichloropropene	9.45	75	197191	19.66 ug/L	99
50) 2-hexanone	10.12	43	120718	15.86 ug/L	93
51) dibromochloromethane	10.34	129	160286	18.39 ug/L	99
52) 1,2-dibromoethane	10.50	107	173013	19.92 ug/L	96
53) chlorobenzene	11.30	112	350097	20.27 ug/L	95
54) 1,1,1,2-tetrachloroethane	11.44	131	120969	18.25 ug/L	92
55) ethylbenzene	11.49	91	505335	20.25 ug/L	94
56) m,p-xylene	11.69	106	406683	41.17 ug/L	97
58) o-xylene	12.35	106	200815	20.32 ug/L	97
59) styrene	12.38	104	330870	18.31 ug/L	99
60) isopropylbenzene	12.98	105	445565	22.14 ug/L	96
61) bromobenzene	13.48	156	143024	19.45 ug/L	98
62) bromoform	12.68	173	112855	19.13 ug/L	99
64) 1,2,3-trichloropropane	13.57	75	150636	18.83 ug/L	93
65) n-propylbenzene	13.70	91	507203	19.69 ug/L	99
66) 2-chlorotoluene	13.82	91	330024	19.98 ug/L	89
67) 4-chlorotoluene	14.02	91	375443	20.57 ug/L	93
68) 1,3,5-trimethylbenzene	14.01	105	358571	20.53 ug/L	90
70) 1,1,2,2-tetrachloroethane	13.53	83	197368	18.93 ug/L	97
71) tert-butylbenzene	14.54	119	269446	18.92 ug/L	95
72) sec-butylbenzene	14.90	105	381443	18.94 ug/L	99
73) 1,2,4-trimethylbenzene	14.63	105	374786	20.26 ug/L	98
74) 1,3-dichlorobenzene	15.05	146	210535	19.04 ug/L	96
75) p-isopropyltoluene	15.13	119	335770	20.57 ug/L	99
77) 1,4-dichlorobenzene	15.20	146	218681	19.14 ug/L	96
78) 1,2-dichlorobenzene	15.75	146	221022	20.58 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

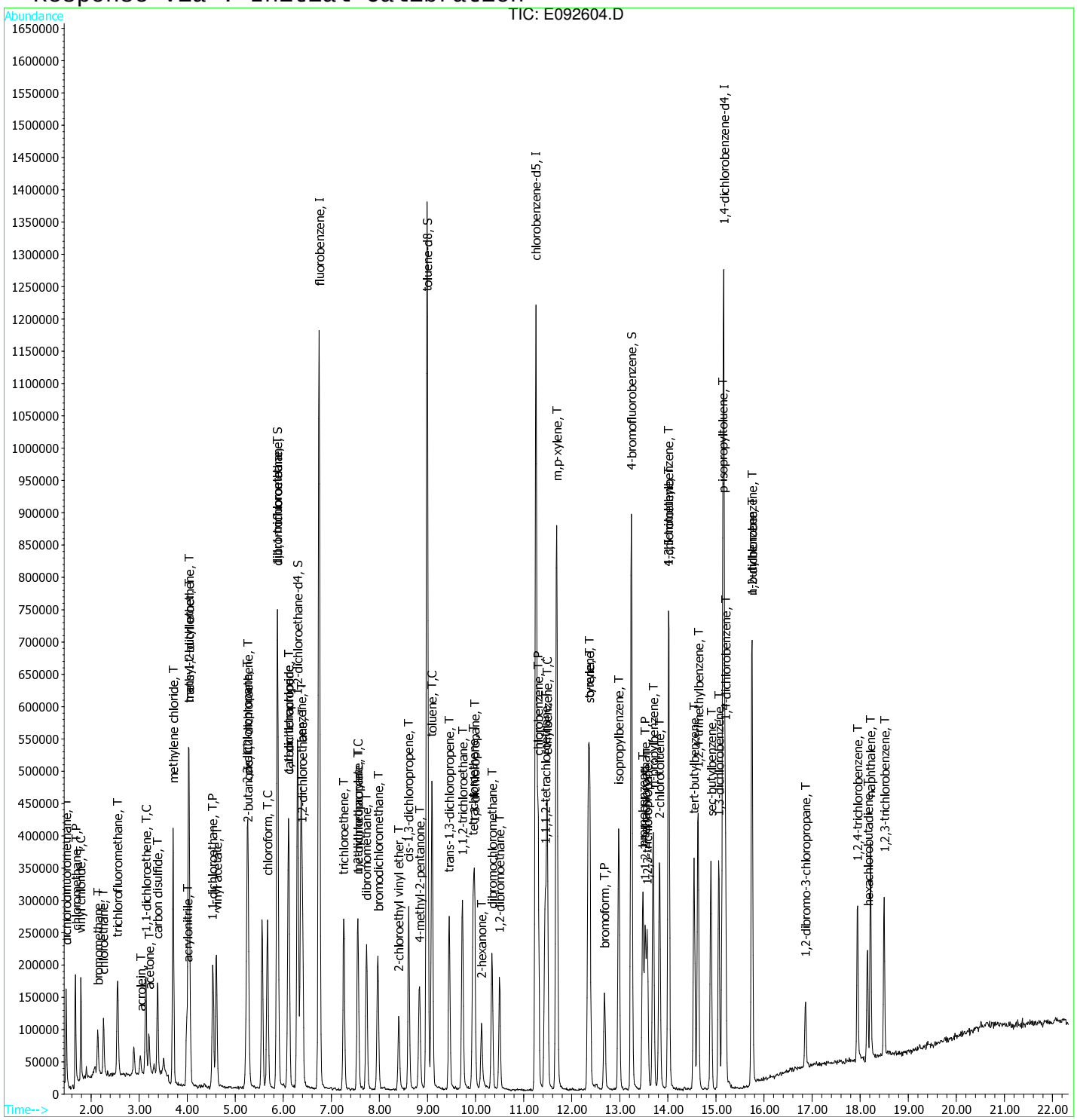
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	n-butylbenzene	15.75	91	277410	20.44 ug/L	92
80)	1,2-dibromo-3-chloropropan	16.85	75	31350	22.19 ug/L #	79
81)	1,2,4-trichlorobenzene	17.95	180	100150	21.51 ug/L	96
82)	hexachlorobutadiene	18.15	225	41374	21.02 ug/L	99
83)	naphthalene	18.21	128	295279	20.38 ug/L	100
84)	1,2,3-trichlorobenzene	18.50	180	95000	22.79 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092604.D Vial: 4
Acq On : 26 Sep 2008 7:35 am Operator: NLT
Sample : ,LCS,LCS-W-20 PPB,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 8:06 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100314.D Vial: 14
Acq On : 3 Oct 2008 2:48 pm Operator: BR
Sample : ,LCS,LCS/ICv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 15:11:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) fluorobenzene	6.997	96	590546	50.00 ug/L	0.00
41) chlorobenzene-d5	11.539	117	485813	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.401	152	260493	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.145	113	176182	48.45 ug/L	0.00
30) 1,2-dichloroethane-d4	6.577	65	215320	48.03 ug/L	0.00
44) toluene-d8	9.247	98	610940	49.87 ug/L	0.00
63) 4-bromofluorobenzene	13.540	95	227583	50.40 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.505	85	139834	77.00 ug/L	95
3) chloromethane	1.718	50	191867	71.36 ug/L	98
4) vinyl chloride	1.840	62	160091	55.70 ug/L	96
6) bromomethane	2.223	94	26183	22.77 ug/L	99
7) chloroethane	2.350	64	90639	54.16 ug/L	95
8) trichlorofluoromethane	2.642	101	294112	55.95 ug/L	93
9) acrolein	3.208	56	37796	200.24 ug/L	89
10) 1,1-dichloroethene	3.275	96	127091	46.47 ug/L #	81
11) acetone	3.402	43	62144	44.89 ug/L	93
12) carbon disulfide	3.524	76	377597	44.64 ug/L	99
13) methylene chloride	3.907	84	190216	48.47 ug/L	91
14) acrylonitrile	4.242	53	87342	56.75 ug/L	93
15) trans-1,2-dichloroethene	4.217	96	163139	52.96 ug/L	89
16) methyl-t-butyl ether	4.199	73	474730	47.86 ug/L	90
17) acetonitrile	3.767	41	38375	62.37 ug/L	94
18) hexane	4.503	57	9816	2.76 ug/L #	99
19) 1,1-dichloroethane	4.753	63	326337	52.19 ug/L	99
20) vinyl acetate	4.826	43	390257	93.39 ug/L	96
21) cis-1,2-dichloroethene	5.501	96	185303	52.33 ug/L #	83
22) 2,2-dichloropropane	5.464	77	273395	55.02 ug/L #	86
23) 2-butanone	5.537	72	20096	53.18 ug/L #	84
25) chloroform	5.926	83	331540	53.03 ug/L	96
27) 1,1,1-trichloroethane	6.109	97	276040	53.19 ug/L	100
29) carbon tetrachloride	6.315	117	242930	52.70 ug/L	91
31) benzene	6.607	78	648526	51.81 ug/L	98
32) 1,1-dichloropropene	6.328	75	223951	52.73 ug/L #	92
33) 1,2-dichloroethane	6.680	62	290188	48.63 ug/L	96
34) trichloroethene	7.495	95	165290	51.60 ug/L #	81
36) 1,2-dichloropropane	7.830	63	185830	49.92 ug/L	88
37) methyl methacrylate	7.830	41	128300	35.77 ug/L #	59
38) dibromomethane	8.024	93	124387	51.19 ug/L #	85
39) bromodichloromethane	8.255	83	250494	49.20 ug/L	92
40) 2-chloroethyl vinyl ether	8.687	63	82958	50.38 ug/L	96
42) cis-1,3-dichloropropene	8.894	75	277156	51.16 ug/L	91
43) 4-methyl-2-pentanone	9.119	43	177978	47.80 ug/L #	91
45) toluene	9.350	92	397382	53.29 ug/L	98
46) 1,1,2-trichloroethane	10.043	83	137333	48.11 ug/L	97
47) 1,3-dichloropropane	10.293	76	288143	49.26 ug/L	100
48) tetrachloroethene	10.177	164	149700	55.48 ug/L	93
49) trans-1,3-dichloropropene	9.757	75	262236	55.70 ug/L	94
50) 2-hexanone	10.426	43	109207	48.06 ug/L	97
51) dibromochloromethane	10.658	129	195014	51.08 ug/L	94
52) 1,2-dibromoethane	10.816	107	178305	51.87 ug/L #	100

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100314.D Vial: 14
Acq On : 3 Oct 2008 2:48 pm Operator: BR
Sample : ,LCS,LCS/ICv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 15:11:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

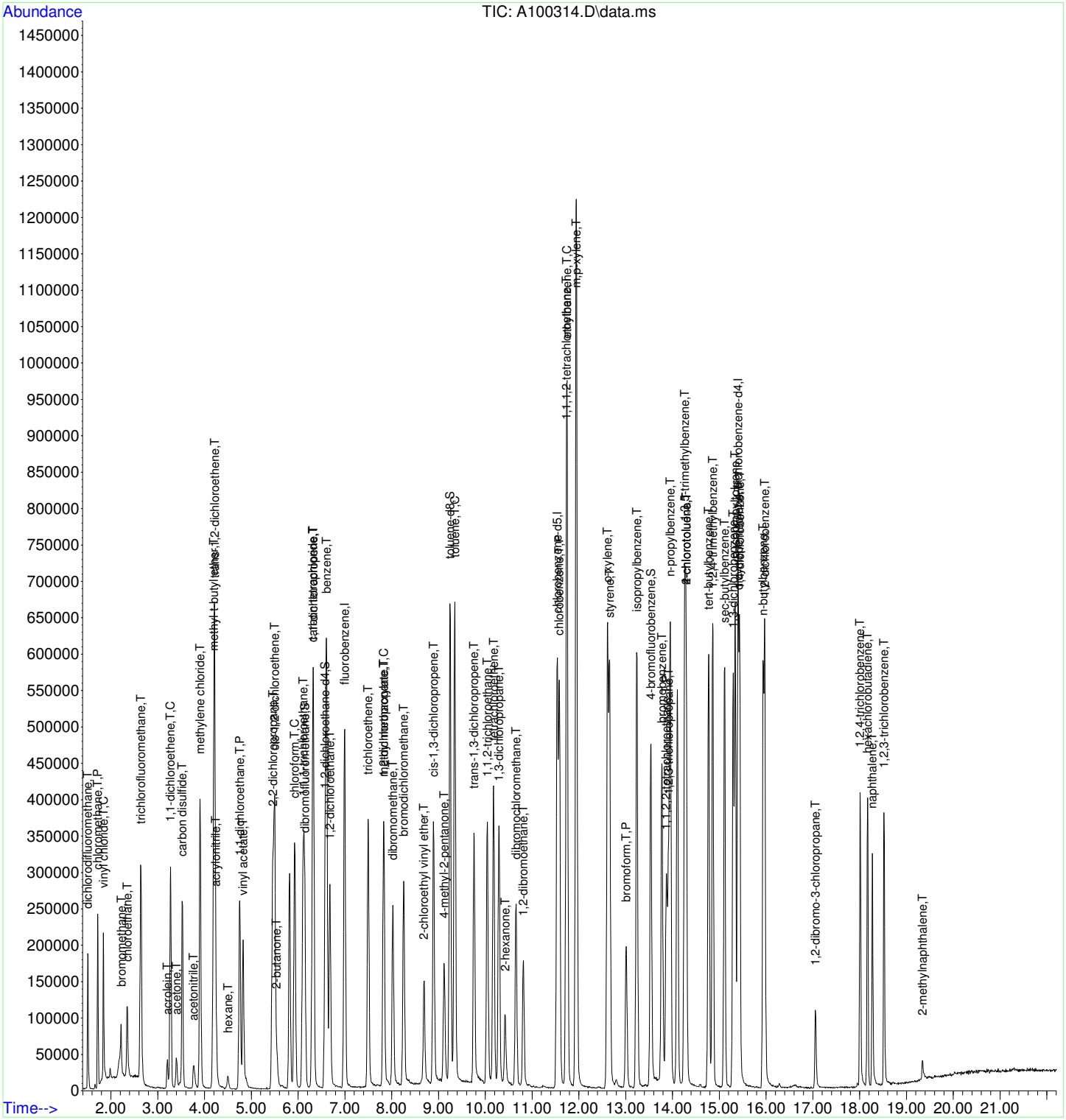
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
53) chlorobenzene	11.582	112	444775	53.38 ug/L #	83
54) 1,1,1,2-tetrachloroethane	11.734	131	175551	50.84 ug/L	95
55) ethylbenzene	11.746	91	709410	55.64 ug/L	88
56) m,p-xylene	11.947	106	547671	113.08 ug/L #	76
58) o-xylene	12.610	106	264651	55.53 ug/L #	79
59) styrene	12.658	104	436428	54.82 ug/L	84
60) isopropylbenzene	13.242	105	627647	66.04 ug/L	92
61) bromobenzene	13.777	156	209367	55.01 ug/L #	70
62) bromoform	13.011	173	148792	51.88 ug/L	96
64) 1,2,3-trichloropropane	13.917	75	185443	50.28 ug/L	91
65) n-propylbenzene	13.954	91	742173	58.82 ug/L	92
66) 2-chlorotoluene	14.294	91	535592	63.80 ug/L	92
67) 4-chlorotoluene	14.294	91	535592	57.63 ug/L #	85
68) 1,3,5-trimethylbenzene	14.264	105	514112	60.35 ug/L	87
70) 1,1,2,2-tetrachloroethane	13.868	83	210138	50.03 ug/L	97
71) tert-butylbenzene	14.775	119	420238	61.69 ug/L #	80
72) sec-butylbenzene	15.115	105	557940	57.49 ug/L #	91
73) 1,2,4-trimethylbenzene	14.866	105	504206	56.56 ug/L #	86
74) 1,3-dichlorobenzene	15.298	146	328455	56.39 ug/L	90
75) p-isopropyltoluene	15.340	119	501768	64.86 ug/L	87
76) dicyclopentadiene	15.413	66	29292	2.44 ug/L	95
77) 1,4-dichlorobenzene	15.437	146	335836	53.91 ug/L	92
78) 1,2-dichlorobenzene	15.973	146	328584	56.68 ug/L	94
79) n-butylbenzene	15.936	91	406900	62.17 ug/L	94
80) 1,2-dibromo-3-chloropr...	17.055	75	32586	51.09 ug/L #	44
81) 1,2,4-trichlorobenzene	18.010	180	158098	70.19 ug/L	90
82) hexachlorobutadiene	18.168	225	92904	65.70 ug/L	90
83) naphthalene	18.271	128	269561	64.98 ug/L	100
84) 1,2,3-trichlorobenzene	18.521	180	143234	71.85 ug/L	94
85) 2-methylnaphthalene	19.342	142	18948	26.72 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100314.D Vial: 14
Acq On : 3 Oct 2008 2:48 pm Operator: BR
Sample : ,LCS,LCS/ICv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 15:11:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100406.D Vial: 6
Acq On : 4 Oct 2008 10:26 am Operator: BR
Sample : ,LCS,LCS 20 PPB,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 10:50 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	1090592	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	733154	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.83	152	360542	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	326119	53.06 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	403607	48.01 ug/L	-0.03
44) toluene-d8	9.31	98	980857	51.58 ug/L	-0.03
63) 4-bromofluorobenzene	13.87	95	415552	48.94 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	113947	13.42 ug/L	98
3) chloromethane	1.85	50	152227	30.85 ug/L	91
4) vinyl chloride	1.86	62	151010	18.73 ug/L	89
6) bromomethane	2.22	94	36901	18.98 ug/L #	72
7) chloroethane	2.33	64	92573	21.65 ug/L	78
8) trichlorofluoromethane	2.62	101	182224	17.91 ug/L	94
9) acrolein	3.13	56	31279	61.45 ug/L	96
10) 1,1-dichloroethene	3.21	96	104254	20.96 ug/L #	88
11) acetone	3.31	43	80173	21.58 ug/L	95
12) carbon disulfide	3.45	76	348918	18.13 ug/L	98
13) methylene chloride	3.82	84	244142	32.04 ug/L	92
14) acrylonitrile	4.14	53	59008	23.69 ug/L	97
15) trans-1,2-dichloroethene	4.12	96	128305	23.25 ug/L	97
16) methyl-t-butyl ether	4.10	73	362529	20.96 ug/L	95
17) acetonitrile	3.67	41	25825	23.38 ug/L #	84
18) hexane	4.41	57	24495	2.24 ug/L #	99
19) 1,1-dichloroethane	4.67	63	254264	22.70 ug/L	92
20) vinyl acetate	4.73	43	281308	34.27 ug/L	98
21) cis-1,2-dichloroethene	5.41	96	137670	22.66 ug/L	99
22) 2,2-dichloropropane	5.38	77	165723	19.11 ug/L	98
23) 2-butanone	5.46	72	14763	20.33 ug/L #	61
25) chloroform	5.86	83	243286	23.21 ug/L	95
27) 1,1,1-trichloroethane	6.04	97	181742	20.57 ug/L	98
29) carbon tetrachloride	6.25	117	132013	20.05 ug/L	95
31) benzene	6.56	78	493286	22.54 ug/L	97
32) 1,1-dichloropropene	6.27	75	188965	22.16 ug/L	98
33) 1,2-dichloroethane	6.63	62	211817	20.55 ug/L	98
34) trichloroethene	7.47	95	130245	22.76 ug/L	95
36) 1,2-dichloropropane	7.83	63	135720	22.31 ug/L	93
37) methyl methacrylate	7.83	41	110049	13.40 ug/L #	46
38) dibromomethane	8.02	93	85427	22.81 ug/L	93
39) bromodichloromethane	8.28	83	172591	20.74 ug/L	99
40) 2-chloroethyl vinyl ether	8.72	63	50997	14.45 ug/L	97
42) cis-1,3-dichloropropene	8.94	75	191989	21.04 ug/L	100
43) 4-methyl-2-pentanone	9.17	43	159687	20.00 ug/L	99
45) toluene	9.41	92	302096	22.73 ug/L	98
46) 1,1,2-trichloroethane	10.16	83	92264	22.61 ug/L	98
47) 1,3-dichloropropane	10.42	76	208879	22.14 ug/L	98
48) tetrachloroethene	10.29	164	97739	24.21 ug/L	94
49) trans-1,3-dichloropropene	9.86	75	154210	21.08 ug/L	96
50) 2-hexanone	10.54	43	109690	19.41 ug/L	97
51) dibromochloromethane	10.81	129	116983	21.42 ug/L	97
52) 1,2-dibromoethane	10.97	107	122832	23.17 ug/L	100
53) chlorobenzene	11.79	112	312079	22.67 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100406.D Vial: 6
Acq On : 4 Oct 2008 10:26 am Operator: BR
Sample : ,LCS,LCS 20 PPB,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 10:50 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	1,1,1,2-tetrachloroethane	11.95	131	108388	22.03	ug/L		96
55)	ethylbenzene	11.96	91	578757	22.74	ug/L		98
56)	m,p-xylene	12.16	106	438026	47.43	ug/L		94
58)	o-xylene	12.87	106	206541	23.16	ug/L		95
59)	styrene	12.92	104	355274	22.55	ug/L		97
60)	isopropylbenzene	13.55	105	546075	25.41	ug/L		100
61)	bromobenzene	14.13	156	130318	24.11	ug/L		96
62)	bromoform	13.32	173	85503	24.25	ug/L		87
64)	1,2,3-trichloropropane	14.28	75	130683	21.95	ug/L		94
65)	n-propylbenzene	14.30	91	686121	22.99	ug/L		99
66)	2-chlorotoluene	14.46	91	407999	22.16	ug/L		99
67)	4-chlorotoluene	14.66	91	472406	22.37	ug/L		100
68)	1,3,5-trimethylbenzene	14.61	105	455827	22.81	ug/L		98
70)	1,1,2,2-tetrachloroethane	14.23	83	152108	21.62	ug/L		98
71)	tert-butylbenzene	15.15	119	385771	22.45	ug/L		99
72)	sec-butylbenzene	15.51	105	575148	20.85	ug/L		98
73)	1,2,4-trimethylbenzene	15.24	105	463774	21.51	ug/L		96
74)	1,3-dichlorobenzene	15.72	146	241794	23.33	ug/L		99
75)	p-isopropyltoluene	15.75	119	499658	23.23	ug/L		98
77)	1,4-dichlorobenzene	15.86	146	239559	22.43	ug/L		96
78)	1,2-dichlorobenzene	16.44	146	229252	23.09	ug/L		99
79)	n-butylbenzene	16.39	91	501318	22.06	ug/L		98
80)	1,2-dibromo-3-chloropropan	17.61	75	32540	20.67	ug/L	#	78
81)	1,2,4-trichlorobenzene	18.60	180	191909	23.59	ug/L		97
82)	hexachlorobutadiene	18.76	225	103004	21.77	ug/L		97
83)	naphthalene	18.88	128	416812	22.57	ug/L		100
84)	1,2,3-trichlorobenzene	19.15	180	181676	23.81	ug/L		85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

```
Data File : C:\HPCHEM\1\DATA\D100408\D100406.D          Vial: 6
Acq On    :  4 Oct 2008  10:26 am                    Operator: BR
Sample    : ,LCS,LCS 20 PPB,1,                       Inst    : VOA 4
Misc      : 8260+_W                                  Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct  4 10:50 2008              Quant Results File: VOA0818.RES

Method       : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title        : VOA ICAL 08/18/08
Last Update  : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
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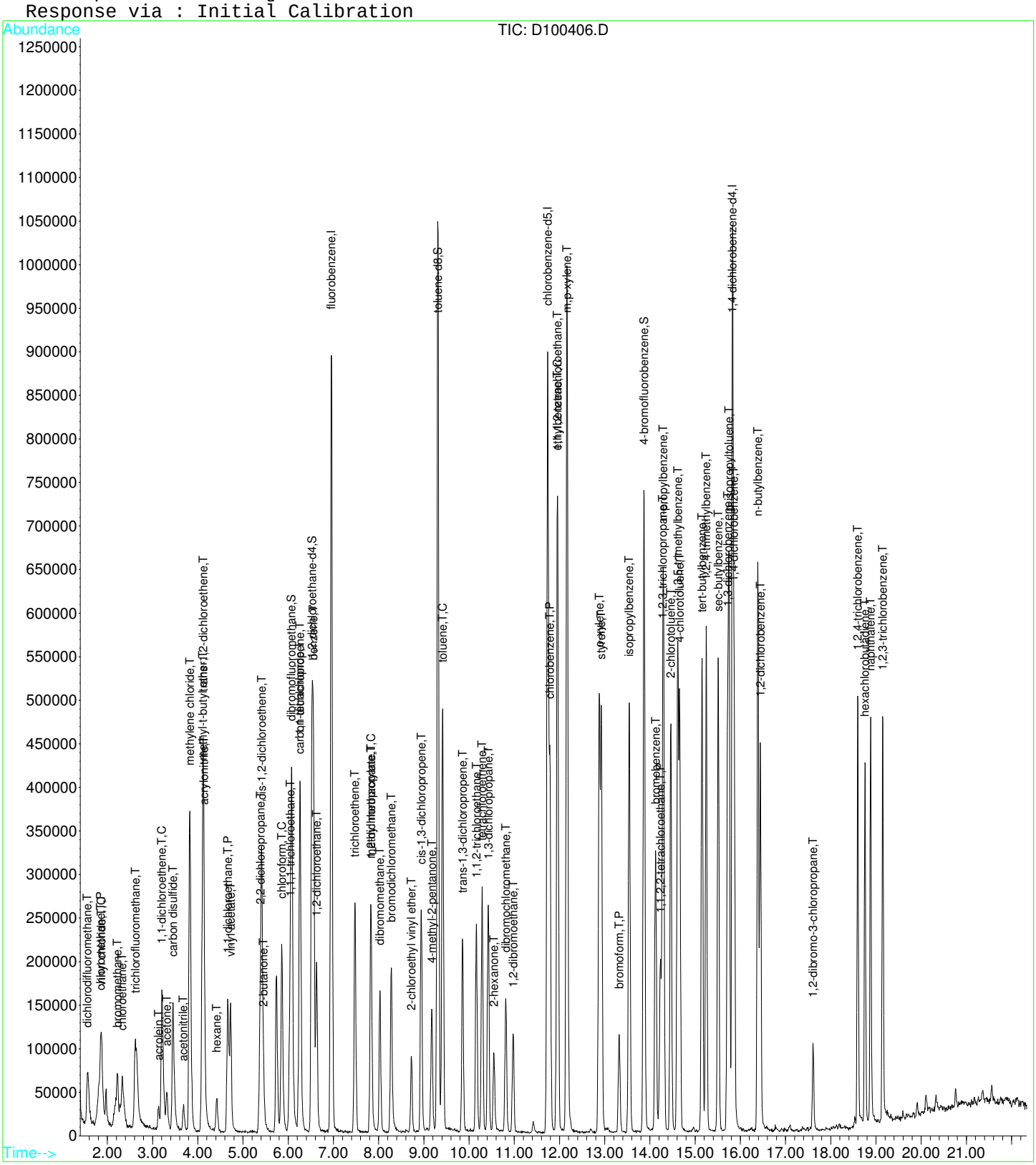


Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100604.D Vial: 4
Acq On : 6 Oct 2008 8:13 am Operator: BR
Sample : ,lcs,lcs-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 09:03:20 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.994	96	449331	50.00	ug/L	0.00
41) chlorobenzene-d5	11.537	117	357735	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	186301	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	141364	51.10	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	172913	50.69	ug/L	0.00
44) toluene-d8	9.250	98	457841	50.75	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	164231	49.40	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.509	85	39230	28.39	ug/L	92
3) chloromethane	1.716	50	55481	27.12	ug/L	98
4) vinyl chloride	1.837	62	46566	21.29	ug/L	95
6) bromomethane	2.226	94	10838	12.39	ug/L	96
7) chloroethane	2.360	64	28013	22.00	ug/L	94
8) trichlorofluoromethane	2.646	101	88677	22.17	ug/L	99
9) acrolein	3.206	56	8930	62.18	ug/L	98
10) 1,1-dichloroethene	3.278	96	33661	16.18	ug/L #	82
11) acetone	3.400	43	20661	19.61	ug/L	95
12) carbon disulfide	3.528	76	101676	15.80	ug/L	98
13) methylene chloride	3.911	84	62068	20.79	ug/L	91
14) acrylonitrile	4.252	53	24068	20.55	ug/L	94
15) trans-1,2-dichloroethene	4.221	96	43562	18.59	ug/L	95
16) methyl-t-butyl ether	4.203	73	136848	18.13	ug/L	86
17) acetonitrile	3.771	41	10959	23.41	ug/L	95
19) 1,1-dichloroethane	4.756	63	93532	19.66	ug/L	98
20) vinyl acetate	4.829	43	94129	29.61	ug/L	95
21) cis-1,2-dichloroethene	5.504	96	48933	18.16	ug/L #	71
22) 2,2-dichloropropane	5.462	77	72329	19.13	ug/L #	87
23) 2-butanone	5.559	72	4585	15.95	ug/L #	93
25) chloroform	5.930	83	96364	20.26	ug/L	97
27) 1,1,1-trichloroethane	6.106	97	75893	19.22	ug/L	96
29) carbon tetrachloride	6.319	117	63811	18.19	ug/L	97
31) benzene	6.611	78	180950	19.00	ug/L	98
32) 1,1-dichloropropene	6.331	75	54148	16.76	ug/L #	91
33) 1,2-dichloroethane	6.684	62	87787	19.34	ug/L	95
34) trichloroethene	7.505	95	42742	17.54	ug/L #	76
36) 1,2-dichloropropane	7.827	63	50516	17.83	ug/L	99
37) methyl methacrylate	7.833	41	39995	14.66	ug/L #	60
38) dibromomethane	8.028	93	35889	19.41	ug/L	90
39) bromodichloromethane	8.259	83	71614	18.49	ug/L	91
40) 2-chloroethyl vinyl ether	8.703	63	16001	12.77	ug/L	99
42) cis-1,3-dichloropropene	8.892	75	71012	17.80	ug/L	95
43) 4-methyl-2-pentanone	9.123	43	48727	17.77	ug/L #	92
45) toluene	9.348	92	103933	18.93	ug/L	95
46) 1,1,2-trichloroethane	10.041	83	40620	19.32	ug/L	96
47) 1,3-dichloropropane	10.296	76	80813	18.76	ug/L	99
48) tetrachloroethene	10.175	164	37143	18.69	ug/L	92
49) trans-1,3-dichloropropene	9.767	75	67474	19.46	ug/L	96
50) 2-hexanone	10.424	43	27448	16.40	ug/L	91
51) dibromochloromethane	10.661	129	52745	18.76	ug/L	96
52) 1,2-dibromoethane	10.813	107	48693	19.24	ug/L	99
53) chlorobenzene	11.586	112	114949	18.74	ug/L #	82

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100604.D Vial: 4
Acq On : 6 Oct 2008 8:13 am Operator: BR
Sample : ,lcs,lcs-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 09:03:20 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

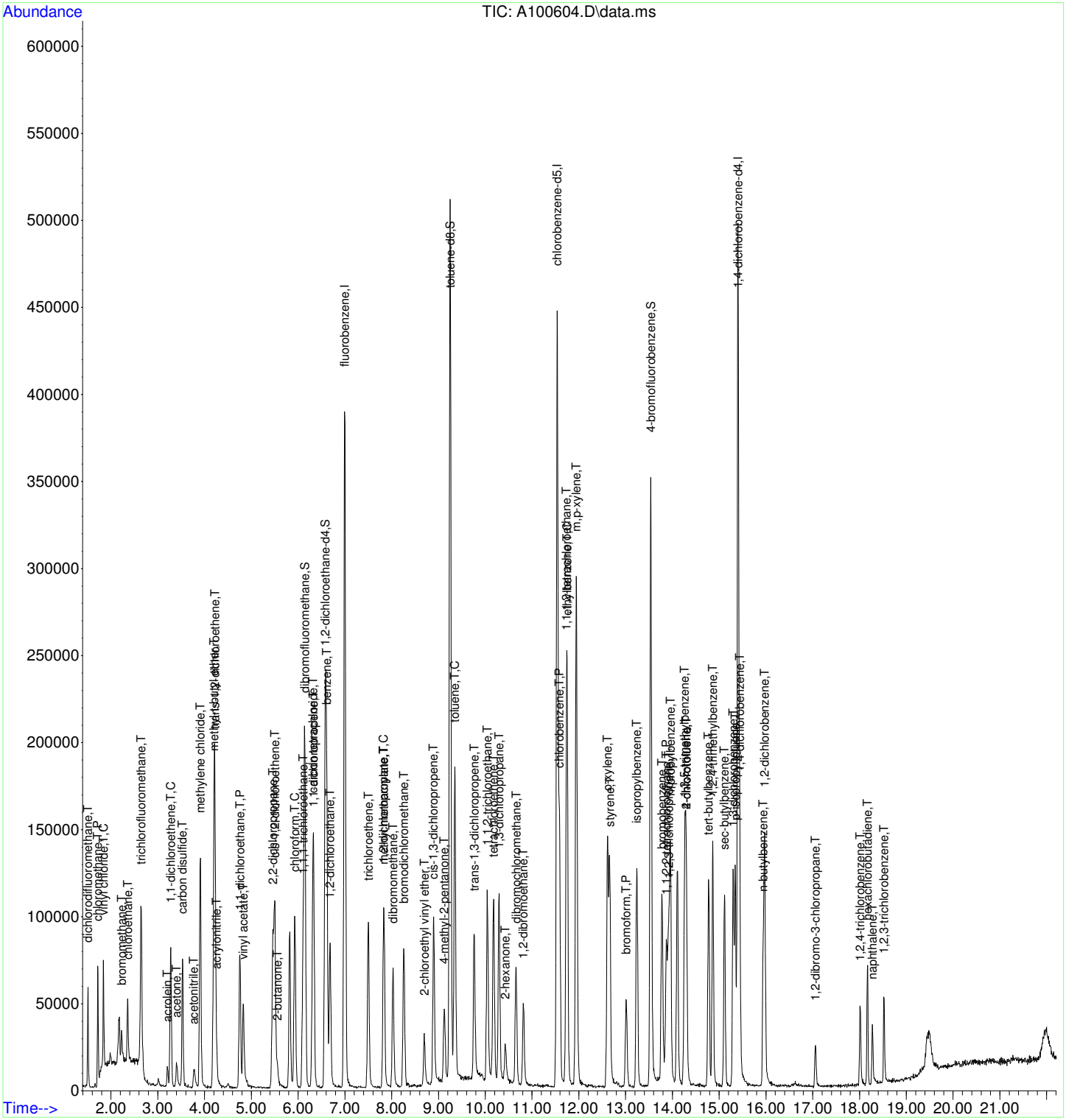
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54)	1,1,1,2-tetrachloroethane	11.738	131	47418	18.65	ug/L		95
55)	ethylbenzene	11.750	91	168391	17.93	ug/L		95
56)	m,p-xylene	11.944	106	127303	35.69	ug/L	#	81
58)	o-xylene	12.613	106	58171	16.57	ug/L	#	82
59)	styrene	12.662	104	98722	16.84	ug/L		86
60)	isopropylbenzene	13.240	105	125442	17.92	ug/L	#	89
61)	bromobenzene	13.775	156	50921	18.17	ug/L	#	71
62)	bromoform	13.009	173	38414	18.19	ug/L		97
64)	1,2,3-trichloropropane	13.921	75	51222	18.86	ug/L		92
65)	n-propylbenzene	13.957	91	154874	16.67	ug/L		92
66)	2-chlorotoluene	14.298	91	122187	19.77	ug/L		90
67)	4-chlorotoluene	14.298	91	122187	17.85	ug/L	#	84
68)	1,3,5-trimethylbenzene	14.261	105	106000	16.90	ug/L	#	85
70)	1,1,2,2-tetrachloroethane	13.872	83	56674	18.87	ug/L		99
71)	tert-butylbenzene	14.772	119	77925	16.00	ug/L		84
72)	sec-butylbenzene	15.113	105	105166	15.15	ug/L		95
73)	1,2,4-trimethylbenzene	14.863	105	107010	16.78	ug/L		88
74)	1,3-dichlorobenzene	15.301	146	74768	17.95	ug/L		93
75)	p-isopropyltoluene	15.344	119	90389	16.34	ug/L		89
77)	1,4-dichlorobenzene	15.441	146	77465	17.39	ug/L		92
78)	1,2-dichlorobenzene	15.970	146	74541	17.98	ug/L		93
79)	n-butylbenzene	15.940	91	62416	13.33	ug/L		93
80)	1,2-dibromo-3-chloropr...	17.059	75	7541	16.53	ug/L	#	49
81)	1,2,4-trichlorobenzene	18.014	180	20264	12.58	ug/L		91
82)	hexachlorobutadiene	18.172	225	15081	14.91	ug/L		91
83)	naphthalene	18.275	128	33023	11.13	ug/L		100
84)	1,2,3-trichlorobenzene	18.524	180	19617	13.76	ug/L	#	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100604.D Vial: 4
Acq On : 6 Oct 2008 8:13 am Operator: BR
Sample : ,lcs,lcs-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 09:03:20 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100708\A100705.D Vial: 5
Acq On : 7 Oct 2008 9:48 am Operator: nlt
Sample : ,lcs,lcs-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 16:33:25 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.002	96	377869	50.00	ug/L	0.00
41) chlorobenzene-d5	11.539	117	318218	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.400	152	165465	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.151	113	124786	53.63	ug/L	0.00
30) 1,2-dichloroethane-d4	6.582	65	154454	53.84	ug/L	0.00
44) toluene-d8	9.252	98	401432	50.02	ug/L	0.00
63) 4-bromofluorobenzene	13.539	95	147776	49.97	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.510	85	19825	17.06	ug/L	95
3) chloromethane	1.723	50	35573	20.68	ug/L	98
4) vinyl chloride	1.845	62	28055	15.26	ug/L	95
6) bromomethane	2.228	94	6267	8.52	ug/L	84
7) chloroethane	2.362	64	19844	18.53	ug/L	94
8) trichlorofluoromethane	2.648	101	54395	16.17	ug/L	93
9) acrolein	3.213	56	9494	78.61	ug/L	95
10) 1,1-dichloroethene	3.280	96	22817	13.04	ug/L #	86
11) acetone	3.408	43	24886	28.09	ug/L	88
12) carbon disulfide	3.536	76	68640	12.68	ug/L	92
13) methylene chloride	3.913	84	62830	25.02	ug/L	91
14) acrylonitrile	4.253	53	18744	19.03	ug/L	97
15) trans-1,2-dichloroethene	4.223	96	36764	18.65	ug/L	92
16) methyl-t-butyl ether	4.211	73	118836	18.72	ug/L	90
17) acetonitrile	3.773	41	9450	24.00	ug/L	92
19) 1,1-dichloroethane	4.758	63	85163	21.29	ug/L	96
20) vinyl acetate	4.837	43	83830	31.35	ug/L	95
21) cis-1,2-dichloroethene	5.506	96	44466	19.62	ug/L #	80
22) 2,2-dichloropropane	5.469	77	57216	17.99	ug/L #	87
23) 2-butanone	5.573	72	3708	15.34	ug/L	70
25) chloroform	5.938	83	91477	22.87	ug/L	99
27) 1,1,1-trichloroethane	6.120	97	58341	17.57	ug/L	94
29) carbon tetrachloride	6.315	117	45584	15.45	ug/L	98
31) benzene	6.613	78	163614	20.43	ug/L	99
32) 1,1-dichloropropene	6.333	75	38530	14.18	ug/L #	93
33) 1,2-dichloroethane	6.692	62	87644	22.95	ug/L	93
34) trichloroethene	7.507	95	36671	17.89	ug/L	88
36) 1,2-dichloropropane	7.835	63	48285	20.27	ug/L	90
38) dibromomethane	8.030	93	34065	21.91	ug/L	89
39) bromodichloromethane	8.267	83	68223	20.94	ug/L	95
40) 2-chloroethyl vinyl ether	8.705	63	14702	13.95	ug/L	98
42) cis-1,3-dichloropropene	8.905	75	68862	19.40	ug/L	91
43) 4-methyl-2-pentanone	9.130	43	40575	16.64	ug/L	97
45) toluene	9.349	92	94115	19.27	ug/L	93
46) 1,1,2-trichloroethane	10.043	83	38177	20.42	ug/L	98
47) 1,3-dichloropropane	10.292	76	77940	20.34	ug/L	97
48) tetrachloroethene	10.182	164	28119	15.91	ug/L	91
49) trans-1,3-dichloropropene	9.763	75	62926	20.41	ug/L	97
50) 2-hexanone	10.426	43	21523	14.46	ug/L	92
51) dibromochloromethane	10.657	129	54230	21.68	ug/L	88
52) 1,2-dibromoethane	10.815	107	47535	21.11	ug/L	99
53) chlorobenzene	11.587	112	109628	20.09	ug/L	87
54) 1,1,1,2-tetrachloroethane	11.739	131	46318	20.48	ug/L	96

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100708\A100705.D Vial: 5
Acq On : 7 Oct 2008 9:48 am Operator: nlt
Sample : ,lcs,lcs-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 16:33:25 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

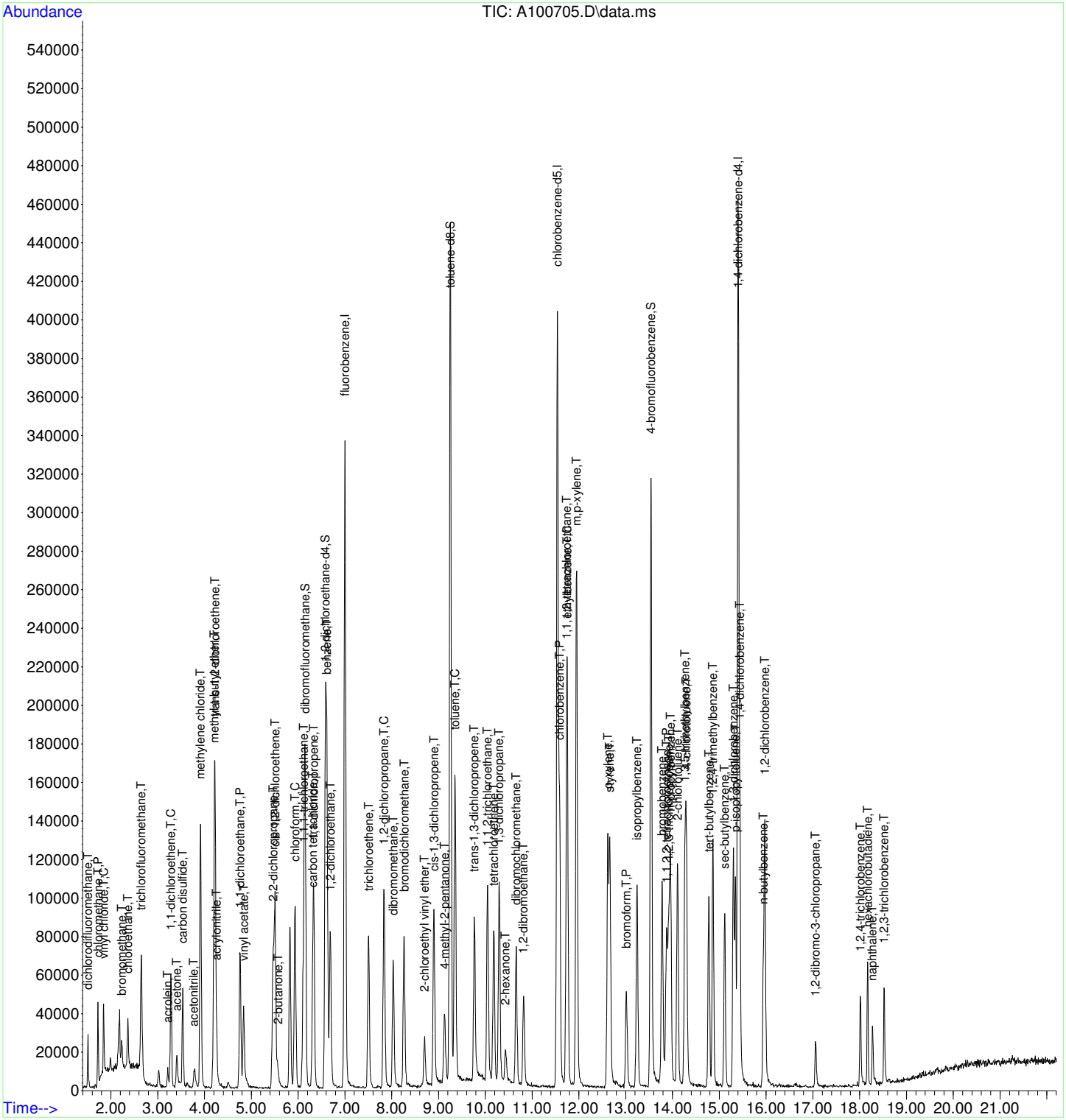
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
55) ethylbenzene	11.751	91	142782	17.10 ug/L	92
56) m,p-xylene	11.952	106	115169	36.30 ug/L #	81
58) o-xylene	12.621	106	54147	17.34 ug/L #	78
59) styrene	12.658	104	95758	18.36 ug/L	90
60) isopropylbenzene	13.241	105	103834	16.68 ug/L	93
61) bromobenzene	13.777	156	48993	19.65 ug/L #	69
62) bromoform	13.016	173	37398	19.91 ug/L	94
64) 1,2,3-trichloropropane	13.922	75	51130	21.16 ug/L	91
65) n-propylbenzene	13.959	91	130065	15.74 ug/L	93
66) 2-chlorotoluene	14.111	91	98564m2	17.92 ug/L	
67) 4-chlorotoluene	14.293	91	115736	19.01 ug/L #	84
68) 1,3,5-trimethylbenzene	14.269	105	91919	16.47 ug/L #	84
70) 1,1,2,2-tetrachloroethane	13.874	83	56871	21.32 ug/L	98
71) tert-butylbenzene	14.780	119	62759	14.51 ug/L #	86
72) sec-butylbenzene	15.114	105	81904	13.29 ug/L	93
73) 1,2,4-trimethylbenzene	14.865	105	97742	17.26 ug/L	88
74) 1,3-dichlorobenzene	15.303	146	70199	18.97 ug/L	90
75) p-isopropyltoluene	15.345	119	76708	15.61 ug/L	91
77) 1,4-dichlorobenzene	15.437	146	72978	18.44 ug/L	94
78) 1,2-dichlorobenzene	15.972	146	71778	19.49 ug/L	96
79) n-butylbenzene	15.941	91	50994	12.27 ug/L	97
80) 1,2-dibromo-3-chloropr...	17.054	75	8501	20.98 ug/L #	62
81) 1,2,4-trichlorobenzene	18.015	180	19380	13.55 ug/L	88
82) hexachlorobutadiene	18.173	225	13376	14.89 ug/L	92
83) naphthalene	18.271	128	30156	11.44 ug/L	100
84) 1,2,3-trichlorobenzene	18.520	180	18106	14.30 ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100708\A100705.D Vial: 5
Acq On : 7 Oct 2008 9:48 am Operator: nlt
Sample : ,lcs,lcs-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 16:33:25 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



MATRIX SPIKE/MATRIX SPIKE DUPLICATE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092606.D Vial: 6
Acq On : 26 Sep 2008 9:00 am Operator: NLT
Sample : ,SAMP,ME0809A94-17A,1,RA, Inst : VOA5
Misc : BTEX+M_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 11:09 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

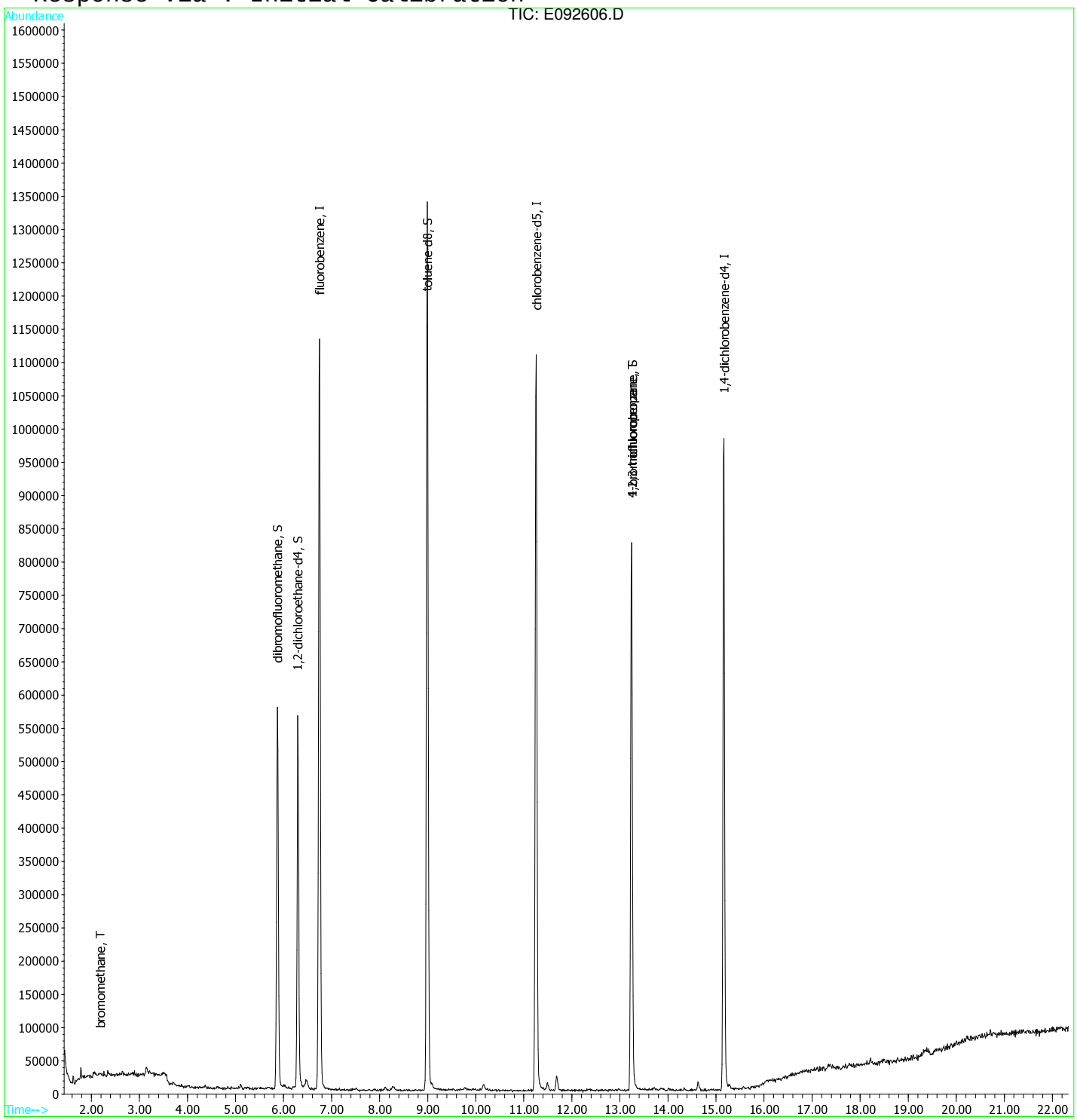
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1420633	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	1001537	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	386223	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	462670	50.99 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.30	65	466084	53.66 ug/L	-0.02
44) toluene-d8	8.99	98	1240665	52.02 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	459997	50.71 ug/L	-0.01
Target Compounds					Qvalue
6) bromomethane	2.17	94	3811	1.86 ug/L #	43
64) 1,2,3-trichloropropane	13.25	75	182459	23.92 ug/L #	48

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092606.D Vial: 6
Acq On : 26 Sep 2008 9:00 am Operator: NLT
Sample : ,SAMP,ME0809A94-17A,1,RA, Inst : VOA5
Misc : BTEX+M_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 11:09 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.74	96	1260382	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.25	117	854126	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.16	152	377350	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	401851	49.92 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.29	65	418798	54.34 ug/L	-0.03
44) toluene-d8	8.99	98	1104707	54.31 ug/L	-0.02
63) 4-bromofluorobenzene	13.24	95	420541	54.36 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	95579	25.23 ug/L	99
3) chloromethane	1.67	50	154960	24.96 ug/L	98
4) vinyl chloride	1.78	62	125411	21.41 ug/L	98
6) bromomethane	2.14	94	50374	27.65 ug/L	99
7) chloroethane	2.26	64	69041	24.22 ug/L	95
8) trichlorofluoromethane	2.55	101	147241	28.79 ug/L	99
9) acrolein	3.02	56	29180	53.10 ug/L	95
10) 1,1-dichloroethene	3.13	96	61872	21.45 ug/L	89
11) acetone	3.20	43	69867	25.37 ug/L	90
12) carbon disulfide	3.38	76	214051	24.91 ug/L	100
13) methylene chloride	3.70	84	160896	23.51 ug/L	99
14) acrylonitrile	3.99	53	78575	19.37 ug/L	95
15) trans-1,2-dichloroethene	4.03	96	107455	21.16 ug/L	92
16) methyl-t-butyl ether	4.04	73	357097	20.51 ug/L	99
17) acetonitrile	3.51	41	27179	23.18 ug/L #	82
19) 1,1-dichloroethane	4.53	63	206995	19.44 ug/L	96
20) vinyl acetate	4.60	43	352335	33.89 ug/L	100
21) cis-1,2-dichloroethene	5.25	96	124549	19.02 ug/L	93
22) 2,2-dichloropropane	5.24	77	149968	22.09 ug/L	98
23) 2-butanone	5.28	72	18568	18.73 ug/L	97
25) chloroform	5.67	83	211104	21.52 ug/L	96
27) 1,1,1-trichloroethane	5.88	97	151846	23.41 ug/L	95
29) carbon tetrachloride	6.10	117	134444	23.08 ug/L	91
31) benzene	6.36	78	416408	18.87 ug/L	99
32) 1,1-dichloropropene	6.10	75	134308	19.33 ug/L	99
33) 1,2-dichloroethane	6.39	62	190994	21.45 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) trichloroethene	7.26	95	104575	19.40 ug/L	91
36) 1,2-dichloropropane	7.54	63	114184	16.12 ug/L	85
38) dibromomethane	7.72	93	95674	19.96 ug/L	89
39) bromodichloromethane	7.97	83	162128	19.36 ug/L	97
40) 2-chloroethyl vinyl ether	8.40	63	59113	39.90 ug/L	97
42) cis-1,3-dichloropropene	8.61	75	183418	18.95 ug/L	92
43) 4-methyl-2-pentanone	8.83	43	169688	18.86 ug/L	97
45) toluene	9.09	92	259727	22.19 ug/L	90
46) 1,1,2-trichloroethane	9.72	83	96054	19.31 ug/L	96
47) 1,3-dichloropropane	9.97	76	195127	19.21 ug/L	97
48) tetrachloroethene	9.94	164	80414	22.77 ug/L	94
49) trans-1,3-dichloropropene	9.45	75	171507	21.03 ug/L	96
50) 2-hexanone	10.12	43	102367	16.54 ug/L	96
51) dibromochloromethane	10.34	129	132427	18.69 ug/L	96
52) 1,2-dibromoethane	10.49	107	141811	20.09 ug/L #	99
53) chlorobenzene	11.30	112	292602	20.83 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.44	131	105995	19.66 ug/L	87
55) ethylbenzene	11.49	91	441941	21.79 ug/L	94
56) m,p-xylene	11.69	106	354483	44.13 ug/L	94
58) o-xylene	12.34	106	168480	20.96 ug/L	90
59) styrene	12.38	104	296209	20.16 ug/L	95
60) isopropylbenzene	12.98	105	391416	23.92 ug/L	91
61) bromobenzene	13.48	156	123016	20.58 ug/L	98
62) bromoform	12.68	173	92851	19.35 ug/L	96
64) 1,2,3-trichloropropane	13.58	75	130535	20.07 ug/L #	88
65) n-propylbenzene	13.68	91	449299	21.46 ug/L	95
66) 2-chlorotoluene	13.82	91	286800	21.35 ug/L #	87
67) 4-chlorotoluene	14.01	91	323986	21.84 ug/L	92
68) 1,3,5-trimethylbenzene	14.01	105	300668	21.17 ug/L	91
70) 1,1,2,2-tetrachloroethane	13.53	83	165172	18.73 ug/L	96
71) tert-butylbenzene	14.54	119	226690	18.83 ug/L #	86
72) sec-butylbenzene	14.89	105	335196	19.68 ug/L	94
73) 1,2,4-trimethylbenzene	14.63	105	318322	20.35 ug/L	93
74) 1,3-dichlorobenzene	15.05	146	184182	19.70 ug/L	98
75) p-isopropyltoluene	15.13	119	277850	20.13 ug/L	92
77) 1,4-dichlorobenzene	15.19	146	189893	19.66 ug/L	95
78) 1,2-dichlorobenzene	15.74	146	179127	19.72 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

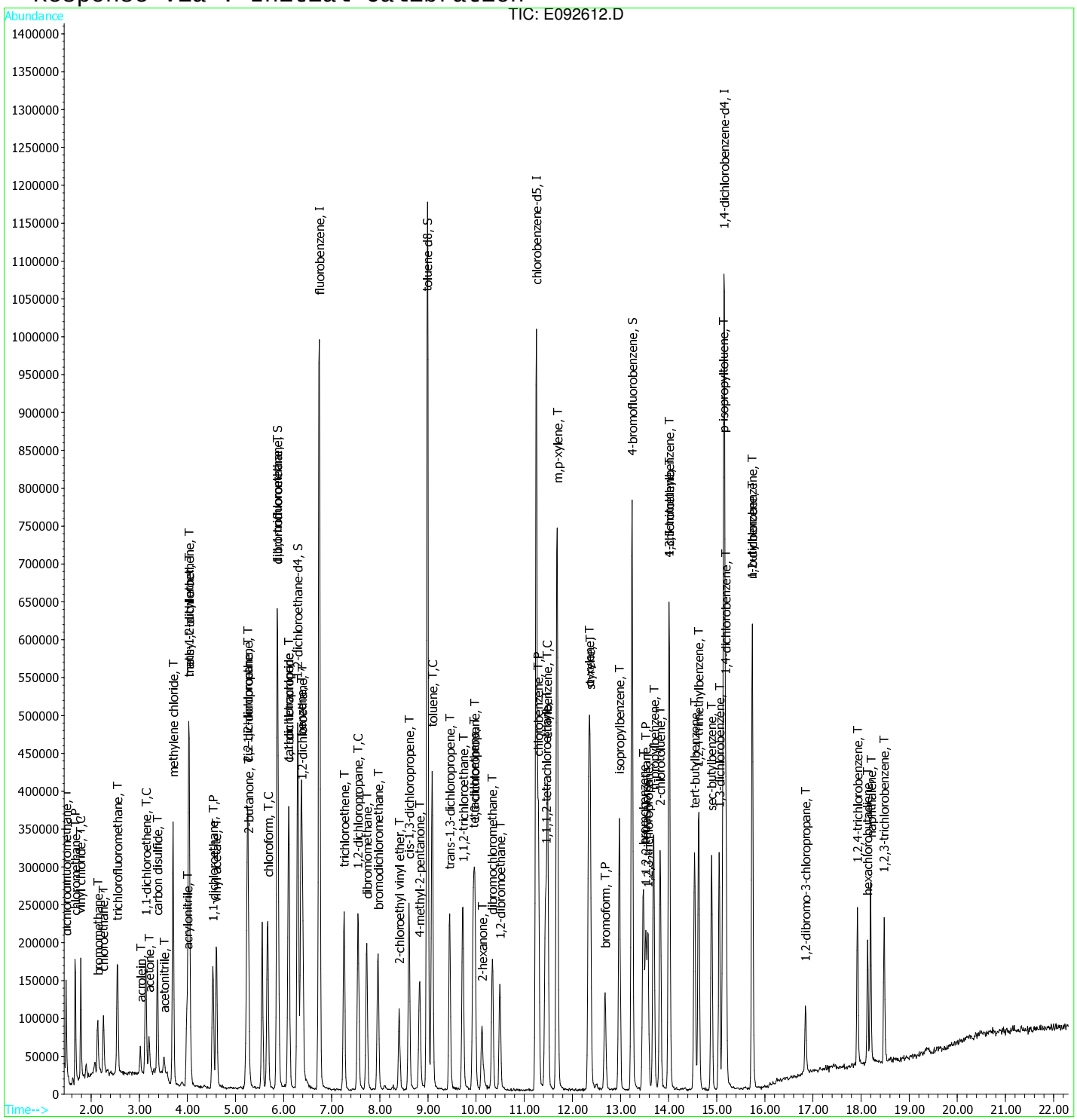
Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	n-butylbenzene	15.74	91	236118	20.58 ug/L	95
80)	1,2-dibromo-3-chloropropan	16.84	75	27797	23.27 ug/L #	89
81)	1,2,4-trichlorobenzene	17.93	180	80725	20.51 ug/L	88
82)	hexachlorobutadiene	18.13	225	34507	20.73 ug/L	96
83)	naphthalene	18.20	128	228992	18.69 ug/L	100
84)	1,2,3-trichlorobenzene	18.49	180	75864	21.52 ug/L	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\4\DATA\E092608\E092612.D Vial: 12
Acq On : 26 Sep 2008 12:04 pm Operator: NLT
Sample : ,MS,ME0809A94-17AMS,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:23 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.74	96	1255509	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.25	117	874842	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.16	152	372870	50.00 ug/L	-0.01
System Monitoring Compounds					
26) dibromofluoromethane	5.87	113	399382	49.80 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.30	65	424343	55.28 ug/L	-0.02
44) toluene-d8	8.98	98	1112806	53.42 ug/L	-0.02
63) 4-bromofluorobenzene	13.24	95	409373	51.67 ug/L	-0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	101435	26.88 ug/L	99
3) chloromethane	1.67	50	162301	26.24 ug/L	99
4) vinyl chloride	1.79	62	136799	23.44 ug/L	96
6) bromomethane	2.14	94	57190	31.51 ug/L	95
7) chloroethane	2.25	64	75791	26.69 ug/L	94
8) trichlorofluoromethane	2.55	101	152736	29.98 ug/L	96
9) acrolein	3.02	56	27926	51.01 ug/L	93
10) 1,1-dichloroethene	3.14	96	64111	22.31 ug/L #	79
11) acetone	3.21	43	58571	21.35 ug/L	91
12) carbon disulfide	3.38	76	228414	26.69 ug/L	98
13) methylene chloride	3.71	84	158107	23.19 ug/L	90
14) acrylonitrile	3.98	53	74841	18.52 ug/L	94
15) trans-1,2-dichloroethene	4.03	96	111282	22.00 ug/L #	82
16) methyl-t-butyl ether	4.03	73	365842	21.09 ug/L	98
19) 1,1-dichloroethane	4.54	63	207912	19.61 ug/L	97
20) vinyl acetate	4.60	43	349410	33.74 ug/L	99
21) cis-1,2-dichloroethene	5.25	96	132742	20.35 ug/L	95
22) 2,2-dichloropropane	5.24	77	156813	23.19 ug/L	96
23) 2-butanone	5.27	72	18043	18.28 ug/L	91
25) chloroform	5.67	83	220818	22.60 ug/L	96
27) 1,1,1-trichloroethane	5.88	97	154123	23.85 ug/L	96
29) carbon tetrachloride	6.11	117	143442	24.72 ug/L	96
31) benzene	6.37	78	428938	19.52 ug/L	97
32) 1,1-dichloropropene	6.10	75	135355	19.56 ug/L	97
33) 1,2-dichloroethane	6.40	62	196641	22.17 ug/L	98
34) trichloroethene	7.25	95	110274	20.54 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	1,2-dichloropropane	7.55	63	117626	16.67 ug/L	96
37)	methyl methacrylate	7.55	41	80727	10.00 ug/L #	39
38)	dibromomethane	7.72	93	95964	20.10 ug/L	98
39)	bromodichloromethane	7.96	83	163632	19.61 ug/L	96
40)	2-chloroethyl vinyl ether	8.40	63	59310	40.18 ug/L	93
42)	cis-1,3-dichloropropene	8.60	75	179998	18.16 ug/L	98
43)	4-methyl-2-pentanone	8.83	43	161264	17.50 ug/L	98
45)	toluene	9.09	92	267084	22.27 ug/L	94
46)	1,1,2-trichloroethane	9.72	83	102156	20.05 ug/L	97
47)	1,3-dichloropropane	9.98	76	202122	19.43 ug/L	100
48)	tetrachloroethene	9.94	164	83253	23.01 ug/L	97
49)	trans-1,3-dichloropropene	9.45	75	170645	20.43 ug/L	96
50)	2-hexanone	10.12	43	101263	15.97 ug/L	93
51)	dibromochloromethane	10.34	129	140257	19.33 ug/L	97
52)	1,2-dibromoethane	10.50	107	151166	20.90 ug/L	99
53)	chlorobenzene	11.30	112	306624	21.31 ug/L	97
54)	1,1,1,2-tetrachloroethane	11.45	131	108495	19.65 ug/L	86
55)	ethylbenzene	11.48	91	453333	21.82 ug/L	99
56)	m,p-xylene	11.68	106	372939	45.33 ug/L	98
58)	o-xylene	12.34	106	173983	21.14 ug/L	92
59)	styrene	12.37	104	294585	19.57 ug/L	98
60)	isopropylbenzene	12.97	105	401388	23.95 ug/L	92
61)	bromobenzene	13.47	156	121913	19.91 ug/L	95
62)	bromoform	12.68	173	96326	19.60 ug/L	96
64)	1,2,3-trichloropropane	13.57	75	128337	19.26 ug/L	98
65)	n-propylbenzene	13.69	91	464181	21.64 ug/L	96
66)	2-chlorotoluene	13.83	91	303238	22.04 ug/L	89
67)	4-chlorotoluene	14.01	91	340285	22.39 ug/L	93
68)	1,3,5-trimethylbenzene	14.01	105	317166	21.80 ug/L	91
70)	1,1,2,2-tetrachloroethane	13.52	83	157601	18.09 ug/L	97
71)	tert-butylbenzene	14.55	119	238123	20.01 ug/L	91
72)	sec-butylbenzene	14.89	105	348849	20.73 ug/L	96
73)	1,2,4-trimethylbenzene	14.62	105	328969	21.28 ug/L	90
74)	1,3-dichlorobenzene	15.06	146	181537	19.65 ug/L	94
75)	p-isopropyltoluene	15.13	119	290876	21.33 ug/L	94
77)	1,4-dichlorobenzene	15.20	146	192211	20.14 ug/L	97
78)	1,2-dichlorobenzene	15.74	146	183528	20.45 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

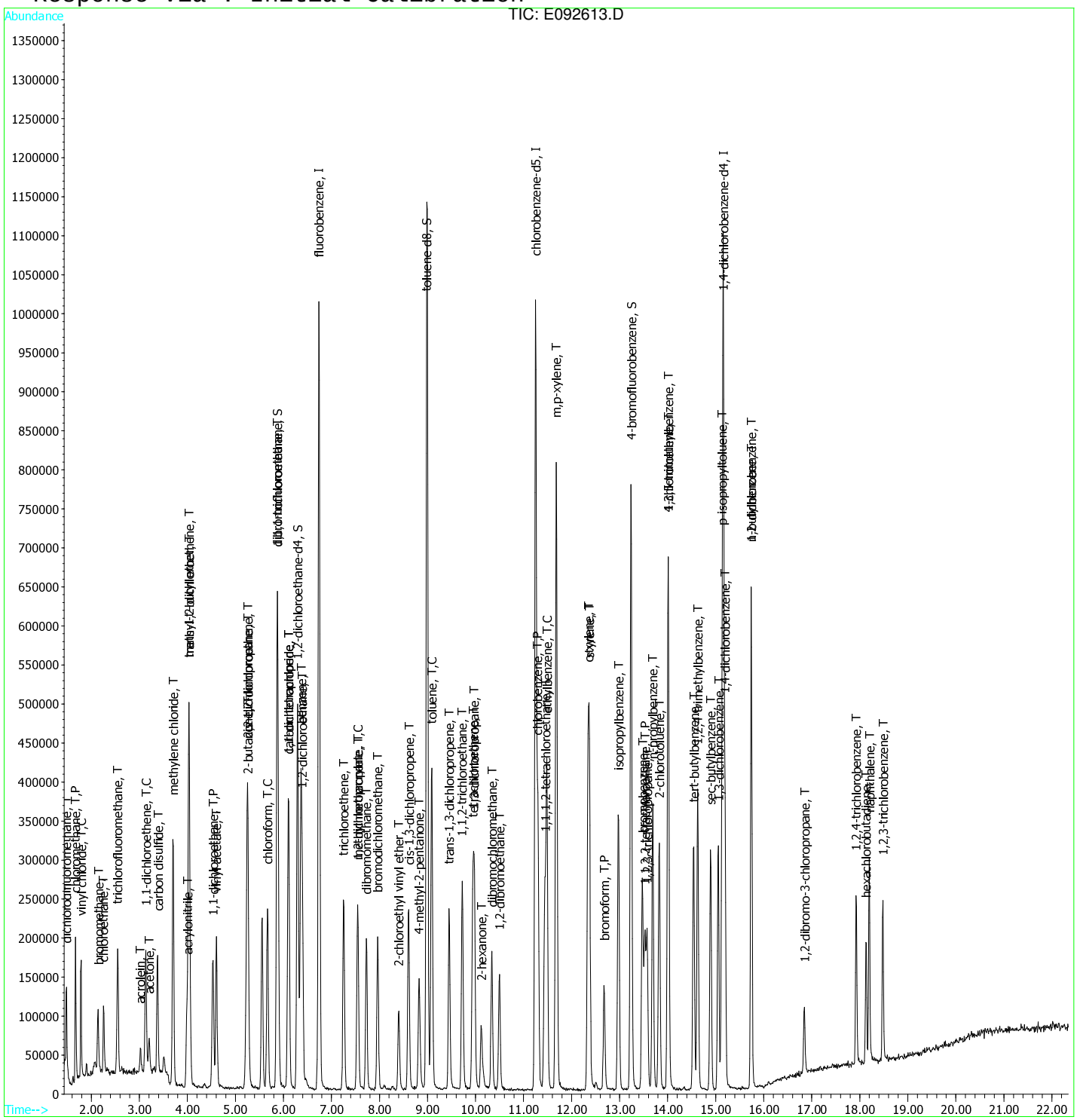
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79)	n-butylbenzene	15.74	91	248034	21.88 ug/L	93
80)	1,2-dibromo-3-chloropropan	16.84	75	25569	21.66 ug/L	93
81)	1,2,4-trichlorobenzene	17.92	180	86609	22.27 ug/L	93
82)	hexachlorobutadiene	18.14	225	36001	21.89 ug/L	96
83)	naphthalene	18.20	128	238380	19.69 ug/L	100
84)	1,2,3-trichlorobenzene	18.48	180	80724	23.18 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092613.D Vial: 13
Acq On : 26 Sep 2008 12:35 pm Operator: NLT
Sample : ,MSD,ME0809A94-17AMSD,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:21 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100318.D Vial: 18
Acq On : 3 Oct 2008 5:09 pm Operator: BR
Sample : ,SAMP,ME0810119-01A,1, Inst : Instrument #1
Misc : 8260_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 21:09:31 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) fluorobenzene	6.997	96	491407	50.00 ug/L	0.00
41) chlorobenzene-d5	11.540	117	384617	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.408	152	154613	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.146	113	152688	50.46 ug/L	0.00
30) 1,2-dichloroethane-d4	6.584	65	188544	50.54 ug/L	0.00
44) toluene-d8	9.253	98	499292	51.48 ug/L	0.00
63) 4-bromofluorobenzene	13.541	95	156602	43.81 ug/L	0.00

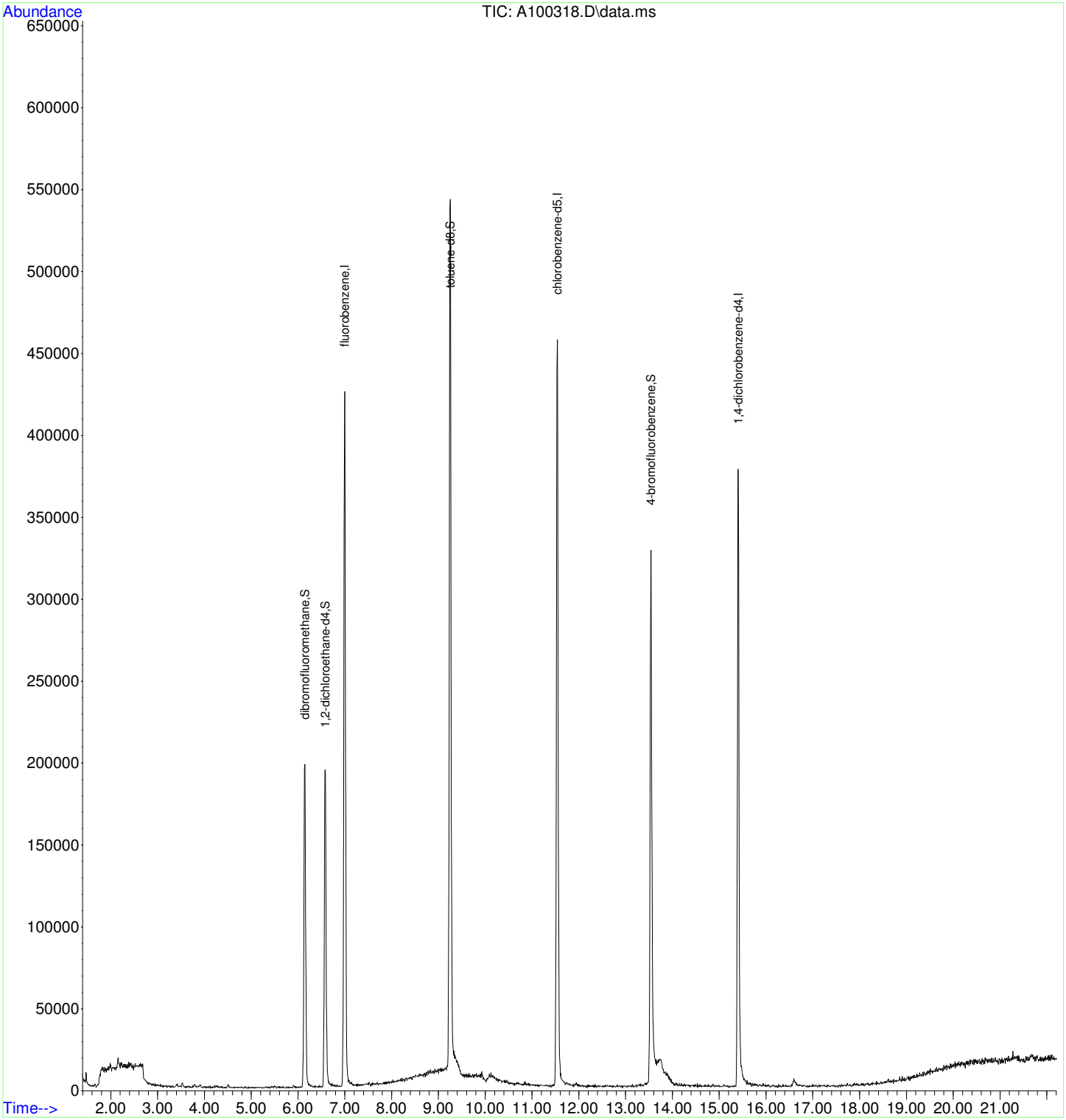
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100318.D Vial: 18
Acq On : 3 Oct 2008 5:09 pm Operator: BR
Sample : ,SAMP,ME0810119-01A,1, Inst : Instrument #1
Misc : 8260_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 21:09:31 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100333.D Vial: 33
Acq On : 4 Oct 2008 1:28 am Operator: BR
Sample : ,MS,me0810119-01AMS,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:26 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	354438	50.00	ug/L	0.00
41) chlorobenzene-d5	11.544	117	288009	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	157164	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.144	113	118878	54.47	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	147160	54.69	ug/L	0.00
44) toluene-d8	9.251	98	363129	50.00	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	132533	49.51	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.510	85	30196	27.70	ug/L	88
3) chloromethane	1.716	50	44125	27.34	ug/L	96
4) vinyl chloride	1.838	62	39318	22.79	ug/L	99
6) bromomethane	2.227	94	7481	10.84	ug/L	93
7) chloroethane	2.361	64	24316	24.21	ug/L	90
8) trichlorofluoromethane	2.647	101	79305	25.14	ug/L	91
9) acrolein	3.206	56	7683	67.82	ug/L	92
10) 1,1-dichloroethene	3.279	96	26806	16.33	ug/L #	82
11) acetone	3.407	43	16530	19.89	ug/L	89
12) carbon disulfide	3.535	76	81888	16.13	ug/L	100
13) methylene chloride	3.906	84	46445	19.72	ug/L	98
14) acrylonitrile	4.258	53	17846	19.32	ug/L	94
15) trans-1,2-dichloroethene	4.222	96	37791	20.44	ug/L	88
16) methyl-t-butyl ether	4.210	73	96745	16.25	ug/L	92
19) 1,1-dichloroethane	4.757	63	80355	21.41	ug/L	99
20) vinyl acetate	4.830	43	66932	26.69	ug/L	93
21) cis-1,2-dichloroethene	5.505	96	38027	17.89	ug/L #	87
22) 2,2-dichloropropane	5.469	77	55042	18.45	ug/L #	89
23) 2-butanone	5.560	72	3422	15.09	ug/L #	97
25) chloroform	5.931	83	82454	21.98	ug/L	93
27) 1,1,1-trichloroethane	6.119	97	65961	21.18	ug/L	91
29) carbon tetrachloride	6.320	117	57862	20.91	ug/L	98
31) benzene	6.612	78	154368	20.55	ug/L	100
32) 1,1-dichloropropene	6.332	75	44351	17.40	ug/L #	95
33) 1,2-dichloroethane	6.685	62	75903	21.19	ug/L	95
34) trichloroethene	7.506	95	34987	18.20	ug/L #	77
36) 1,2-dichloropropane	7.834	63	42315	18.94	ug/L	82
37) methyl methacrylate	7.834	41	33924	15.76	ug/L #	55
38) dibromomethane	8.023	93	29044	19.91	ug/L #	86
39) bromodichloromethane	8.266	83	60032	19.65	ug/L	95
42) cis-1,3-dichloropropene	8.898	75	51384	16.00	ug/L	94
43) 4-methyl-2-pentanone	9.130	43	36268	16.43	ug/L #	93
45) toluene	9.348	92	89675	20.29	ug/L	92
46) 1,1,2-trichloroethane	10.042	83	35049	20.71	ug/L	93
47) 1,3-dichloropropane	10.297	76	67622	19.50	ug/L	99
48) tetrachloroethene	10.176	164	31480	19.68	ug/L	94
49) trans-1,3-dichloropropene	9.762	75	51361	18.40	ug/L	96
50) 2-hexanone	10.431	43	17809	13.22	ug/L	91
51) dibromochloromethane	10.656	129	45052	19.90	ug/L	90
52) 1,2-dibromoethane	10.814	107	40741	19.99	ug/L #	100
53) chlorobenzene	11.580	112	99565	20.16	ug/L	86
54) 1,1,1,2-tetrachloroethane	11.744	131	41238	20.14	ug/L	95
55) ethylbenzene	11.757	91	137231	18.15	ug/L	90

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100333.D Vial: 33
Acq On : 4 Oct 2008 1:28 am Operator: BR
Sample : ,MS,me0810119-01AMS,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:26 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

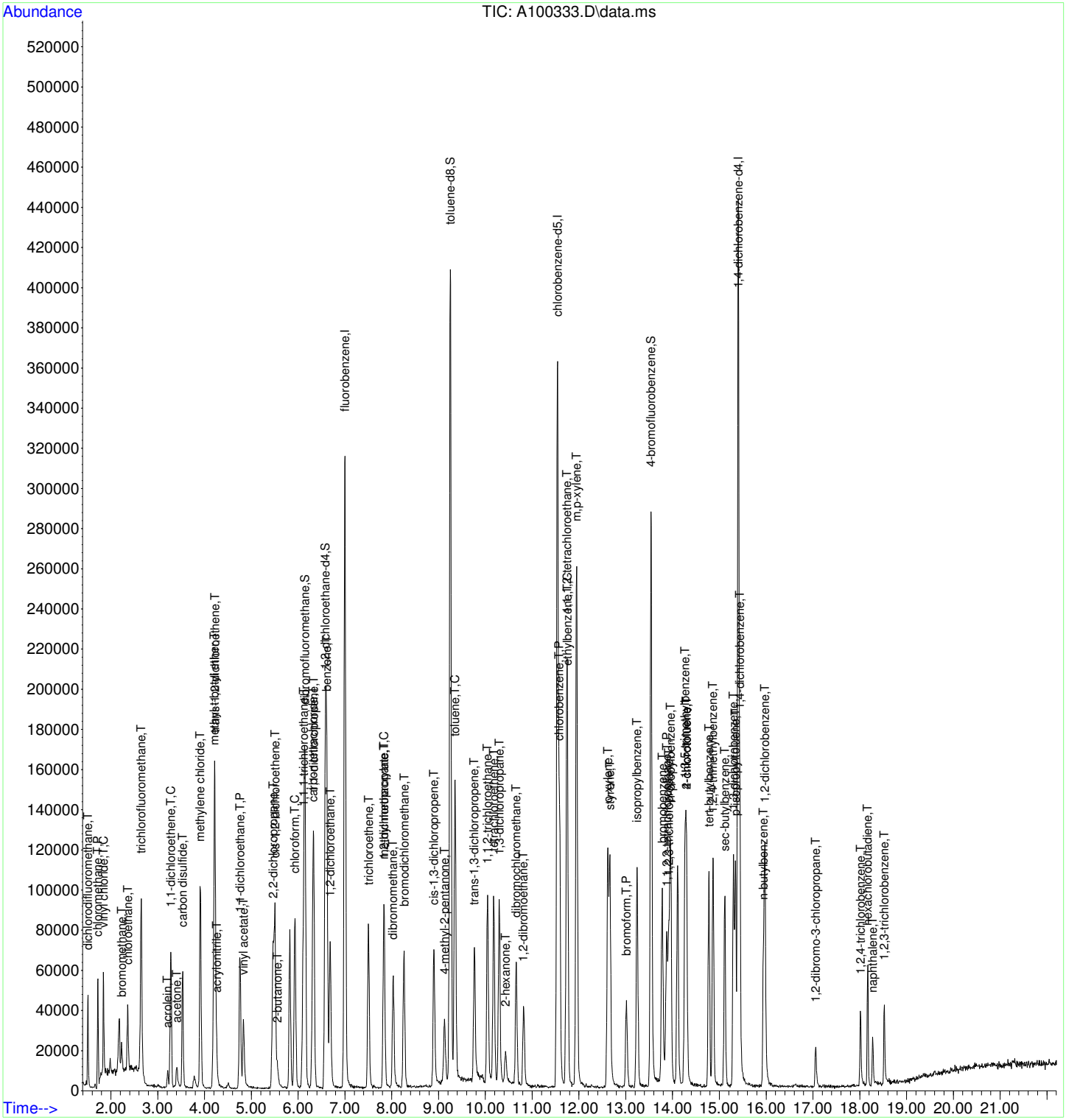
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) m,p-xylene	11.951	106	106205	36.99	ug/L #	81
58) o-xylene	12.620	106	47804	16.92	ug/L #	82
59) styrene	12.663	104	83913	17.78	ug/L	84
60) isopropylbenzene	13.240	105	103398	18.35	ug/L	92
61) bromobenzene	13.782	156	42913	19.02	ug/L #	71
62) bromoform	13.015	173	31765	18.68	ug/L	93
64) 1,2,3-trichloropropane	13.922	75	44654	20.42	ug/L	89
65) n-propylbenzene	13.958	91	133467	17.84	ug/L	93
66) 2-chlorotoluene	14.299	91	109588	22.02	ug/L	94
67) 4-chlorotoluene	14.299	91	109588	19.89	ug/L #	88
68) 1,3,5-trimethylbenzene	14.268	105	89006	17.62	ug/L	88
70) 1,1,2,2-tetrachloroethane	13.879	83	49987	19.73	ug/L	96
71) tert-butylbenzene	14.779	119	64126	15.60	ug/L	85
72) sec-butylbenzene	15.120	105	88827	15.17	ug/L #	92
73) 1,2,4-trimethylbenzene	14.864	105	88292	16.42	ug/L #	86
74) 1,3-dichlorobenzene	15.302	146	64702	18.41	ug/L	90
75) p-isopropyltoluene	15.345	119	78293	16.77	ug/L	90
77) 1,4-dichlorobenzene	15.436	146	66140	17.60	ug/L	91
78) 1,2-dichlorobenzene	15.977	146	65736	18.79	ug/L	91
79) n-butylbenzene	15.941	91	52487	13.29	ug/L	92
80) 1,2-dibromo-3-chloropr...	17.060	75	6646	17.27	ug/L	81
81) 1,2,4-trichlorobenzene	18.020	180	16068	11.82	ug/L	90
82) hexachlorobutadiene	18.166	225	12673	14.85	ug/L	91
83) naphthalene	18.276	128	22487	8.98	ug/L	100
84) 1,2,3-trichlorobenzene	18.525	180	14405	11.98	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100333.D Vial: 33
Acq On : 4 Oct 2008 1:28 am Operator: BR
Sample : ,MS,me0810119-01AMS,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:26 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100334.D Vial: 34
Acq On : 4 Oct 2008 2:00 am Operator: BR
Sample : ,MSD,ME0810119-01AMSD,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.997	96	363542	50.00	ug/L	0.00
41) chlorobenzene-d5	11.539	117	303378	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.401	152	161742	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.145	113	119556	53.41	ug/L	0.00
30) 1,2-dichloroethane-d4	6.577	65	151492	54.89	ug/L	0.00
44) toluene-d8	9.253	98	379887	49.66	ug/L	0.00
63) 4-bromofluorobenzene	13.540	95	137208	48.66	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.505	85	32836	29.37	ug/L	97
3) chloromethane	1.718	50	47641	28.78	ug/L	100
4) vinyl chloride	1.840	62	39578	22.37	ug/L	98
6) bromomethane	2.223	94	9462	13.37	ug/L	95
7) chloroethane	2.357	64	24675	23.95	ug/L	85
8) trichlorofluoromethane	2.642	101	70332	21.73	ug/L	98
9) acrolein	3.208	56	8047	69.25	ug/L	95
10) 1,1-dichloroethene	3.281	96	28902	17.17	ug/L #	80
11) acetone	3.403	43	18551	21.77	ug/L	91
12) carbon disulfide	3.530	76	90018	17.29	ug/L	98
13) methylene chloride	3.907	84	46891	19.41	ug/L	90
14) acrylonitrile	4.248	53	17142	18.09	ug/L	92
15) trans-1,2-dichloroethene	4.224	96	40593	21.41	ug/L #	84
16) methyl-t-butyl ether	4.205	73	106499	17.44	ug/L	84
19) 1,1-dichloroethane	4.753	63	85212	22.14	ug/L	96
20) vinyl acetate	4.832	43	71464	27.78	ug/L	100
21) cis-1,2-dichloroethene	5.507	96	42413	19.46	ug/L #	77
22) 2,2-dichloropropane	5.464	77	57041	18.65	ug/L #	87
23) 2-butanone	5.561	72	3669	15.77	ug/L #	66
25) chloroform	5.926	83	85061	22.10	ug/L	98
27) 1,1,1-trichloroethane	6.115	97	68281	21.37	ug/L	93
29) carbon tetrachloride	6.316	117	60674	21.38	ug/L	96
31) benzene	6.607	78	161431	20.95	ug/L	98
32) 1,1-dichloropropene	6.328	75	46963	17.96	ug/L #	94
33) 1,2-dichloroethane	6.686	62	76424	20.81	ug/L	94
34) trichloroethene	7.501	95	38322	19.43	ug/L #	77
36) 1,2-dichloropropane	7.830	63	43974	19.19	ug/L	75
37) methyl methacrylate	7.830	41	36204	16.40	ug/L #	58
38) dibromomethane	8.024	93	30994	20.72	ug/L #	86
39) bromodichloromethane	8.255	83	62984	20.10	ug/L	92
42) cis-1,3-dichloropropene	8.900	75	55289	16.34	ug/L	98
43) 4-methyl-2-pentanone	9.125	43	36596	15.74	ug/L #	94
45) toluene	9.350	92	92762	19.92	ug/L	98
46) 1,1,2-trichloroethane	10.043	83	36071	20.24	ug/L	98
47) 1,3-dichloropropane	10.299	76	72399	19.82	ug/L	99
48) tetrachloroethene	10.183	164	31947	18.96	ug/L	86
49) trans-1,3-dichloropropene	9.764	75	54990	18.71	ug/L	97
50) 2-hexanone	10.426	43	19388	13.66	ug/L	86
51) dibromochloromethane	10.658	129	47093	19.75	ug/L	94
52) 1,2-dibromoethane	10.822	107	42742	19.91	ug/L	100
53) chlorobenzene	11.588	112	106365	20.44	ug/L	84
54) 1,1,1,2-tetrachloroethane	11.734	131	43521	20.18	ug/L	93
55) ethylbenzene	11.752	91	147205	18.49	ug/L	88

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100334.D Vial: 34
Acq On : 4 Oct 2008 2:00 am Operator: BR
Sample : ,MSD,ME0810119-01AMSD,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

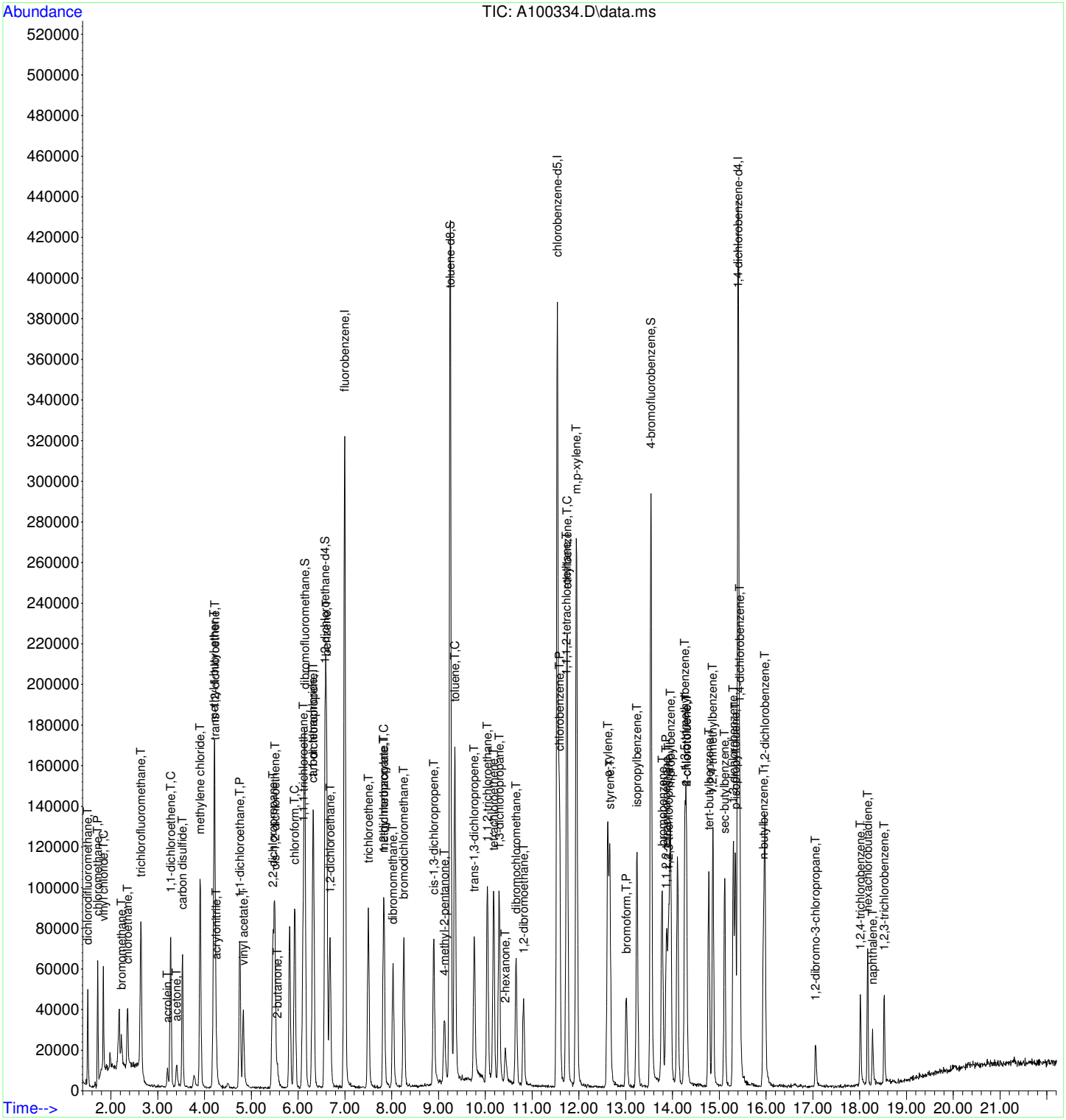
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
56) m,p-xylene	11.947	106	116299	38.45 ug/L #	80
58) o-xylene	12.622	106	52047	17.49 ug/L #	74
59) styrene	12.664	104	87179	17.54 ug/L	85
60) isopropylbenzene	13.242	105	109991	18.53 ug/L	91
61) bromobenzene	13.783	156	44692	18.81 ug/L #	73
62) bromoform	13.017	173	33923	18.94 ug/L	95
64) 1,2,3-trichloropropane	13.917	75	47288	20.53 ug/L	96
65) n-propylbenzene	13.960	91	142271	18.06 ug/L	94
66) 2-chlorotoluene	14.300	91	111510	21.27 ug/L	91
67) 4-chlorotoluene	14.300	91	111510	19.21 ug/L #	84
68) 1,3,5-trimethylbenzene	14.264	105	93773	17.63 ug/L #	87
70) 1,1,2,2-tetrachloroethane	13.869	83	53772	20.62 ug/L	94
71) tert-butylbenzene	14.781	119	67246	15.90 ug/L	84
72) sec-butylbenzene	15.115	105	92844	15.41 ug/L	94
73) 1,2,4-trimethylbenzene	14.860	105	94134	17.01 ug/L	88
74) 1,3-dichlorobenzene	15.298	146	66624	18.42 ug/L	90
75) p-isopropyltoluene	15.346	119	82833	17.24 ug/L	86
77) 1,4-dichlorobenzene	15.438	146	70325	18.18 ug/L	92
78) 1,2-dichlorobenzene	15.973	146	68621	19.06 ug/L	96
79) n-butylbenzene	15.948	91	57849	14.23 ug/L	90
80) 1,2-dibromo-3-chloropr...	17.055	75	7084	17.89 ug/L	84
81) 1,2,4-trichlorobenzene	18.016	180	17814	12.74 ug/L	92
82) hexachlorobutadiene	18.174	225	13772	15.69 ug/L	95
83) naphthalene	18.277	128	25416	9.87 ug/L	100
84) 1,2,3-trichlorobenzene	18.527	180	16455	13.29 ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100334.D Vial: 34
Acq On : 4 Oct 2008 2:00 am Operator: BR
Sample : ,MSD,ME0810119-01AMSD,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100410.D Vial: 10
Acq On : 4 Oct 2008 12:55 pm Operator: BR
Sample : ,SAMP,ME0809B67-05A,10,RA, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 13:42 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

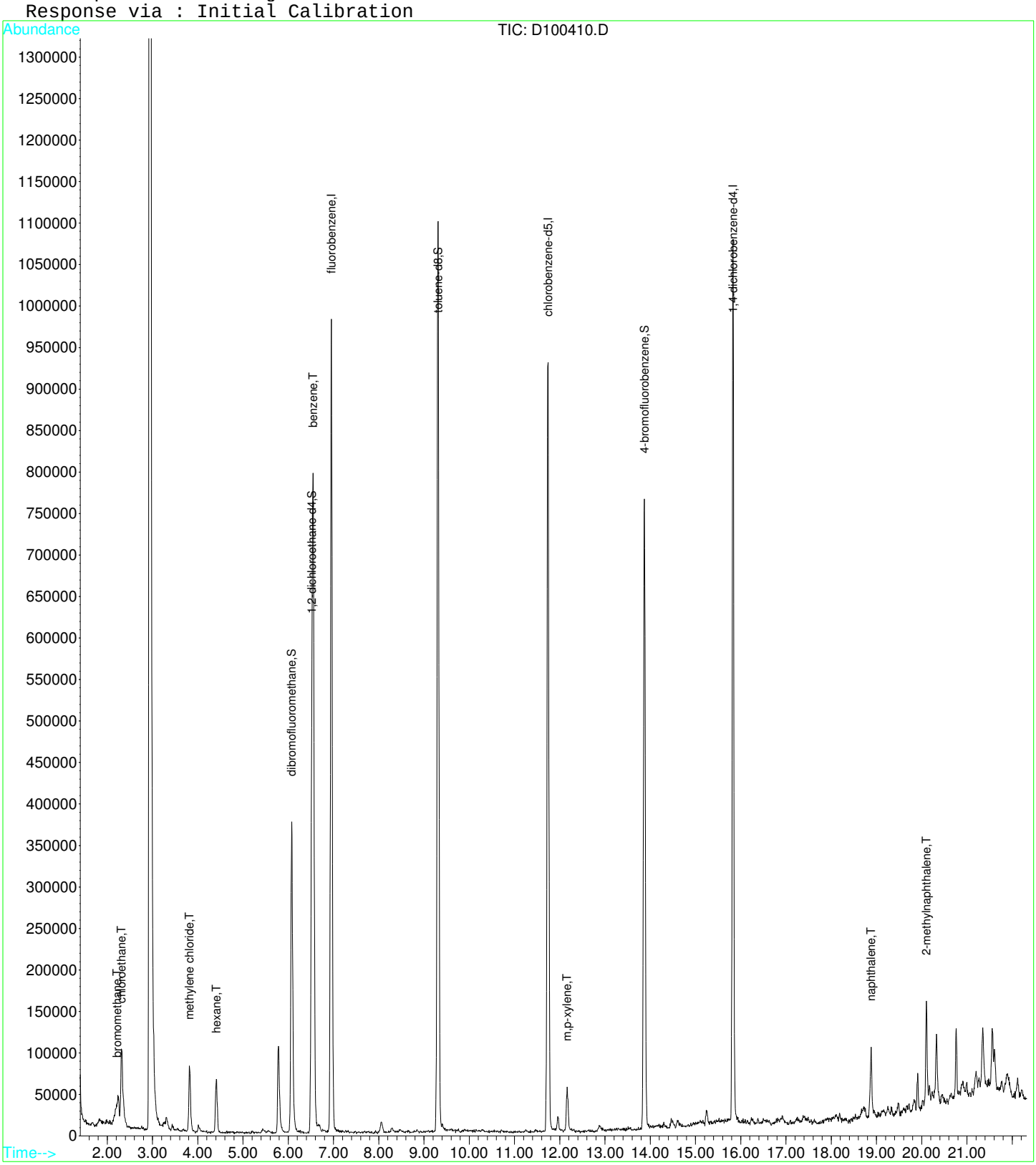
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1138875	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	784547	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.82	152	382269	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	331359	51.63 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	412124	46.94 ug/L	-0.03
44) toluene-d8	9.31	98	1033968	50.81 ug/L	-0.02
63) 4-bromofluorobenzene	13.86	95	434922	47.87 ug/L	-0.03
Target Compounds					Qvalue
6) bromomethane	2.22	94	911	8.48 ug/L #	69
7) chloroethane	2.32	64	127106	28.46 ug/L	86
13) methylene chloride	3.81	84	46031	5.78 ug/L	97
18) hexane	4.40	57	40018	3.50 ug/L #	96
31) benzene	6.55	78	779040	34.09 ug/L	99
56) m,p-xylene	12.16	106	23292	2.36 ug/L #	85
83) naphthalene	18.88	128	71441	3.65 ug/L	100
85) 2-methylnaphthalene	20.11	142	88700	8.13 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100408\D100410.D Vial: 10
Acq On : 4 Oct 2008 12:55 pm Operator: BR
Sample : ,SAMP,ME0809B67-05A,10,RA, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 13:42 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100419.D Vial: 19
Acq On : 4 Oct 2008 6:14 pm Operator: BR
Sample : ,MS,ME0809B67-05AMS,10, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 8:23 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.96	96	974557	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	664963	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.83	152	319738	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	288774	52.58 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	357060	47.53 ug/L	-0.02
44) toluene-d8	9.31	98	868089	50.33 ug/L	-0.02
63) 4-bromofluorobenzene	13.87	95	371537	48.24 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	90413	11.91 ug/L	100
3) chloromethane	1.84	50	143950	32.64 ug/L	88
4) vinyl chloride	1.87	62	129056	17.91 ug/L	97
6) bromomethane	2.22	94	33241	19.07 ug/L	85
7) chloroethane	2.33	64	239621	62.70 ug/L	88
8) trichlorofluoromethane	2.61	101	156682	17.24 ug/L	99
9) acrolein	3.12	56	26092	57.36 ug/L	97
10) 1,1-dichloroethene	3.21	96	82405	18.54 ug/L	92
11) acetone	3.32	43	64258	19.36 ug/L	88
12) carbon disulfide	3.45	76	267394	15.55 ug/L	99
13) methylene chloride	3.82	84	168581	24.76 ug/L	95
14) acrylonitrile	4.15	53	52133	23.42 ug/L	94
15) trans-1,2-dichloroethene	4.12	96	109178	22.14 ug/L	98
16) methyl-t-butyl ether	4.11	73	314374	20.34 ug/L	94
17) acetonitrile	3.68	41	22836	23.13 ug/L #	87
18) hexane	4.42	57	45881	4.70 ug/L #	96
19) 1,1-dichloroethane	4.66	63	233797	23.36 ug/L	97
20) vinyl acetate	4.72	43	250945	34.22 ug/L	99
21) cis-1,2-dichloroethene	5.42	96	123967	22.83 ug/L	95
22) 2,2-dichloropropane	5.39	77	138405	17.86 ug/L	98
23) 2-butanone	5.45	72	14672	22.61 ug/L #	81
25) chloroform	5.85	83	218503	23.33 ug/L	99
27) 1,1,1-trichloroethane	6.04	97	160751	20.36 ug/L	93
29) carbon tetrachloride	6.25	117	112258	19.08 ug/L	96
31) benzene	6.56	78	1167771	59.71 ug/L	99
32) 1,1-dichloropropene	6.27	75	162319	21.31 ug/L	99
33) 1,2-dichloroethane	6.63	62	196319	21.32 ug/L	98
34) trichloroethene	7.48	95	115335	22.55 ug/L	88
36) 1,2-dichloropropane	7.83	63	127736	23.50 ug/L	94
37) methyl methacrylate	7.83	41	96632	13.17 ug/L #	46
38) dibromomethane	8.03	93	82941	24.78 ug/L	97
39) bromodichloromethane	8.28	83	161984	21.78 ug/L	94
42) cis-1,3-dichloropropene	8.95	75	182023	21.99 ug/L	93
43) 4-methyl-2-pentanone	9.17	43	143421	19.81 ug/L	97
45) toluene	9.41	92	276960	22.97 ug/L	96
46) 1,1,2-trichloroethane	10.17	83	88636	23.95 ug/L	97
47) 1,3-dichloropropane	10.43	76	197932	23.13 ug/L	100
48) tetrachloroethene	10.29	164	84762	23.15 ug/L	95
49) trans-1,3-dichloropropene	9.85	75	149880	22.59 ug/L	98
50) 2-hexanone	10.55	43	98499	19.22 ug/L	96
51) dibromochloromethane	10.81	129	115268	23.27 ug/L	94
52) 1,2-dibromoethane	10.97	107	117877	24.52 ug/L	98
53) chlorobenzene	11.79	112	296820	23.77 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.96	131	102579	22.98 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100419.D Vial: 19
Acq On : 4 Oct 2008 6:14 pm Operator: BR
Sample : ,MS,ME0809B67-05AMS,10, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 8:23 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
55)	ethylbenzene	11.96	91	532177	23.05 ug/L	100
56)	m,p-xylene	12.17	106	395206	47.18 ug/L	94
58)	o-xylene	12.88	106	190758	23.58 ug/L	95
59)	styrene	12.93	104	330745	23.15 ug/L	97
60)	isopropylbenzene	13.55	105	482000	24.73 ug/L	99
61)	bromobenzene	14.12	156	119896	24.46 ug/L	97
62)	bromoform	13.32	173	78935	24.68 ug/L	94
64)	1,2,3-trichloropropane	14.27	75	126785	23.48 ug/L	98
65)	n-propylbenzene	14.30	91	600290	22.18 ug/L	99
66)	2-chlorotoluene	14.47	91	366894	21.97 ug/L	97
67)	4-chlorotoluene	14.66	91	425708	22.23 ug/L	100
68)	1,3,5-trimethylbenzene	14.62	105	406793	22.44 ug/L	99
70)	1,1,2,2-tetrachloroethane	14.23	83	146585	23.49 ug/L	95
71)	tert-butylbenzene	15.15	119	338798	22.24 ug/L	99
72)	sec-butylbenzene	15.51	105	505316	20.66 ug/L	99
73)	1,2,4-trimethylbenzene	15.25	105	413341	21.62 ug/L	98
74)	1,3-dichlorobenzene	15.72	146	221118	24.06 ug/L	99
75)	p-isopropyltoluene	15.75	119	434477	22.78 ug/L	98
77)	1,4-dichlorobenzene	15.86	146	222693	23.52 ug/L	96
78)	1,2-dichlorobenzene	16.44	146	208616	23.70 ug/L	96
79)	n-butylbenzene	16.39	91	434584	21.56 ug/L	94
80)	1,2-dibromo-3-chloropropan	17.61	75	29142	20.87 ug/L	94
81)	1,2,4-trichlorobenzene	18.60	180	175838	24.37 ug/L	95
82)	hexachlorobutadiene	18.76	225	91837	21.88 ug/L	96
83)	naphthalene	18.88	128	386843	23.62 ug/L	100
84)	1,2,3-trichlorobenzene	19.15	180	162430	24.01 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

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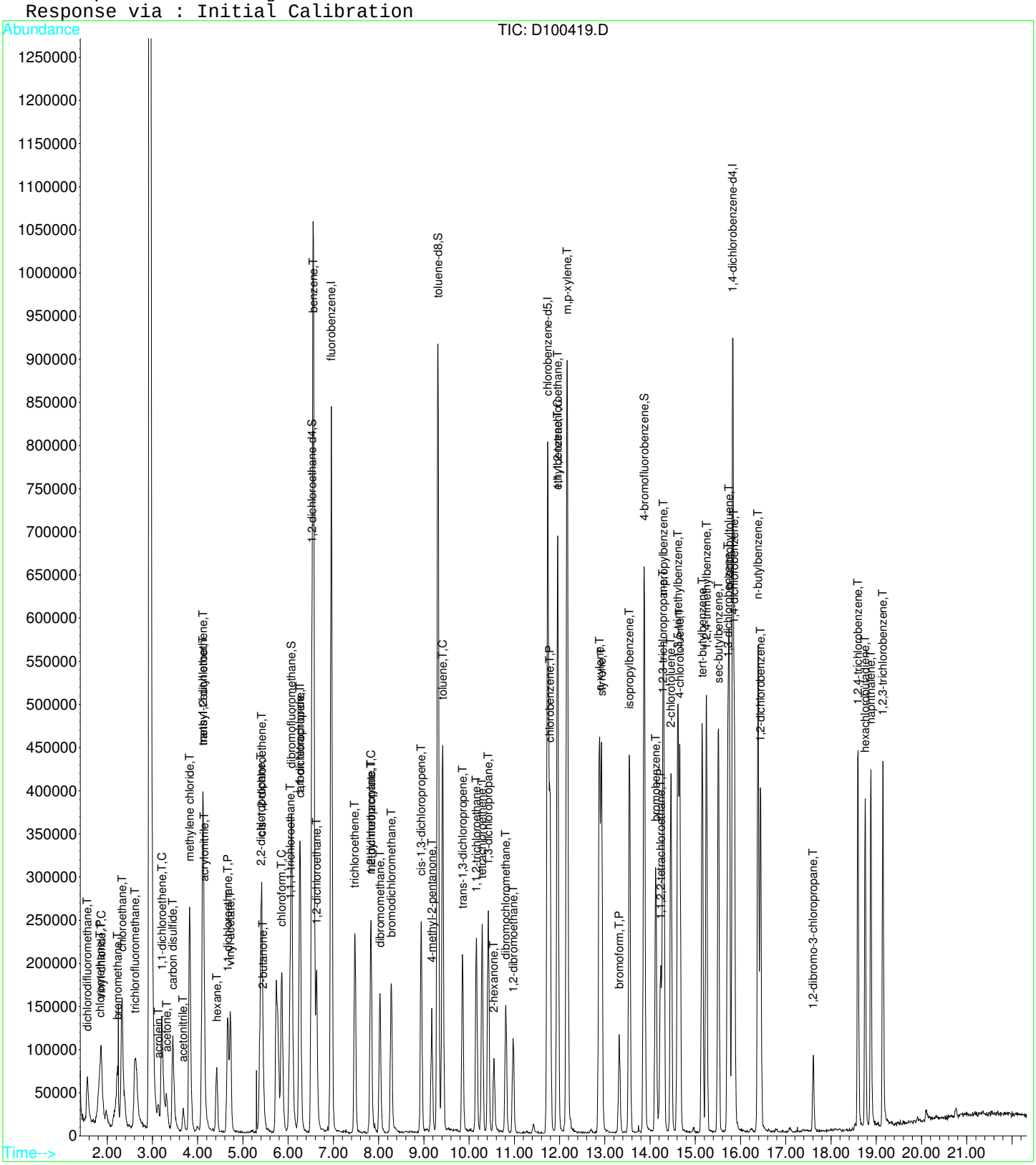
Data File : C:\HPCHEM\1\DATA\D100408\D100419.D          Vial: 19
Acq On    :  4 Oct 2008   6:14 pm                    Operator: BR
Sample    : ,MS,ME0809B67-05AMS,10,                   Inst    : VOA 4
Misc      : 8260+_W                                   Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct  5  8:23 2008              Quant Results File: VOA0818.RES

Method       : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title        : VOA ICAL 08/18/08
Last Update  : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
```



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100420.D Vial: 20
Acq On : 4 Oct 2008 6:49 pm Operator: BR
Sample : ,MSD,ME0809B67-05AMSD,10, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 8:23 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	952215	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	642481	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.82	152	304106	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	286543	53.39 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	349996	47.68 ug/L	-0.02
44) toluene-d8	9.31	98	863233	51.80 ug/L	-0.02
63) 4-bromofluorobenzene	13.87	95	355465	47.77 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	97681	13.17 ug/L	96
3) chloromethane	1.84	50	146887	34.09 ug/L	86
4) vinyl chloride	1.87	62	128710	18.28 ug/L	98
6) bromomethane	2.21	94	36467	20.41 ug/L #	81
7) chloroethane	2.32	64	234095	62.69 ug/L	90
8) trichlorofluoromethane	2.62	101	162714	18.32 ug/L	97
9) acrolein	3.14	56	25725	57.88 ug/L	94
10) 1,1-dichloroethene	3.20	96	86885	20.01 ug/L	91
11) acetone	3.32	43	65492	20.19 ug/L	90
12) carbon disulfide	3.45	76	298822	17.79 ug/L	99
13) methylene chloride	3.82	84	164239	24.69 ug/L	99
14) acrylonitrile	4.15	53	50400	23.17 ug/L	89
15) trans-1,2-dichloroethene	4.13	96	111672	23.18 ug/L	96
16) methyl-t-butyl ether	4.10	73	322494	21.36 ug/L	96
17) acetonitrile	3.68	41	23220	24.08 ug/L	98
18) hexane	4.42	57	39982	4.19 ug/L #	98
19) 1,1-dichloroethane	4.66	63	220371	22.54 ug/L	97
20) vinyl acetate	4.72	43	253023	35.31 ug/L	99
21) cis-1,2-dichloroethene	5.41	96	119107	22.45 ug/L	88
22) 2,2-dichloropropane	5.38	77	141113	18.64 ug/L	99
23) 2-butanone	5.44	72	12987	20.48 ug/L #	82
25) chloroform	5.85	83	213069	23.28 ug/L	98
27) 1,1,1-trichloroethane	6.04	97	164072	21.27 ug/L	98
29) carbon tetrachloride	6.26	117	117168	20.38 ug/L	98
31) benzene	6.56	78	1119224	58.57 ug/L	99
32) 1,1-dichloropropene	6.26	75	165382	22.22 ug/L	99
33) 1,2-dichloroethane	6.63	62	182409	20.27 ug/L	97
34) trichloroethene	7.48	95	110793	22.17 ug/L	97
36) 1,2-dichloropropane	7.83	63	116278	21.89 ug/L	96
37) methyl methacrylate	7.83	41	95276	13.29 ug/L #	44
38) dibromomethane	8.02	93	77583	23.73 ug/L	94
39) bromodichloromethane	8.28	83	151287	20.82 ug/L	91
42) cis-1,3-dichloropropene	8.94	75	168103	21.02 ug/L	96
43) 4-methyl-2-pentanone	9.17	43	132885	19.00 ug/L	93
45) toluene	9.41	92	271207	23.28 ug/L	98
46) 1,1,2-trichloroethane	10.16	83	81652	22.83 ug/L	92
47) 1,3-dichloropropane	10.42	76	184872	22.36 ug/L	100
48) tetrachloroethene	10.29	164	85412	24.14 ug/L	97
49) trans-1,3-dichloropropene	9.85	75	139119	21.70 ug/L	99
50) 2-hexanone	10.55	43	90660	18.31 ug/L	94
51) dibromochloromethane	10.81	129	107544	22.47 ug/L	98
52) 1,2-dibromoethane	10.98	107	105618	22.73 ug/L	99
53) chlorobenzene	11.79	112	275913	22.87 ug/L	93
54) 1,1,1,2-tetrachloroethane	11.95	131	96810	22.45 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100420.D Vial: 20
Acq On : 4 Oct 2008 6:49 pm Operator: BR
Sample : ,MSD,ME0809B67-05AMSD,10, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 8:23 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

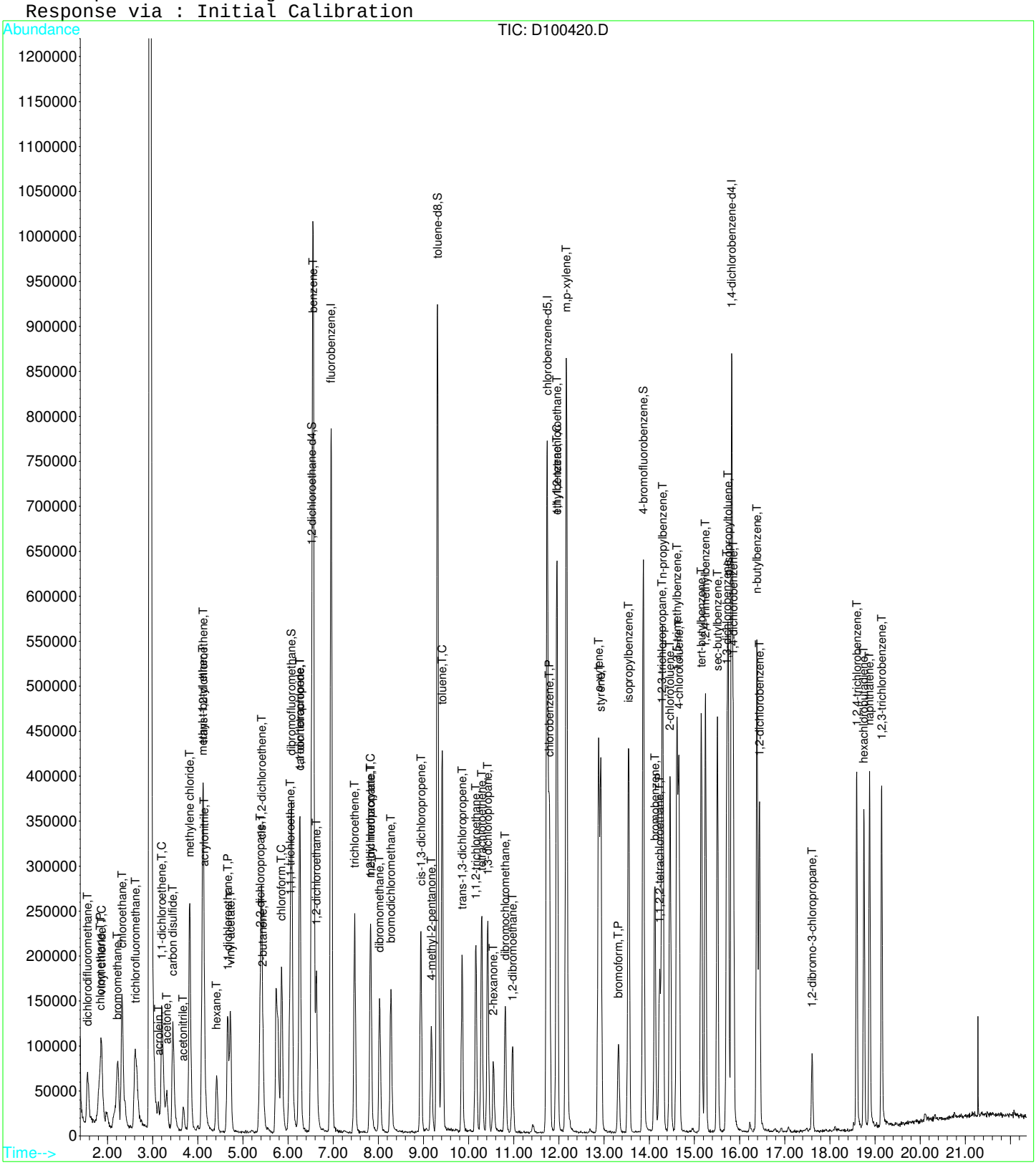
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
55)	ethylbenzene	11.96	91	507896	22.77	ug/L		97
56)	m,p-xylene	12.16	106	390074	48.20	ug/L		94
58)	o-xylene	12.88	106	182372	23.33	ug/L	#	86
59)	styrene	12.93	104	308169	22.32	ug/L		99
60)	isopropylbenzene	13.54	105	477391	25.35	ug/L		100
61)	bromobenzene	14.12	156	109557	23.13	ug/L		96
62)	bromoform	13.32	173	74480	24.10	ug/L		92
64)	1,2,3-trichloropropane	14.27	75	113626	21.78	ug/L		97
65)	n-propylbenzene	14.30	91	588818	22.52	ug/L		100
66)	2-chlorotoluene	14.46	91	352403	21.84	ug/L		99
67)	4-chlorotoluene	14.66	91	399786	21.61	ug/L		100
68)	1,3,5-trimethylbenzene	14.61	105	388536	22.19	ug/L		98
70)	1,1,2,2-tetrachloroethane	14.23	83	136718	23.04	ug/L		95
71)	tert-butylbenzene	15.15	119	326387	22.52	ug/L		99
72)	sec-butylbenzene	15.51	105	484707	20.84	ug/L		98
73)	1,2,4-trimethylbenzene	15.25	105	385543	21.20	ug/L		98
74)	1,3-dichlorobenzene	15.72	146	202340	23.15	ug/L		98
75)	p-isopropyltoluene	15.75	119	413820	22.81	ug/L		98
77)	1,4-dichlorobenzene	15.87	146	204943	22.75	ug/L		99
78)	1,2-dichlorobenzene	16.44	146	194546	23.24	ug/L		98
79)	n-butylbenzene	16.38	91	418745	21.85	ug/L		95
80)	1,2-dibromo-3-chloropropan	17.61	75	29472	22.20	ug/L		96
81)	1,2,4-trichlorobenzene	18.60	180	154088	22.45	ug/L		99
82)	hexachlorobutadiene	18.76	225	82213	20.60	ug/L		90
83)	naphthalene	18.88	128	369323	23.71	ug/L		100
84)	1,2,3-trichlorobenzene	19.15	180	147958	22.99	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100408\D100420.D Vial: 20
Acq On : 4 Oct 2008 6:49 pm Operator: BR
Sample : ,MSD,ME0809B67-05AMSD,10, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 8:23 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100606.D Vial: 6
Acq On : 6 Oct 2008 10:07 am Operator: BR
Sample : ,samp,me0810086-01a,10, Inst : Instrument #1
Misc : 1311_v Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 11:59:03 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

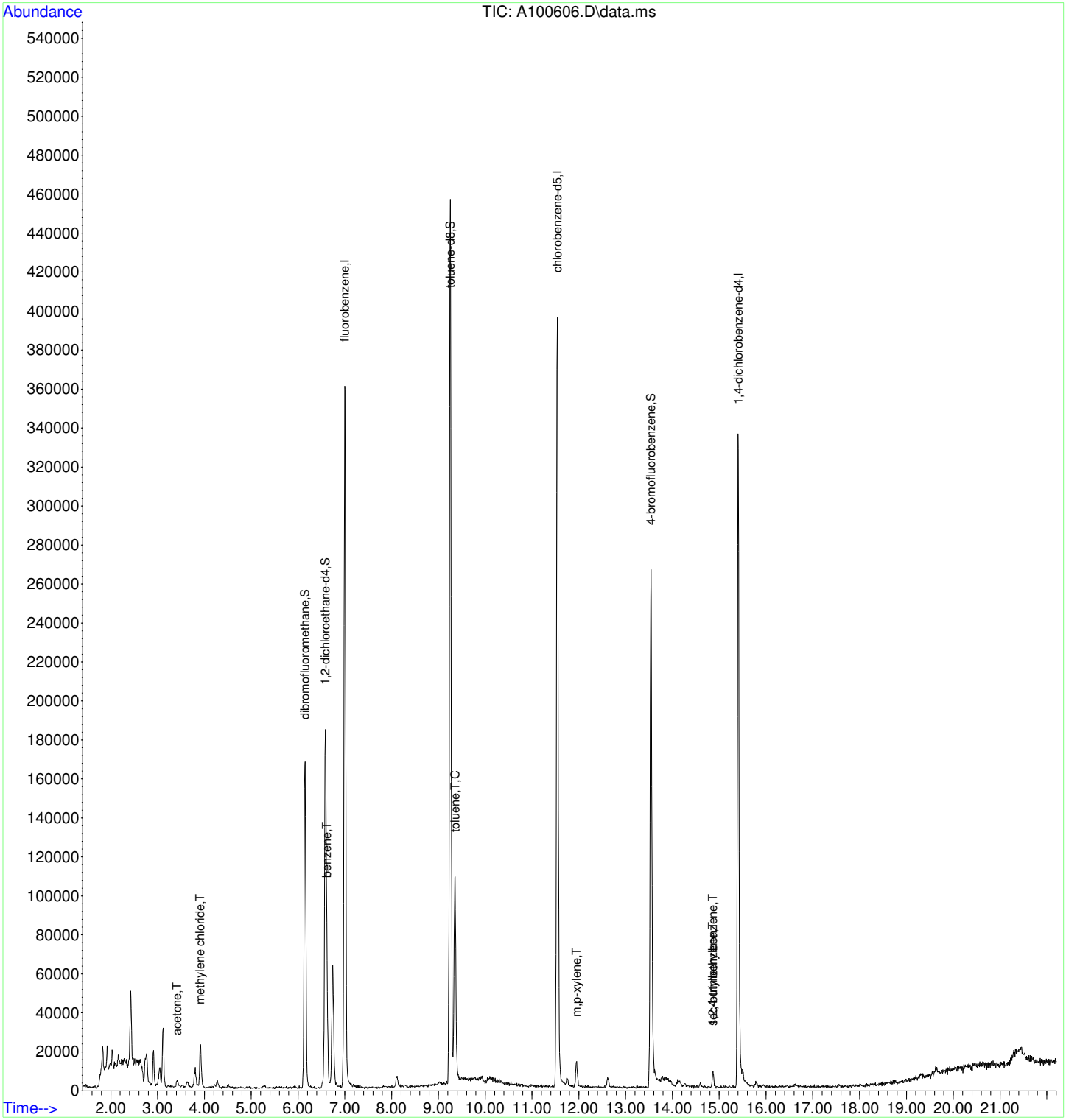
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.997	96	412613	50.00	ug/L	0.00
41) chlorobenzene-d5	11.539	117	322107	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.407	152	129272	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.145	113	133061	52.38	ug/L	0.00
30) 1,2-dichloroethane-d4	6.583	65	163679	52.25	ug/L	0.00
44) toluene-d8	9.253	98	403704	49.70	ug/L	0.00
63) 4-bromofluorobenzene	13.540	95	130281	43.52	ug/L	0.00
Target Compounds						Qvalue
11) acetone	3.415	43	7000	7.24	ug/L	93
13) methylene chloride	3.907	84	9168	3.34	ug/L	98
31) benzene	6.614	78	55086	6.30	ug/L	93
45) toluene	9.356	92	61263	12.39	ug/L	95
56) m,p-xylene	11.953	106	5840	1.82	ug/L #	57
72) sec-butylbenzene	14.866	105	6417	1.33	ug/L #	61
73) 1,2,4-trimethylbenzene	14.866	105	6417	1.45	ug/L #	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100606.D Vial: 6
Acq On : 6 Oct 2008 10:07 am Operator: BR
Sample : ,samp,me0810086-01a,10, Inst : Instrument #1
Misc : 1311_v Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 11:59:03 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100608.D Vial: 8
Acq On : 6 Oct 2008 11:11 am Operator: BR
Sample : ,ms,me0810086-01ams,10, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 11:59:18 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	401020	50.00	ug/L	0.00
41) chlorobenzene-d5	11.543	117	325233	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	171722	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	129736	52.54	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	161801	53.15	ug/L	0.00
44) toluene-d8	9.251	98	420820	51.31	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	148703	49.19	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.509	85	22248	18.04	ug/L	90
3) chloromethane	1.722	50	38949	21.33	ug/L	95
4) vinyl chloride	1.844	62	31988	16.39	ug/L	89
6) bromomethane	2.233	94	7649	9.79	ug/L	88
7) chloroethane	2.367	64	20741	18.25	ug/L	91
8) trichlorofluoromethane	2.652	101	62656	17.55	ug/L	99
9) acrolein	3.218	56	10138	79.09	ug/L	81
10) 1,1-dichloroethene	3.285	96	24328	13.10	ug/L #	80
11) acetone	3.406	43	23032	24.50	ug/L	90
12) carbon disulfide	3.534	76	68470	11.92	ug/L	96
13) methylene chloride	3.917	84	55919	20.98	ug/L	89
14) acrylonitrile	4.258	53	18458	17.66	ug/L	92
15) trans-1,2-dichloroethene	4.221	96	36395	17.40	ug/L	89
16) methyl-t-butyl ether	4.209	73	127673	18.95	ug/L	84
17) acetonitrile	3.784	41	12221	29.25	ug/L #	89
19) 1,1-dichloroethane	4.763	63	84472	19.89	ug/L	98
20) vinyl acetate	4.836	43	91643	32.30	ug/L	94
21) cis-1,2-dichloroethene	5.511	96	43777	18.20	ug/L #	82
22) 2,2-dichloropropane	5.468	77	59461	17.62	ug/L #	88
23) 2-butanone	5.547	72	4075	15.88	ug/L #	77
25) chloroform	5.936	83	88459	20.84	ug/L	97
27) 1,1,1-trichloroethane	6.119	97	60459	17.16	ug/L	95
29) carbon tetrachloride	6.326	117	49117	15.69	ug/L	95
31) benzene	6.611	78	216496	25.47	ug/L	99
32) 1,1-dichloropropene	6.338	75	39924	13.84	ug/L #	91
33) 1,2-dichloroethane	6.690	62	83028	20.49	ug/L	97
34) trichloroethene	7.505	95	35841	16.48	ug/L #	80
36) 1,2-dichloropropane	7.834	63	48435	19.16	ug/L	98
37) methyl methacrylate	7.846	41	38996	16.01	ug/L #	58
38) dibromomethane	8.028	93	34074	20.65	ug/L	90
39) bromodichloromethane	8.259	83	68900	19.93	ug/L	93
40) 2-chloroethyl vinyl ether	8.697	63	16320	14.59	ug/L	97
42) cis-1,3-dichloropropene	8.898	75	68157	18.79	ug/L	92
43) 4-methyl-2-pentanone	9.129	43	41336	16.58	ug/L	95
45) toluene	9.354	92	159197	31.89	ug/L	94
46) 1,1,2-trichloroethane	10.047	83	39051	20.43	ug/L	94
47) 1,3-dichloropropane	10.303	76	81186	20.73	ug/L	97
48) tetrachloroethene	10.187	164	27197	15.06	ug/L	86
49) trans-1,3-dichloropropene	9.768	75	62760	19.91	ug/L	95
50) 2-hexanone	10.430	43	22423	14.74	ug/L	93
51) dibromochloromethane	10.662	129	51457	20.13	ug/L	96
52) 1,2-dibromoethane	10.814	107	45526	19.78	ug/L	96
53) chlorobenzene	11.586	112	109793	19.68	ug/L #	83

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100608.D Vial: 8
Acq On : 6 Oct 2008 11:11 am Operator: BR
Sample : ,ms,me0810086-01ams,10, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 11:59:18 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

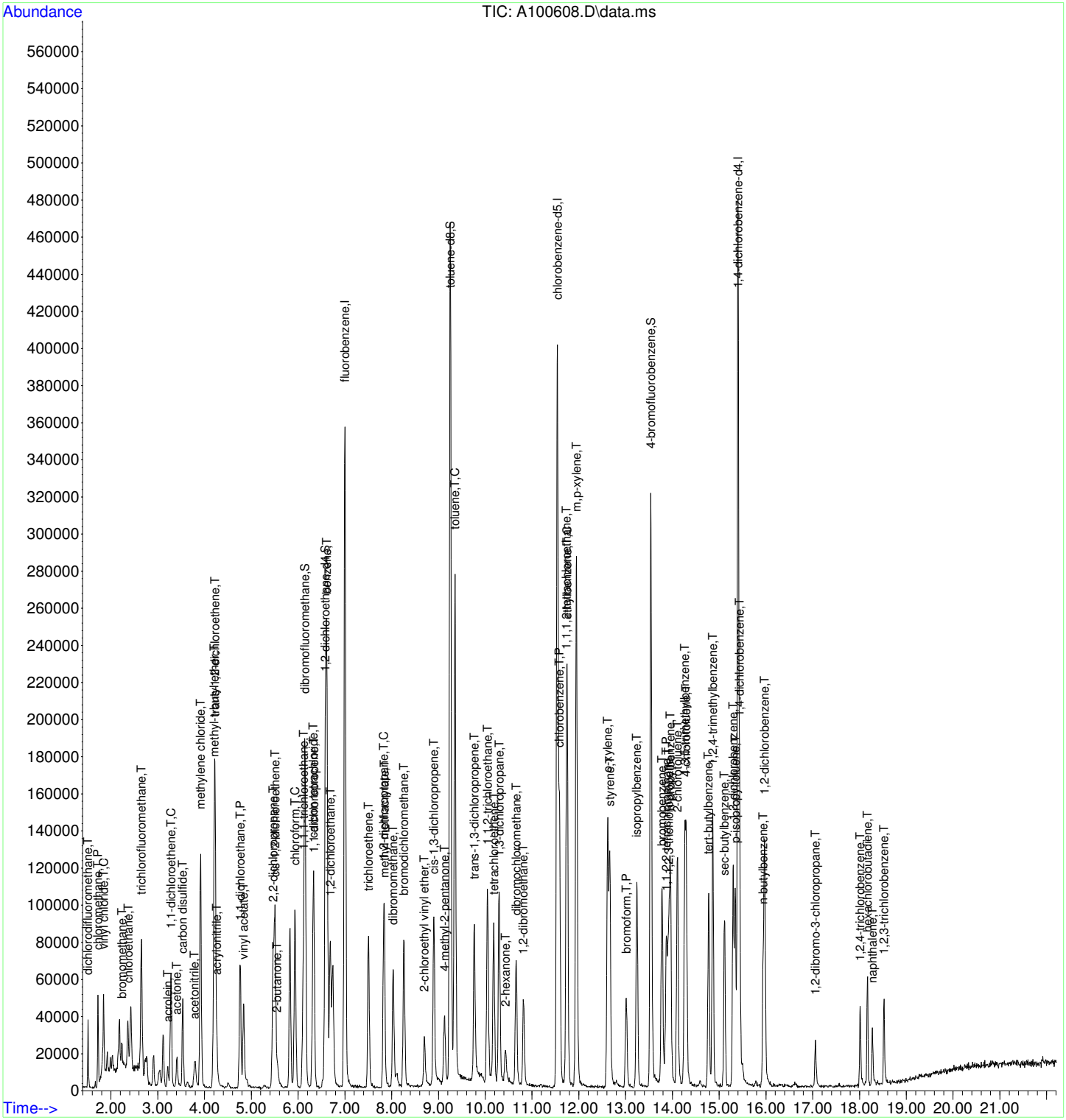
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
54) 1,1,1,2-tetrachloroethane	11.738	131	47078	20.36 ug/L	96
55) ethylbenzene	11.750	91	148714	17.42 ug/L	86
56) m,p-xylene	11.951	106	120944	37.30 ug/L #	76
58) o-xylene	12.620	106	56736	17.78 ug/L #	84
59) styrene	12.662	104	96667	18.14 ug/L #	84
60) isopropylbenzene	13.240	105	104845	16.48 ug/L #	90
61) bromobenzene	13.775	156	48012	18.84 ug/L #	71
62) bromoform	13.015	173	36826	19.18 ug/L	93
64) 1,2,3-trichloropropane	13.921	75	49213	19.93 ug/L	88
65) n-propylbenzene	13.952	91	133099	15.76 ug/L	92
66) 2-chlorotoluene	14.110	91	96543	17.18 ug/L #	83
67) 4-chlorotoluene	14.292	91	111941	17.99 ug/L #	82
68) 1,3,5-trimethylbenzene	14.268	105	96509	16.92 ug/L	88
70) 1,1,2,2-tetrachloroethane	13.872	83	55943	20.21 ug/L	98
71) tert-butylbenzene	14.773	119	64104	14.28 ug/L #	83
72) sec-butylbenzene	15.113	105	82299	12.86 ug/L #	89
73) 1,2,4-trimethylbenzene	14.864	105	111117	18.91 ug/L	89
74) 1,3-dichlorobenzene	15.302	146	69270	18.04 ug/L	93
75) p-isopropyltoluene	15.344	119	78013	15.30 ug/L	89
77) 1,4-dichlorobenzene	15.435	146	74750	18.20 ug/L	94
78) 1,2-dichlorobenzene	15.971	146	69907	18.29 ug/L	92
79) n-butylbenzene	15.940	91	53871	12.49 ug/L	91
80) 1,2-dibromo-3-chloropr...	17.059	75	7367	17.52 ug/L #	62
81) 1,2,4-trichlorobenzene	18.014	180	16968	11.43 ug/L	95
82) hexachlorobutadiene	18.172	225	12212	13.10 ug/L	90
83) naphthalene	18.275	128	28362	10.37 ug/L	100
84) 1,2,3-trichlorobenzene	18.525	180	17597	13.39 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100608.D Vial: 8
Acq On : 6 Oct 2008 11:11 am Operator: BR
Sample : ,ms,me0810086-01ams,10, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 11:59:18 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100608\A100609.D Vial: 9
Acq On : 6 Oct 2008 11:43 am Operator: BR
Sample : ,msd,me0810086-01amsd,10, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 18:33:05 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	404646	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	328816	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.399	152	176632	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	127983	51.37	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	165214	53.78	ug/L	0.00
44) toluene-d8	9.251	98	422135	50.91	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	151895	49.70	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.509	85	24459	19.66	ug/L	98
3) chloromethane	1.722	50	43000	23.34	ug/L	98
4) vinyl chloride	1.844	62	33028	16.77	ug/L	100
6) bromomethane	2.227	94	9177	11.65	ug/L	95
7) chloroethane	2.361	64	22144	19.31	ug/L	93
8) trichlorofluoromethane	2.647	101	66431	18.44	ug/L	92
9) acrolein	3.212	56	9362	72.38	ug/L	94
10) 1,1-dichloroethene	3.279	96	25819	13.78	ug/L #	82
11) acetone	3.407	43	24694	26.03	ug/L	95
12) carbon disulfide	3.535	76	78581	13.56	ug/L	98
13) methylene chloride	3.912	84	59426	22.10	ug/L	94
14) acrylonitrile	4.258	53	19857	18.83	ug/L	91
15) trans-1,2-dichloroethene	4.228	96	37144	17.60	ug/L	91
16) methyl-t-butyl ether	4.210	73	128978	18.98	ug/L	85
17) acetonitrile	3.778	41	11271	26.74	ug/L #	40
19) 1,1-dichloroethane	4.757	63	88268	20.60	ug/L	98
20) vinyl acetate	4.836	43	91877	32.09	ug/L	93
21) cis-1,2-dichloroethene	5.511	96	47162	19.44	ug/L #	78
22) 2,2-dichloropropane	5.468	77	59730	17.54	ug/L #	85
23) 2-butanone	5.566	72	4180	16.14	ug/L #	48
25) chloroform	5.931	83	92574	21.61	ug/L	95
27) 1,1,1-trichloroethane	6.113	97	65633	18.46	ug/L	92
29) carbon tetrachloride	6.326	117	51639	16.35	ug/L	95
31) benzene	6.612	78	225899	26.34	ug/L	99
32) 1,1-dichloropropene	6.332	75	42581	14.63	ug/L #	93
33) 1,2-dichloroethane	6.685	62	87724	21.46	ug/L	99
34) trichloroethene	7.506	95	39419	17.96	ug/L	85
36) 1,2-dichloropropane	7.840	63	50947	19.97	ug/L	92
38) dibromomethane	8.029	93	35531	21.34	ug/L	89
39) bromodichloromethane	8.260	83	69817	20.01	ug/L	98
40) 2-chloroethyl vinyl ether	8.698	63	16491	14.62	ug/L	98
42) cis-1,3-dichloropropene	8.904	75	70512	19.23	ug/L	93
43) 4-methyl-2-pentanone	9.129	43	42650	16.92	ug/L	94
45) toluene	9.354	92	162491	32.19	ug/L	98
46) 1,1,2-trichloroethane	10.048	83	40851	21.14	ug/L	90
47) 1,3-dichloropropane	10.297	76	81463	20.58	ug/L	98
48) tetrachloroethene	10.181	164	30320	16.60	ug/L	99
49) trans-1,3-dichloropropene	9.768	75	66509	20.87	ug/L	96
50) 2-hexanone	10.431	43	22136	14.39	ug/L	94
51) dibromochloromethane	10.656	129	52392	20.27	ug/L	92
52) 1,2-dibromoethane	10.820	107	47954	20.61	ug/L	99
53) chlorobenzene	11.586	112	113889	20.20	ug/L	84
54) 1,1,1,2-tetrachloroethane	11.738	131	47752	20.43	ug/L	93

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100608\A100609.D Vial: 9
Acq On : 6 Oct 2008 11:43 am Operator: BR
Sample : ,msd,me0810086-01amsd,10, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 18:33:05 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

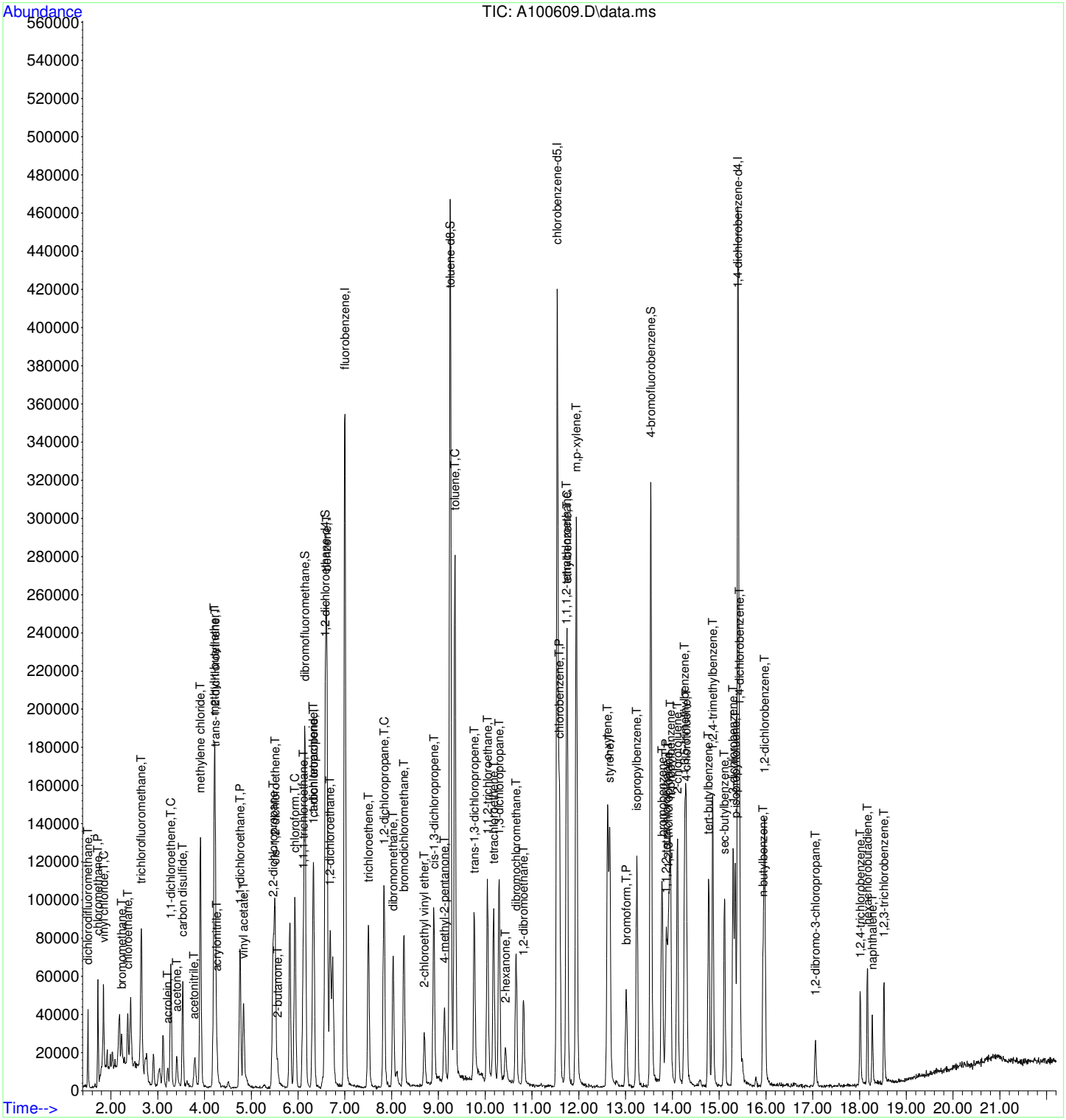
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) ethylbenzene	11.750	91	157132	18.21	ug/L	91
56) m,p-xylene	11.945	106	131539	40.13	ug/L #	80
58) o-xylene	12.614	106	58507	18.14	ug/L #	88
59) styrene	12.656	104	97395	18.08	ug/L	88
60) isopropylbenzene	13.240	105	112630	17.51	ug/L	92
61) bromobenzene	13.782	156	49602	19.26	ug/L #	74
62) bromoform	13.015	173	38639	19.91	ug/L	94
64) 1,2,3-trichloropropane	13.915	75	52729	21.12	ug/L	89
65) n-propylbenzene	13.958	91	139245	16.30	ug/L	92
66) 2-chlorotoluene	14.110	91	103121m2	18.15	ug/L	
67) 4-chlorotoluene	14.298	91	122563	19.48	ug/L #	85
68) 1,3,5-trimethylbenzene	14.262	105	99767	17.30	ug/L #	84
70) 1,1,2,2-tetrachloroethane	13.867	83	57685	20.26	ug/L	98
71) tert-butylbenzene	14.773	119	68385	14.81	ug/L #	82
72) sec-butylbenzene	15.113	105	90590	13.77	ug/L #	92
73) 1,2,4-trimethylbenzene	14.864	105	116667	19.30	ug/L #	85
74) 1,3-dichlorobenzene	15.296	146	72617	18.39	ug/L	91
75) p-isopropyltoluene	15.344	119	80993	15.44	ug/L	87
77) 1,4-dichlorobenzene	15.436	146	77533	18.36	ug/L	92
78) 1,2-dichlorobenzene	15.971	146	75919	19.31	ug/L	93
79) n-butylbenzene	15.940	91	56638	12.76	ug/L	98
80) 1,2-dibromo-3-chloropr...	17.059	75	8403	19.43	ug/L #	68
81) 1,2,4-trichlorobenzene	18.020	180	21026	13.77	ug/L #	80
82) hexachlorobutadiene	18.172	225	13575	14.16	ug/L	90
83) naphthalene	18.276	128	34369	12.22	ug/L	100
84) 1,2,3-trichlorobenzene	18.525	180	20146	14.90	ug/L #	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100608\A100609.D Vial: 9
Acq On : 6 Oct 2008 11:43 am Operator: BR
Sample : ,msd,me0810086-01amsd,10, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 18:33:05 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100707.D Vial: 7
Acq On : 7 Oct 2008 11:17 am Operator: nlt
Sample : ,SAMP,ME0810087-02A,10,RA, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 12:13:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

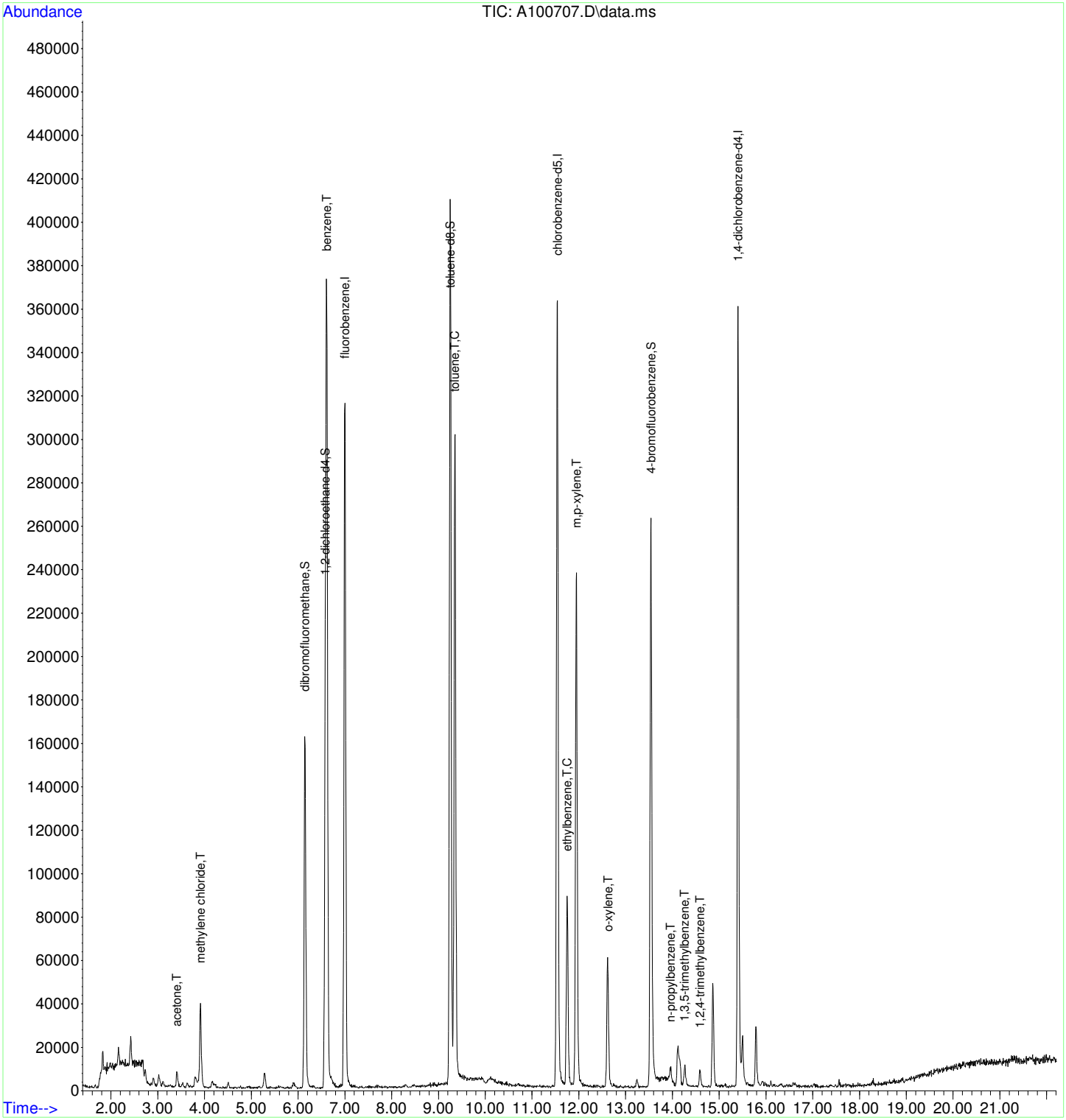
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	367184	50.00	ug/L	0.00
41) chlorobenzene-d5	11.543	117	297819	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	132287	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	119055	52.66	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	151509	54.35	ug/L	0.00
44) toluene-d8	9.251	98	369023	49.14	ug/L	0.00
63) 4-bromofluorobenzene	13.544	95	125200	45.23	ug/L	0.00
Target Compounds						Qvalue
11) acetone	3.407	43	11716	13.61	ug/L	99
13) methylene chloride	3.917	84	15567	6.38	ug/L	99
31) benzene	6.611	78	366865	47.14	ug/L	98
45) toluene	9.348	92	176502	38.61	ug/L	97
55) ethylbenzene	11.750	91	93307	11.94	ug/L	91
56) m,p-xylene	11.951	106	104886	35.33	ug/L #	77
58) o-xylene	12.626	106	26053	8.92	ug/L #	54
65) n-propylbenzene	13.964	91	10265	1.33	ug/L	95
68) 1,3,5-trimethylbenzene	14.262	105	8763	1.68	ug/L	92
73) 1,2,4-trimethylbenzene	14.590	105	7310	1.61	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100707.D Vial: 7
Acq On : 7 Oct 2008 11:17 am Operator: nlt
Sample : ,SAMP,ME0810087-02A,10,RA, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 12:13:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100711.D Vial: 7
Acq On : 7 Oct 2008 1:26 pm Operator: nlt
Sample : ,MS,ME0810087-02AMS,10, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 14:21:48 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.003	96	355976	50.00	ug/L	0.00
41) chlorobenzene-d5	11.540	117	293944	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.402	152	161979	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.146	113	115879	52.87	ug/L	0.00
30) 1,2-dichloroethane-d4	6.584	65	147371	54.53	ug/L	0.00
44) toluene-d8	9.254	98	365365	49.29	ug/L	0.00
63) 4-bromofluorobenzene	13.541	95	136454	49.95	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.512	85	19273	17.61	ug/L	99
3) chloromethane	1.719	50	34551	21.32	ug/L	98
4) vinyl chloride	1.840	62	28548	16.48	ug/L	96
6) bromomethane	2.230	94	6435	9.28	ug/L	89
7) chloroethane	2.357	64	19611	19.44	ug/L	91
8) trichlorofluoromethane	2.643	101	50478	15.93	ug/L	87
9) acrolein	3.221	56	7755	68.16	ug/L #	71
10) 1,1-dichloroethene	3.282	96	21705	13.17	ug/L #	82
11) acetone	3.409	43	30983	37.13	ug/L	95
12) carbon disulfide	3.531	76	62585	12.27	ug/L	95
13) methylene chloride	3.914	84	59451	25.13	ug/L #	85
14) acrylonitrile	4.255	53	19271	20.77	ug/L	90
15) trans-1,2-dichloroethene	4.224	96	33425	18.00	ug/L	90
16) methyl-t-butyl ether	4.206	73	103352	17.29	ug/L	93
17) acetonitrile	3.786	41	8973	24.20	ug/L	97
19) 1,1-dichloroethane	4.759	63	79548	21.11	ug/L	98
20) vinyl acetate	4.838	43	67355	26.74	ug/L	91
21) cis-1,2-dichloroethene	5.507	96	39345	18.43	ug/L #	88
22) 2,2-dichloropropane	5.471	77	52857	17.65	ug/L #	87
23) 2-butanone	5.556	72	4555	20.00	ug/L #	62
25) chloroform	5.933	83	85723	22.75	ug/L	96
27) 1,1,1-trichloroethane	6.116	97	55638	17.79	ug/L	96
29) carbon tetrachloride	6.322	117	46585	16.76	ug/L	98
31) benzene	6.614	78	499779	66.24	ug/L	99
32) 1,1-dichloropropene	6.335	75	36791	14.37	ug/L #	93
33) 1,2-dichloroethane	6.687	62	81364	22.62	ug/L	96
34) trichloroethene	7.508	95	33464	17.33	ug/L #	82
36) 1,2-dichloropropane	7.837	63	42508	18.94	ug/L	86
37) methyl methacrylate	7.837	41	35678	16.50	ug/L #	60
38) dibromomethane	8.037	93	31410	21.44	ug/L	89
39) bromodichloromethane	8.262	83	64315	20.96	ug/L	98
42) cis-1,3-dichloropropene	8.901	75	56906	17.36	ug/L	95
43) 4-methyl-2-pentanone	9.126	43	40539	17.99	ug/L #	88
45) toluene	9.351	92	262316	58.14	ug/L	97
46) 1,1,2-trichloroethane	10.044	83	36942	21.39	ug/L	92
47) 1,3-dichloropropane	10.300	76	72046	20.36	ug/L	99
48) tetrachloroethene	10.184	164	26248	16.08	ug/L	97
49) trans-1,3-dichloropropene	9.770	75	56573	19.86	ug/L	97
50) 2-hexanone	10.439	43	21401	15.57	ug/L	87
51) dibromochloromethane	10.658	129	48586	21.03	ug/L	95
52) 1,2-dibromoethane	10.816	107	42641	20.50	ug/L #	99
53) chlorobenzene	11.589	112	99968	19.83	ug/L #	82
54) 1,1,1,2-tetrachloroethane	11.735	131	42176	20.19	ug/L	92

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100711.D Vial: 7
Acq On : 7 Oct 2008 1:26 pm Operator: nlt
Sample : ,MS,ME0810087-02AMS,10, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 14:21:48 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

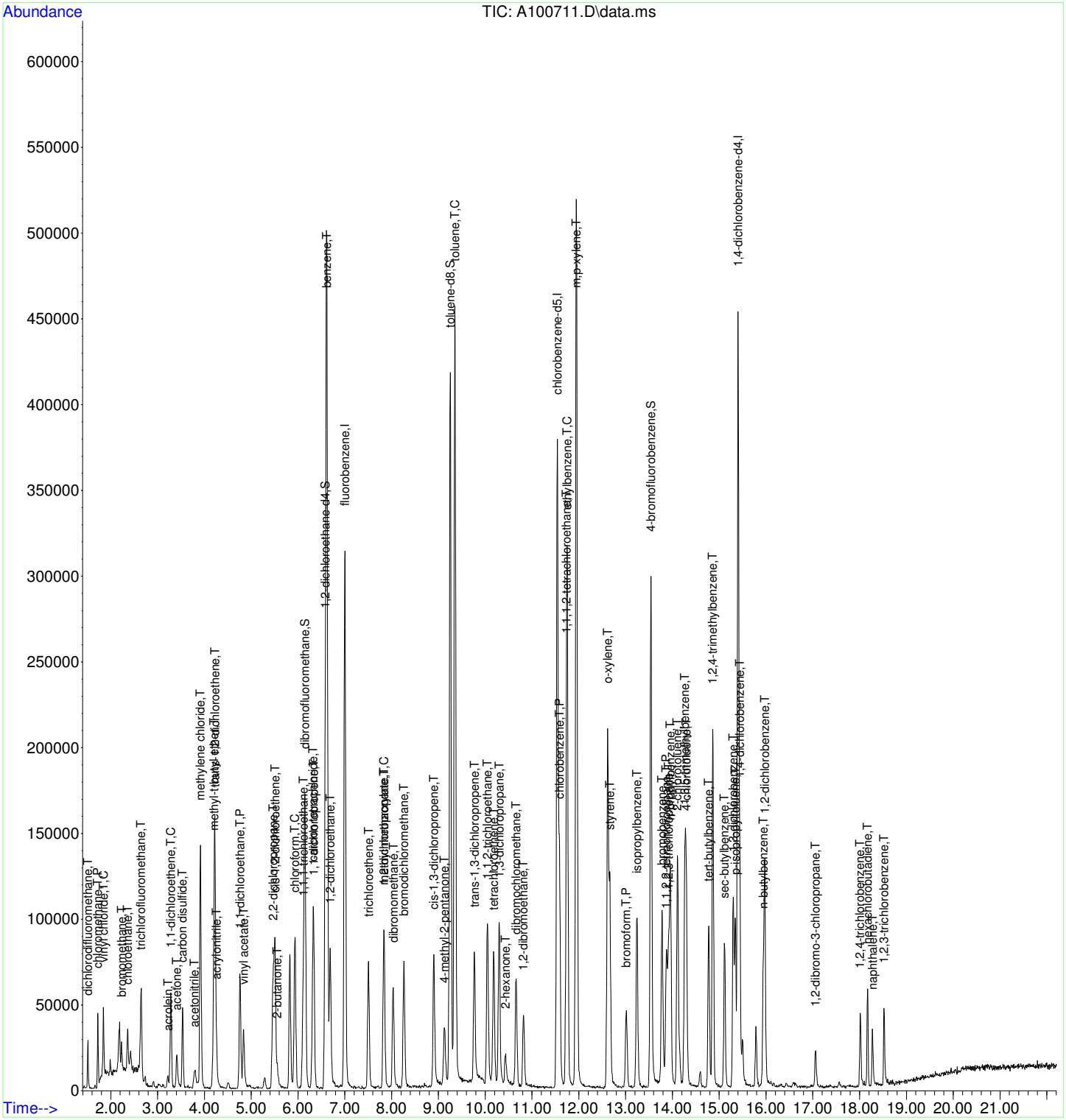
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
55) ethylbenzene	11.753	91	242237	31.40 ug/L	89
56) m,p-xylene	11.948	106	224670	76.67 ug/L #	79
58) o-xylene	12.617	106	82864	28.73 ug/L #	68
59) styrene	12.665	104	92391	19.18 ug/L	86
60) isopropylbenzene	13.243	105	96074	16.71 ug/L #	89
61) bromobenzene	13.778	156	44025	19.12 ug/L #	71
62) bromoform	13.012	173	34756	20.03 ug/L	93
64) 1,2,3-trichloropropane	13.918	75	49103	22.00 ug/L	89
65) n-propylbenzene	13.954	91	135081	17.69 ug/L	93
66) 2-chlorotoluene	14.106	91	94930	18.69 ug/L #	87
67) 4-chlorotoluene	14.295	91	106853	19.00 ug/L #	82
68) 1,3,5-trimethylbenzene	14.265	105	95887	18.60 ug/L #	84
70) 1,1,2,2-tetrachloroethane	13.869	83	53925	20.65 ug/L	98
71) tert-butylbenzene	14.775	119	59124	13.96 ug/L	84
72) sec-butylbenzene	15.110	105	76851	12.74 ug/L #	92
73) 1,2,4-trimethylbenzene	14.861	105	153974	27.78 ug/L	89
74) 1,3-dichlorobenzene	15.298	146	66108	18.25 ug/L	92
75) p-isopropyltoluene	15.347	119	72635	15.10 ug/L	91
77) 1,4-dichlorobenzene	15.438	146	69731	18.00 ug/L	88
78) 1,2-dichlorobenzene	15.973	146	66826	18.54 ug/L	97
79) n-butylbenzene	15.943	91	52112	12.80 ug/L	95
80) 1,2-dibromo-3-chloropr...	17.056	75	7683	19.37 ug/L #	86
81) 1,2,4-trichlorobenzene	18.011	180	17589	12.56 ug/L	85
82) hexachlorobutadiene	18.169	225	12811	14.57 ug/L	89
83) naphthalene	18.278	128	31080	12.05 ug/L	100
84) 1,2,3-trichlorobenzene	18.522	180	17301	13.96 ug/L	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100711.D Vial: 7
Acq On : 7 Oct 2008 1:26 pm Operator: nlt
Sample : ,MS,ME0810087-02AMS,10, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 14:21:48 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100708\A100712.D Vial: 8
Acq On : 7 Oct 2008 1:59 pm Operator: nlt
Sample : ,MSD,ME0810087-02AMSD,10, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 20:13:32 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) fluorobenzene	7.004	96	369614	50.00 ug/L	0.00
41) chlorobenzene-d5	11.541	117	306825	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.402	152	162692	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.146	113	122035	53.62 ug/L	0.00
30) 1,2-dichloroethane-d4	6.584	65	152121	54.21 ug/L	0.00
44) toluene-d8	9.254	98	387064	50.03 ug/L	0.00
63) 4-bromofluorobenzene	13.541	95	139417	48.89 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.512	85	17006	14.96 ug/L	99
3) chloromethane	1.719	50	33349	19.82 ug/L	95
4) vinyl chloride	1.841	62	26513	14.74 ug/L	98
6) bromomethane	2.230	94	7535	10.47 ug/L	90
7) chloroethane	2.364	64	18033	17.22 ug/L	95
8) trichlorofluoromethane	2.650	101	49127	14.93 ug/L	96
9) acrolein	3.209	56	7931	67.13 ug/L	92
10) 1,1-dichloroethene	3.282	96	19017	11.11 ug/L #	85
11) acetone	3.410	43	43141	49.79 ug/L	87
12) carbon disulfide	3.538	76	58018	10.96 ug/L	99
13) methylene chloride	3.915	84	68454	27.87 ug/L	88
14) acrylonitrile	4.255	53	20797	21.59 ug/L	83
15) trans-1,2-dichloroethene	4.225	96	32522	16.87 ug/L	90
16) methyl-t-butyl ether	4.213	73	112803	18.17 ug/L	86
17) acetonitrile	3.781	41	10471	27.19 ug/L #	82
19) 1,1-dichloroethane	4.760	63	77505	19.80 ug/L	98
20) vinyl acetate	4.839	43	75432	28.84 ug/L	99
21) cis-1,2-dichloroethene	5.508	96	40675	18.35 ug/L #	79
22) 2,2-dichloropropane	5.471	77	47355	15.23 ug/L #	88
23) 2-butanone	5.563	72	4517	19.10 ug/L #	91
25) chloroform	5.940	83	83416	21.32 ug/L	96
27) 1,1,1-trichloroethane	6.110	97	49631	15.28 ug/L	98
29) carbon tetrachloride	6.323	117	40683	14.10 ug/L	94
31) benzene	6.615	78	474685	60.59 ug/L	99
32) 1,1-dichloropropene	6.335	75	33126	12.46 ug/L #	94
33) 1,2-dichloroethane	6.688	62	81455	21.81 ug/L	99
34) trichloroethene	7.503	95	31818	15.87 ug/L	92
36) 1,2-dichloropropane	7.837	63	45607	19.57 ug/L	94
38) dibromomethane	8.032	93	32176	21.16 ug/L	88
39) bromodichloromethane	8.263	83	65277	20.49 ug/L	95
42) cis-1,3-dichloropropene	8.901	75	57477	16.80 ug/L	93
43) 4-methyl-2-pentanone	9.132	43	41113	17.48 ug/L #	94
45) toluene	9.351	92	246151	52.27 ug/L	94
46) 1,1,2-trichloroethane	10.051	83	38401	21.30 ug/L	97
47) 1,3-dichloropropane	10.294	76	76693	20.76 ug/L	100
48) tetrachloroethene	10.178	164	24124	14.16 ug/L #	86
49) trans-1,3-dichloropropene	9.765	75	59522	20.02 ug/L	97
50) 2-hexanone	10.434	43	23322	16.25 ug/L	95
51) dibromochloromethane	10.659	129	51112	21.20 ug/L	94
52) 1,2-dibromoethane	10.817	107	44839	20.65 ug/L	97
53) chlorobenzene	11.583	112	100290	19.06 ug/L	85
54) 1,1,1,2-tetrachloroethane	11.741	131	42993	19.71 ug/L	94
55) ethylbenzene	11.753	91	227506	28.25 ug/L	92

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100708\A100712.D Vial: 8
Acq On : 7 Oct 2008 1:59 pm Operator: nlt
Sample : ,MSD,ME0810087-02AMSD,10, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 20:13:32 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

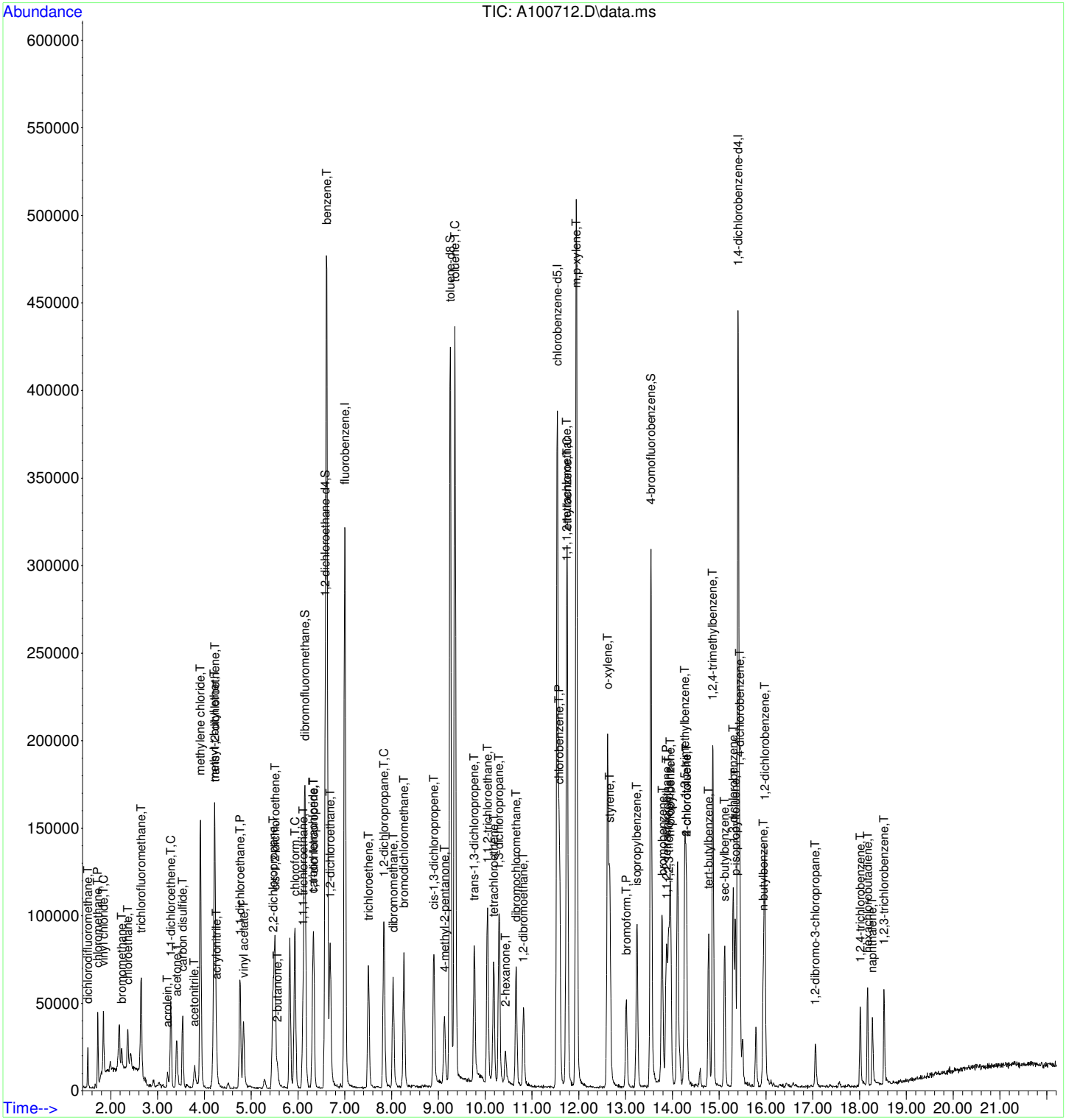
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) m,p-xylene	11.948	106	210175	68.71	ug/L #	80
58) o-xylene	12.617	106	78863	26.20	ug/L #	83
59) styrene	12.660	104	92568	18.41	ug/L	86
60) isopropylbenzene	13.237	105	90423	15.06	ug/L	92
61) bromobenzene	13.785	156	45233	18.82	ug/L #	73
62) bromoform	13.018	173	37471	20.69	ug/L	91
64) 1,2,3-trichloropropane	13.924	75	51145	21.96	ug/L	88
65) n-propylbenzene	13.955	91	126484	15.87	ug/L	92
66) 2-chlorotoluene	14.301	91	106283	20.05	ug/L	91
67) 4-chlorotoluene	14.301	91	106283	18.11	ug/L #	84
68) 1,3,5-trimethylbenzene	14.265	105	94523m2	17.57	ug/L	
70) 1,1,2,2-tetrachloroethane	13.876	83	55705	21.24	ug/L	93
71) tert-butylbenzene	14.776	119	55716	13.10	ug/L #	82
72) sec-butylbenzene	15.116	105	72001	11.88	ug/L	95
73) 1,2,4-trimethylbenzene	14.861	105	147492	26.49	ug/L	89
74) 1,3-dichlorobenzene	15.299	146	65033	17.88	ug/L	92
75) p-isopropyltoluene	15.347	119	64970	13.45	ug/L	87
77) 1,4-dichlorobenzene	15.439	146	72216	18.56	ug/L	91
78) 1,2-dichlorobenzene	15.974	146	70717	19.53	ug/L	96
79) n-butylbenzene	15.943	91	49048	12.00	ug/L	97
80) 1,2-dibromo-3-chloropr...	17.050	75	8796	22.08	ug/L	92
81) 1,2,4-trichlorobenzene	18.017	180	18310	13.02	ug/L	94
82) hexachlorobutadiene	18.175	225	12045	13.64	ug/L	86
83) naphthalene	18.273	128	37034	14.29	ug/L	100
84) 1,2,3-trichlorobenzene	18.522	180	19839	15.93	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100708\A100712.D Vial: 8
Acq On : 7 Oct 2008 1:59 pm Operator: nlt
Sample : ,MSD,ME0810087-02AMSD,10, Inst : Instrument #1
Misc : 624+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 08 20:13:32 2008
Quant Results File: WTR1003.RES

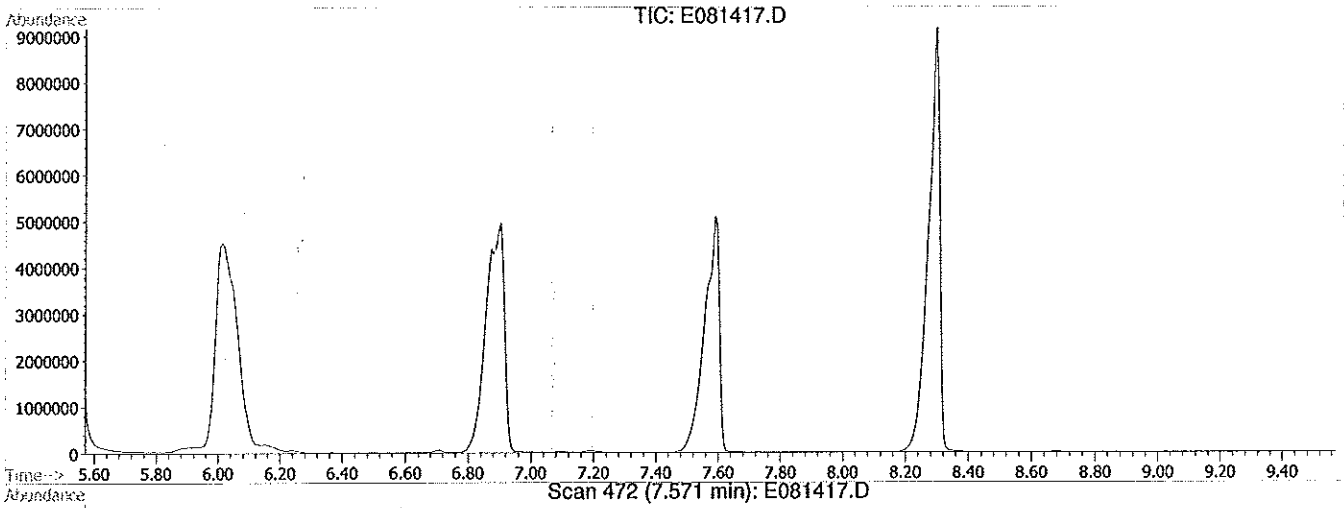
Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

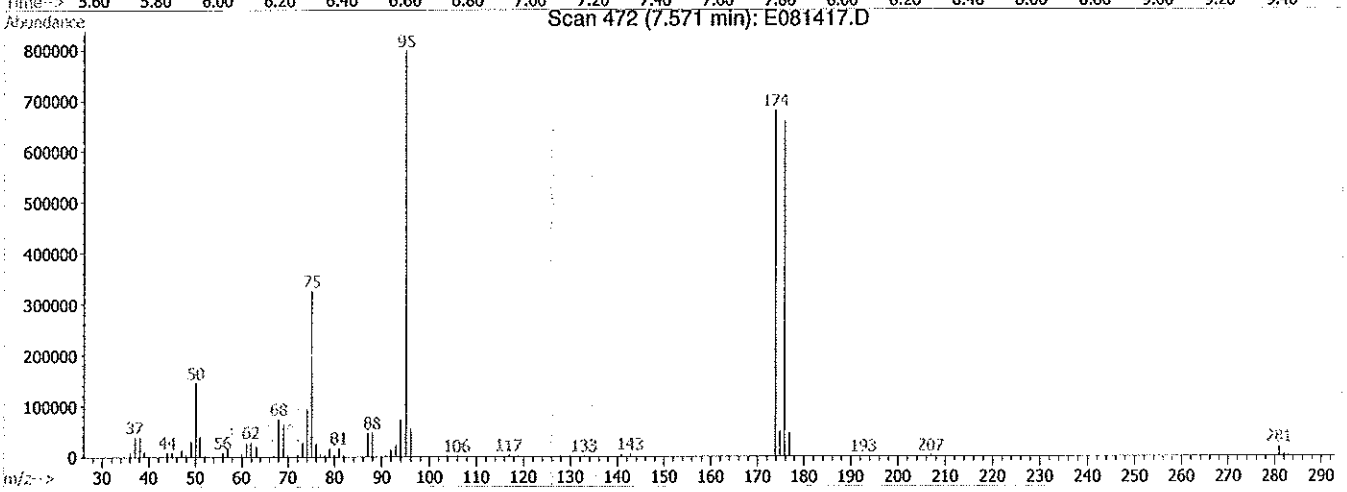


TUNING RAW DATA

BFB

Data File : C:\HPCHEM\4\DATA\E081408\E081417.D Vial: 1
Acq On : 14 Aug 2008 6:50 pm Operator: BR
Sample : ,tune,bfbtune,1, Inst : VOA5
Misc : bfb Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\4\METHODS\SOIL0814.M (RTE Integrator)
Title : Soil ICAL 08/14/08-Misc Included





Spectrum Information: Scan 472

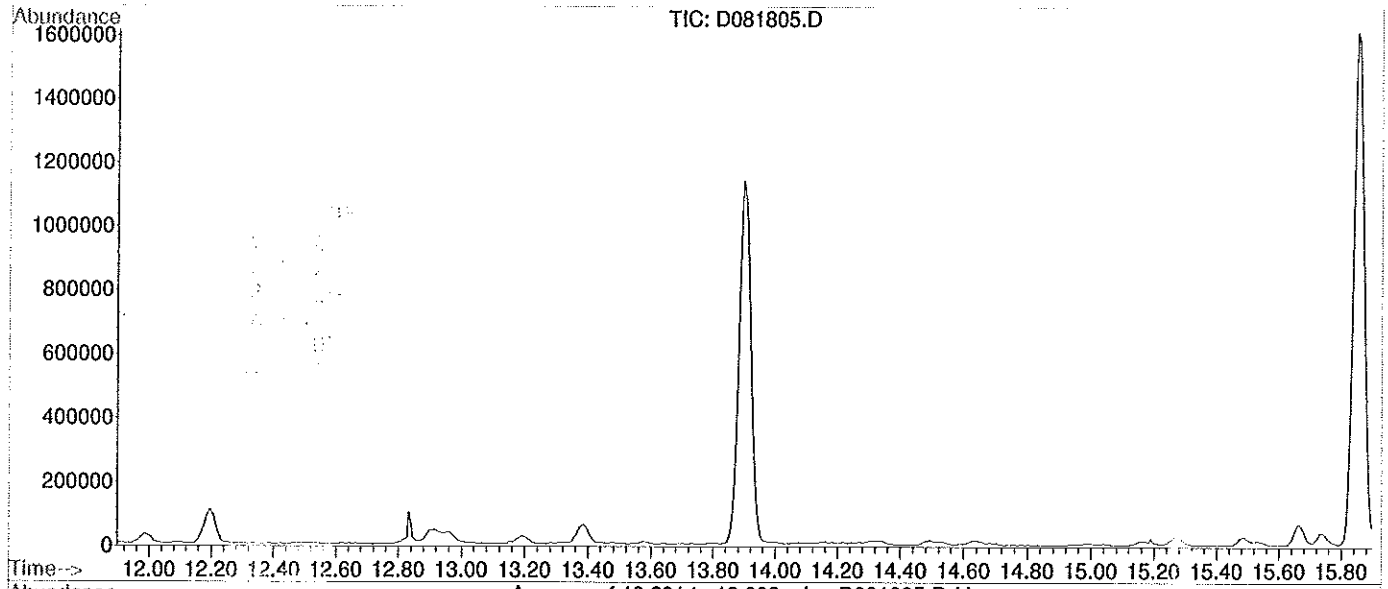
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	146176	PASS
75	95	30	60	40.9	326272	PASS
95	95	100	100	100.0	798016	PASS
96	95	5	9	6.9	54960	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	85.2	679744	PASS
175	174	5	9	7.3	49528	PASS
176	174	95	101	97.0	659520	PASS
177	176	5	9	7.1	46704	PASS

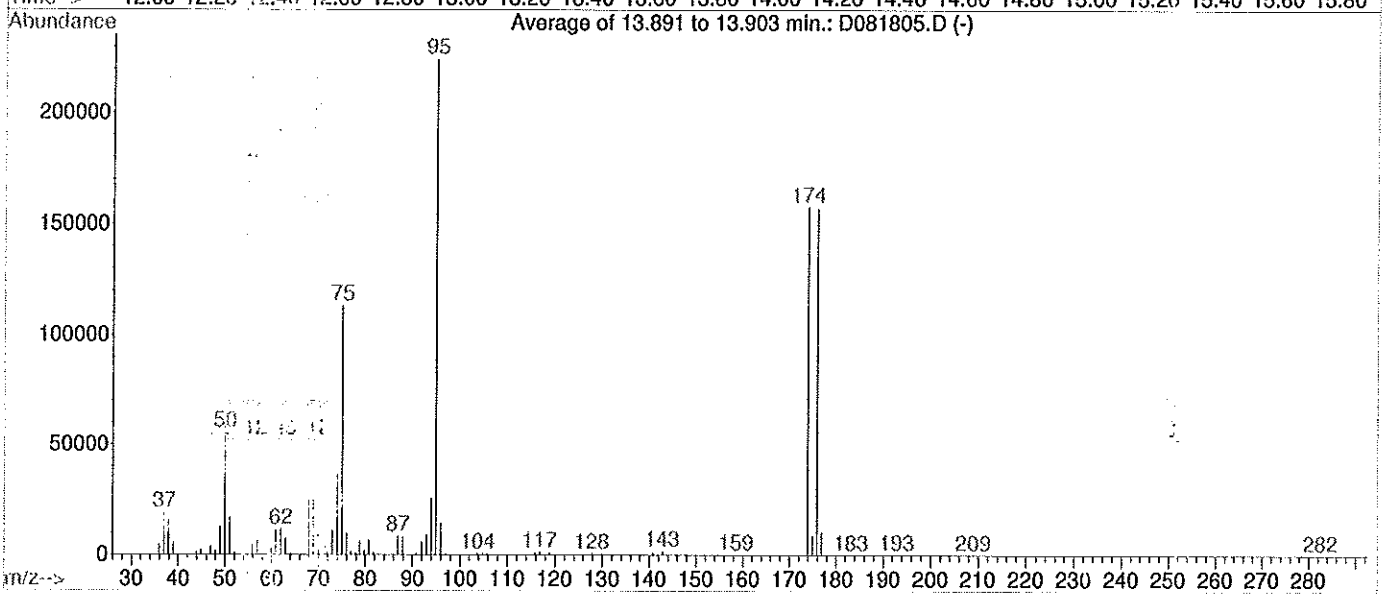
E081417.D SOIL0814.M Thu Aug 14 19:02:02 2008

JN 8/14/08
08/18/08

BFB

Data File : C:\HPCHEM\1\DATA\d081808\D081805.D Vial: 5
Acq On : 18 Aug 2008 2:16 pm Operator: jdb
Sample : ,TUNE,BFB TUNE,1, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\VOA0603.M (RTE Integrator)
Title : VOA ICAL 06/03/08





AutoFind: Scans 2078, 2079, 2080; Background Corrected with Scan 2065

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	55661	PASS
75	95	30	60	50.5	113336	PASS
95	95	100	100	100.0	224405	PASS
96	95	5	9	6.4	14426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	70.3	157696	PASS
175	174	5	9	5.7	8942	PASS
176	174	95	101	99.5	156928	PASS
177	176	5	9	6.6	10314	PASS

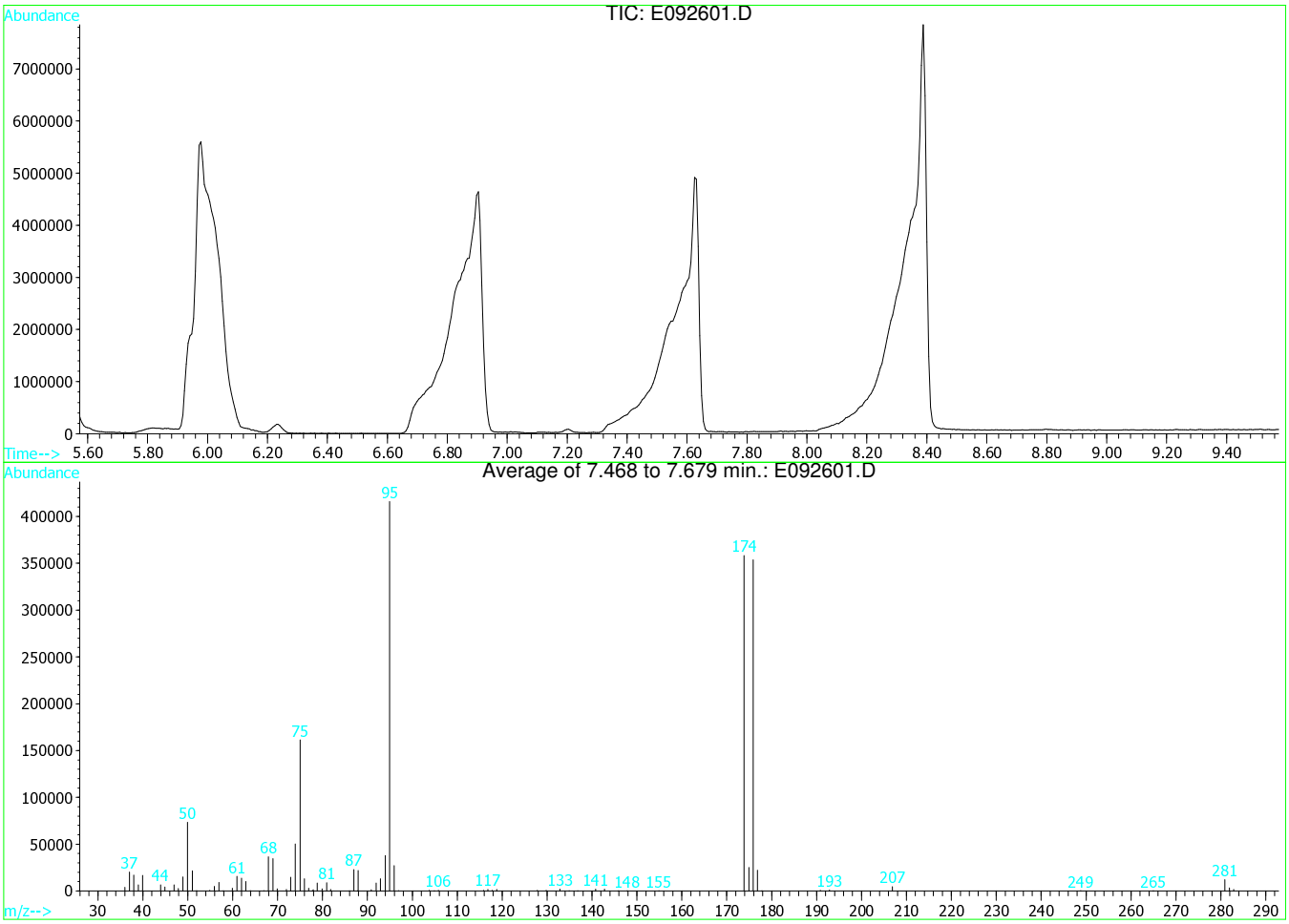
8/18/08
MLT

D081805.D VOA0603.M Mon Aug 18 14:32:37 2008 VOA4

8/18/08

BFB

Data File : C:\HPCHEM\4\DATA\E092608\E092601.D Vial: 1
Acq On : 26 Sep 2008 6:04 am Operator: NLT
Sample : ,TUNE,BFB TUNE,1, Inst : VOA5
Misc : BFB Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included



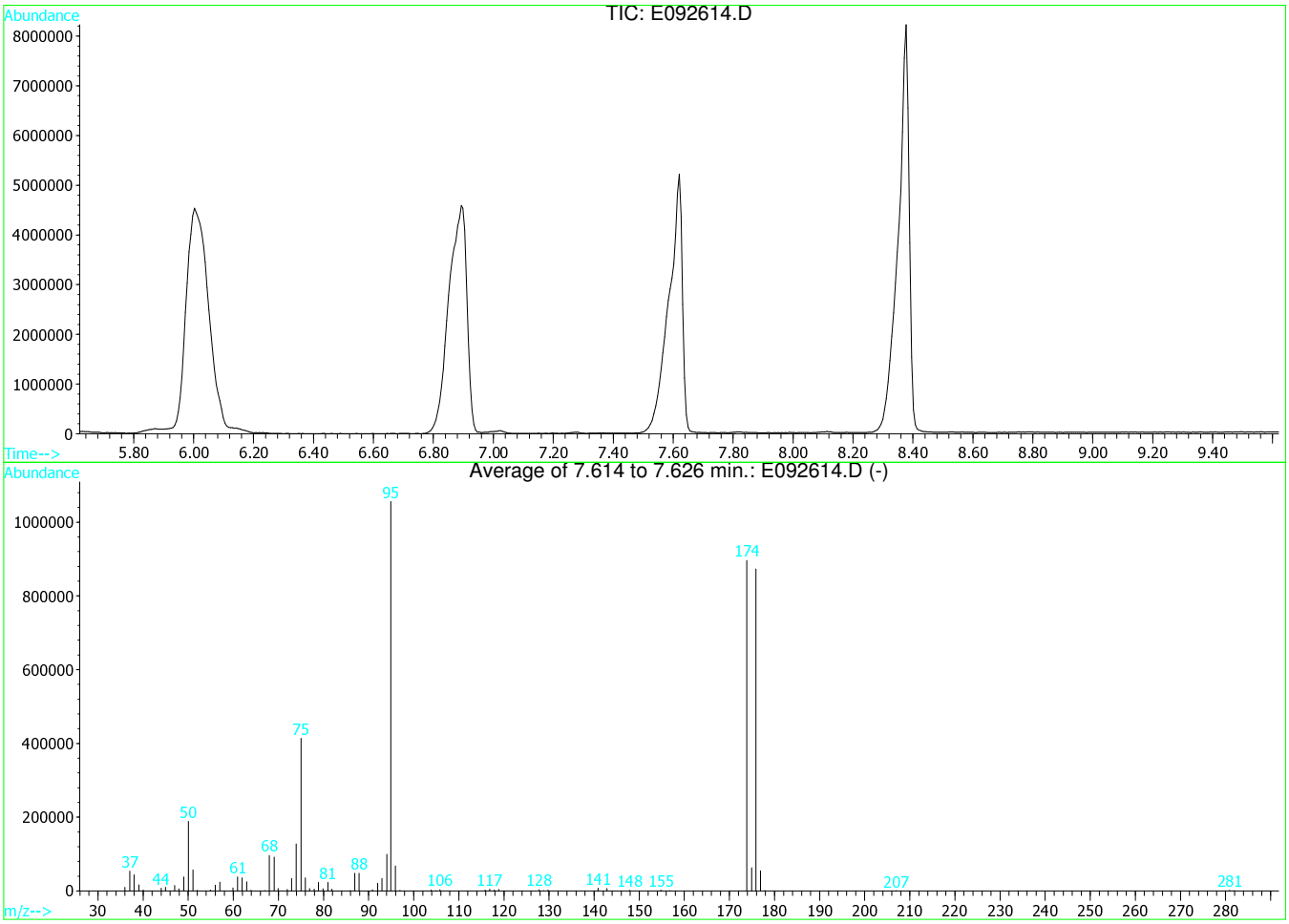
Spectrum Information: Average of 7.468 to 7.679 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	73452	PASS
75	95	30	60	38.8	161292	PASS
95	95	100	100	100.0	416059	PASS
96	95	5	9	6.5	27179	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	86.1	358315	PASS
175	174	5	9	7.0	25219	PASS
176	174	95	101	98.7	353719	PASS
177	176	5	9	6.2	22104	PASS

E092601.D WTR0814.M Fri Sep 26 06:35:02 2008

BFB

Data File : C:\HPCHEM\4\DATA\E092608\E092614.D Vial: 14
Acq On : 26 Sep 2008 2:31 pm Operator: BR
Sample : ,TUNE,BFB TUNE,1, Inst : VOA5
Misc : BFB Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included



AutoFind: Scans 480, 481, 482; Background Corrected with Scan 455

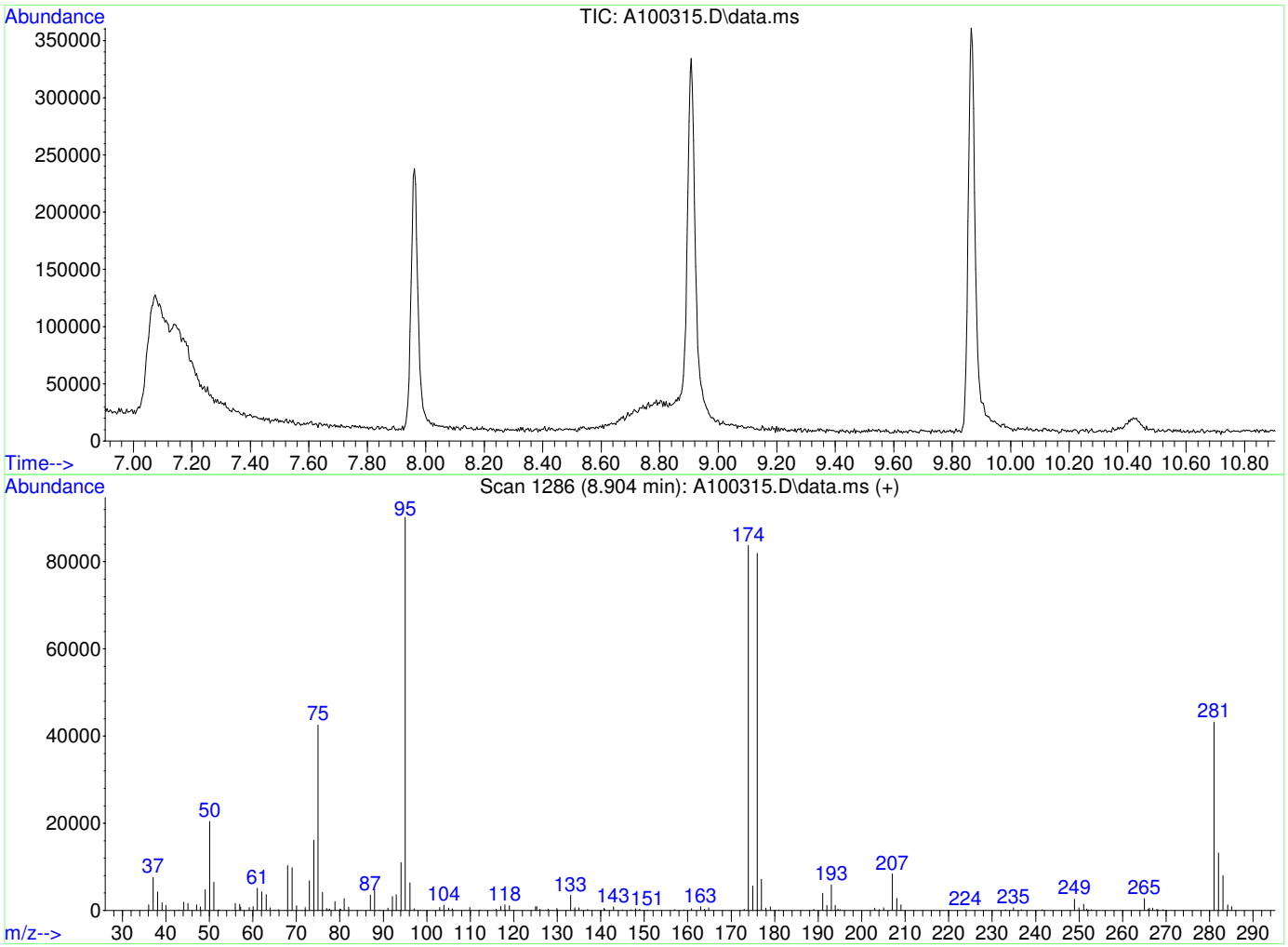
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	189035	PASS
75	95	30	60	39.2	413824	PASS
95	95	100	100	100.0	1056192	PASS
96	95	5	9	6.4	67557	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	84.9	896619	PASS
175	174	5	9	7.0	62869	PASS
176	174	95	101	97.4	872917	PASS
177	176	5	9	6.2	54347	PASS

E092614.D WTR0814.M Fri Sep 26 14:50:00 2008

Data Path : D:\msdchem\1\data\A100308\
Data File : A100315.D
Acq On : 3 Oct 2008 3:30 pm
Operator : BR
Sample : ,tune,bfb tune,1,
Misc : bfb
ALS Vial : 15 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
Last Update : Fri Oct 03 15:00:26 2008



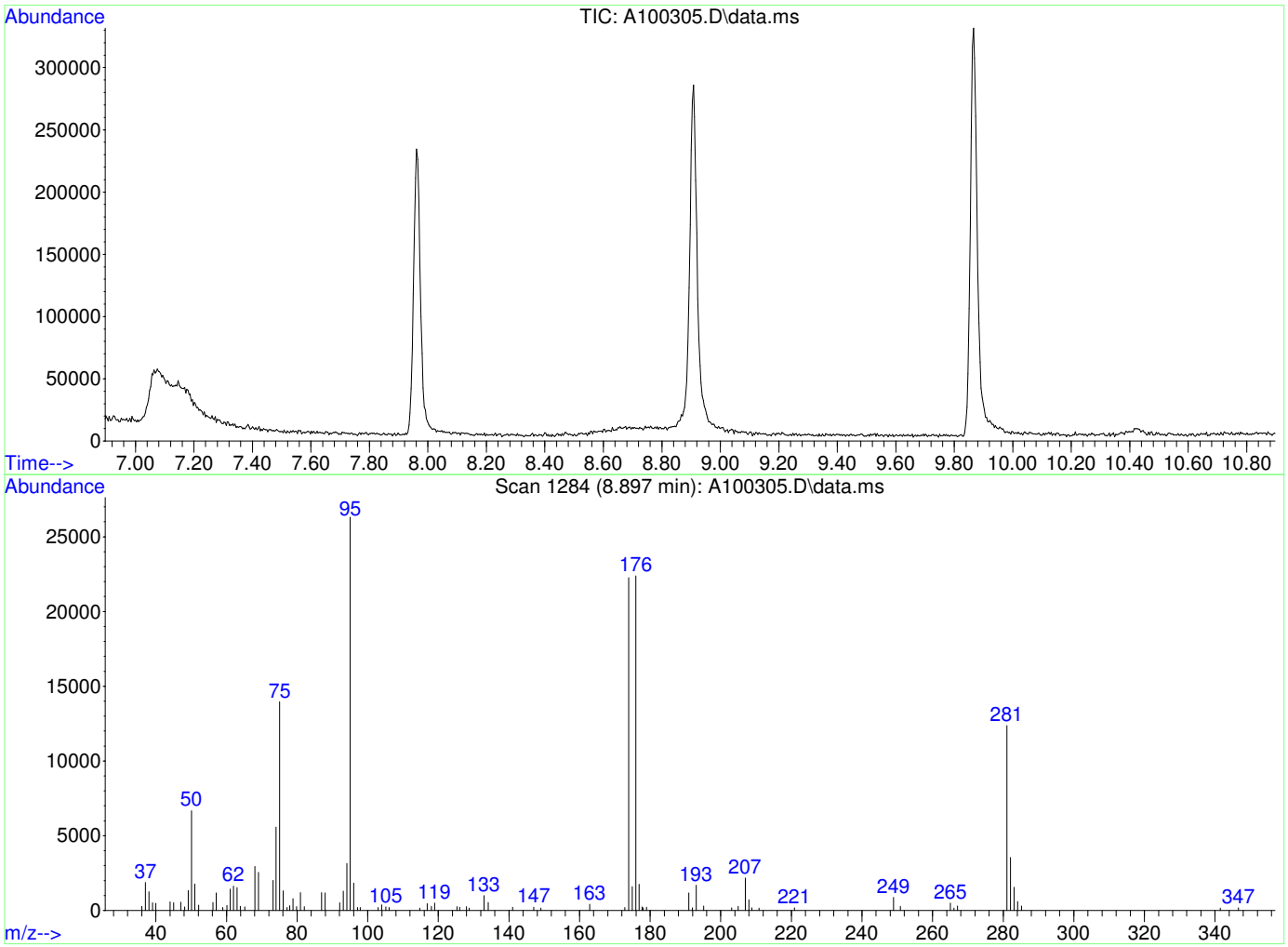
Spectrum Information: Scan 1286

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.6	20388	PASS
75	95	30	60	47.2	42552	PASS
95	95	100	100	100.0	90192	PASS
96	95	5	9	7.1	6386	PASS
173	174	0.00	2	0.3	279	PASS
174	95	50	250	92.8	83688	PASS
175	174	5	9	6.7	5635	PASS
176	174	95	101	97.9	81928	PASS
177	176	5	9	8.7	7156	PASS

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100305.D
Acq On    :  3 Oct 2008   9:09 am
Operator  : BR
Sample    : ,tune,bfb tune,1,
Misc      : bfb
ALS Vial  : 5   Sample Multiplier: 1

Integration File: rteint.p

Method    : C:\msdchem\1\METHODS\WTR1002.M
Title     : 5ml 8260_W ICAL 8260 10/02/08-MISC Included
Last Update  : Thu Oct 02 14:26:15 2008
```



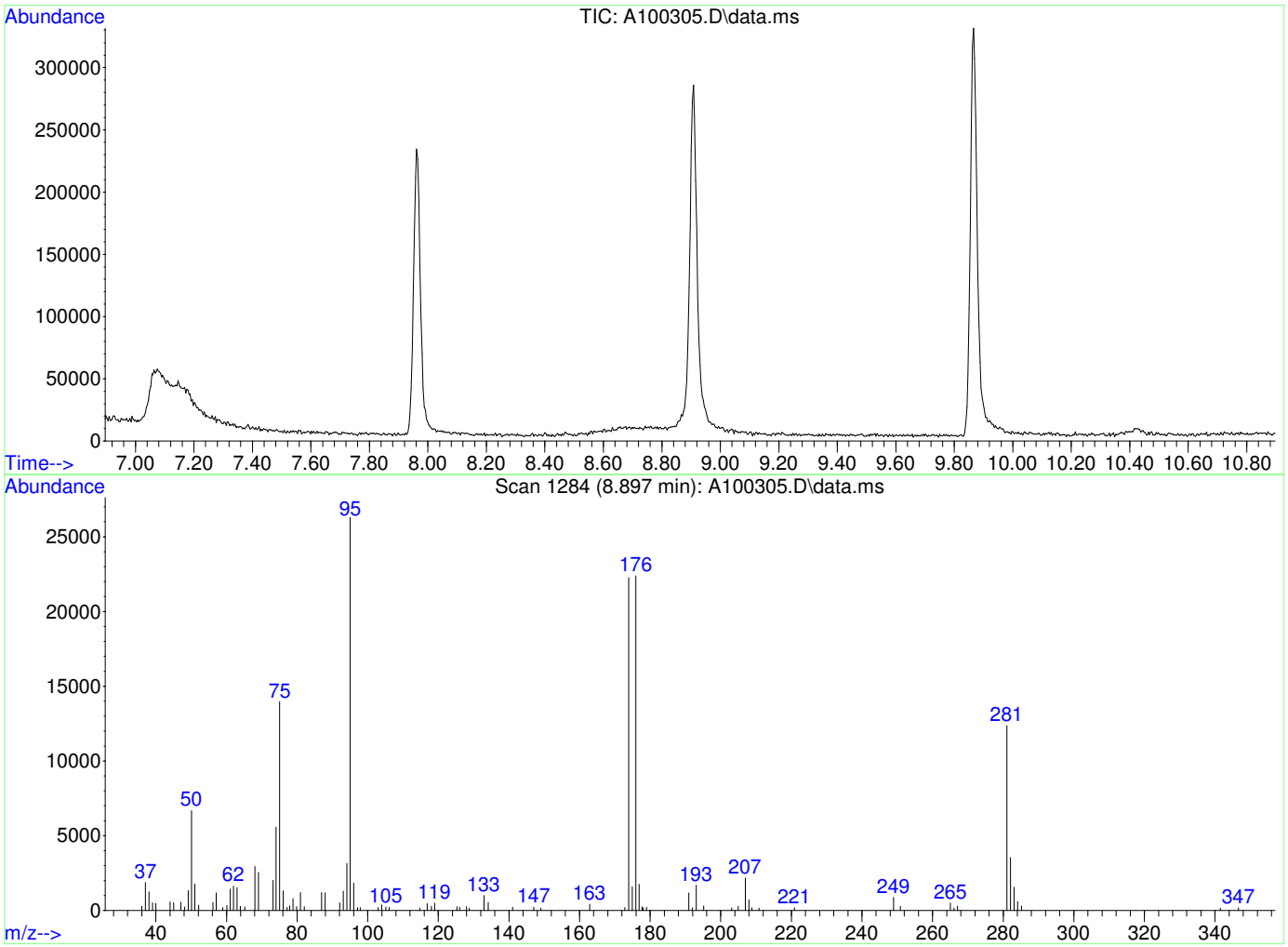
Spectrum Information: Scan 1284

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	6674	PASS
75	95	30	60	53.0	13953	PASS
95	95	100	100	100.0	26304	PASS
96	95	5	9	7.0	1842	PASS
173	174	0.00	2	0.9	195	PASS
174	95	50	250	84.7	22272	PASS
175	174	5	9	7.1	1587	PASS
176	174	95	101	100.5	22376	PASS
177	176	5	9	7.8	1749	PASS

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100305.D
Acq On    :  3 Oct 2008   9:09 am
Operator  : BR
Sample    : ,tune,bfb tune,1,
Misc      : bfb
ALS Vial  : 5   Sample Multiplier: 1

Integration File: rteint.p

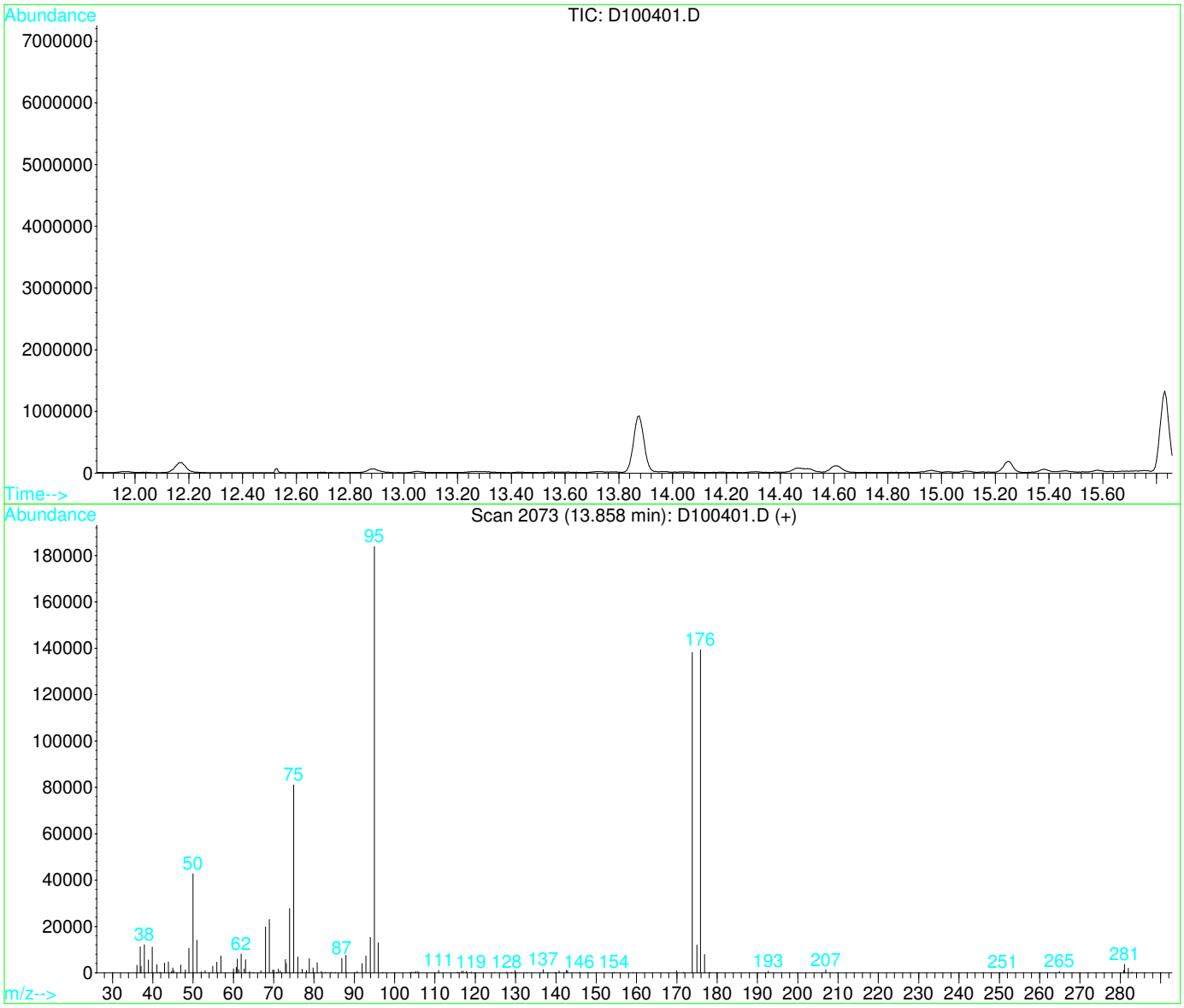
Method    : C:\msdchem\1\METHODS\WTR1002.M
Title     : 5ml 8260_W ICAL 8260 10/02/08-MISC Included
Last Update  : Thu Oct 02 14:26:15 2008
```



Spectrum Information: Scan 1284

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	6674	PASS
75	95	30	60	53.0	13953	PASS
95	95	100	100	100.0	26304	PASS
96	95	5	9	7.0	1842	PASS
173	174	0.00	2	0.9	195	PASS
174	95	50	250	84.7	22272	PASS
175	174	5	9	7.1	1587	PASS
176	174	95	101	100.5	22376	PASS
177	176	5	9	7.8	1749	PASS

```
Data File : C:\HPCHEM\1\DATA\D100408\D100401.D          Vial: 1
Acq On    :  4 Oct 2008   7:30 am                    Operator: BR
Sample    : ,TUNE,BFB TUNE,1,                        Inst    : VOA 4
Misc      : BFB                                      Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title     : VOA ICAL 08/18/08
```



Spectrum Information: Scan 2073

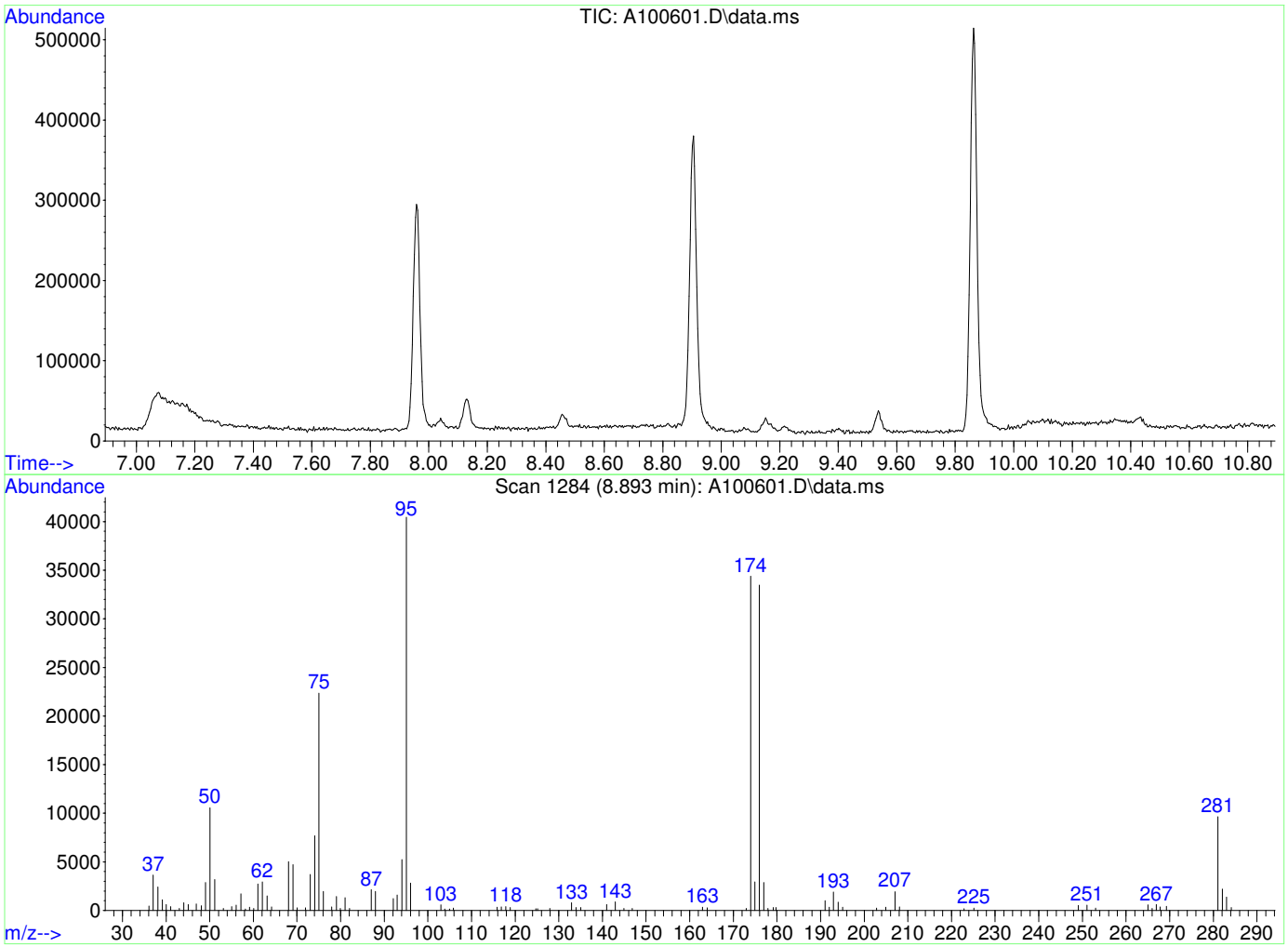
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	42756	PASS
75	95	30	60	44.1	81032	PASS
95	95	100	100	100.0	183892	PASS
96	95	5	9	7.1	12972	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	75.1	138188	PASS
175	174	5	9	8.7	12041	PASS
176	174	95	101	100.9	139432	PASS
177	176	5	9	5.6	7859	PASS

D100401.D VOA0818.M Sat Oct 04 08:23:08 2008 VOA4

Data Path : D:\msdchem\1\data\A100608\
Data File : A100601.D
Acq On : 6 Oct 2008 6:30 am
Operator : BR
Sample : ,tune,bfb tune,1,
Misc : bfb
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
Last Update : Fri Oct 03 15:00:26 2008



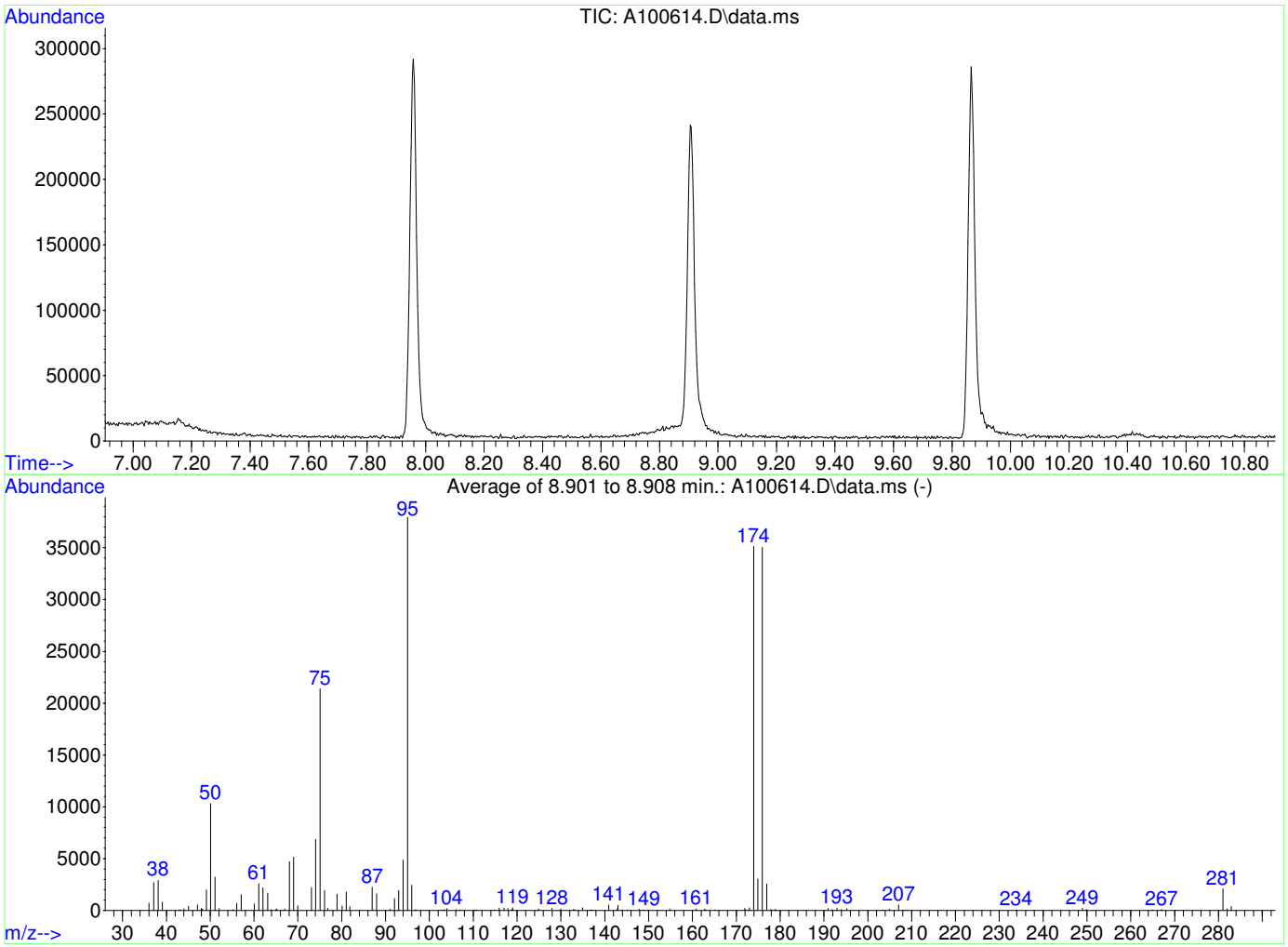
Spectrum Information: Scan 1284

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.1	10576	PASS
75	95	30	60	55.3	22360	PASS
95	95	100	100	100.0	40448	PASS
96	95	5	9	7.0	2820	PASS
173	174	0.00	2	0.6	210	PASS
174	95	50	250	85.0	34384	PASS
175	174	5	9	8.6	2941	PASS
176	174	95	101	97.3	33464	PASS
177	176	5	9	8.6	2882	PASS

Data Path : D:\msdchem\1\data\A100608\
Data File : A100614.D
Acq On : 6 Oct 2008 2:29 pm
Operator : BR
Sample : ,tune,bfb tune,1,
Misc : bfb
ALS Vial : 14 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
Last Update : Fri Oct 03 15:00:26 2008



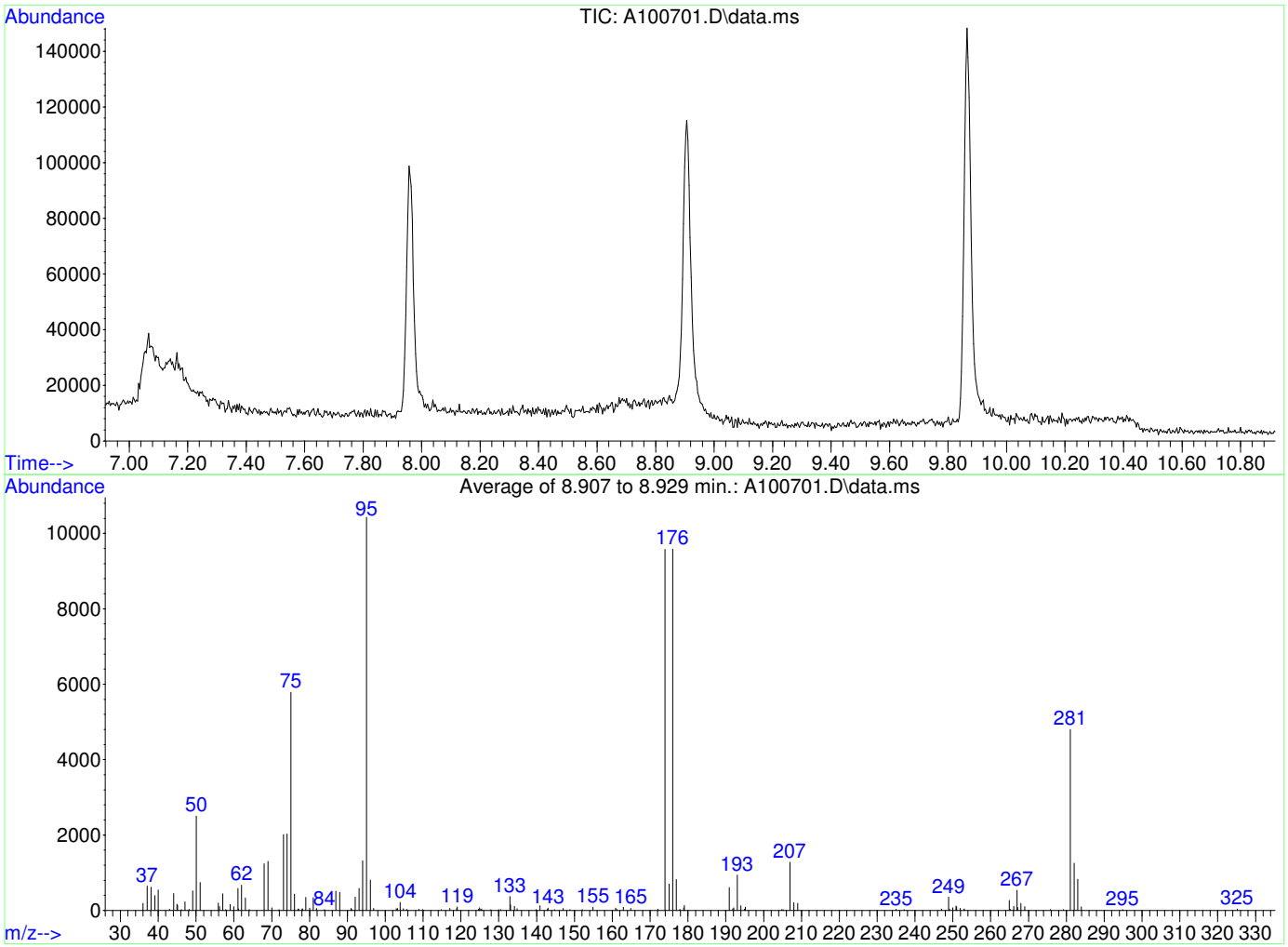
AutoFind: Scans 1286, 1287, 1288; Background Corrected with Scan 1276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.1	10299	PASS
75	95	30	60	56.4	21394	PASS
95	95	100	100	100.0	37936	PASS
96	95	5	9	6.4	2432	PASS
173	174	0.00	2	0.7	260	PASS
174	95	50	250	92.6	35117	PASS
175	174	5	9	8.6	3034	PASS
176	174	95	101	99.7	35024	PASS
177	176	5	9	7.3	2560	PASS

Data Path : D:\msdchem\1\data\A100708\
Data File : A100701.D
Acq On : 7 Oct 2008 7:32 am
Operator : nlt
Sample : ,tune,bfb tune,1,
Misc : bfb
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
Last Update : Fri Oct 03 15:00:26 2008



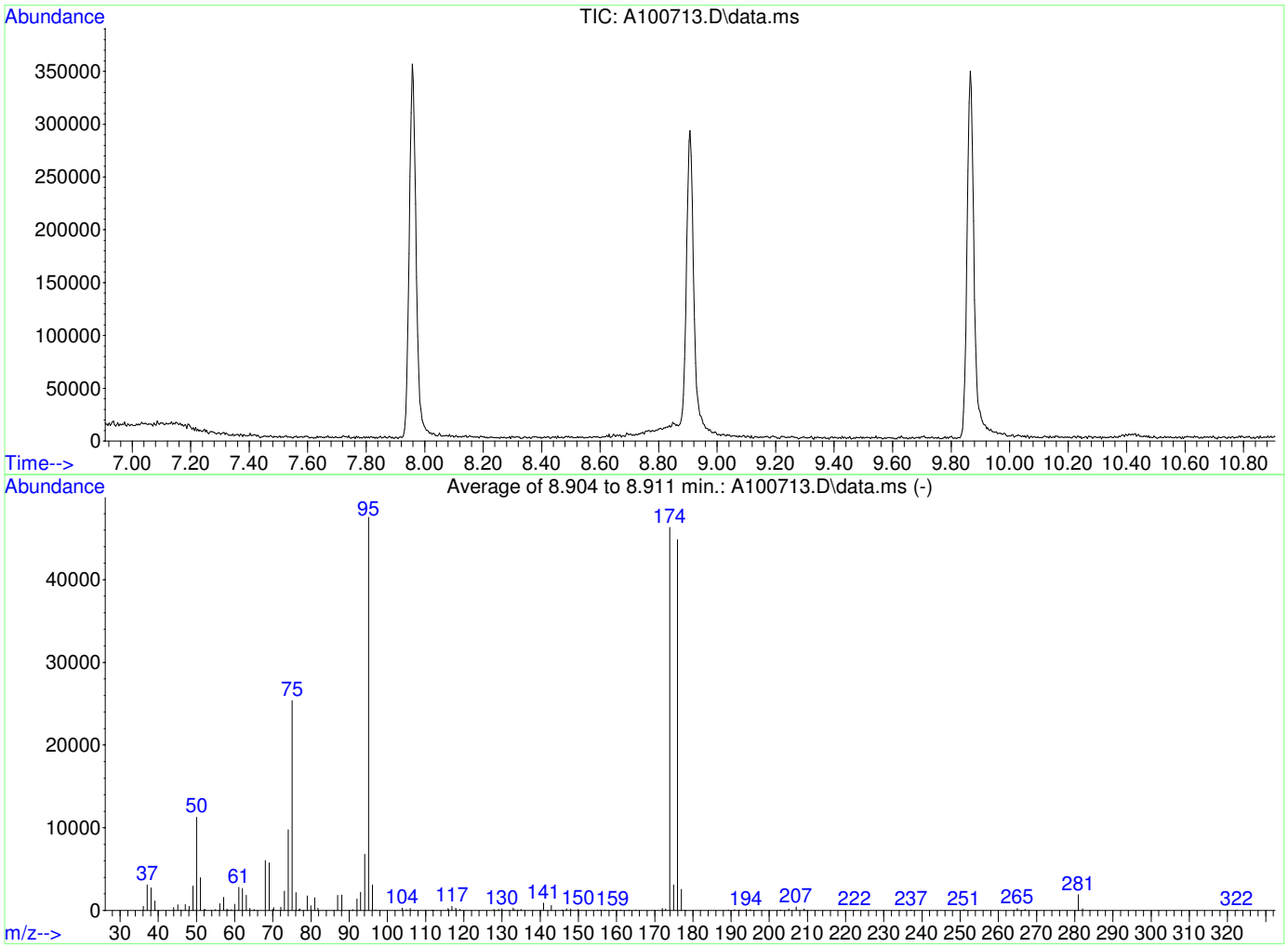
Spectrum Information: Average of 8.907 to 8.929 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	2503	PASS
75	95	30	60	55.5	5784	PASS
95	95	100	100	100.0	10429	PASS
96	95	5	9	7.7	806	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	91.8	9574	PASS
175	174	5	9	7.3	703	PASS
176	174	95	101	100.1	9584	PASS
177	176	5	9	8.6	824	PASS

Data Path : D:\msdchem\1\data\A100708\
Data File : A100713.D
Acq On : 7 Oct 2008 2:34 pm
Operator : nlt
Sample : ,tune,bfb tune,1,
Misc : bfb
ALS Vial : 13 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
Last Update : Fri Oct 03 15:00:26 2008



AutoFind: Scans 1286, 1287, 1288; Background Corrected with Scan 1275

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	11277	PASS
75	95	30	60	53.4	25389	PASS
95	95	100	100	100.0	47549	PASS
96	95	5	9	6.5	3102	PASS
173	174	0.00	2	0.4	186	PASS
174	95	50	250	97.4	46333	PASS
175	174	5	9	6.7	3084	PASS
176	174	95	101	96.8	44834	PASS
177	176	5	9	5.7	2555	PASS

INITIAL CALIBRATION RAW DATA

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration

Avg %RSD = 7.78156

Calibration Files

5	=E081418.D	10	=E081419.D	20	=E081420.D
50	=E081421.D	100	=E081423.D	200	=E081424.D

70 = E081422.D

		Compound	5	10	20	50	100	200	Avg	%RSD
1)	I	fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)	T	dichlorodifluoromet	0.162	0.177	0.129	0.151	0.146	0.139	0.150	10.30
3)	T,P	chloromethane	0.280	0.251	0.218	0.235	0.248	0.244	0.246	7.55
4)	T,C	vinyl chloride	0.269	0.247	0.197	0.225	0.226	0.233	0.232	9.53
5)	T	1,3-butadiene	0.240	0.209	0.168	0.190	0.191	0.184	0.196	11.63
6)	T	bromomethane	0.106	0.102	0.077	0.042	pg/l=70		0.072	45.62
7)	T	chloroethane	0.148	0.123	0.102	0.104	0.100	pg/l=100	0.113	16.86
8)	T	trichlorofluorometh	0.220	0.228	0.188	0.202	0.196	0.187	0.203	7.56
9)	T	acrolein	0.021	0.021	0.020	0.023	0.024	0.023	0.022	6.79
10)	T,C	1,1-dichloroethene	0.126	0.137	0.096	0.111	0.112	0.109	0.114	11.58
11)	T	acetone	pg/l=50		0.128	0.112	0.106	0.094	0.109	11.30
12)	T	carbon disulfide	0.391	0.385	0.308	0.332	0.326	0.323	0.341	9.60
13)	T	methylene chloride	pg/l=10	0.313	0.256	0.269	0.264	0.262	0.272	7.69
14)	T	acrylonitrile	0.143	0.163	0.152	0.174	0.166	0.156	0.161	7.09
15)	T	trans-1,2-dichloroe	0.215	0.219	0.182	0.201	0.199	0.195	0.201	6.02
16)	T	methyl-t-butyl ethe	0.620	0.678	0.646	0.733	0.729	0.715	0.691	6.36
17)	T	acetonitrile	0.044	0.046	0.044	0.048	0.047	0.048	0.047	3.65
18)	T	hexane	0.356	0.271	0.231	0.253	0.240	0.241	0.264	16.18
19)	T,P	1,1-dichloroethane	0.417	0.436	0.385	0.432	0.428	0.431	0.422	4.11
20)	T	vinyl acetate	0.380	0.392	0.377	0.436	0.430	0.448	0.412	7.02
21)	T	cis-1,2-dichloroeth	0.260	0.266	0.239	0.266	0.263	0.262	0.260	3.56
22)	T	2,2-dichloropropane	0.291	0.301	0.254	0.271	0.255	0.254	0.269	7.23
23)	T	2-butanone	0.038	0.037	0.036	0.041	0.041	0.042	0.039	6.08
24)	T	methyl acrylate	0.319	0.344	0.351	0.401	0.396	0.398	0.372	8.99
25)	T,C	chloroform	0.361	0.404	0.364	0.400	0.396	0.399	0.389	4.66
26)	S	dibromofluoromethan	0.317	0.318	0.319	0.330	0.319	0.311	0.319	1.84
27)	T	1,1,1-trichloroetha	0.270	0.279	0.238	0.260	0.247	0.250	0.257	5.41
28)	T	cyclohexane	0.388	0.381	0.317	0.347	0.332	0.329	0.348	7.75
29)	T	carbon tetrachlorid	0.235	0.256	0.215	0.232	0.225	0.226	0.231	5.55
30)	S	1,2-dichloroethane-	0.298	0.305	0.303	0.316	0.306	0.296	0.306	2.58
31)	T	benzene	0.961	0.914	0.802	0.872	0.856	0.865	0.875	5.70
32)	T	1,1-dichloropropene	0.318	0.304	0.242	0.272	0.261	0.266	0.276	9.50
33)	T	1,2-dichloroethane	0.324	0.344	0.336	0.377	0.367	0.362	0.353	5.40
34)	T	trichloroethene	0.226	0.227	0.195	0.211	0.211	0.214	0.214	5.05
35)	T	ethyl acrylate	0.405	0.464	0.499	0.560	0.550	0.560	0.511	11.47
36)	T,C	1,2-dichloropropane	0.265	0.277	0.255	0.290	0.295	0.299	0.281	5.77
37)	T	methyl methacrylate	0.259	0.305	0.309	0.343	0.343	0.347	0.321	10.09
38)	T	dibromomethane	0.166	0.181	0.181	0.204	0.199	0.200	0.190	7.51
39)	T	bromodichloromethan	0.309	0.309	0.311	0.352	0.350	0.354	0.332	6.48

8/15/08

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration

Calibration Files
5 =E081418.D 10 =E081419.D 20 =E081420.D
50 =E081421.D 100 =E081423.D 200 =E081424.D

		Compound	5	10	20	50	100	200	Avg	%RSD
40)	T	2-chloroethyl vinyl pyl-ro	0.049	0.048	0.061	0.064	0.065	0.059		14.10
41)	I	chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------		
42)	T	cis-1,3-dichloropro	0.539	0.551	0.519	0.580	0.587	0.592	0.567	5.36
43)	T	4-methyl-2-pentanon	0.448	0.505	0.494	0.562	0.559	0.566	0.527	8.50
44)	S	toluene-d8	1.193	1.185	1.193	1.200	1.194	1.164	1.191	1.14
45)	T,C	toluene	0.691	0.730	0.634	0.687	0.668	0.683	0.685	4.35
46)	T	1,1,2-trichloroetha	0.260	0.272	0.273	0.313	0.304	0.312	0.291	7.57
47)	T	1,3-dichloropropane	0.525	0.577	0.563	0.616	0.627	0.627	0.595	6.77
48)	T	tetrachloroethene	0.227	0.222	0.184	0.204	0.200	0.202	0.207	6.90
49)	T	trans-1,3-dichlorop	0.414	0.454	0.442	0.508	0.506	0.512	0.477	8.36
50)	T	2-hexanone	0.299	0.312	0.320	0.397	0.402	0.409	0.362	13.63
51)	T	dibromochloromethan	0.361	0.376	0.376	0.443	0.451	0.455	0.415	9.94
52)	T	1,2-dibromoethane	0.354	0.397	0.397	0.444	0.433	0.434	0.413	7.85
53)	T,P	chlorobenzene	0.822	0.845	0.760	0.832	0.834	0.828	0.822	3.45
54)	T	1,1,1,2-tetrachloro	0.281	0.298	0.292	0.326	0.334	0.345	0.316	7.81
55)	T,C	ethylbenzene	1.226	1.231	1.086	1.193	1.193	1.184	1.187	4.04
56)	T	m,p-xylene	0.493	0.481	0.430	0.480	0.468	0.463	0.470	4.25
57)	T	butyl acrylate	0.784	0.874	0.947	1.079	1.085	1.047	0.985	12.16
58)	T	o-xylene	0.478	0.473	0.425	0.485	0.477	0.471	0.470	4.38
59)	T	styrene	0.811	0.834	0.793	0.898	0.884	0.892	0.860	5.45
60)	T	isopropylbenzene	1.013	0.977	0.860	0.982	0.945	0.954	0.958	5.06
61)	T	bromobenzene	0.331	0.330	0.313	0.364	0.369	0.372	0.350	7.01
62)	T,P	bromoform	0.211	0.250	0.255	0.301	0.320	0.322	0.281	15.02
63)	S	4-bromofluorobenzen	0.435	0.436	0.450	0.461	0.463	0.455	0.453	2.97
64)	T	1,2,3-trichloroprop	0.321	0.358	0.358	0.411	0.408	0.402	0.381	9.29
65)	T	n-propylbenzene	1.297	1.245	1.085	1.234	1.218	1.238	1.226	5.47
66)	T	2-chlorotoluene	0.797	0.784	0.711	0.794	0.811	0.797	0.786	4.41
67)	T	4-chlorotoluene	0.872	0.864	0.785	0.892	0.889	0.875	0.869	4.49
68)	T	1,3,5-trimethylbenz	0.863	0.837	0.737	0.857	0.840	0.830	0.831	5.24
69)	I	1,4-dichlorobenzene-d	----------	----------	----------	ISTD	----------	----------		
70)	T,P	1,1,2,2-tetrachloro	1.024	1.158	1.118	1.214	1.206	1.243	1.168	6.54
71)	T	tert-butylbenzene	1.721	1.754	1.449	1.612	1.489	1.583	1.595	7.03
72)	T	sec-butylbenzene	2.537	2.453	2.042	2.229	2.107	2.191	2.257	7.90
73)	T	1,2,4-trimethylbenz	2.221	2.157	1.898	2.076	1.980	2.102	2.073	5.19
74)	T	1,3-dichlorobenzene	1.238	1.256	1.133	1.265	1.223	1.299	1.239	4.24
75)	T	p-isopropyltoluene	2.050	1.891	1.640	1.833	1.742	1.803	1.829	6.94
76)	T	dicyclopentadiene	3.314	3.214	2.811	2.916	2.763	2.801	2.957	7.35
77)	T	1,4-dichlorobenzene	1.322	1.328	1.171	1.294	1.263	1.309	1.280	4.20

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration

Calibration Files
5 =E081418.D 10 =E081419.D 20 =E081420.D
50 =E081421.D 100 =E081423.D 200 =E081424.D

		Compound	5	10	20	50	100	200	Avg	%RSD
78)	T	1,2-dichlorobenzene	1.189	1.188	1.123	1.241	1.197	1.246	1.204	3.64
79)	T	n-butylbenzene	1.723	1.635	1.365	1.496	1.440	1.463	1.520	7.99
80)	T	1,2-dibromo-3-chlor	0.168	0.147	0.136	0.170	0.165	0.164	0.158	7.84
81)	T	1,2,4-trichlorobenz	0.550	0.499	0.462	0.520	0.527	0.560	0.522	6.31
82)	T	hexachlorobutadiene	0.281	0.237	0.192	0.210	0.205	0.212	0.221	13.55
83)	T	naphthalene	1.510	1.509	1.428	1.686	1.715	1.789	1.623	8.50
84)	T	1,2,3-trichlorobenz	0.477	0.467	0.406	0.471	0.469	0.496	0.467	6.16
85)	T	2-Methylnaphthalene	0.417	0.437	0.443	0.495	0.542	0.577	0.494	12.72

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2464145	50.00 ug/L	0.01
41) chlorobenzene-d5	11.28	117	1799952	50.00 ug/L	0.01
69) 1,4-dichlorobenzene-d4	15.18	152	753535	50.00 ug/L	0.01
System Monitoring Compounds					
26) dibromofluoromethane	5.91	113	780493	56.04 ug/L	0.01
30) 1,2-dichloroethane-d4	6.33	65	733572	61.24 ug/L	0.01
44) toluene-d8	9.02	98	2147539	47.93 ug/L	0.01
63) 4-bromofluorobenzene	13.27	95	783552	47.65 ug/L	0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	39971	3.29 ug/L	99
3) chloromethane	1.70	50	69002	4.40 ug/L	97
4) vinyl chloride	1.82	62	66325	4.71 ug/L	99
5) 1,3-butadiene	1.86	39	59191	8.73 ug/L	96
6) bromomethane	2.18	94	26047	5.09 ug/L	94
7) chloroethane	2.30	64	36425	5.45 ug/L	93
8) trichlorofluoromethane	2.58	101	54118	4.82 ug/L	97
9) acrolein	3.06	56	50572	91.56 ug/L	85
10) 1,1-dichloroethene	3.17	96	30973	4.72 ug/L	88
11) acetone	3.23	43	58314	16.37 ug/L	95
12) carbon disulfide	3.42	76	96248	4.88 ug/L	95
13) methylene chloride	3.74	84	82532	5.40 ug/L	92
14) acrylonitrile	4.02	53	351824	59.60 ug/L	97
15) trans-1,2-dichloroethene	4.07	96	52869	4.34 ug/L #	80
16) methyl-t-butyl ether	4.07	73	152796	4.43 ug/L	97
17) acetonitrile	3.55	41	109109	47.95 ug/L	97
18) hexane	4.39	57	87834	7.44 ug/L #	96
19) 1,1-dichloroethane	4.57	63	102789	5.02 ug/L	95
20) vinyl acetate	4.64	43	93591	5.37 ug/L	99
21) cis-1,2-dichloroethene	5.29	96	64002	4.23 ug/L	95
22) 2,2-dichloropropane	5.28	77	71659	5.31 ug/L	97
23) 2-butanone	5.30	72	9354	5.62 ug/L #	53
24) methyl acrylate	5.44	55	78625	5.11 ug/L	94
25) chloroform	5.70	83	89071	4.36 ug/L	94
27) 1,1,1-trichloroethane	5.92	97	66429	4.79 ug/L	94
28) cyclohexane	6.00	56	95688	5.82 ug/L	96

(#) = qualifier out of range (m) = manual integration
E081418.D WTR0814.M Fri Aug 15 10:25:04 2008 8/15/08 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	carbon tetrachloride	6.13	117	57978	4.98 ug/L	97
31)	benzene	6.40	78	236690	5.20 ug/L	98
32)	1,1-dichloropropene	6.13	75	78257	5.65 ug/L	91
33)	1,2-dichloroethane	6.43	62	79735	4.79 ug/L	98
34)	trichloroethene	7.29	95	55709	4.72 ug/L	89
35)	ethyl acrylate	7.44	55	99774	4.76 ug/L	97
36)	1,2-dichloropropane	7.58	63	65385	4.96 ug/L	90
37)	methyl methacrylate	7.77	41	63941	4.85 ug/L	93
38)	dibromomethane	7.76	93	40969	4.10 ug/L	88
39)	bromodichloromethane	7.98	83	76068	4.52 ug/L	93
42)	cis-1,3-dichloropropene	8.63	75	96950	4.48 ug/L	95
43)	4-methyl-2-pentanone	8.86	43	80711	4.85 ug/L	95
45)	toluene	9.13	92	124391	4.11 ug/L	89
46)	1,1,2-trichloroethane	9.76	83	46816	3.95 ug/L	98
47)	1,3-dichloropropane	10.00	76	94524	3.97 ug/L	97
48)	tetrachloroethene	9.97	164	40909	4.63 ug/L	95
49)	trans-1,3-dichloropropene	9.48	75	74536	4.21 ug/L	96
50)	2-hexanone	10.15	43	53740	4.90 ug/L	85
51)	dibromochloromethane	10.37	129	65063	4.44 ug/L	79
52)	1,2-dibromoethane	10.52	107	63637	3.84 ug/L #	93
53)	chlorobenzene	11.32	112	147996	4.15 ug/L	95
54)	1,1,1,2-tetrachloroethane	11.47	131	50640	4.12 ug/L	98
55)	ethylbenzene	11.52	91	220657	4.39 ug/L	96
56)	m,p-xylene	11.72	106	177435	8.72 ug/L	93
57)	butyl acrylate	12.37	55	141150	4.36 ug/L	94
58)	o-xylene	12.37	106	85960	4.18 ug/L	95
59)	styrene	12.39	104	145917	3.99 ug/L	93
60)	isopropylbenzene	13.00	105	182371	4.56 ug/L	96
61)	bromobenzene	13.51	156	59553	4.26 ug/L	92
62)	bromoform	12.71	173	38065	3.66 ug/L	95
64)	1,2,3-trichloropropane	13.61	75	57732	4.26 ug/L #	87
65)	n-propylbenzene	13.71	91	233409	4.62 ug/L	98
66)	2-chlorotoluene	13.85	91	143375	4.38 ug/L	94
67)	4-chlorotoluene	14.04	91	156906m2	4.32 ug/L	
68)	1,3,5-trimethylbenzene	14.04	105	155415	4.61 ug/L	98
70)	1,1,2,2-tetrachloroethane	13.56	83	77128	3.90 ug/L	96
71)	tert-butylbenzene	14.57	119	129659	4.76 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

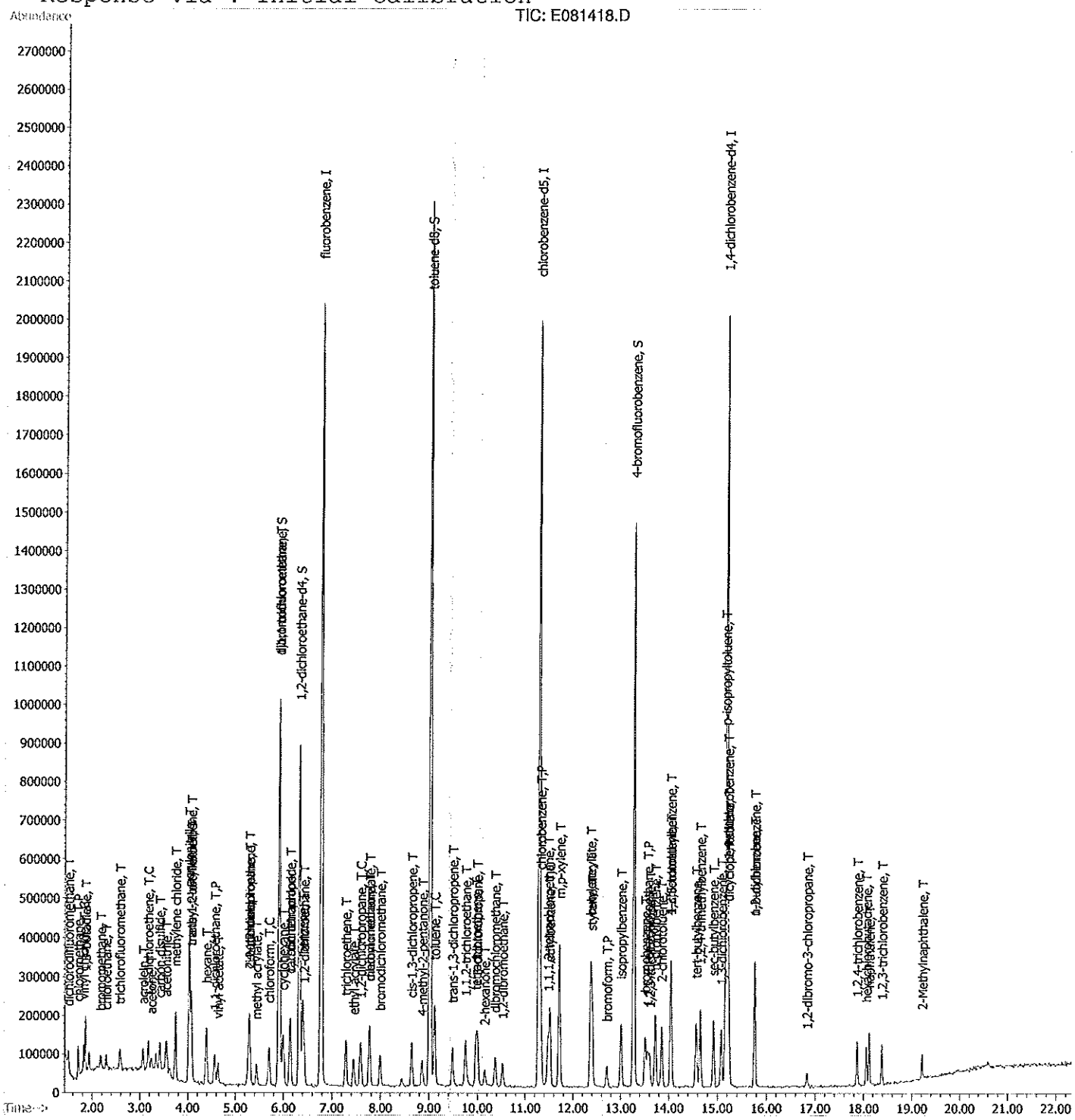
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72)	sec-butylbenzene	14.91	105	191141	4.71 ug/L	99
73)	1,2,4-trimethylbenzene	14.65	105	167397	4.58 ug/L	91
74)	1,3-dichlorobenzene	15.08	146	93256	4.40 ug/L	97
75)	p-isopropyltoluene	15.15	119	154470	5.06 ug/L	99
76)	dicyclopentadiene	15.23	66	249694	5.16 ug/L	98
77)	1,4-dichlorobenzene	15.22	146	99615	4.59 ug/L	90
78)	1,2-dichlorobenzene	15.76	146	89622	4.42 ug/L	98
79)	n-butylbenzene	15.76	91	129825	5.35 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.83	75	12623	6.03 ug/L #	70
81)	1,2,4-trichlorobenzene	17.86	180	41464	5.90 ug/L	98
82)	hexachlorobutadiene	18.05	225	21181	6.98 ug/L	89
83)	naphthalene	18.11	128	113808	6.02 ug/L	100
84)	1,2,3-trichlorobenzene	18.38	180	35925	5.66 ug/L	89
85)	2-Methylnaphthalene	19.22	142	31408	8.33 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081418.D Vial: 2
Acq On : 14 Aug 2008 7:37 pm Operator: BR
Sample : ,ical,ical W 5 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:57 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2219037	50.00 ug/L	0.00
41) chlorobenzene-d5	11.28	117	1633162	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.18	152	656505	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.89	113	705730	56.27 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	677585	62.81 ug/L	0.00
44) toluene-d8	9.01	98	1935016	47.59 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	711304	47.68 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	78441	7.17 ug/L	96
3) chloromethane	1.70	50	111347	7.88 ug/L	99
4) vinyl chloride	1.82	62	109666	8.64 ug/L	95
5) 1,3-butadiene	1.86	39	92796	15.19 ug/L	94
6) bromomethane	2.17	94	45288	9.82 ug/L	94
7) chloroethane	2.29	64	54649	9.08 ug/L	97
8) trichlorofluoromethane	2.58	101	101059	10.00 ug/L	96
9) acrolein	3.05	56	92125	185.22 ug/L	88
10) 1,1-dichloroethene	3.17	96	60850	10.30 ug/L #	83
11) acetone	3.24	43	86347	26.92 ug/L	84
12) carbon disulfide	3.41	76	170668	9.61 ug/L	93
13) methylene chloride	3.74	84	139020	10.11 ug/L	96
14) acrylonitrile	4.01	53	721605	135.74 ug/L	97
15) trans-1,2-dichloroethene	4.06	96	97010	8.84 ug/L	94
16) methyl-t-butyl ether	4.06	73	301098	9.70 ug/L	98
17) acetonitrile	3.54	41	206260	100.66 ug/L	89
18) hexane	4.39	57	120329	11.31 ug/L #	96
19) 1,1-dichloroethane	4.56	63	193696	10.50 ug/L	99
20) vinyl acetate	4.63	43	173845	11.08 ug/L	97
21) cis-1,2-dichloroethene	5.28	96	118103	8.66 ug/L	96
22) 2,2-dichloropropane	5.27	77	133667	11.00 ug/L	98
23) 2-butanone	5.30	72	16347	10.92 ug/L	80
24) methyl acrylate	5.43	55	152573	11.00 ug/L	99
25) chloroform	5.70	83	179162	9.74 ug/L	93
27) 1,1,1-trichloroethane	5.91	97	123769	9.92 ug/L	90
28) cyclohexane	5.98	56	169125	11.42 ug/L	94

(#) = qualifier out of range (m) = manual integration
E081419.D WTR0814.M Fri Aug 15 09:43:34 2008 8/16/08 8/15/08 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	carbon tetrachloride	6.14	117	113704	10.85 ug/L	88
31)	benzene	6.40	78	405628	9.89 ug/L	99
32)	1,1-dichloropropene	6.13	75	134993	10.82 ug/L	97
33)	1,2-dichloroethane	6.43	62	152805	10.19 ug/L	93
34)	trichloroethene	7.28	95	100647	9.46 ug/L	93
35)	ethyl acrylate	7.44	55	206130	10.92 ug/L	98
36)	1,2-dichloropropane	7.58	63	123022	10.36 ug/L	96
37)	methyl methacrylate	7.76	41	135442	11.40 ug/L	93
38)	dibromomethane	7.75	93	80170	8.91 ug/L	96
39)	bromodichloromethane	7.99	83	137150	9.05 ug/L	99
40)	2-chloroethyl vinyl ether	8.42	63	21539	3.20 ug/L #	80
42)	cis-1,3-dichloropropene	8.63	75	180091	9.18 ug/L	98
43)	4-methyl-2-pentanone	8.86	43	165099	10.93 ug/L	95
45)	toluene	9.11	92	238555	8.69 ug/L	99
46)	1,1,2-trichloroethane	9.75	83	88820	8.26 ug/L	93
47)	1,3-dichloropropane	10.00	76	188453	8.72 ug/L	97
48)	tetrachloroethene	9.97	164	72372	9.02 ug/L	96
49)	trans-1,3-dichloropropene	9.48	75	148381	9.24 ug/L	97
50)	2-hexanone	10.14	43	101890	10.24 ug/L	97
51)	dibromochloromethane	10.36	129	122906	9.23 ug/L	92
52)	1,2-dibromoethane	10.52	107	129664	8.62 ug/L	87
53)	chlorobenzene	11.32	112	276155	8.53 ug/L	97
54)	1,1,1,2-tetrachloroethane	11.46	131	97307	8.73 ug/L	95
55)	ethylbenzene	11.50	91	402131	8.81 ug/L	95
56)	m,p-xylene	11.70	106	314408	17.02 ug/L	95
57)	butyl acrylate	12.35	55	285434	9.71 ug/L	97
58)	o-xylene	12.37	106	154584	8.28 ug/L	94
59)	styrene	12.39	104	272282	8.20 ug/L	94
60)	isopropylbenzene	13.00	105	319274	8.79 ug/L	99
61)	bromobenzene	13.49	156	107863	8.51 ug/L	90
62)	bromoform	12.71	173	81807	8.66 ug/L	92
64)	1,2,3-trichloropropane	13.59	75	116984	9.50 ug/L	99
65)	n-propylbenzene	13.71	91	406535	8.86 ug/L	99
66)	2-chlorotoluene	13.85	91	256026	8.61 ug/L	95
67)	4-chlorotoluene	14.03	91	282101	8.56 ug/L	96
68)	1,3,5-trimethylbenzene	14.03	105	273403	8.94 ug/L	100
70)	1,1,2,2-tetrachloroethane	13.55	83	152051	8.83 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

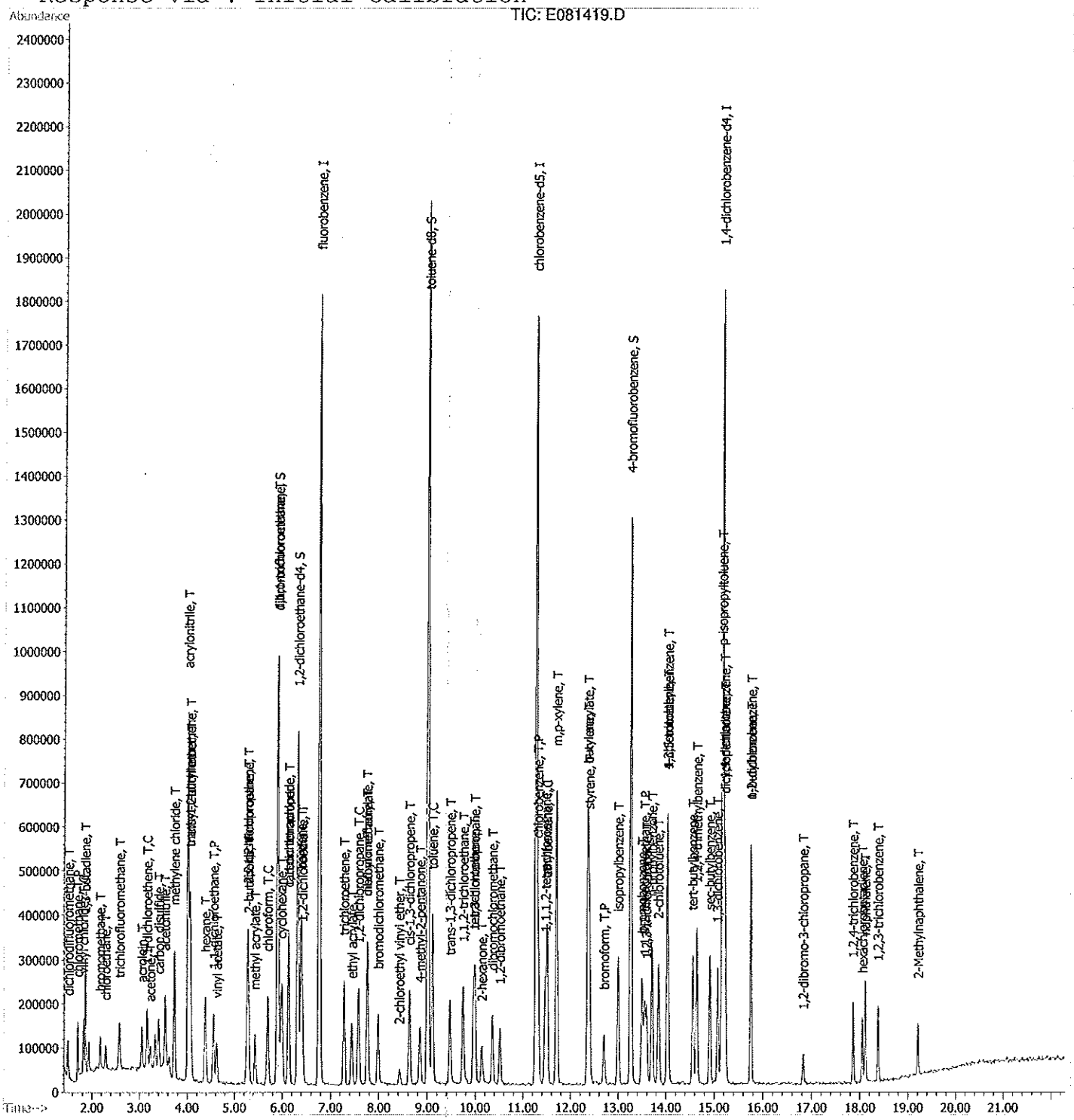
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.57	119	230312	9.71 ug/L	98
72)	sec-butylbenzene	14.91	105	322030	9.10 ug/L	95
73)	1,2,4-trimethylbenzene	14.64	105	283272	8.90 ug/L	99
74)	1,3-dichlorobenzene	15.07	146	164952	8.93 ug/L	94
75)	p-isopropyltoluene	15.15	119	248310	9.33 ug/L	98
76)	dicyclopentadiene	15.23	66	421993	10.00 ug/L	99
77)	1,4-dichlorobenzene	15.22	146	174404	9.22 ug/L	96
78)	1,2-dichlorobenzene	15.76	146	156042	8.83 ug/L	96
79)	n-butylbenzene	15.76	91	214645	10.15 ug/L	94
80)	1,2-dibromo-3-chloropropan	16.83	75	19249	10.55 ug/L	93
81)	1,2,4-trichlorobenzene	17.85	180	65486	10.69 ug/L	97
82)	hexachlorobutadiene	18.05	225	31072	11.75 ug/L	95
83)	naphthalene	18.11	128	198176	12.02 ug/L	100
84)	1,2,3-trichlorobenzene	18.37	180	61267	11.08 ug/L	96
85)	2-Methylnaphthalene	19.21	142	57362	17.46 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081419.D Vial: 3
Acq On : 14 Aug 2008 8:07 pm Operator: BR
Sample : ,ical,ical W 10 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2163003	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1585636	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	668864	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.90	113	690677	56.49 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	656141	62.40 ug/L	0.00
44) toluene-d8	9.01	98	1891283	47.91 ug/L	0.00
63) 4-bromofluorobenzene	13.25	95	713098	49.23 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	111665	10.47 ug/L	99
3) chloromethane	1.70	50	189000	13.72 ug/L	98
4) vinyl chloride	1.81	62	170279	13.77 ug/L	97
5) 1,3-butadiene	1.85	39	145453	24.43 ug/L	95
6) bromomethane	2.17	94	66504	14.79 ug/L	99
7) chloroethane	2.29	64	88426	15.07 ug/L	96
8) trichlorofluoromethane	2.58	101	162741	16.52 ug/L	95
9) acrolein	3.05	56	169725	350.08 ug/L	97
10) 1,1-dichloroethene	3.16	96	82771	14.37 ug/L	99
11) acetone	3.23	43	110909	35.48 ug/L	91
12) carbon disulfide	3.41	76	266913	15.41 ug/L	100
13) methylene chloride	3.73	84	221660	16.54 ug/L	97
14) acrylonitrile	4.01	53	1317629	254.28 ug/L	96
15) trans-1,2-dichloroethene	4.06	96	157750	14.74 ug/L	98
16) methyl-t-butyl ether	4.06	73	558524	18.47 ug/L	96
17) acetonitrile	3.54	41	381510	191.02 ug/L	92
18) hexane	4.38	57	199948	19.29 ug/L #	93
19) 1,1-dichloroethane	4.56	63	333427	18.55 ug/L	97
20) vinyl acetate	4.63	43	326001	21.32 ug/L	96
21) cis-1,2-dichloroethene	5.28	96	207134	15.59 ug/L	99
22) 2,2-dichloropropane	5.26	77	219514	18.53 ug/L #	89
23) 2-butanone	5.30	72	30995	21.23 ug/L	90
24) methyl acrylate	5.43	55	303932	22.49 ug/L	98
25) chloroform	5.69	83	315109	17.58 ug/L	99
27) 1,1,1-trichloroethane	5.91	97	205506	16.89 ug/L	96
28) cyclohexane	5.98	56	274016	18.98 ug/L	96

(#) = qualifier out of range (m) = manual integration
E081420.D WTR0814.M Fri Aug 15 09:43:57 2008 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.13	117	185881	18.19 ug/L	99
31) benzene	6.39	78	694085	17.37 ug/L	98
32) 1,1-dichloropropene	6.13	75	209393	17.23 ug/L	95
33) 1,2-dichloroethane	6.42	62	290928	19.90 ug/L	94
34) trichloroethene	7.28	95	168452	16.25 ug/L	92
35) ethyl acrylate	7.44	55	431377	23.45 ug/L	98
36) 1,2-dichloropropane	7.57	63	220390	19.04 ug/L	99
37) methyl methacrylate	7.76	41	267166	23.07 ug/L	95
38) dibromomethane	7.75	93	156428	17.83 ug/L	97
39) bromodichloromethane	7.99	83	269083	18.22 ug/L	97
40) 2-chloroethyl vinyl ether	8.42	63	41673	6.36 ug/L	94
42) cis-1,3-dichloropropene	8.63	75	328986	17.27 ug/L	99
43) 4-methyl-2-pentanone	8.84	43	313637	21.39 ug/L	97
45) toluene	9.11	92	402104	15.08 ug/L	99
46) 1,1,2-trichloroethane	9.74	83	173011	16.58 ug/L	98
47) 1,3-dichloropropane	9.99	76	357188	17.02 ug/L	97
48) tetrachloroethene	9.97	164	116777	14.99 ug/L	92
49) trans-1,3-dichloropropene	9.47	75	280360	17.99 ug/L	99
50) 2-hexanone	10.13	43	202967	21.02 ug/L	98
51) dibromochloromethane	10.36	129	238540	18.46 ug/L	97
52) 1,2-dibromoethane	10.52	107	251706	17.24 ug/L #	97
53) chlorobenzene	11.31	112	481950	15.33 ug/L	95
54) 1,1,1,2-tetrachloroethane	11.46	131	185099	17.10 ug/L	95
55) ethylbenzene	11.50	91	689100	15.55 ug/L	98
56) m,p-xylene	11.70	106	546046	30.45 ug/L	97
57) butyl acrylate	12.35	55	600635	21.04 ug/L	97
58) o-xylene	12.36	106	269678	14.88 ug/L #	83
59) styrene	12.39	104	502957	15.61 ug/L	94
60) isopropylbenzene	13.00	105	545320	15.47 ug/L	98
61) bromobenzene	13.49	156	198391	16.11 ug/L	86
62) bromoform	12.70	173	161583	17.62 ug/L	99
64) 1,2,3-trichloropropane	13.59	75	226924	18.99 ug/L	99
65) n-propylbenzene	13.71	91	688096	15.45 ug/L	100
66) 2-chlorotoluene	13.84	91	450672	15.61 ug/L	94
67) 4-chlorotoluene	14.03	91	498193	15.58 ug/L	93
68) 1,3,5-trimethylbenzene	14.03	105	467165	15.74 ug/L	99
70) 1,1,2,2-tetrachloroethane	13.55	83	299188	17.06 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

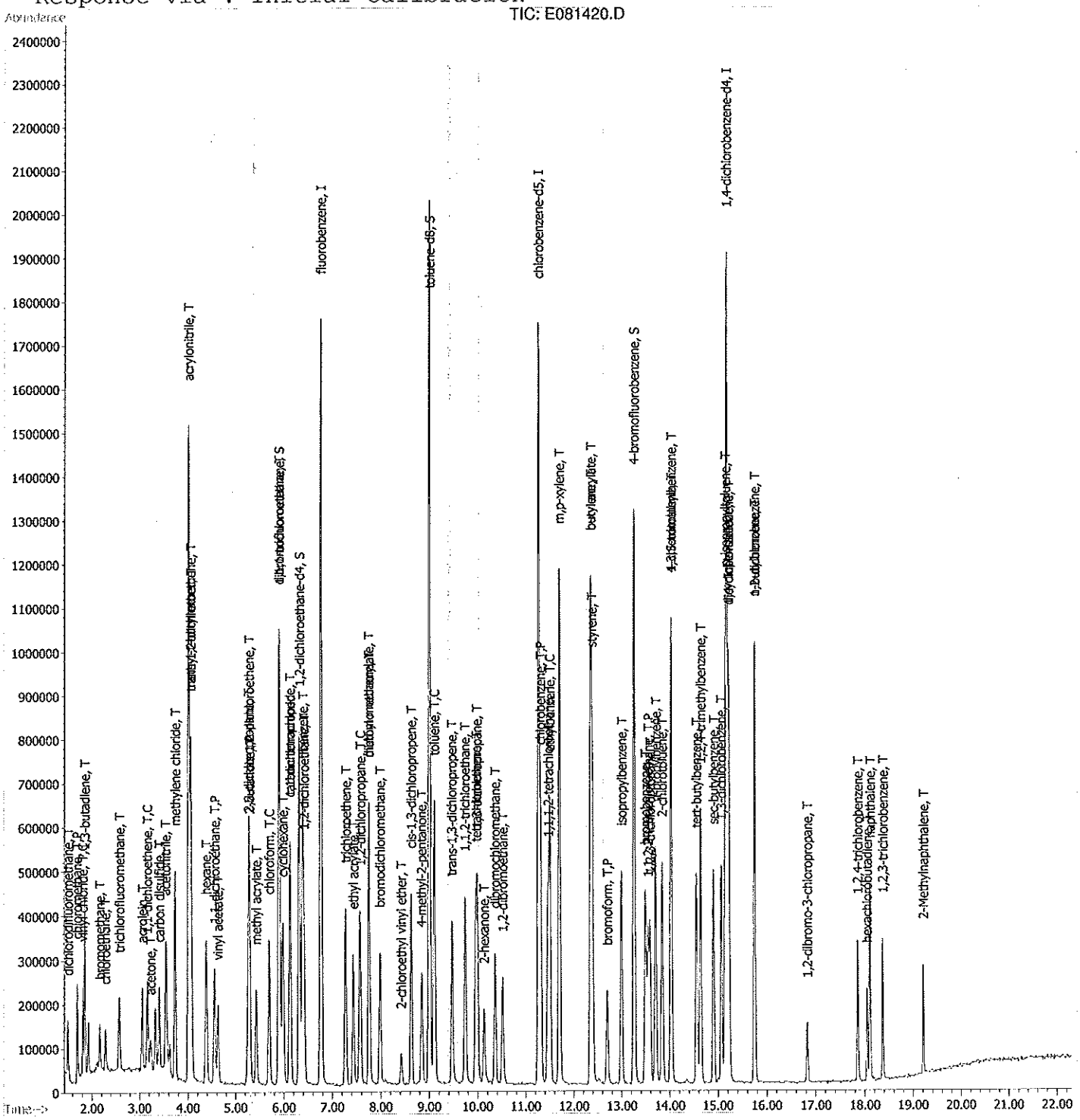
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	387549	16.03 ug/L	94
72)	sec-butylbenzene	14.91	105	546363	15.16 ug/L	97
73)	1,2,4-trimethylbenzene	14.64	105	507802	15.66 ug/L	95
74)	1,3-dichlorobenzene	15.07	146	303020	16.10 ug/L	99
75)	p-isopropyltoluene	15.14	119	438898	16.19 ug/L	99
76)	dicyclopentadiene	15.22	66	751957	17.49 ug/L	99
77)	1,4-dichlorobenzene	15.21	146	313273	16.26 ug/L	99
78)	1,2-dichlorobenzene	15.75	146	300410	16.69 ug/L	98
79)	n-butylbenzene	15.75	91	365177	16.95 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.82	75	36495	19.64 ug/L	86
81)	1,2,4-trichlorobenzene	17.86	180	123623	19.81 ug/L	91
82)	hexachlorobutadiene	18.06	225	51332	19.06 ug/L	96
83)	naphthalene	18.11	128	382109	22.75 ug/L	100
84)	1,2,3-trichlorobenzene	18.37	180	108633	19.29 ug/L	90
85)	2-Methylnaphthalene	19.21	142	118641	35.44 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081420.D Vial: 4
Acq On : 14 Aug 2008 8:38 pm Operator: BR
Sample : ,ical,ical W 20 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:43 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D Vial: 5
Acq On : 14 Aug 2008 9:08 pm Operator: BR
Sample : ,ical,ical W 50 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	2088265	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1572306	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	699472	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.90	113	689706	58.43 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	660629	65.07 ug/L	0.00
44) toluene-d8	9.01	98	1886992	48.21 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	724675	50.45 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	315538	30.63 ug/L	100
3) chloromethane	1.69	50	490635	36.89 ug/L	100
4) vinyl chloride	1.81	62	469305	39.31 ug/L	100
5) 1,3-butadiene	1.85	39	396517	68.99 ug/L	100
6) bromomethane	2.16	94	88052	20.29 ug/L	99
7) chloroethane	2.27	64	216969	38.29 ug/L	100
8) trichlorofluoromethane	2.57	101	421483	44.32 ug/L	100
9) acrolein	3.05	56	480581	1026.75 ug/L	100
10) 1,1-dichloroethene	3.16	96	231852	41.69 ug/L	100
11) acetone	3.23	43	233603	77.40 ug/L	100
12) carbon disulfide	3.41	76	692582	41.43 ug/L	100
13) methylene chloride	3.73	84	562158	43.44 ug/L	100
14) acrylonitrile	4.01	53	3623392	724.28 ug/L	100
15) trans-1,2-dichloroethene	4.06	96	420170	40.68 ug/L	100
16) methyl-t-butyl ether	4.07	73	1531058	52.43 ug/L	100
17) acetonitrile	3.53	41	1004521	520.95 ug/L	100
18) hexane	4.38	57	528316	52.79 ug/L	100
19) 1,1-dichloroethane	4.56	63	902265	51.99 ug/L	100
20) vinyl acetate	4.63	43	910211	61.65 ug/L	100
21) cis-1,2-dichloroethene	5.28	96	555507	43.30 ug/L	100
22) 2,2-dichloropropane	5.27	77	566269	49.50 ug/L	100
23) 2-butanone	5.30	72	86379	61.29 ug/L	100
24) methyl acrylate	5.42	55	838272	64.24 ug/L	100
25) chloroform	5.69	83	836237	48.33 ug/L	100
27) 1,1,1-trichloroethane	5.91	97	542334	46.18 ug/L	100
28) cyclohexane	5.98	56	724898	52.02 ug/L	100

(#) = qualifier out of range (m) = manual integration
E081421.D WTR0814.M Fri Aug 15 09:44:21 2008 8/15/08 8/15/08 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D Vial: 5
Acq On : 14 Aug 2008 9:08 pm Operator: BR
Sample : ,ical,ical W 50 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.12	117	483983	49.06 ug/L	100
31) benzene	6.39	78	1820824	47.19 ug/L	100
32) 1,1-dichloropropene	6.12	75	567989	48.40 ug/L	100
33) 1,2-dichloroethane	6.42	62	788047	55.82 ug/L	100
34) trichloroethene	7.27	95	440380	43.99 ug/L	100
35) ethyl acrylate	7.43	55	1170436	65.90 ug/L	100
36) 1,2-dichloropropane	7.57	63	606484	54.27 ug/L	100
37) methyl methacrylate	7.76	41	715267	63.97 ug/L	100
38) dibromomethane	7.75	93	426864	50.39 ug/L	100
39) bromodichloromethane	7.98	83	734369	51.51 ug/L	100
40) 2-chloroethyl vinyl ether	8.42	63	127009	20.07 ug/L	100
42) cis-1,3-dichloropropene	8.62	75	911397	48.25 ug/L	100
43) 4-methyl-2-pentanone	8.84	43	883095	60.74 ug/L	100
45) toluene	9.11	92	1080678	40.87 ug/L	100
46) 1,1,2-trichloroethane	9.74	83	491811	47.52 ug/L	100
47) 1,3-dichloropropane	9.99	76	969000	46.56 ug/L	100
48) tetrachloroethene	9.96	164	321515	41.62 ug/L	100
49) trans-1,3-dichloropropene	9.47	75	799105	51.71 ug/L	100
50) 2-hexanone	10.13	43	624711	65.24 ug/L	100
51) dibromochloromethane	10.36	129	696744	54.38 ug/L	100
52) 1,2-dibromoethane	10.51	107	697795	48.20 ug/L	100
53) chlorobenzene	11.31	112	1308083	41.97 ug/L	100
54) 1,1,1,2-tetrachloroethane	11.46	131	512762	47.78 ug/L	100
55) ethylbenzene	11.50	91	1876030	42.68 ug/L	100
56) m,p-xylene	11.70	106	1508971	84.86 ug/L	100
57) butyl acrylate	12.34	55	1696030	59.92 ug/L	100
58) o-xylene	12.35	106	761934	42.40 ug/L	100
59) styrene	12.38	104	1411968	44.19 ug/L	100
60) isopropylbenzene	12.99	105	1543378	44.16 ug/L	100
61) bromobenzene	13.50	156	572435	46.89 ug/L	100
62) bromoform	12.70	173	472543	51.97 ug/L	100
64) 1,2,3-trichloropropane	13.58	75	647001	54.59 ug/L	100
65) n-propylbenzene	13.70	91	1940678	43.94 ug/L	100
66) 2-chlorotoluene	13.84	91	1248752	43.63 ug/L	100
67) 4-chlorotoluene	14.03	91	1402358	44.22 ug/L	100
68) 1,3,5-trimethylbenzene	14.03	105	1347224	45.78 ug/L	100
70) 1,1,2,2-tetrachloroethane	13.54	83	849450	46.32 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D Vial: 5
Acq On : 14 Aug 2008 9:08 pm Operator: BR
Sample : ,ical,ical W 50 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) tert-butylbenzene	14.56	119	1127435	44.61 ug/L	100
72) sec-butylbenzene	14.90	105	1559172	41.36 ug/L	100
73) 1,2,4-trimethylbenzene	14.64	105	1452396	42.82 ug/L	100
74) 1,3-dichlorobenzene	15.07	146	884997	44.97 ug/L	100
75) p-isopropyltoluene	15.14	119	1282343	45.24 ug/L	100
76) dicyclopentadiene	15.22	66	2039569	45.36 ug/L	100
77) 1,4-dichlorobenzene	15.21	146	905413	44.94 ug/L	100
78) 1,2-dichlorobenzene	15.75	146	867960	46.11 ug/L	100
79) n-butylbenzene	15.75	91	1046196	46.44 ug/L	100
80) 1,2-dibromo-3-chloropropan	16.82	75	119098	61.29 ug/L	100
81) 1,2,4-trichlorobenzene	17.86	180	363819	55.74 ug/L	100
82) hexachlorobutadiene	18.05	225	146614	52.05 ug/L	100
83) naphthalene	18.11	128	1179380	67.16 ug/L	100
84) 1,2,3-trichlorobenzene	18.37	180	329584	55.96 ug/L	100
85) 2-Methylnaphthalene	19.20	142	345953	98.83 ug/L	100

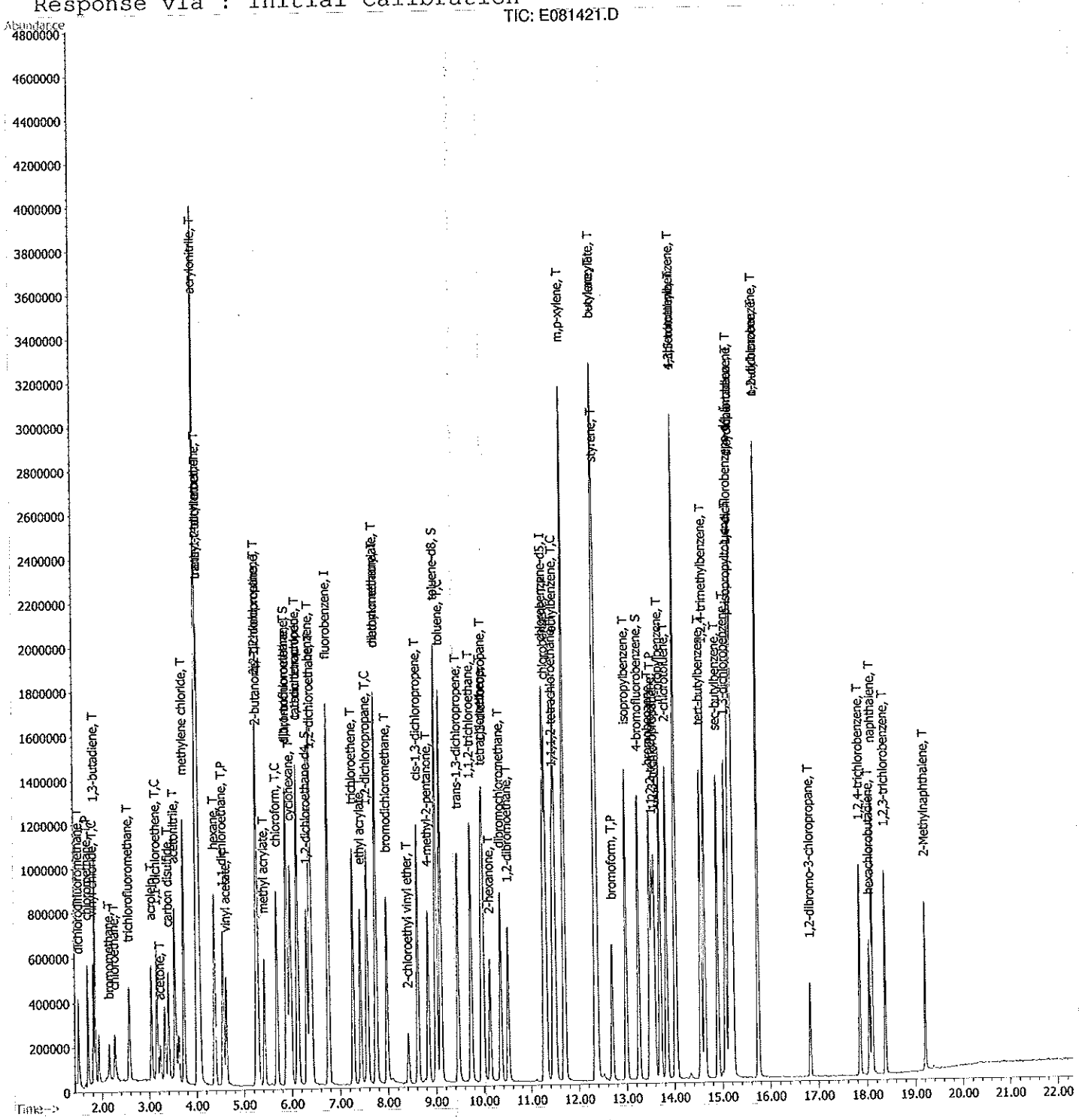
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081421.D
Acq On : 14 Aug 2008 9:08 pm
Sample : ,ical,ical W 50 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Vial: 5
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D Vial: 6
Acq On : 14 Aug 2008 9:39 pm Operator: BR
Sample : ,ical,ical W 70 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2116707	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1559582	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.18	152	692407	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.89	113	680998	56.92 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	667408	64.86 ug/L	0.00
44) toluene-d8	9.00	98	1881143	48.45 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	732851	51.44 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.50	85	437484	41.90 ug/L	97
3) chloromethane	1.70	50	733534	54.41 ug/L	99
4) vinyl chloride	1.82	62	682332	56.38 ug/L	99
5) 1,3-butadiene	1.86	39	570322	97.90 ug/L	91
6) bromomethane	2.15	94	102591	23.32 ug/L	99
7) chloroethane	2.27	64	301242	52.45 ug/L	93
8) trichlorofluoromethane	2.58	101	590434	61.25 ug/L	96
9) acrolein	3.05	56	671796	1415.99 ug/L	98
10) 1,1-dichloroethene	3.16	96	325698	57.78 ug/L	94
11) acetone	3.24	43	313381	102.43 ug/L	99
12) carbon disulfide	3.40	76	954066	56.30 ug/L	98
13) methylene chloride	3.73	84	784954	59.84 ug/L	99
14) acrylonitrile	4.01	53	5148772	1015.36 ug/L	99
15) trans-1,2-dichloroethene	4.05	96	590244	56.37 ug/L	97
16) methyl-t-butyl ether	4.06	73	2118421	71.58 ug/L	96
17) acetonitrile	3.54	41	1421903	727.50 ug/L	97
18) hexane	4.38	57	759010	74.82 ug/L #	97
19) 1,1-dichloroethane	4.55	63	1262645	71.78 ug/L	98
20) vinyl acetate	4.62	43	1258502	84.10 ug/L	99
21) cis-1,2-dichloroethene	5.28	96	776212	59.69 ug/L	97
22) 2,2-dichloropropane	5.26	77	768600	66.29 ug/L	98
23) 2-butanone	5.29	72	120196	84.14 ug/L	92
24) methyl acrylate	5.42	55	1174559	88.79 ug/L	97
25) chloroform	5.70	83	1184314	67.52 ug/L	98
27) 1,1,1-trichloroethane	5.90	97	764095	64.19 ug/L	98
28) cyclohexane	5.98	56	1014420	71.81 ug/L	97

(#) = qualifier out of range (m) = manual integration

8/15/08

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D Vial: 6
Acq On : 14 Aug 2008 9:39 pm Operator: BR
Sample : ,ical,ical W 70 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	carbon tetrachloride	6.13	117	678839	67.89 ug/L	96
31)	benzene	6.38	78	2539733	64.94 ug/L	99
32)	1,1-dichloropropene	6.13	75	788127	66.25 ug/L	99
33)	1,2-dichloroethane	6.41	62	1071795	74.90 ug/L	98
34)	trichloroethene	7.27	95	631747	62.26 ug/L	94
35)	ethyl acrylate	7.43	55	1585371	88.07 ug/L	98
36)	1,2-dichloropropane	7.57	63	845277	74.62 ug/L	95
37)	methyl methacrylate	7.75	41	1019775	89.98 ug/L	96
38)	dibromomethane	7.74	93	590761	68.81 ug/L	98
39)	bromodichloromethane	7.98	83	1013231	70.11 ug/L	99
40)	2-chloroethyl vinyl ether	8.42	63	196199	30.59 ug/L	92
42)	cis-1,3-dichloropropene	8.62	75	1305833	69.69 ug/L	99
43)	4-methyl-2-pentanone	8.84	43	1205335	83.59 ug/L	99
45)	toluene	9.10	92	1535325	58.54 ug/L	98
46)	1,1,2-trichloroethane	9.74	83	665182	64.80 ug/L	97
47)	1,3-dichloropropane	10.00	76	1367060	66.22 ug/L	99
48)	tetrachloroethene	9.96	164	453068	59.12 ug/L	95
49)	trans-1,3-dichloropropene	9.47	75	1104060	72.03 ug/L	99
50)	2-hexanone	10.14	43	867450	91.32 ug/L	92
51)	dibromochloromethane	10.35	129	961097	75.62 ug/L	98
52)	1,2-dibromoethane	10.51	107	949074	66.10 ug/L #	96
53)	chlorobenzene	11.32	112	1821999	58.94 ug/L	96
54)	1,1,1,2-tetrachloroethane	11.46	131	726469	68.24 ug/L	97
55)	ethylbenzene	11.50	91	2617283	60.04 ug/L	99
56)	m,p-xylene	11.70	106	2077150	117.76 ug/L	96
57)	butyl acrylate	12.34	55	2363280	84.18 ug/L	96
58)	o-xylene	12.36	106	1057435	59.32 ug/L	97
59)	styrene	12.39	104	1987982	62.73 ug/L	96
60)	isopropylbenzene	12.99	105	2127990	61.38 ug/L	100
61)	bromobenzene	13.49	156	807392	66.68 ug/L	93
62)	bromoform	12.69	173	670601	74.36 ug/L	96
64)	1,2,3-trichloropropane	13.59	75	890089	75.71 ug/L	93
65)	n-propylbenzene	13.71	91	2758366	62.96 ug/L	98
66)	2-chlorotoluene	13.84	91	1770324	62.36 ug/L	95
67)	4-chlorotoluene	14.03	91	1972154	62.69 ug/L	98
68)	1,3,5-trimethylbenzene	14.02	105	1868913	64.02 ug/L	98
70)	1,1,2,2-tetrachloroethane	13.54	83	1178874	64.94 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D Vial: 6
Acq On : 14 Aug 2008 9:39 pm Operator: BR
Sample : ,ical,ical W 70 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	1513508	60.49 ug/L	96
72)	sec-butylbenzene	14.91	105	2170052	58.15 ug/L	98
73)	1,2,4-trimethylbenzene	14.64	105	2012787	59.95 ug/L	97
74)	1,3-dichlorobenzene	15.07	146	1220440	62.65 ug/L	99
75)	p-isopropyltoluene	15.15	119	1784583	63.60 ug/L	99
76)	dicyclopentadiene	15.22	66	2795479	62.81 ug/L	100
77)	1,4-dichlorobenzene	15.20	146	1233908	61.87 ug/L	98
78)	1,2-dichlorobenzene	15.75	146	1201974	64.50 ug/L	98
79)	n-butylbenzene	15.75	91	1475302	66.16 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.82	75	153352	79.73 ug/L	96
81)	1,2,4-trichlorobenzene	17.85	180	516815	79.99 ug/L	98
82)	hexachlorobutadiene	18.05	225	201284	72.18 ug/L	93
83)	naphthalene	18.11	128	1673617	96.27 ug/L	100
84)	1,2,3-trichlorobenzene	18.37	180	468620	80.38 ug/L	98
85)	2-Methylnaphthalene	19.21	142	529975	152.95 ug/L	99

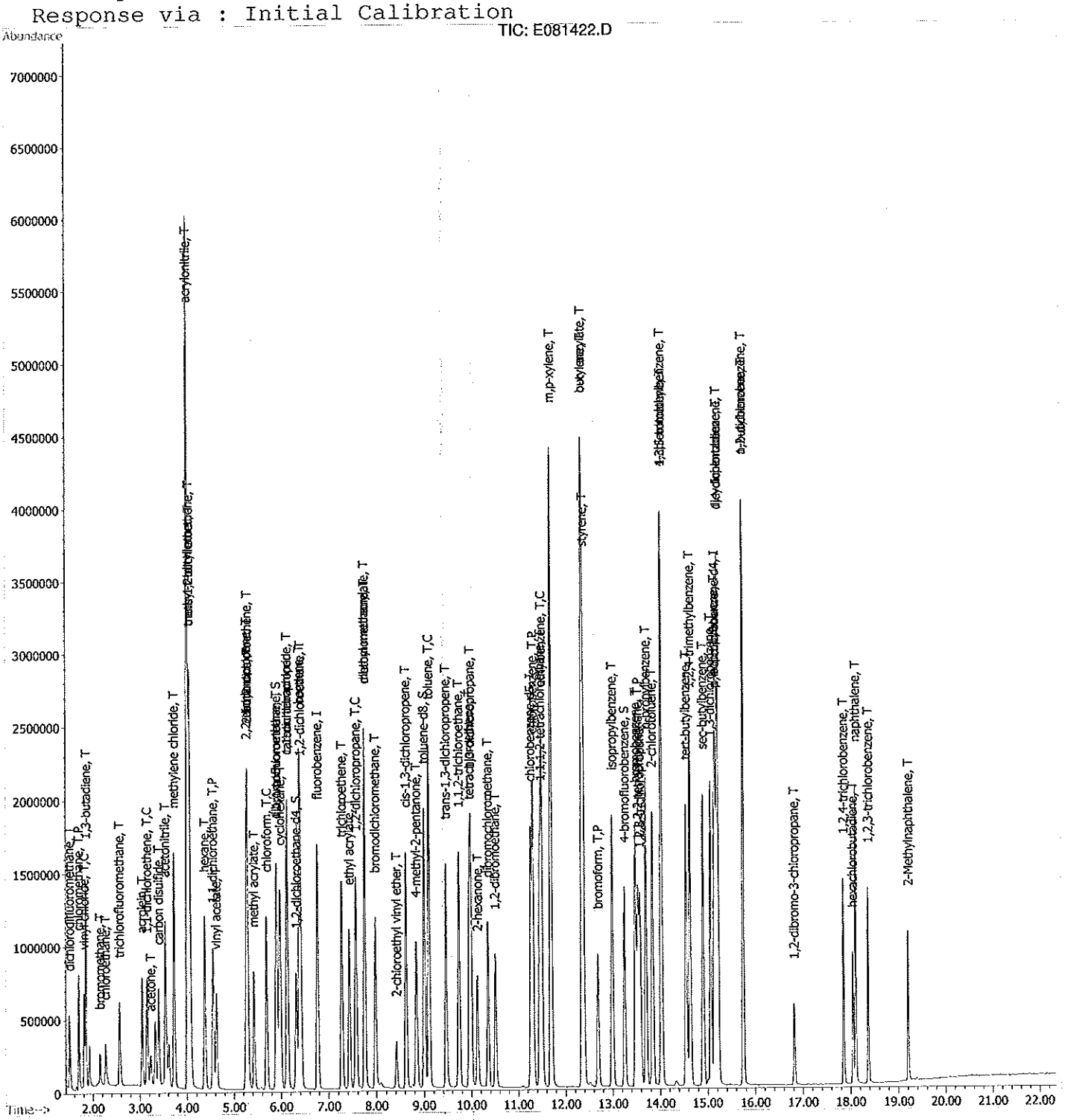
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081422.D
Acq On : 14 Aug 2008 9:39 pm
Sample : ,ical,ical W 70 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:44 2008 Quant Results File: WTR0814.RES

Vial: 6
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	2141997	50.00 ug/L	0.00
41) chlorobenzene-d5	11.27	117	1622911	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	740086	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.90	113	682522	56.37 ug/L	0.00
30) 1,2-dichloroethane-d4	6.32	65	655720	62.97 ug/L	0.00
44) toluene-d8	9.01	98	1937439	47.95 ug/L	0.00
63) 4-bromofluorobenzene	13.26	95	751729	50.70 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.51	85	625142	59.17 ug/L	98
3) chloromethane	1.69	50	1063783	77.98 ug/L	98
4) vinyl chloride	1.81	62	967600	79.01 ug/L	99
5) 1,3-butadiene	1.85	39	819074	138.93 ug/L	97
6) bromomethane	2.16	94	146251	32.85 ug/L	96
7) chloroethane	2.26	64	427466	73.55 ug/L	95
8) trichlorofluoromethane	2.57	101	840473	86.16 ug/L	97
9) acrolein	3.05	56	1007212	2097.90 ug/L	98
10) 1,1-dichloroethene	3.16	96	480940	84.31 ug/L #	88
11) acetone	3.23	43	454905	146.94 ug/L	94
12) carbon disulfide	3.41	76	1396518	81.44 ug/L	100
13) methylene chloride	3.73	84	1129438	85.08 ug/L	96
14) acrylonitrile	4.02	53	7104880	1384.56 ug/L	99
15) trans-1,2-dichloroethene	4.05	96	852640	80.47 ug/L	95
16) methyl-t-butyl ether	4.06	73	3121261	104.21 ug/L	98
17) acetonitrile	3.54	41	2011678	1017.10 ug/L	97
18) hexane	4.38	57	1029581	100.29 ug/L	97
19) 1,1-dichloroethane	4.56	63	1833345	103.00 ug/L	99
20) vinyl acetate	4.63	43	1843977	121.77 ug/L	100
21) cis-1,2-dichloroethene	5.28	96	1125705	85.55 ug/L	99
22) 2,2-dichloropropane	5.26	77	1090979	92.98 ug/L	97
23) 2-butanone	5.30	72	175909	121.69 ug/L	95
24) methyl acrylate	5.42	55	1694722	126.61 ug/L	96
25) chloroform	5.69	83	1695922	95.55 ug/L	98
27) 1,1,1-trichloroethane	5.91	97	1059544	87.96 ug/L	97
28) cyclohexane	5.97	56	1422498	99.52 ug/L	99

(#) = qualifier out of range (m) = manual integration
E081423.D WTR0814.M Fri Aug 15 09:45:09 2008 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	carbon tetrachloride	6.12	117	962295	95.10 ug/L	97
31)	benzene	6.39	78	3668042	92.68 ug/L	99
32)	1,1-dichloropropene	6.12	75	1119434	92.99 ug/L	98
33)	1,2-dichloroethane	6.42	62	1574328	108.72 ug/L	99
34)	trichloroethene	7.27	95	905511	88.19 ug/L	97
35)	ethyl acrylate	7.43	55	2357387	129.41 ug/L	100
36)	1,2-dichloropropane	7.57	63	1264749	110.33 ug/L	97
37)	methyl methacrylate	7.76	41	1468544	128.05 ug/L	92
38)	dibromomethane	7.75	93	854253	98.32 ug/L	95
39)	bromodichloromethane	7.98	83	1498162	102.44 ug/L	99
40)	2-chloroethyl vinyl ether	8.42	63	272630	42.00 ug/L	93
42)	cis-1,3-dichloropropene	8.62	75	1905873	97.74 ug/L	98
43)	4-methyl-2-pentanone	8.84	43	1813001	120.82 ug/L	98
45)	toluene	9.10	92	2167703	79.43 ug/L	100
46)	1,1,2-trichloroethane	9.74	83	986505	92.35 ug/L	95
47)	1,3-dichloropropane	9.99	76	2035248	94.75 ug/L	98
48)	tetrachloroethene	9.96	164	649810	81.49 ug/L	97
49)	trans-1,3-dichloropropene	9.47	75	1642886	103.00 ug/L	99
50)	2-hexanone	10.13	43	1304475	131.97 ug/L	96
51)	dibromochloromethane	10.35	129	1464927	110.76 ug/L	99
52)	1,2-dibromoethane	10.51	107	1405087	94.04 ug/L	94
53)	chlorobenzene	11.31	112	2705759	84.11 ug/L	99
54)	1,1,1,2-tetrachloroethane	11.46	131	1084459	97.90 ug/L	98
55)	ethylbenzene	11.50	91	3872639	85.36 ug/L	99
56)	m,p-xylene	11.70	106	3036135	165.41 ug/L	100
57)	butyl acrylate	12.34	55	3520239	120.49 ug/L	95
58)	o-xylene	12.35	106	1549371	83.53 ug/L	99
59)	styrene	12.38	104	2868981	86.99 ug/L	99
60)	isopropylbenzene	12.99	105	3068704	85.06 ug/L	96
61)	bromobenzene	13.49	156	1199118	95.16 ug/L	96
62)	bromoform	12.70	173	1037735	110.57 ug/L	98
64)	1,2,3-trichloropropane	13.58	75	1324956	108.31 ug/L	96
65)	n-propylbenzene	13.70	91	3954381	86.74 ug/L	98
66)	2-chlorotoluene	13.84	91	2631676	89.09 ug/L	96
67)	4-chlorotoluene	14.03	91	2884909	88.13 ug/L	100
68)	1,3,5-trimethylbenzene	14.03	105	2727232	89.78 ug/L	97
70)	1,1,2,2-tetrachloroethane	13.54	83	1784451	91.96 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

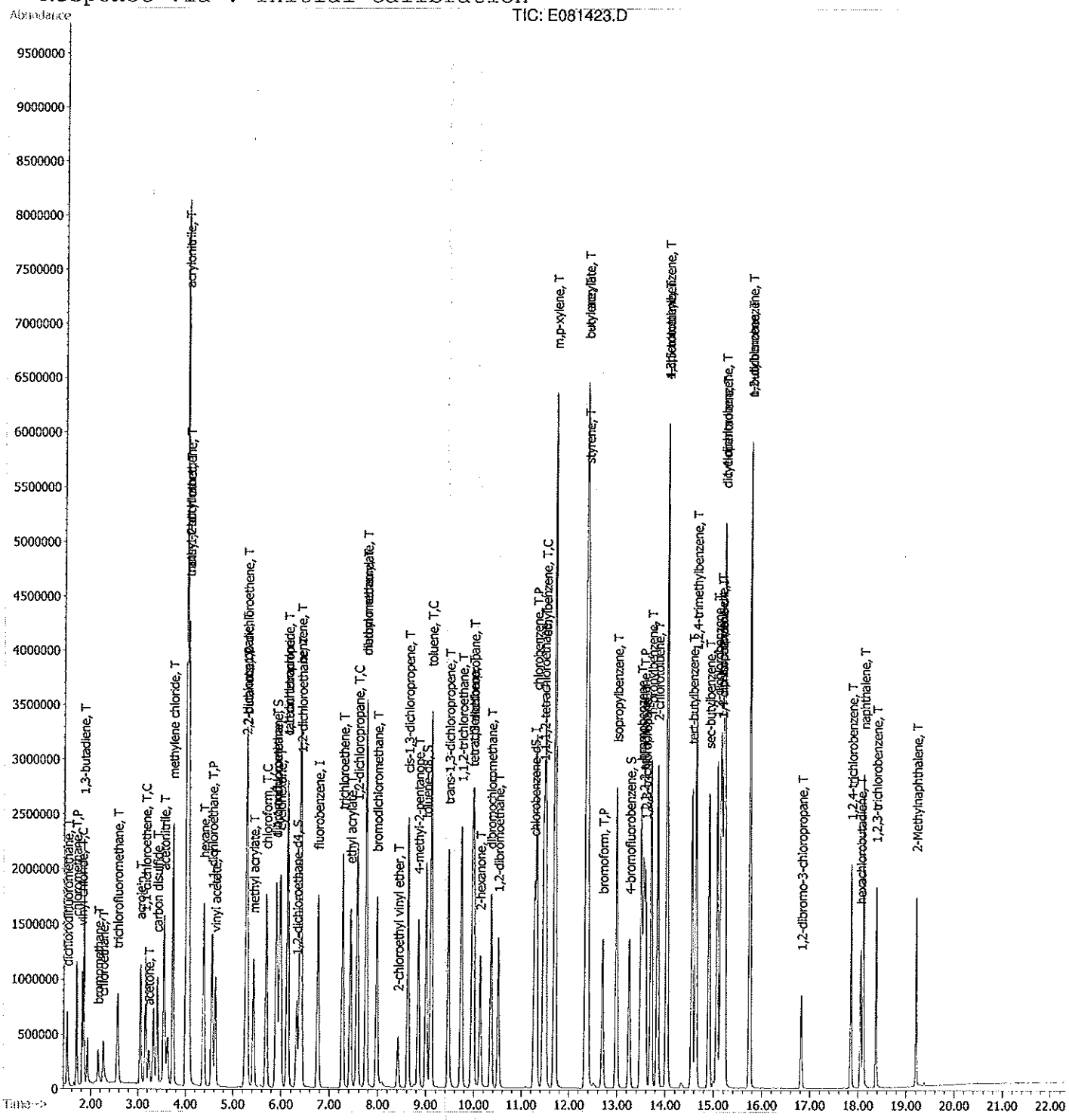
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.56	119	2203382	82.39 ug/L	94
72)	sec-butylbenzene	14.91	105	3117994	78.17 ug/L	98
73)	1,2,4-trimethylbenzene	14.64	105	2930495	81.66 ug/L	100
74)	1,3-dichlorobenzene	15.07	146	1810179	86.94 ug/L	98
75)	p-isopropyltoluene	15.14	119	2578732	85.98 ug/L	97
76)	dicyclopentadiene	15.23	66	4089239	85.96 ug/L	98
77)	1,4-dichlorobenzene	15.21	146	1870184	87.74 ug/L	99
78)	1,2-dichlorobenzene	15.75	146	1772218	88.98 ug/L	99
79)	n-butylbenzene	15.75	91	2131573	89.43 ug/L	99
80)	1,2-dibromo-3-chloropropan	16.82	75	244042	118.70 ug/L	93
81)	1,2,4-trichlorobenzene	17.86	180	779672	112.91 ug/L	96
82)	hexachlorobutadiene	18.05	225	303173	101.72 ug/L	96
83)	naphthalene	18.11	128	2537760	136.58 ug/L	100
84)	1,2,3-trichlorobenzene	18.38	180	693822	111.34 ug/L	97
85)	2-Methylnaphthalene	19.20	142	802263	216.62 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081423.D Vial: 7
Acq On : 14 Aug 2008 10:09 pm Operator: BR
Sample : ,ical,ical W 100 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D Vial: 8
Acq On : 14 Aug 2008 10:40 pm Operator: BR
Sample : ,ical,ical W 200 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2212111	50.00 ug/L	0.00
41) chlorobenzene-d5	11.26	117	1699961	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	739507	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.89	113	687660	55.00 ug/L	0.00
30) 1,2-dichloroethane-d4	6.31	65	654533	60.86 ug/L	0.00
44) toluene-d8	9.01	98	1978336	46.75 ug/L	0.00
63) 4-bromofluorobenzene	13.25	95	774080	49.84 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.50	85	1233187	113.02 ug/L	99
3) chloromethane	1.70	50	2160371	153.34 ug/L	100
4) vinyl chloride	1.81	62	2061215	162.97 ug/L	99
5) 1,3-butadiene	1.85	39	1624231	266.77 ug/L	93
6) bromomethane	2.16	94	307648	66.91 ug/L	98
7) chloroethane	2.26	64	260251	43.36 ug/L	92
8) trichlorofluoromethane	2.55	101	1658948	164.68 ug/L	97
9) acrolein	3.05	56	1992256	4018.10 ug/L	99
10) 1,1-dichloroethene	3.15	96	968812	164.45 ug/L #	89
11) acetone	3.24	43	834637	261.05 ug/L	98
12) carbon disulfide	3.40	76	2853901	161.15 ug/L	98
13) methylene chloride	3.73	84	2317512	169.05 ug/L	99
14) acrylonitrile	4.02	53	13784703	2601.15 ug/L	96
15) trans-1,2-dichloroethene	4.05	96	1726156	157.75 ug/L	99
16) methyl-t-butyl ether	4.07	73	6323238	204.43 ug/L	96
17) acetonitrile	3.55	41	4226771	2069.32 ug/L	97
18) hexane	4.37	57	2131314	201.02 ug/L #	94
19) 1,1-dichloroethane	4.55	63	3814415	207.50 ug/L	99
20) vinyl acetate	4.63	43	3961508	253.32 ug/L	100
21) cis-1,2-dichloroethene	5.28	96	2321210	170.81 ug/L	99
22) 2,2-dichloropropane	5.26	77	2247102	185.45 ug/L	98
23) 2-butanone	5.30	72	368288	246.69 ug/L	85
24) methyl acrylate	5.43	55	3521027	254.70 ug/L	97
25) chloroform	5.69	83	3526666	192.40 ug/L	99
27) 1,1,1-trichloroethane	5.91	97	2215537	178.10 ug/L	99
28) cyclohexane	5.98	56	2907646	196.97 ug/L	99

(#) = qualifier out of range (m) = manual integration
E081424.D WTR0814.M Fri Aug 15 09:45:33 2008 8/15/08 8/15/08 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D Vial: 8
Acq On : 14 Aug 2008 10:40 pm Operator: BR
Sample : ,ical,ical W 200 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.13	117	1998955	191.30 ug/L	98
31) benzene	6.39	78	7652723	187.24 ug/L	99
32) 1,1-dichloropropene	6.13	75	2353556	189.31 ug/L	97
33) 1,2-dichloroethane	6.42	62	3203070	214.19 ug/L	97
34) trichloroethene	7.28	95	1892877	178.51 ug/L	97
35) ethyl acrylate	7.43	55	4956508	263.46 ug/L	99
36) 1,2-dichloropropane	7.56	63	2644120	223.34 ug/L	96
37) methyl methacrylate	7.76	41	3067347	258.98 ug/L	95
38) dibromomethane	7.74	93	1771743	197.46 ug/L	96
39) bromodichloromethane	7.99	83	3130758	207.29 ug/L	99
40) 2-chloroethyl vinyl ether	8.42	63	577951	86.22 ug/L	97
42) cis-1,3-dichloropropene	8.63	75	4025348	197.09 ug/L	97
43) 4-methyl-2-pentanone	8.84	43	3846739	244.73 ug/L	97
45) toluene	9.11	92	4647125	162.56 ug/L	95
46) 1,1,2-trichloroethane	9.74	83	2120399	189.49 ug/L	99
47) 1,3-dichloropropane	9.99	76	4266025	189.59 ug/L	99
48) tetrachloroethene	9.96	164	1374888	164.60 ug/L	98
49) trans-1,3-dichloropropene	9.46	75	3481536	208.38 ug/L	98
50) 2-hexanone	10.13	43	2784027	268.89 ug/L	98
51) dibromochloromethane	10.36	129	3090987	223.11 ug/L	99
52) 1,2-dibromoethane	10.52	107	2953286	188.69 ug/L #	97
53) chlorobenzene	11.31	112	5630183	167.08 ug/L	99
54) 1,1,1,2-tetrachloroethane	11.46	131	2344015	202.01 ug/L	99
55) ethylbenzene	11.50	91	8050724	169.42 ug/L	99
56) m,p-xylene	11.70	106	6303374	327.85 ug/L	97
57) butyl acrylate	12.35	55	7117348	232.57 ug/L	96
58) o-xylene	12.36	106	3201638	164.79 ug/L	98
59) styrene	12.39	104	6063159	175.51 ug/L	99
60) isopropylbenzene	13.00	105	6488221	171.70 ug/L	97
61) bromobenzene	13.50	156	2532449	191.86 ug/L	97
62) bromoform	12.70	173	2187898	222.56 ug/L	99
64) 1,2,3-trichloropropane	13.59	75	2731807	213.19 ug/L	95
65) n-propylbenzene	13.70	91	8418900	176.31 ug/L	97
66) 2-chlorotoluene	13.84	91	5418788	175.12 ug/L	98
67) 4-chlorotoluene	14.03	91	5951470	173.56 ug/L	99
68) 1,3,5-trimethylbenzene	14.03	105	5641424	177.30 ug/L	98
70) 1,1,2,2-tetrachloroethane	13.55	83	3677883	189.69 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D Vial: 8
Acq On : 14 Aug 2008 10:40 pm Operator: BR
Sample : ,ical,ical W 200 ppb,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) tert-butylbenzene	14.56	119	4681151	175.18 ug/L	97
72) sec-butylbenzene	14.91	105	6479948	162.58 ug/L	97
73) 1,2,4-trimethylbenzene	14.64	105	6218707	173.42 ug/L	98
74) 1,3-dichlorobenzene	15.07	146	3841370	184.64 ug/L	99
75) p-isopropyltoluene	15.14	119	5333418	177.96 ug/L	96
76) dicyclopentadiene	15.22	66	8285197	174.30 ug/L	99
77) 1,4-dichlorobenzene	15.21	146	3870660	181.73 ug/L	99
78) 1,2-dichlorobenzene	15.75	146	3685279	185.17 ug/L	98
79) n-butylbenzene	15.75	91	4327502	181.71 ug/L	99
80) 1,2-dibromo-3-chloropropan	16.82	75	485916	236.54 ug/L	98
81) 1,2,4-trichlorobenzene	17.85	180	1655792	239.97 ug/L	97
82) hexachlorobutadiene	18.06	225	626880	210.49 ug/L	97
83) naphthalene	18.10	128	5292816	285.07 ug/L	100
84) 1,2,3-trichlorobenzene	18.37	180	1468647	235.86 ug/L	96
85) 2-Methylnaphthalene	19.21	142	1705342	460.81 ug/L	98

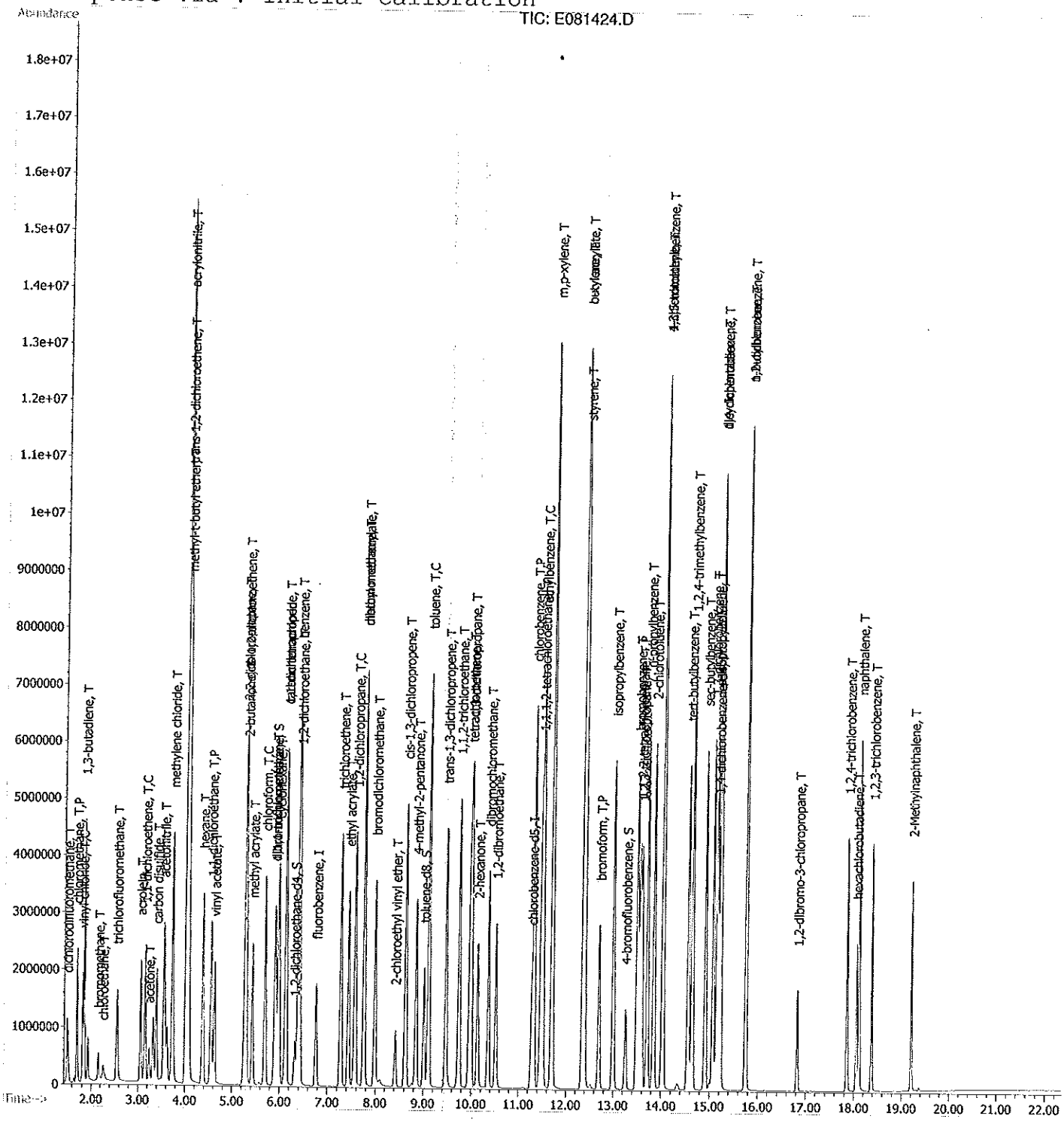
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E081408\E081424.D
Acq On : 14 Aug 2008 10:40 pm
Sample : ,ical,ical W 200 ppb,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 15 9:45 2008 Quant Results File: WTR0814.RES

Vial: 8
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 09:38:29 2008
Response via : Initial Calibration



Response Factor Report VOA 4

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:04:39 2008
Response via : Initial Calibration

Avg % RSD = 7.27%

Calibration Files

70 = D081809.D

624: all <35% RSD

5	=D081812.D	10	=D081811.D	20	=D081810.D
50	=D081813.D	100	=D081808.D	200	=D081807.D

		Compound	5	10	20	50	100	200	Avg	%RSD
1)	I	fluorobenzene	----------ISTD----------							
2)	T	dichlorodifluoromet	0.308	0.376	0.362	0.423	0.427	0.429	0.389	11.42
3)	T,P	chloromethane	PQL=10	0.230	0.233	0.193	0.248	0.223	0.226	8.11
4)	T,C	vinyl chloride	0.302	0.374	0.367	0.342	0.400	0.420	0.370	10.40
5)	T	1,3-butadiene	PQL=10	0.434	0.421	0.374	0.384	0.400	0.397	6.69
6)	T	bromomethane	↓	0.072	0.111	0.092	0.147	0.133	0.116	24.98
7)	T	chloroethane	0.189	0.220	0.207	0.232	UQL=70		0.196	20.01
8)	T	trichlorofluorometh	0.359	0.464	0.442	0.516	0.482	0.556	0.466	13.37
9)	T	acrolein	0.025	0.022	0.021	0.022	0.024	0.024	0.023	7.41
10)	T,C	1,1-dichloroethene	0.185	0.225	0.212	0.243	0.255	0.244	0.228	10.42
11)	T	acetone	PQL=50	0.250	0.184	0.147	0.148	0.138	0.170	24.66
12)	T	carbon disulfide	0.876	0.907	0.816	0.896	0.940	0.879	0.882	4.38
13)	T	methylene chloride	PQL=10	0.539	0.363	0.293	0.321	0.289	0.349	27.84
14)	T	acrylonitrile	0.124	0.113	0.110	0.104	0.114	0.115	0.114	5.74
15)	T	trans-1,2-dichloroe	0.232	0.258	0.233	0.265	0.270	0.258	0.253	6.00
16)	T	methyl-t-butyl ethe	0.813	0.784	0.736	0.782	0.821	0.808	0.793	3.65
17)	T	acetonitrile	0.056	0.051	0.048	0.042	0.051	0.052	0.051	8.76
18)	T	hexane	PQL=20		0.536	0.504	0.504	0.505	0.501	5.71
19)	T,P	1,1-dichloroethane	0.449	0.506	0.483	0.533	0.565	0.532	0.513	7.44
20)	T	vinyl acetate	PQL=10	0.343	0.329	0.359	0.412	0.419	0.376	9.99
21)	T	cis-1,2-dichloroeth	0.267	0.284	0.259	0.283	0.299	0.284	0.279	4.68
22)	T	2,2-dichloropropane	0.315	0.371	0.363	0.431	0.451	0.443	0.398	12.50
23)	T	2-butanone	PQL=10	0.033	0.028	0.032	0.035	0.036	0.033	9.35
24)	T	methyl acrylate	↓	0.337	0.323	0.280	0.302	0.335	0.315	6.90
25)	T,C	chloroform	0.459	0.477	0.446	0.496	0.518	0.490	0.480	4.99
26)	S	dibromofluoromethan	0.285	0.285	0.281	0.283	0.281	0.277	0.282	1.05
27)	T	1,1,1-trichloroetha	0.350	0.391	0.381	0.427	0.450	0.424	0.405	8.26
28)	T	cyclohexane	PQL=10	0.564	0.573	0.556	0.540	0.541	0.547	4.12
29)	T	carbon tetrachlorid	0.246	0.290	0.279	0.320	0.341	0.325	0.302	10.68
30)	S	1,2-dichloroethane-	0.401	0.402	0.389	0.375	0.378	0.373	0.385	3.14
31)	T	benzene	1.099	0.973	0.931	1.007	1.048	0.984	1.003	5.46
32)	T	1,1-dichloropropene	0.340	0.387	0.365	0.404	0.433	0.407	0.391	7.81
33)	T	1,2-dichloroethane	0.474	0.486	0.441	0.473	0.496	0.474	0.473	3.68
34)	T	trichloroethene	0.227	0.260	0.241	0.276	0.289	0.275	0.262	8.20
35)	T	ethyl acrylate	PQL=10	0.511	0.495	0.446	0.469	0.506	0.485	5.04
36)	T,C	1,2-dichloropropane	0.269	0.275	0.264	0.273	0.306	0.282	0.279	4.93
37)	T	methyl methacrylate	PQL=10	0.411	0.394	0.343	0.360	0.384	0.376	6.52
38)	T	dibromomethane	0.176	0.179	0.161	0.164	0.179	0.171	0.172	4.10
39)	T	bromodichloromethan	0.370	0.373	0.348	0.388	0.415	0.392	0.382	5.50
40)	T	2-chloroethyl vinyl	PQL=10	0.134	0.128	0.158	0.185	0.190	0.162	16.25
41)	I	chlorobenzene-d5	----------ISTD----------							
42)	T	cis-1,3-dichloropro	0.563	0.583	0.564	0.633	0.674	0.695	0.622	8.58
43)	T	4-methyl-2-pentanon	0.563	0.524	0.509	0.484	0.564	0.579	0.544	7.12
44)	S	toluene-d8	1.284	1.296	1.305	1.270	1.295	1.343	1.297	1.79
45)	T,C	toluene	0.865	0.893	0.872	0.916	0.948	0.939	0.907	3.50
46)	T	1,1,2-trichloroetha	0.280	0.263	0.261	0.271	0.294	0.291	0.278	4.79
47)	T	1,3-dichloropropane	0.635	0.615	0.599	0.634	0.682	0.677	0.643	4.83
48)	T	tetrachloroethene	0.242	0.278	0.262	0.281	0.294	0.293	0.275	6.59
49)	T	trans-1,3-dichlorop	0.445	0.439	0.444	0.500	0.557	0.582	0.499	11.74
50)	T	2-hexanone	PQL=10	0.358	0.355	0.346	0.408	0.413	0.385	9.56
51)	T	dibromochloromethan	0.362	0.351	0.347	0.368	0.401	0.395	0.372	5.71
52)	T	1,2-dibromoethane	0.354	0.352	0.342	0.345	0.381	0.382	0.362	4.78
53)	T,P	chlorobenzene	0.894	0.931	0.887	0.964	0.999	0.954	0.939	4.18
54)	T	1,1,1,2-tetrachloro	0.310	0.329	0.315	0.347	0.363	0.347	0.336	5.70
55)	T,C	ethylbenzene	1.626	1.754	1.660	1.793	1.839	1.722	1.736	4.25

(#) = Out of Range ### Number of calibration levels exceeded format ###

VOA0818.M Tue Aug 19 08:05:55 2008 VOA4

CB 8/20/08

A 8/19/08

Response Factor Report VOA 4

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:04:39 2008
Response via : Initial Calibration

Calibration Files
5 =D081812.D 10 =D081811.D 20 =D081810.D
50 =D081813.D 100 =D081808.D 200 =D081807.D

		Compound	5	10	20	50	100	200	Avg	%RSD
56)	T	m,p-xylene	0.583	0.651	0.606	0.653	0.664	0.620	0.630	4.58
57)	T	butyl acrylate	PQL10	1.165	1.150	1.032	1.073	1.125	1.112	4.50
58)	T	o-xylene	0.579	0.604	0.583	0.631	0.642	0.606	0.608	3.80
59)	T	styrene	1.008	1.069	1.013	1.111	1.144	1.089	1.074	4.61
60)	T	isopropylbenzene	1.297	1.458	1.415	1.533	1.570	1.494	1.465	6.11
61)	T	bromobenzene	0.353	0.365	0.345	0.371	0.397	0.372	0.369	4.52
62)	T,P	bromoform	0.202	0.218	0.214	0.238	0.274	0.271	0.240	12.53
63)	S	4-bromofluorobenzen	0.583	0.586	0.575	0.580	0.575	0.579	0.579	0.72
64)	T	1,2,3-trichloroprop	0.432	0.412	0.393	0.360	0.422	0.394	0.406	6.19
65)	T	n-propylbenzene	1.836	2.041	1.966	2.128	2.189	2.007	2.035	5.66
66)	T	2-chlorotoluene	1.191	1.249	1.192	1.295	1.338	1.259	1.256	4.21
67)	T	4-chlorotoluene	1.366	1.437	1.364	1.494	1.531	1.434	1.440	4.29
68)	T	1,3,5-trimethylbenz	1.263	1.393	1.296	1.416	1.446	1.348	1.363	4.80
69)	I	1,4-dichlorobenzene-d	----------ISTD----------							
70)	T,P	1,1,2,2-tetrachloro	0.975	0.935	0.925	0.888	1.028	1.036	0.976	6.31
71)	T	tert-butylbenzene	2.152	2.264	2.273	2.474	2.572	2.514	2.383	6.48
72)	T	sec-butylbenzene	3.486	3.754	3.635	4.024	4.064	3.936	3.825	5.52
73)	T	1,2,4-trimethylbenz	2.752	2.982	2.781	3.043	3.170	3.109	2.990	5.46
74)	T	1,3-dichlorobenzene	1.341	1.415	1.355	1.460	1.529	1.496	1.437	4.87
75)	T	p-isopropyltoluene	2.683	2.948	2.830	3.109	3.196	3.096	2.982	5.97
76)	T	dicyclopentadiene	3.571	5.040	4.911	4.561	4.373	4.499	4.473	10.64
77)	T	1,4-dichlorobenzene	1.469	1.531	1.375	1.484	1.538	1.494	1.481	3.64
78)	T	1,2-dichlorobenzene	1.310	1.371	1.288	1.384	1.453	1.423	1.377	4.34
79)	T	n-butylbenzene	2.883	3.059	2.987	3.298	3.368	3.229	3.151	5.64
80)	T	1,2-dibromo-3-chlor	0.244	0.212	0.205	0.184	0.224	0.228	0.218	9.20
81)	T	1,2,4-trichlorobenz	1.122	1.126	1.068	1.129	1.181	1.150	1.128	3.01
82)	T	hexachlorobutadiene	PQL10	0.623	0.643	0.652	0.694	0.660	0.656	3.61
83)	T	naphthalene		2.568	2.604	2.320	2.671	2.526	2.561	5.13
84)	T	1,2,3-trichlorobenz	1.121	1.061	1.020	1.038	1.088	1.041	1.058	3.34
85)	T	2-methylnaphthalene	PQL10	1.646	1.677	1.190	1.355	1.310	1.427	13.56

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081812.D Vial: 12
Acq On : 18 Aug 2008 6:27 pm Operator: jdb
Sample : ,ICAL,ICAL 5PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:25 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.97	96	1366484	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.76	117	923623	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	445790	50.00 ug/L	-0.04
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	389994	53.82 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	548222	62.59 ug/L	-0.04
44) toluene-d8	9.33	98	1185871	50.57 ug/L	-0.03
63) 4-bromofluorobenzene	13.89	95	538472	54.35 ug/L	-0.04
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.57	85	42035	4.01 ug/L	91
3) chloromethane	1.85	50	49023m1	4.06 ug/L	
4) vinyl chloride	1.87	62	41327	3.36 ug/L	99
5) 1,3-butadiene	1.90	39	35506	3.83 ug/L	94
6) bromomethane	2.23	94	12543	3.83 ug/L #	66
7) chloroethane	2.34	64	25863	2.98 ug/L	79
8) trichlorofluoromethane	2.62	101	49021	4.30 ug/L	86
9) acrolein	3.15	56	34710	54.81 ug/L	100
10) 1,1-dichloroethene	3.23	96	25240	3.49 ug/L #	71
11) acetone	3.33	43	107585	21.58 ug/L	90
12) carbon disulfide	3.47	76	119687	5.66 ug/L	98
13) methylene chloride	3.83	84	79217	6.92 ug/L	93
14) acrylonitrile	4.16	53	170089	52.34 ug/L	96
15) trans-1,2-dichloroethene	4.14	96	31646	3.91 ug/L	91
16) methyl-t-butyl ether	4.13	73	111156	5.00 ug/L	98
17) acetonitrile	3.69	41	77128	49.96 ug/L	96
18) hexane	4.43	57	48372	2.49 ug/L #	95
19) 1,1-dichloroethane	4.67	63	61329	3.93 ug/L	95
20) vinyl acetate	4.74	43	46603	3.59 ug/L	100
21) cis-1,2-dichloroethene	5.43	96	36536	4.12 ug/L	94
22) 2,2-dichloropropane	5.40	77	43111	3.84 ug/L #	88
23) 2-butanone	5.47	72	11081	10.86 ug/L #	93
24) methyl acrylate	5.57	55	38703	4.44 ug/L #	98
25) chloroform	5.87	83	62669	4.53 ug/L	93
27) 1,1,1-trichloroethane	6.06	97	47816m3	4.54 ug/L	
28) cyclohexane	6.10	56	47791	3.03 ug/L	94
29) carbon tetrachloride	6.27	117	33651	5.05 ug/L	93
31) benzene	6.57	78	150139	4.85 ug/L	92
32) 1,1-dichloropropene	6.29	75	46525	3.97 ug/L	95
33) 1,2-dichloroethane	6.65	62	64839	5.52 ug/L	94
34) trichloroethene	7.49	95	31017	3.92 ug/L	95
35) ethyl acrylate	7.68	55	60118	4.51 ug/L	96
36) 1,2-dichloropropane	7.86	63	36758	4.12 ug/L	84
37) methyl methacrylate	8.01	41	44674	4.50 ug/L	86
38) dibromomethane	8.04	93	24023	4.80 ug/L	95
39) bromodichloromethane	8.30	83	50608	4.69 ug/L	94
40) 2-chloroethyl vinyl ether	8.75	63	19497	3.94 ug/L	97
42) cis-1,3-dichloropropene	8.97	75	51956	3.78 ug/L	87
43) 4-methyl-2-pentanone	9.20	43	52039	4.69 ug/L	96
45) toluene	9.44	92	79888	4.09 ug/L	95
46) 1,1,2-trichloroethane	10.18	83	25896	4.36 ug/L	92
47) 1,3-dichloropropane	10.45	76	58666	4.31 ug/L	100
48) tetrachloroethene	10.31	164	22363	4.14 ug/L	94
49) trans-1,3-dichloropropene	9.88	75	41067	3.62 ug/L	90

(#) = qualifier out of range (m) = manual integration

JN 8/18/08

MK/9/W

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081812.D Vial: 12
Acq On : 18 Aug 2008 6:27 pm Operator: jdb
Sample : ,ICAL,ICAL 5PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:25 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

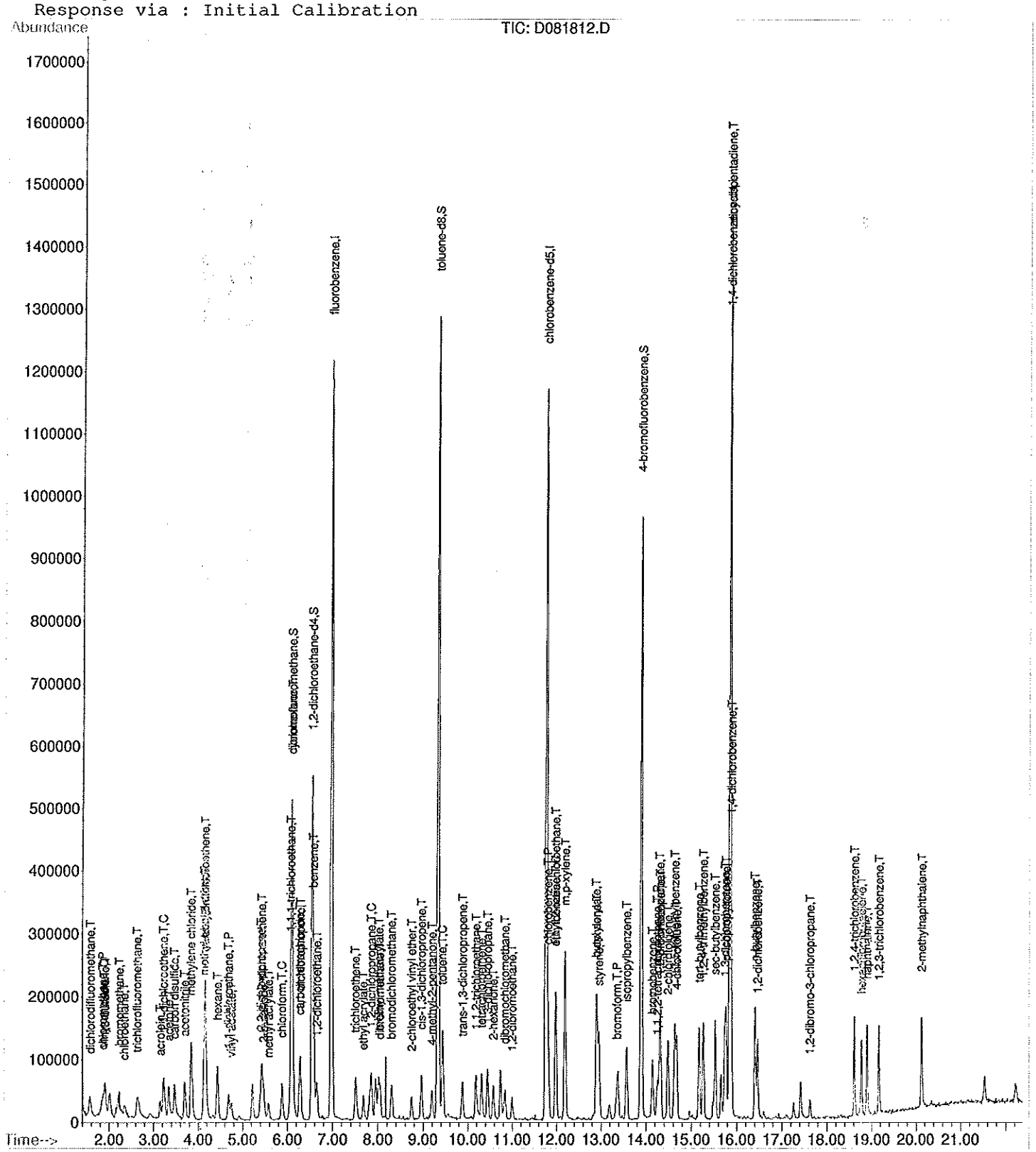
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	2-hexanone	10.57	43	64527	8.04	ug/L		97
51)	dibromochloromethane	10.83	129	33446	4.80	ug/L		98
52)	1,2-dibromoethane	10.99	107	32725	4.35	ug/L	#	96
53)	chlorobenzene	11.81	112	82554	4.31	ug/L		98
54)	1,1,1,2-tetrachloroethane	11.98	131	28588	4.51	ug/L		94
55)	ethylbenzene	11.98	91	150155	4.28	ug/L		91
56)	m,p-xylene	12.19	106	107779	8.21	ug/L	#	88
57)	butyl acrylate	12.88	55	88365	4.24	ug/L		86
58)	o-xylene	12.90	106	53451	4.15	ug/L		91
59)	styrene	12.96	104	93075	4.10	ug/L		94
60)	isopropylbenzene	13.57	105	119766	4.03	ug/L		99
61)	bromobenzene	14.15	156	32622	4.39	ug/L		90
62)	bromoform	13.35	173	18695	4.18	ug/L		87
64)	1,2,3-trichloropropane	14.30	75	39937	5.04	ug/L		97
65)	n-propylbenzene	14.32	91	169548	4.04	ug/L		99
66)	2-chlorotoluene	14.49	91	110048	4.46	ug/L		98
67)	4-chlorotoluene	14.68	91	126136	4.55	ug/L		98
68)	1,3,5-trimethylbenzene	14.64	105	116623	4.47	ug/L		93
70)	1,1,2,2-tetrachloroethane	14.25	83	43460	4.12	ug/L		97
71)	tert-butylbenzene	15.17	119	95925	4.15	ug/L		95
72)	sec-butylbenzene	15.54	105	155401	3.98	ug/L		97
73)	1,2,4-trimethylbenzene	15.27	105	122683	4.22	ug/L		95
74)	1,3-dichlorobenzene	15.74	146	59791	4.12	ug/L		92
75)	p-isopropyltoluene	15.77	119	119584	4.15	ug/L		97
76)	dicyclopentadiene	15.86	66	159195	3.50	ug/L		92
77)	1,4-dichlorobenzene	15.88	146	65481	4.46	ug/L		97
78)	1,2-dichlorobenzene	16.46	146	58378	4.25	ug/L		94
79)	n-butylbenzene	16.41	91	128508	4.00	ug/L		98
80)	1,2-dibromo-3-chloropropan	17.62	75	10873	5.43	ug/L	#	81
81)	1,2,4-trichlorobenzene	18.61	180	50034	4.50	ug/L		96
82)	hexachlorobutadiene	18.78	225	27306	5.16	ug/L		96
83)	naphthalene	18.90	128	135193	5.20	ug/L		100
84)	1,2,3-trichlorobenzene	19.17	180	49984	4.83	ug/L		97
85)	2-methylnaphthalene	20.12	142	90298	6.24	ug/L		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081812.D Vial: 12
Acq On : 18 Aug 2008 6:27 pm Operator: jdb
Sample : ,ICAL,ICAL 5PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:25 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081811.D
Acq On : 18 Aug 2008 5:52 pm
Sample : ,ICAL,ICAL 10PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:22 2008

Vial: 11
Operator: jdb
Inst : VOA 4
Multiplr: 1.00
Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1311830	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.76	117	902041	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	435631	50.00 ug/L	-0.04
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	374030	53.77 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	526870	62.66 ug/L	-0.03
44) toluene-d8	9.33	98	1169137	51.05 ug/L	-0.03
63) 4-bromofluorobenzene	13.89	95	528259	54.60 ug/L	-0.04
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	98731	9.81 ug/L	92
3) chloromethane	1.85	50	60362m2	5.21 ug/L	
4) vinyl chloride	1.88	62	98163	8.31 ug/L	87
5) 1,3-butadiene	1.91	39	113977	12.80 ug/L	90
6) bromomethane	2.23	94	19016	6.05 ug/L	92
7) chloroethane	2.34	64	57735	6.94 ug/L	87
8) trichlorofluoromethane	2.63	101	121690	11.11 ug/L	94
9) acrolein	3.14	56	57054	93.84 ug/L	100
10) 1,1-dichloroethene	3.22	96	59120	8.51 ug/L	95
11) acetone	3.33	43	65536	13.69 ug/L	91
12) carbon disulfide	3.46	76	238044	11.73 ug/L	99
13) methylene chloride	3.84	84	141454	12.86 ug/L	96
14) acrylonitrile	4.16	53	296752	95.12 ug/L	96
15) trans-1,2-dichloroethene	4.14	96	67628	8.71 ug/L	95
16) methyl-t-butyl ether	4.13	73	205773	9.64 ug/L	93
17) acetonitrile	3.69	41	134198	90.56 ug/L	99
18) hexane	4.44	57	164852	8.83 ug/L #	98
19) 1,1-dichloroethane	4.69	63	132743	8.85 ug/L	96
20) vinyl acetate	4.75	43	90116	7.22 ug/L	98
21) cis-1,2-dichloroethene	5.44	96	74395	8.73 ug/L	87
22) 2,2-dichloropropane	5.40	77	97356	9.03 ug/L	100
23) 2-butanone	5.48	72	8576m3	8.76 ug/L	
24) methyl acrylate	5.58	55	88514	10.57 ug/L #	98
25) chloroform	5.88	83	125029	9.42 ug/L	99
27) 1,1,1-trichloroethane	6.06	97	102593	10.15 ug/L	94
28) cyclohexane	6.10	56	147886	9.76 ug/L	93
29) carbon tetrachloride	6.27	117	76169	11.92 ug/L	93
31) benzene	6.58	78	255223	8.58 ug/L	98
32) 1,1-dichloropropene	6.29	75	101472	9.03 ug/L	99
33) 1,2-dichloroethane	6.65	62	127604	11.31 ug/L	93
34) trichloroethene	7.49	95	68330	8.99 ug/L	92
35) ethyl acrylate	7.67	55	134037	10.47 ug/L	97
36) 1,2-dichloropropane	7.85	63	72113	8.41 ug/L	86
37) methyl methacrylate	8.01	41	107708	11.29 ug/L	97
38) dibromomethane	8.05	93	47061	9.80 ug/L	96
39) bromodichloromethane	8.31	83	97812	9.44 ug/L	100
40) 2-chloroethyl vinyl ether	8.74	63	35284	7.43 ug/L	96
42) cis-1,3-dichloropropene	8.97	75	105251	7.83 ug/L	94
43) 4-methyl-2-pentanone	9.20	43	94601	8.72 ug/L	91
45) toluene	9.44	92	161129	8.44 ug/L	97
46) 1,1,2-trichloroethane	10.19	83	47503	8.19 ug/L	91
47) 1,3-dichloropropane	10.45	76	111038	8.36 ug/L	100
48) tetrachloroethene	10.31	164	50066	9.49 ug/L	97
49) trans-1,3-dichloropropene	9.88	75	79141	7.13 ug/L	92

JN 8/18/08

MS 8/19/08

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081811.D Vial: 11
Acq On : 18 Aug 2008 5:52 pm Operator: jdb
Sample : ,ICAL,ICAL 10PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:22 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

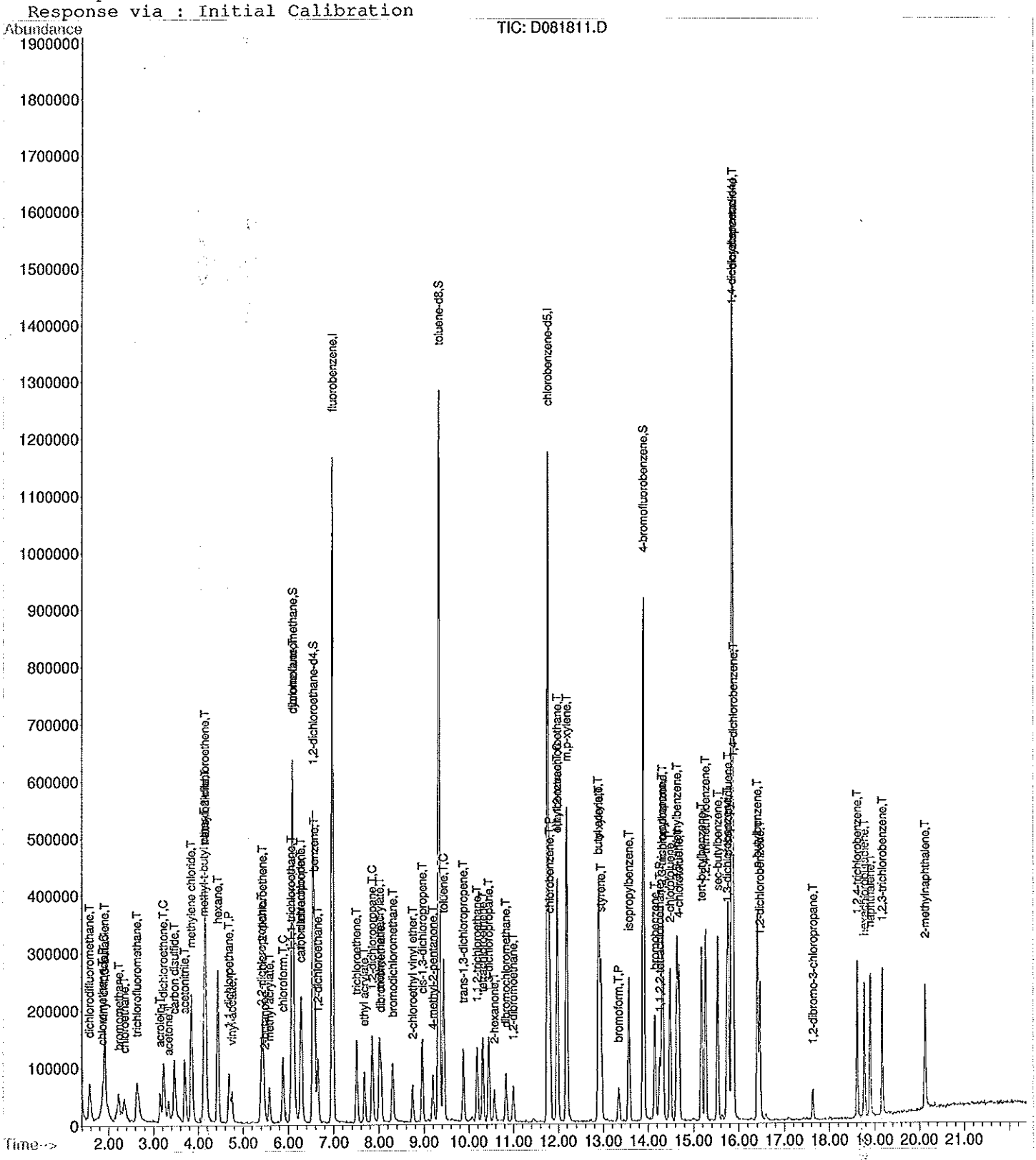
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	2-hexanone	10.57	43	64540	8.24	ug/L		98
51)	dibromochloromethane	10.83	129	63234	9.30	ug/L		96
52)	1,2-dibromoethane	11.00	107	63581	8.65	ug/L	#	93
53)	chlorobenzene	11.81	112	167960	8.97	ug/L		94
54)	1,1,1,2-tetrachloroethane	11.97	131	59410	9.60	ug/L		97
55)	ethylbenzene	11.98	91	316434	9.23	ug/L		98
56)	m,p-xylene	12.19	106	234923	18.33	ug/L		96
57)	butyl acrylate	12.88	55	210255	10.33	ug/L		91
58)	o-xylene	12.91	106	108926	8.65	ug/L	#	87
59)	styrene	12.95	104	192896	8.70	ug/L		89
60)	isopropylbenzene	13.57	105	262955	9.07	ug/L		97
61)	bromobenzene	14.15	156	65939	9.09	ug/L		94
62)	bromoform	13.35	173	39288	9.00	ug/L		91
64)	1,2,3-trichloropropane	14.30	75	74319	9.60	ug/L		93
65)	n-propylbenzene	14.32	91	368226	8.97	ug/L		98
66)	2-chlorotoluene	14.49	91	225324	9.35	ug/L		98
67)	4-chlorotoluene	14.68	91	259293	9.58	ug/L		98
68)	1,3,5-trimethylbenzene	14.64	105	251391	9.86	ug/L		93
70)	1,1,2,2-tetrachloroethane	14.26	83	81480	7.90	ug/L		99
71)	tert-butylbenzene	15.18	119	197292	8.74	ug/L		92
72)	sec-butylbenzene	15.53	105	327035	8.57	ug/L		99
73)	1,2,4-trimethylbenzene	15.26	105	259781	9.13	ug/L		94
74)	1,3-dichlorobenzene	15.74	146	123278	8.69	ug/L		96
75)	p-isopropyltoluene	15.77	119	256832	9.13	ug/L		96
76)	dicyclopentadiene	15.87	66	439091	9.87	ug/L		98
77)	1,4-dichlorobenzene	15.89	146	133413	9.29	ug/L		97
78)	1,2-dichlorobenzene	16.47	146	119464	8.89	ug/L		99
79)	n-butylbenzene	16.41	91	266517	8.49	ug/L		97
80)	1,2-dibromo-3-chloropropan	17.63	75	18443	9.42	ug/L		94
81)	1,2,4-trichlorobenzene	18.61	180	98116	9.02	ug/L		98
82)	hexachlorobutadiene	18.78	225	54303	10.51	ug/L		93
83)	naphthalene	18.90	128	223715	8.81	ug/L		100
84)	1,2,3-trichlorobenzene	19.17	180	92423	9.15	ug/L		94
85)	2-methylnaphthalene	20.12	142	143430	10.15	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081811.D Vial: 11
Acq On : 18 Aug 2008 5:52 pm Operator: jdb
Sample : ,ICAL,ICAL 10PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:22 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



D081811.D VOA0818.M Mon Aug 18 19:22:53 2008 VOA4 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081810.D
Acq On : 18 Aug 2008 5:17 pm
Sample : ,ICAL,ICAL 20PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:20 2008

Vial: 10
Operator: jdb
Inst : VOA 4
Multiplr: 1.00
Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1389574	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.76	117	923074	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	446336	50.00 ug/L	-0.04
System Monitoring Compounds					
26) dibromofluoromethane	6.09	113	390698	53.02 ug/L	-0.04
30) 1,2-dichloroethane-d4	6.54	65	540937	60.73 ug/L	-0.03
44) toluene-d8	9.33	98	1204386	51.39 ug/L	-0.03
63) 4-bromofluorobenzene	13.89	95	530327	53.56 ug/L	-0.04
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	201390	18.89 ug/L	93
3) chloromethane	1.84	50	129647m2	10.56 ug/L	
4) vinyl chloride	1.87	62	204246	16.32 ug/L	95
5) 1,3-butadiene	1.91	39	233727	24.78 ug/L	92
6) bromomethane	2.22	94	61956	18.61 ug/L	96
7) chloroethane	2.35	64	115253	13.08 ug/L	93
8) trichlorofluoromethane	2.62	101	245844	21.19 ug/L	96
9) acrolein	3.15	56	118504	184.01 ug/L	100
10) 1,1-dichloroethene	3.22	96	118018	16.04 ug/L	96
11) acetone	3.33	43	102204	20.16 ug/L	98
12) carbon disulfide	3.47	76	453714	21.10 ug/L	98
13) methylene chloride	3.84	84	201844	17.33 ug/L	92
14) acrylonitrile	4.16	53	609194	184.35 ug/L	97
15) trans-1,2-dichloroethene	4.14	96	129286	15.71 ug/L #	84
16) methyl-t-butyl ether	4.13	73	409004	18.09 ug/L	98
17) acetonitrile	3.69	41	268523	171.06 ug/L	94
18) hexane	4.44	57	298102	15.07 ug/L #	22
19) 1,1-dichloroethane	4.68	63	268265	16.89 ug/L	98
20) vinyl acetate	4.75	43	182907	13.84 ug/L	97
21) cis-1,2-dichloroethene	5.43	96	143716	15.92 ug/L	94
22) 2,2-dichloropropane	5.40	77	201647	17.66 ug/L	97
23) 2-butanone	5.48	72	15602	15.04 ug/L #	90
24) methyl acrylate	5.58	55	179532	20.25 ug/L #	98
25) chloroform	5.88	83	248117	17.65 ug/L	100
27) 1,1,1-trichloroethane	6.07	97	211716	19.77 ug/L	93
28) cyclohexane	6.10	56	318557	19.85 ug/L	94
29) carbon tetrachloride	6.27	117	154893	22.88 ug/L	95
31) benzene	6.57	78	517523	16.43 ug/L	98
32) 1,1-dichloropropene	6.29	75	202628	17.01 ug/L	97
33) 1,2-dichloroethane	6.65	62	245329	20.52 ug/L	92
34) trichloroethene	7.49	95	134207	16.68 ug/L	96
35) ethyl acrylate	7.67	55	275138	20.29 ug/L	98
36) 1,2-dichloropropane	7.86	63	146499	16.14 ug/L	90
37) methyl methacrylate	8.01	41	218921	21.67 ug/L	92
38) dibromomethane	8.05	93	89674	17.64 ug/L	100
39) bromodichloromethane	8.30	83	193293	17.61 ug/L	95
40) 2-chloroethyl vinyl ether	8.75	63	70947	14.11 ug/L	99
42) cis-1,3-dichloropropene	8.96	75	208279	15.15 ug/L	91
43) 4-methyl-2-pentanone	9.20	43	188030	16.94 ug/L	98
45) toluene	9.44	92	322060	16.49 ug/L	97
46) 1,1,2-trichloroethane	10.19	83	96313	16.23 ug/L	95
47) 1,3-dichloropropane	10.45	76	221254	16.28 ug/L	99
48) tetrachloroethene	10.31	164	96763	17.92 ug/L	98
49) trans-1,3-dichloropropene	9.88	75	163882	14.44 ug/L	96

JN 8/18/08

(#) = qualifier out of range (m) = manual integration
D081810.D VOA0818.M Mon Aug 18 19:21:29 2008 VOA4

8/18/08

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081810.D
Acq On : 18 Aug 2008 5:17 pm
Sample : ,ICAL,ICAL 20PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:20 2008

Vial: 10
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

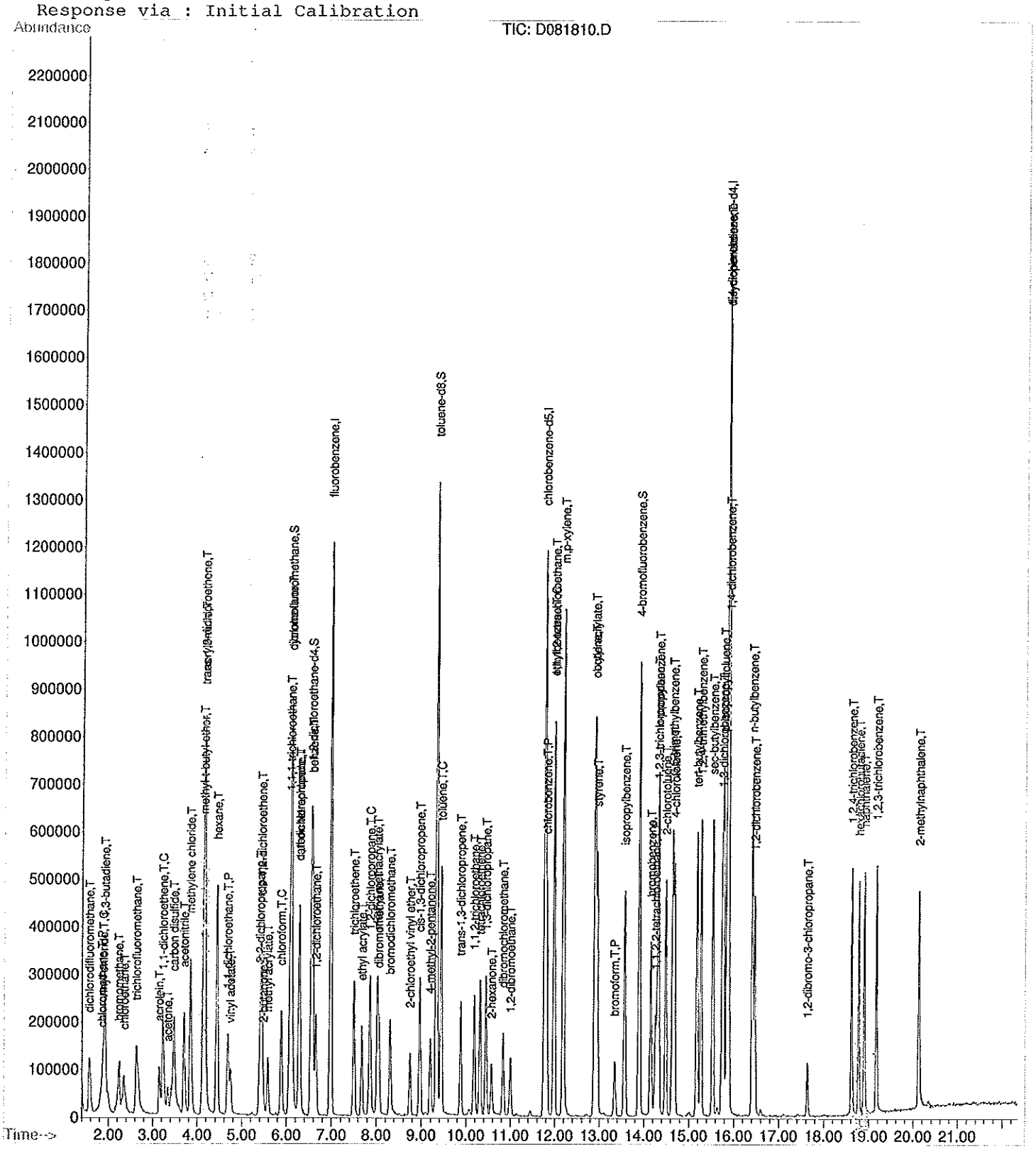
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	10.57	43	131107	16.35 ug/L	97
51) dibromochloromethane	10.83	129	128094	18.41 ug/L	96
52) 1,2-dibromoethane	11.00	107	126153	16.77 ug/L	98
53) chlorobenzene	11.81	112	327547	17.09 ug/L	89
54) 1,1,1,2-tetrachloroethane	11.98	131	116228	18.36 ug/L	97
55) ethylbenzene	11.98	91	612855	17.48 ug/L	95
56) m,p-xylene	12.19	106	447302	34.11 ug/L	92
57) butyl acrylate	12.89	55	424491	20.38 ug/L	96
58) o-xylene	12.91	106	215390	16.71 ug/L #	85
59) styrene	12.95	104	374187	16.50 ug/L	96
60) isopropylbenzene	13.57	105	522277	17.60 ug/L	99
61) bromobenzene	14.15	156	127542	17.18 ug/L	94
62) bromoform	13.35	173	78837	17.65 ug/L	96
64) 1,2,3-trichloropropane	14.30	75	145291	18.34 ug/L	97
65) n-propylbenzene	14.32	91	726085	17.29 ug/L	99
66) 2-chlorotoluene	14.49	91	439991	17.83 ug/L	98
67) 4-chlorotoluene	14.68	91	503515	18.17 ug/L	97
68) 1,3,5-trimethylbenzene	14.64	105	478345	18.34 ug/L	94
70) 1,1,2,2-tetrachloroethane	14.25	83	165064	15.62 ug/L	95
71) tert-butylbenzene	15.17	119	405848	17.56 ug/L	95
72) sec-butylbenzene	15.53	105	648955	16.59 ug/L	100
73) 1,2,4-trimethylbenzene	15.27	105	496527	17.04 ug/L	96
74) 1,3-dichlorobenzene	15.74	146	241978	16.66 ug/L	96
75) p-isopropyltoluene	15.78	119	505301	17.52 ug/L	97
76) dicyclopentadiene	15.87	66	876859	19.23 ug/L	98
77) 1,4-dichlorobenzene	15.89	146	245448	16.68 ug/L	99
78) 1,2-dichlorobenzene	16.46	146	229922	16.70 ug/L	97
79) n-butylbenzene	16.41	91	533328	16.57 ug/L	97
80) 1,2-dibromo-3-chloropropan	17.63	75	36517	18.21 ug/L	95
81) 1,2,4-trichlorobenzene	18.61	180	190703	17.12 ug/L	94
82) hexachlorobutadiene	18.78	225	114817	21.69 ug/L	95
83) naphthalene	18.90	128	464941	17.86 ug/L	100
84) 1,2,3-trichlorobenzene	19.17	180	182021	17.58 ug/L	93
85) 2-methylnaphthalene	20.12	142	299323	20.67 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081810.D Vial: 10
Acq On : 18 Aug 2008 5:17 pm Operator: jdb
Sample : ,ICAL,ICAL 20PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:20 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081813.D Vial: 6
Acq On : 18 Aug 2008 8:02 pm Operator: jdb
Sample : ,ICAL,ICAL 50PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 20:30 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Mon Aug 18 19:35:24 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1482618	50.00 ug/L	0.00
41) chlorobenzene-d5	11.76	117	1014994	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.85	152	487165	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	419678	50.43 ug/L	0.00
30) 1,2-dichloroethane-d4	6.54	65	555373	48.79 ug/L	0.00
44) toluene-d8	9.33	98	1289198	48.94 ug/L	0.00
63) 4-bromofluorobenzene	13.90	95	588515	50.27 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	627602	54.29 ug/L	96
3) chloromethane	1.83	50	285881	40.98 ug/L	90
4) vinyl chloride	1.88	62	507078	45.17 ug/L	97
5) 1,3-butadiene	1.91	39	554682	46.77 ug/L	94
6) bromomethane	2.23	94	136840	36.64 ug/L	98
7) chloroethane	2.33	64	343746	58.63 ug/L	88
8) trichlorofluoromethane	2.62	101	764451	55.40 ug/L	98
9) acrolein	3.15	56	321599	466.08 ug/L	100
10) 1,1-dichloroethene	3.22	96	360747	53.34 ug/L #	86
11) acetone	3.33	43	217975	42.25 ug/L	94
12) carbon disulfide	3.46	76	1328263	50.97 ug/L	100
13) methylene chloride	3.84	84	434568	40.58 ug/L	98
14) acrylonitrile	4.16	53	1543926	457.62 ug/L	99
15) trans-1,2-dichloroethene	4.14	96	393467	52.49 ug/L	90
16) methyl-t-butyl ether	4.13	73	1159386	49.29 ug/L	95
17) acetonitrile	3.69	41	626720	417.18 ug/L	96
18) hexane	4.44	57	747231	41.65 ug/L #	97
19) 1,1-dichloroethane	4.69	63	789913	51.93 ug/L	99
20) vinyl acetate	4.75	43	532229	48.06 ug/L	100
21) cis-1,2-dichloroethene	5.43	96	419608	50.74 ug/L	91
22) 2,2-dichloropropane	5.41	77	639351	54.45 ug/L	96
23) 2-butanone	5.47	72	47194	39.42 ug/L	92
24) methyl acrylate	5.58	55	415057	44.66 ug/L #	100
25) chloroform	5.88	83	735470	51.69 ug/L	98
27) 1,1,1-trichloroethane	6.06	97	633505	52.62 ug/L	98
28) cyclohexane	6.10	56	824030	51.28 ug/L	93
29) carbon tetrachloride	6.27	117	473847	52.90 ug/L	94
31) benzene	6.58	78	1492429	49.92 ug/L	98
32) 1,1-dichloropropene	6.28	75	599443	51.56 ug/L	100
33) 1,2-dichloroethane	6.65	62	700795	50.09 ug/L	98
34) trichloroethene	7.50	95	409263	52.58 ug/L	96
35) ethyl acrylate	7.67	55	661791	46.34 ug/L	98
36) 1,2-dichloropropane	7.85	63	405336	48.70 ug/L	92
37) methyl methacrylate	8.01	41	508059	45.62 ug/L	96
38) dibromomethane	8.05	93	243231	47.51 ug/L	98
39) bromodichloromethane	8.31	83	574660	50.80 ug/L	98
40) 2-chloroethyl vinyl ether	8.74	63	233683	48.39 ug/L	99
42) cis-1,3-dichloropropene	8.97	75	642152	50.64 ug/L	91
43) 4-methyl-2-pentanone	9.20	43	491349	44.28 ug/L	97
45) toluene	9.44	92	930195	50.29 ug/L	99
46) 1,1,2-trichloroethane	10.19	83	275323	48.53 ug/L	93
47) 1,3-dichloropropane	10.45	76	643485	49.11 ug/L	99
48) tetrachloroethene	10.31	164	284982	50.79 ug/L	98
49) trans-1,3-dichloropropene	9.88	75	507192	49.88 ug/L	95

(#) = qualifier out of range (m) = manual integration

JN 8/18/08 8/18/08

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081813.D Vial: 6
Acq On : 18 Aug 2008 8:02 pm Operator: jdb
Sample : ,ICAL,ICAL 50PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 20:30 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Mon Aug 18 19:35:24 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

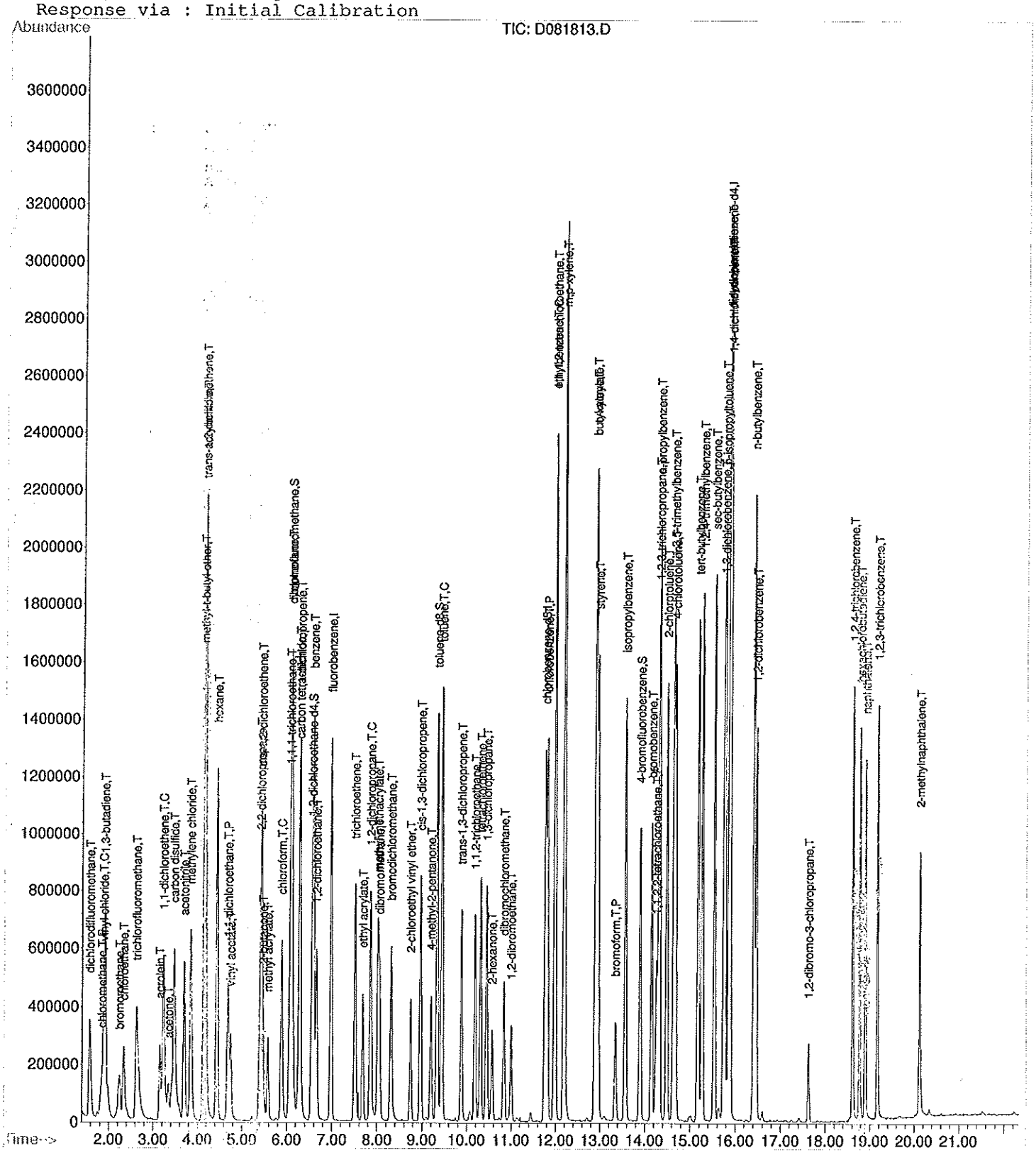
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	10.57	43	350852	39.79 ug/L	96
51) dibromochloromethane	10.84	129	373321	49.27 ug/L	99
52) 1,2-dibromoethane	11.00	107	349900	47.46 ug/L	100
53) chlorobenzene	11.81	112	978197	51.16 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.98	131	352422	51.48 ug/L	97
55) ethylbenzene	11.98	91	1819959	51.59 ug/L	93
56) m,p-xylene	12.19	106	1326493	103.61 ug/L	92
57) butyl acrylate	12.89	55	1047818	46.32 ug/L	99
58) o-xylene	12.90	106	640807	51.86 ug/L	91
59) styrene	12.95	104	1128106	51.64 ug/L	95
60) isopropylbenzene	13.57	105	1556331	52.25 ug/L	100
61) bromobenzene	14.15	156	377065	50.15 ug/L	96
62) bromoform	13.35	173	241276	49.20 ug/L	94
64) 1,2,3-trichloropropane	14.30	75	365886	44.16 ug/L	91
65) n-propylbenzene	14.33	91	2160064	52.26 ug/L	100
66) 2-chlorotoluene	14.49	91	1314168	51.46 ug/L	100
67) 4-chlorotoluene	14.68	91	1516719	51.85 ug/L	98
68) 1,3,5-trimethylbenzene	14.64	105	1437028	51.90 ug/L	96
70) 1,1,2,2-tetrachloroethane	14.25	83	432746	45.17 ug/L	99
71) tert-butylbenzene	15.18	119	1205221	51.79 ug/L	96
72) sec-butylbenzene	15.53	105	1960166	52.53 ug/L	99
73) 1,2,4-trimethylbenzene	15.27	105	1482204	50.74 ug/L	96
74) 1,3-dichlorobenzene	15.74	146	711054	50.48 ug/L	97
75) p-isopropyltoluene	15.77	119	1514741	51.96 ug/L	97
76) dicyclopentadiene	15.86	66	2221994	51.03 ug/L	99
77) 1,4-dichlorobenzene	15.89	146	723031	50.00 ug/L	100
78) 1,2-dichlorobenzene	16.46	146	674291	50.15 ug/L	97
79) n-butylbenzene	16.41	91	1606751	52.17 ug/L	98
80) 1,2-dibromo-3-chloropropan	17.63	75	89421	41.70 ug/L	98
81) 1,2,4-trichlorobenzene	18.61	180	549906	49.94 ug/L	98
82) hexachlorobutadiene	18.78	225	317866	50.06 ug/L	96
83) naphthalene	18.90	128	1130334	45.29 ug/L	100
84) 1,2,3-trichlorobenzene	19.17	180	505449	49.16 ug/L	97
85) 2-methylnaphthalene	20.12	142	579848	41.50 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081813.D Vial: 6
Acq On : 18 Aug 2008 8:02 pm Operator: jdb
Sample : ,ICAL,ICAL 50PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 20:30 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Mon Aug 18 19:35:24 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081809.D
Acq On : 18 Aug 2008 4:41 pm
Sample : ,ICAL,ICAL 70PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:19 2008

Vial: 9
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.98	96	1521706	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.76	117	1024477	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	479981	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	425060	52.68 ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	579099	59.37 ug/L	-0.04
44) toluene-d8	9.33	98	1316578	50.62 ug/L	-0.03
63) 4-bromofluorobenzene	13.90	95	590783	53.76 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	851624	72.95 ug/L	98
3) chloromethane	1.85	50	489570m2	36.41 ug/L	
4) vinyl chloride	1.87	62	813581	59.38 ug/L	96
5) 1,3-butadiene	1.90	39	782778	75.78 ug/L	95
6) bromomethane	2.23	94	291591	79.97 ug/L	98
7) chloroethane	2.32	64	280862	29.10 ug/L	88
8) trichlorofluoromethane	2.60	101	950079	74.78 ug/L	96
9) acrolein	3.15	56	536191	760.29 ug/L	96
10) 1,1-dichloroethene	3.21	96	491218	60.96 ug/L #	86
11) acetone	3.34	43	330859	59.60 ug/L	99
12) carbon disulfide	3.46	76	1833996	77.88 ug/L	99
13) methylene chloride	3.84	84	617701	48.42 ug/L	97
14) acrylonitrile	4.17	53	2547307	703.93 ug/L	97
15) trans-1,2-dichloroethene	4.14	96	542451	60.21 ug/L	91
16) methyl-t-butyl ether	4.13	73	1715998	69.31 ug/L	96
17) acetonitrile	3.69	41	1135348	660.47 ug/L	97
18) hexane	4.43	57	972208	44.88 ug/L #	97
19) 1,1-dichloroethane	4.68	63	1121915	64.51 ug/L	97
20) vinyl acetate	4.75	43	841940	58.19 ug/L	99
21) cis-1,2-dichloroethene	5.43	96	585842	59.27 ug/L	93
22) 2,2-dichloropropane	5.41	77	869826	69.56 ug/L	97
23) 2-butanone	5.47	72	77662	68.37 ug/L	95
24) methyl acrylate	5.58	55	664319	68.42 ug/L #	100
25) chloroform	5.88	83	1016095	65.99 ug/L	98
27) 1,1,1-trichloroethane	6.06	97	880180	75.06 ug/L	99
28) cyclohexane	6.09	56	1085066	61.73 ug/L	93
29) carbon tetrachloride	6.27	117	665266	89.73 ug/L	98
31) benzene	6.58	78	2094447	60.73 ug/L	98
32) 1,1-dichloropropene	6.29	75	850415	65.21 ug/L	99
33) 1,2-dichloroethane	6.65	62	985944	75.31 ug/L	99
34) trichloroethene	7.50	95	569895	64.67 ug/L	98
35) ethyl acrylate	7.67	55	1023679	68.93 ug/L	98
36) 1,2-dichloropropane	7.85	63	603488	60.71 ug/L	95
37) methyl methacrylate	8.01	41	781785	70.66 ug/L	95
38) dibromomethane	8.05	93	364337	65.44 ug/L	98
39) bromodichloromethane	8.30	83	820192	68.24 ug/L	99
40) 2-chloroethyl vinyl ether	8.75	63	376304	68.35 ug/L	98
42) cis-1,3-dichloropropene	8.97	75	924670	60.59 ug/L	93
43) 4-methyl-2-pentanone	9.20	43	841866	68.35 ug/L	97
45) toluene	9.44	92	1307366	60.30 ug/L	100
46) 1,1,2-trichloroethane	10.19	83	412450	62.62 ug/L	96
47) 1,3-dichloropropane	10.45	76	948856	62.91 ug/L	100
48) tetrachloroethene	10.31	164	398861	66.56 ug/L	95
49) trans-1,3-dichloropropene	9.88	75	757299	60.11 ug/L	96

JN 8/18/08

(#) = qualifier out of range (m) = manual integration
D081809.D VOA0818.M Mon Aug 18 19:20:24 2008 VOA4

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081809.D
Acq On : 18 Aug 2008 4:41 pm
Sample : ,ICAL,ICAL 70PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:19 2008

Vial: 9
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

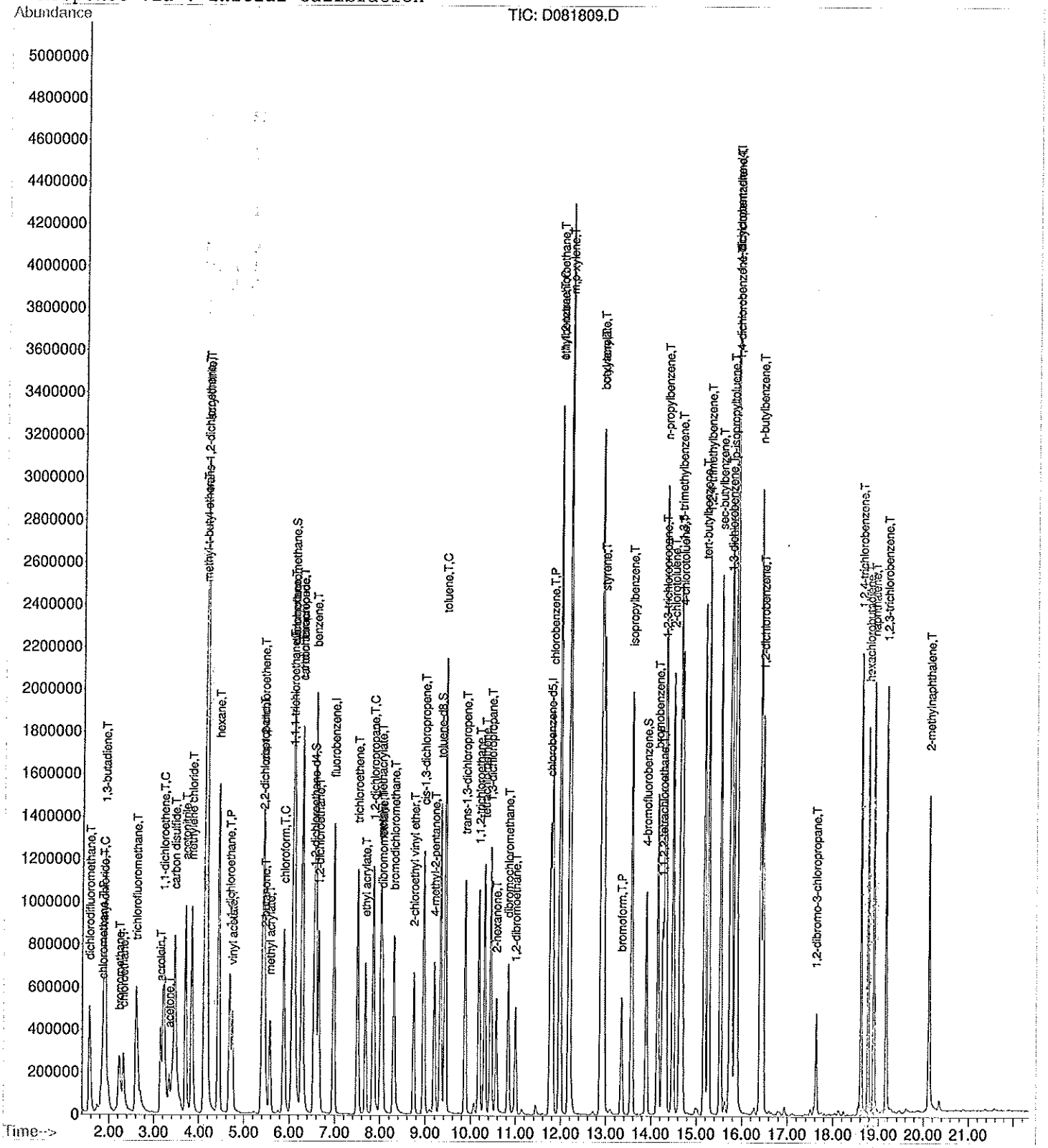
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	10.57	43	620601	69.75 ug/L	96
51) dibromochloromethane	10.84	129	551361	71.40 ug/L	96
52) 1,2-dibromoethane	11.00	107	536828	64.31 ug/L	99
53) chlorobenzene	11.81	112	1351915	63.57 ug/L	95
54) 1,1,1,2-tetrachloroethane	11.98	131	484967	69.03 ug/L	96
55) ethylbenzene	11.98	91	2519858	64.75 ug/L	96
56) m,p-xylene	12.19	106	1813007	124.55 ug/L	91
57) butyl acrylate	12.89	55	1615180	69.87 ug/L	97
58) o-xylene	12.91	106	878369	61.42 ug/L #	86
59) styrene	12.95	104	1558446	61.92 ug/L	94
60) isopropylbenzene	13.57	105	2139648	64.98 ug/L	99
61) bromobenzene	14.15	156	539361	65.46 ug/L	97
62) bromoform	13.35	173	383335	77.34 ug/L	98
64) 1,2,3-trichloropropane	14.30	75	612549	69.66 ug/L	99
65) n-propylbenzene	14.33	91	2977943	63.90 ug/L	100
66) 2-chlorotoluene	14.49	91	1816845	66.35 ug/L	98
67) 4-chlorotoluene	14.68	91	2084370	67.77 ug/L	97
68) 1,3,5-trimethylbenzene	14.64	105	1976600	68.27 ug/L	95
70) 1,1,2,2-tetrachloroethane	14.25	83	700893	61.66 ug/L	99
71) tert-butylbenzene	15.18	119	1631776	65.64 ug/L	94
72) sec-butylbenzene	15.53	105	2604159	61.92 ug/L	100
73) 1,2,4-trimethylbenzene	15.27	105	2076770	66.28 ug/L	95
74) 1,3-dichlorobenzene	15.74	146	983487	62.95 ug/L	98
75) p-isopropyltoluene	15.78	119	2025349	65.32 ug/L	96
76) dicyclopentadiene	15.87	66	2924486	59.64 ug/L	98
77) 1,4-dichlorobenzene	15.89	146	991163	62.64 ug/L	97
78) 1,2-dichlorobenzene	16.47	146	946200	63.91 ug/L	99
79) n-butylbenzene	16.41	91	2174482	62.83 ug/L	98
80) 1,2-dibromo-3-chloropropan	17.63	75	155807	72.26 ug/L	95
81) 1,2,4-trichlorobenzene	18.61	180	754497	62.98 ug/L	96
82) hexachlorobutadiene	18.78	225	446614	78.45 ug/L	99
83) naphthalene	18.90	128	1798178	64.24 ug/L	100
84) 1,2,3-trichlorobenzene	19.17	180	697235	62.63 ug/L	98
85) 2-methylnaphthalene	20.12	142	928563	59.62 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081809.D Vial: 9
Acq On : 18 Aug 2008 4:41 pm Operator: jdb
Sample : ,ICAL,ICAL 70PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:19 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081808.D Vial: 8
Acq On : 18 Aug 2008 4:05 pm Operator: jdb
Sample : ,ICAL,ICAL 100PPB 8260W,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 19:18 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	6.97	96	1482310	50.00	ug/L	-0.03
41) chlorobenzene-d5	11.77	117	1036025	50.00	ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	491158	50.00	ug/L	-0.03
System Monitoring Compounds						
26) dibromofluoromethane	6.10	113	416711	53.02	ug/L	-0.03
30) 1,2-dichloroethane-d4	6.54	65	559600	58.90	ug/L	-0.03
44) toluene-d8	9.33	98	1341492	51.00	ug/L	-0.03
63) 4-bromofluorobenzene	13.90	95	595574	53.60	ug/L	-0.03
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.56	85	1266035	111.33	ug/L	97
3) chloromethane	1.85	50	735694m2	56.17	ug/L	
4) vinyl chloride	1.87	62	1186225	88.88	ug/L	97
5) 1,3-butadiene	1.90	39	1138898	113.18	ug/L	94
6) bromomethane	2.22	94	435847	122.71	ug/L	100
7) chloroethane	2.31	64	341448	36.32	ug/L	85
8) trichlorofluoromethane	2.60	101	1429187	115.47	ug/L	99
9) acrolein	3.14	56	718826	1046.34	ug/L	97
10) 1,1-dichloroethene	3.22	96	757367	96.49	ug/L	96
11) acetone	3.34	43	439650	81.30	ug/L	91
12) carbon disulfide	3.46	76	2785291	121.43	ug/L	100
13) methylene chloride	3.84	84	953020	76.70	ug/L	98
14) acrylonitrile	4.17	53	3381451	959.27	ug/L	97
15) trans-1,2-dichloroethene	4.14	96	801522	91.32	ug/L	90
16) methyl-t-butyl ether	4.12	73	2433912	100.92	ug/L	96
17) acetonitrile	3.70	41	1522674	909.34	ug/L	98
18) hexane	4.43	57	1495170	70.85	ug/L #	98
19) 1,1-dichloroethane	4.68	63	1675109	98.88	ug/L	95
20) vinyl acetate	4.74	43	1220492	86.59	ug/L	100
21) cis-1,2-dichloroethene	5.43	96	885828	92.01	ug/L	96
22) 2,2-dichloropropane	5.40	77	1336810	109.74	ug/L	95
23) 2-butanone	5.47	72	104330	94.29	ug/L	93
24) methyl acrylate	5.57	55	896322	94.77	ug/L #	99
25) chloroform	5.88	83	1537063	102.48	ug/L	99
27) 1,1,1-trichloroethane	6.07	97	1332820	116.68	ug/L	96
28) cyclohexane	6.09	56	1601485	93.53	ug/L	93
29) carbon tetrachloride	6.27	117	1010033	139.85	ug/L	98
31) benzene	6.58	78	3106424	92.47	ug/L	98
32) 1,1-dichloropropene	6.28	75	1285000	101.15	ug/L	100
33) 1,2-dichloroethane	6.65	62	1470440	115.30	ug/L	98
34) trichloroethene	7.50	95	856494	99.78	ug/L	95
35) ethyl acrylate	7.68	55	1389357	96.05	ug/L	98
36) 1,2-dichloropropane	7.85	63	906642	93.63	ug/L	96
37) methyl methacrylate	8.01	41	1068305	99.12	ug/L	95
38) dibromomethane	8.05	93	530922	97.89	ug/L	99
39) bromodichloromethane	8.30	83	1231373	105.17	ug/L	99
40) 2-chloroethyl vinyl ether	8.75	63	547143	102.02	ug/L	99
42) cis-1,3-dichloropropene	8.97	75	1396351	90.48	ug/L	90
43) 4-methyl-2-pentanone	9.20	43	1168857	93.84	ug/L	97
45) toluene	9.44	92	1964614	89.60	ug/L	98
46) 1,1,2-trichloroethane	10.19	83	608390	91.34	ug/L	96
47) 1,3-dichloropropane	10.45	76	1412750	92.62	ug/L	99
48) tetrachloroethene	10.32	164	609536	100.59	ug/L	95
49) trans-1,3-dichloropropene	9.88	75	1153268	90.52	ug/L	96

JN 8/18/08

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081808.D
Acq On : 18 Aug 2008 4:05 pm
Sample : ,ICAL,ICAL 100PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:18 2008

Vial: 8
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	10.57	43	846119	94.03 ug/L	99
51)	dibromochloromethane	10.84	129	830944	106.41 ug/L	100
52)	1,2-dibromoethane	11.00	107	790384	93.63 ug/L	100
53)	chlorobenzene	11.82	112	2069504	96.22 ug/L	97
54)	1,1,1,2-tetrachloroethane	11.98	131	753108	106.01 ug/L	96
55)	ethylbenzene	11.98	91	3809613	96.80 ug/L	97
56)	m,p-xylene	12.19	106	2750386	186.84 ug/L	92
57)	butyl acrylate	12.89	55	2222962	95.09 ug/L	96
58)	o-xylene	12.90	106	1330141	91.97 ug/L	90
59)	styrene	12.95	104	2370103	93.13 ug/L	93
60)	isopropylbenzene	13.57	105	3252186	97.67 ug/L	100
61)	bromobenzene	14.15	156	822782	98.74 ug/L	96
62)	bromoform	13.35	173	567288	113.18 ug/L	99
64)	1,2,3-trichloropropane	14.31	75	874029	98.29 ug/L	96
65)	n-propylbenzene	14.33	91	4536638	96.25 ug/L	100
66)	2-chlorotoluene	14.49	91	2772878	100.14 ug/L	99
67)	4-chlorotoluene	14.68	91	3172936	102.02 ug/L	98
68)	1,3,5-trimethylbenzene	14.64	105	2996130	102.34 ug/L	95
70)	1,1,2,2-tetrachloroethane	14.26	83	1009842	86.82 ug/L	97
71)	tert-butylbenzene	15.18	119	2526481	99.31 ug/L	95
72)	sec-butylbenzene	15.54	105	3991855	92.75 ug/L	99
73)	1,2,4-trimethylbenzene	15.27	105	3114236	97.12 ug/L	95
74)	1,3-dichlorobenzene	15.74	146	1501498	93.92 ug/L	96
75)	p-isopropyltoluene	15.77	119	3139409	98.94 ug/L	97
76)	dicyclopentadiene	15.87	66	4296091	85.61 ug/L	98
77)	1,4-dichlorobenzene	15.89	146	1510711	93.30 ug/L	97
78)	1,2-dichlorobenzene	16.46	146	1427157	94.20 ug/L	99
79)	n-butylbenzene	16.41	91	3308555	93.43 ug/L	98
80)	1,2-dibromo-3-chloropropan	17.62	75	220225	99.81 ug/L	99
81)	1,2,4-trichlorobenzene	18.62	180	1160058	94.63 ug/L	97
82)	hexachlorobutadiene	18.77	225	681996	117.07 ug/L	95
83)	naphthalene	18.90	128	2623302	91.59 ug/L	100
84)	1,2,3-trichlorobenzene	19.17	180	1068934	93.84 ug/L	99
85)	2-methylnaphthalene	20.13	142	1331262	83.53 ug/L	100

(#) = qualifier out of range (m) = manual integration

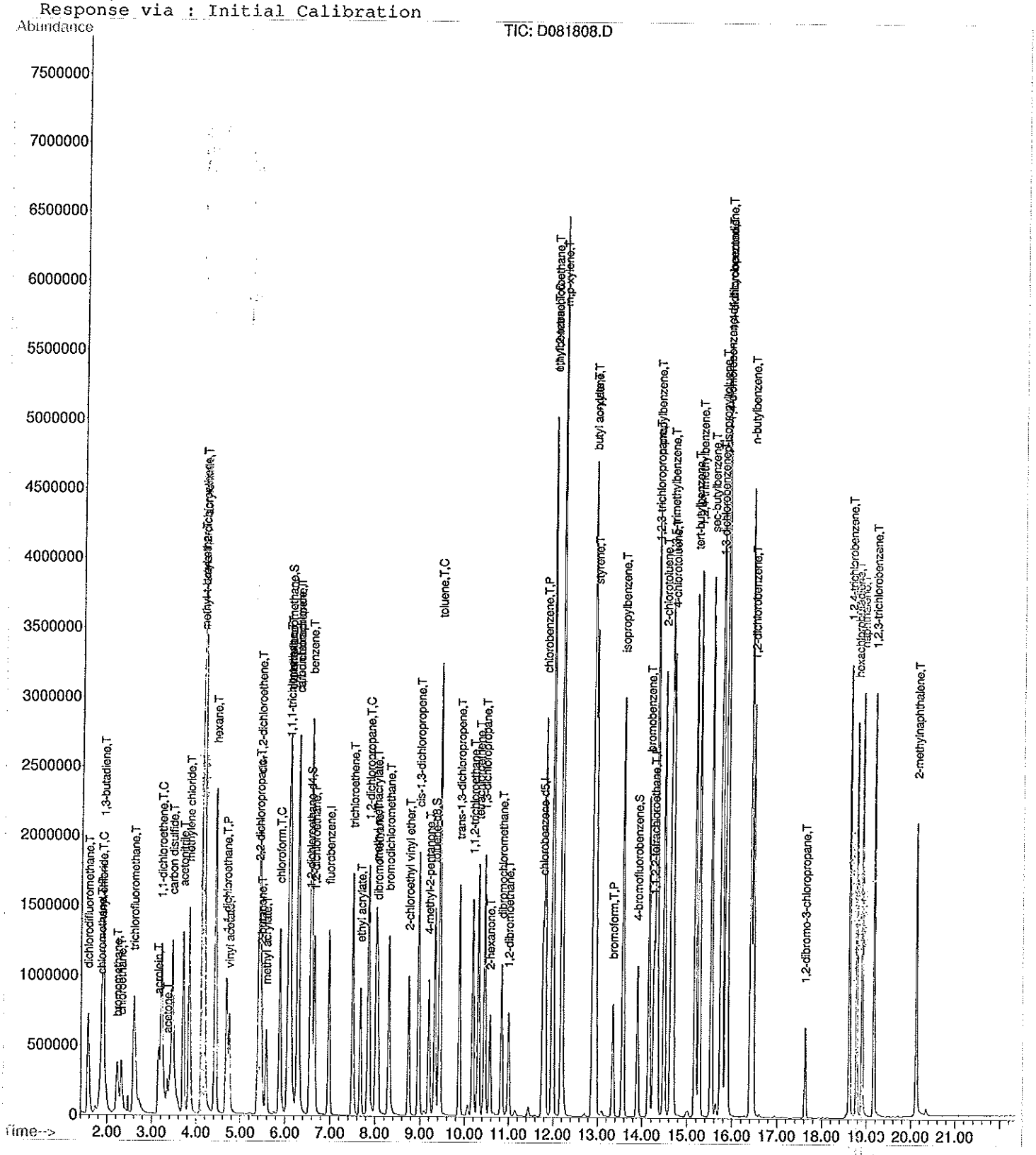
Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081808.D
Acq On : 18 Aug 2008 4:05 pm
Sample : ,ICAL,ICAL 100PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:18 2008

Vial: 8
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081807.D
Acq On : 18 Aug 2008 3:30 pm
Sample : ,ICAL,ICAL 200PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:17 2008

Vial: 7
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.97	96	1622868	50.00 ug/L	-0.03
41) chlorobenzene-d5	11.76	117	1046355	50.00 ug/L	-0.03
69) 1,4-dichlorobenzene-d4	15.85	152	469513	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.10	113	450086	52.30 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.54	65	605828	58.24 ug/L	-0.03
44) toluene-d8	9.33	98	1405335	52.90 ug/L	-0.03
63) 4-bromofluorobenzene	13.90	95	605931	53.99 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.56	85	2787168	223.86 ug/L	97
3) chloromethane	1.86	50	1450034m2	101.12 ug/L	
4) vinyl chloride	1.87	62	2723387	186.38 ug/L	95
5) 1,3-butadiene	1.90	39	2595458	235.59 ug/L	95
6) bromomethane	2.23	94	863858	222.15 ug/L	99
7) chloroethane	2.30	64	747989	72.68 ug/L	85
8) trichlorofluoromethane	2.56	101	3610660	266.46 ug/L	97
9) acrolein	3.16	56	1543715	2052.45 ug/L	95
10) 1,1-dichloroethene	3.19	96	1585312	184.49 ug/L	93
11) acetone	3.36	43	893221	150.86 ug/L	96
12) carbon disulfide	3.43	76	5707535	227.27 ug/L	100
13) methylene chloride	3.83	84	1878213	138.06 ug/L	98
14) acrylonitrile	4.19	53	7437928	1927.29 ug/L	96
15) trans-1,2-dichloroethene	4.13	96	1677436	174.57 ug/L	92
16) methyl-t-butyl ether	4.14	73	5241945	198.53 ug/L	97
17) acetonitrile	3.71	41	3354484	1829.79 ug/L	96
18) hexane	4.42	57	3280850	142.01 ug/L #	98
19) 1,1-dichloroethane	4.67	63	3456294	186.36 ug/L	98
20) vinyl acetate	4.75	43	2721767	176.38 ug/L	99
21) cis-1,2-dichloroethene	5.43	96	1841296	174.69 ug/L	94
22) 2,2-dichloropropane	5.40	77	2876323	215.67 ug/L	96
23) 2-butanone	5.49	72	230754	190.48 ug/L	88
24) methyl acrylate	5.59	55	2174680	210.01 ug/L #	99
25) chloroform	5.88	83	3183453	193.87 ug/L	99
27) 1,1,1-trichloroethane	6.06	97	2750982	219.97 ug/L	99
28) cyclohexane	6.08	56	3509122	187.19 ug/L	91
29) carbon tetrachloride	6.26	117	2111091	266.98 ug/L	97
31) benzene	6.57	78	6386305	173.63 ug/L	98
32) 1,1-dichloropropene	6.27	75	2644846	190.16 ug/L	100
33) 1,2-dichloroethane	6.65	62	3076312	220.32 ug/L	98
34) trichloroethene	7.50	95	1786969	190.14 ug/L	96
35) ethyl acrylate	7.68	55	3283664	207.34 ug/L	98
36) 1,2-dichloropropane	7.85	63	1831938	172.80 ug/L	99
37) methyl methacrylate	8.02	41	2493688	211.33 ug/L	94
38) dibromomethane	8.05	93	1111774	187.23 ug/L	98
39) bromodichloromethane	8.31	83	2542824	198.38 ug/L	99
40) 2-chloroethyl vinyl ether	8.75	63	1232724	209.94 ug/L	99
42) cis-1,3-dichloropropene	8.97	75	2910692	186.75 ug/L	92
43) 4-methyl-2-pentanone	9.20	43	2421804	192.51 ug/L	98
45) toluene	9.44	92	3932024	177.56 ug/L	98
46) 1,1,2-trichloroethane	10.19	83	1218378	181.11 ug/L	95
47) 1,3-dichloropropane	10.45	76	2831503	183.79 ug/L	100
48) tetrachloroethene	10.31	164	1224587	200.09 ug/L	92
49) trans-1,3-dichloropropene	9.88	75	2433912	189.16 ug/L	96

JD 8/18/08

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D081808\D081807.D
Acq On : 18 Aug 2008 3:30 pm
Sample : ,ICAL,ICAL 200PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:17 2008

Vial: 7
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) 2-hexanone	10.58	43	1728958	190.25 ug/L	97
51) dibromochloromethane	10.84	129	1651865	209.44 ug/L	97
52) 1,2-dibromoethane	11.00	107	1598700	187.51 ug/L	99
53) chlorobenzene	11.82	112	3994628	183.90 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.98	131	1450968	202.22 ug/L	96
55) ethylbenzene	11.99	91	7205509	181.28 ug/L	99
56) m,p-xylene	12.20	106	5185844	348.82 ug/L	95
57) butyl acrylate	12.89	55	4709307	199.46 ug/L	97
58) o-xylene	12.91	106	2537507	173.71 ug/L #	86
59) styrene	12.95	104	4555983	177.25 ug/L	94
60) isopropylbenzene	13.57	105	6252663	185.93 ug/L	100
61) bromobenzene	14.15	156	1555943	184.89 ug/L	96
62) bromoform	13.35	173	1133592	223.93 ug/L	96
64) 1,2,3-trichloropropane	14.31	75	1650816	183.82 ug/L	96
65) n-propylbenzene	14.33	91	8400768	176.48 ug/L	99
66) 2-chlorotoluene	14.49	91	5269167	188.41 ug/L	99
67) 4-chlorotoluene	14.68	91	6001843	191.07 ug/L	98
68) 1,3,5-trimethylbenzene	14.64	105	5643979	190.87 ug/L	96
70) 1,1,2,2-tetrachloroethane	14.26	83	1944958	174.92 ug/L	96
71) tert-butylbenzene	15.18	119	4721709	194.16 ug/L	94
72) sec-butylbenzene	15.53	105	7392847	179.70 ug/L	98
73) 1,2,4-trimethylbenzene	15.27	105	5839450	190.51 ug/L	95
74) 1,3-dichlorobenzene	15.74	146	2809008	183.81 ug/L	97
75) p-isopropyltoluene	15.78	119	5814814	191.70 ug/L	97
76) dicyclopentadiene	15.87	66	8448917	176.13 ug/L	98
77) 1,4-dichlorobenzene	15.89	146	2805963	181.28 ug/L	99
78) 1,2-dichlorobenzene	16.47	146	2672259	184.52 ug/L	96
79) n-butylbenzene	16.41	91	6064632	179.15 ug/L	99
80) 1,2-dibromo-3-chloropropan	17.63	75	429045	203.42 ug/L	97
81) 1,2,4-trichlorobenzene	18.61	180	2159230	184.26 ug/L	97
82) hexachlorobutadiene	18.78	225	1239129	222.52 ug/L	97
83) naphthalene	18.90	128	4744066	173.27 ug/L	100
84) 1,2,3-trichlorobenzene	19.17	180	1955706	179.60 ug/L	99
85) 2-methylnaphthalene	20.12	142	2461091	161.53 ug/L	100

(#) = qualifier out of range (m) = manual integration

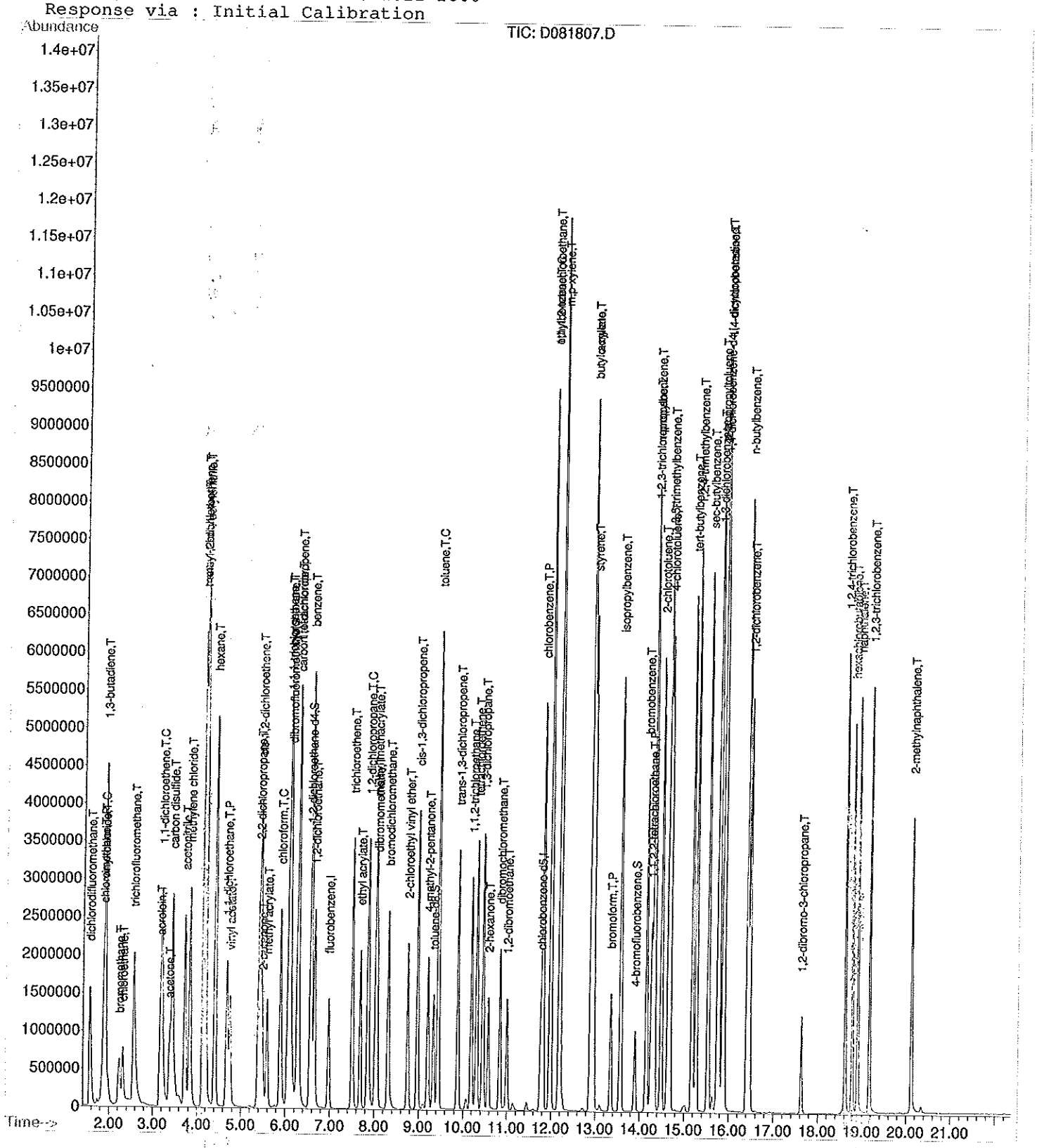
Quantitation Report

Data File : C:\HPCHEM\1\DATA\D081808\D081807.D
Acq On : 18 Aug 2008 3:30 pm
Sample : ,ICAL,ICAL 200PPB 8260W,1,
Misc : 8260_W
MS Integration Params: rteint.p
Quant Time: Aug 18 19:17 2008

Vial: 7
Operator: jdb
Inst : VOA 4
Multiplr: 1.00

Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Wed Jul 02 14:41:21 2008
Response via : Initial Calibration



D081807.D VOA0818.M Mon Aug 18 19:18:07 2008 VOA4 Page 3

Response Factor Report Instrument #1

Method Path : C:\msdchem\1\METHODS\
Method File : WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
Last Update : Fri Oct 03 14:53:12 2008
Response Via : Initial Calibration

Calibration Files
5 =A100310.D 10 =A100309.D 20 =A100308.D 50 =A100307.D 100 =A100312.D 200 =A100313.D 70 =A100311.D

		Compound	5	10	20	50	100	200	70	Avg	%RSD
1)	I	fluorobenzene	----------ISTD----------								
2)	T	dichlorodifluo...	0.174	0.139	0.152	0.152	0.176	0.153	0.131	0.154	10.97
3)	T,P	chloromethane	0.270	0.229	0.213	0.215	0.245	0.218	0.204	0.228	9.94
4)	T,C	vinyl chloride	0.280	0.232	0.235	0.244	0.258	0.239	0.215	0.243	8.50
5)	T	1,3-butadiene	0.306	0.259	0.267	0.284	0.328	0.286	0.240	0.282	10.47
6)	T	bromomethane	0.127	0.114	0.099	0.084			0.063	0.097	25.96
7)	T	chloroethane	0.179	0.140	0.132	0.139	0.144	0.128	0.132	0.142	12.10
8)	T	trichlorofluor...		0.448	0.439	0.465	0.448	0.448	0.422	0.445	3.17
9)	T	acrolein	0.016	0.015	0.015	0.015	0.017	0.017	0.017	0.016	5.47
0)	T,C	1,1-dichloroet...	0.265	0.214	0.217	0.237	0.242	0.230	0.217	0.232	7.80
1)	T	acetone		0.130	0.112	0.111	0.115	0.115	0.120	0.117	6.02
2)	T	carbon disulfide	0.847	0.665	0.667	0.734	0.760	0.681	0.658	0.716	9.73
3)	T	methylene chlo...		0.427	0.332	0.316	0.313	0.292	0.313	0.332	14.49
4)	T	acrylonitrile	0.138	0.132	0.123	0.124	0.131	0.129	0.135	0.130	4.32
5)	T	trans-1,2-dich...	0.297	0.242	0.241	0.266	0.272	0.255	0.252	0.261	7.55
6)	T	methyl-t-butyl...	0.815	0.816	0.772	0.842	0.873	0.883	0.878	0.840	4.90
7)	T	acetonitrile	0.060	0.054	0.049	0.047	0.052	0.050	0.053	0.052	8.09
8)	T	hexane			0.257	0.311	0.379	0.316	0.241	0.301	18.17
9)	T,P	1,1-dichloroet...	0.593	0.514	0.498	0.521	0.541	0.513	0.526	0.529	5.88
0)	T	vinyl acetate	0.296	0.308	0.315	0.369	0.392	0.408	0.388	0.354	13.01
1)	T	cis-1,2-dichlo...	0.305	0.295	0.276	0.304	0.316	0.302	0.301	0.300	4.09
2)	T	2,2-dichloropr...	0.452	0.386	0.392	0.440	0.448	0.431	0.398	0.421	6.67
23)	T	2-butanone		0.025	0.029	0.030	0.035	0.037	0.035	0.032	14.16
24)	T	methyl acrylate	0.236	0.215	0.221	0.270	0.313	0.320	0.283	0.265	16.09
25)	T,C	chloroform	0.584	0.526	0.497	0.520	0.533	0.515	0.529	0.529	5.06
26)	S	dibromofluorom...	0.313	0.307	0.309	0.306	0.309	0.299	0.312	0.308	1.45
27)	T	1,1,1-trichlor...	0.492	0.400	0.407	0.449	0.456	0.445	0.428	0.439	7.10
28)	T	cyclohexane		0.310	0.353	0.419	0.497	0.437	0.351	0.395	17.48
29)	T	carbon tetrach...	0.439	0.340	0.357	0.404	0.417	0.403	0.373	0.390	8.97
30)	S	1,2-dichloroet...	0.391	0.378	0.377	0.376	0.374	0.376	0.385	0.380	1.63
31)	T	benzene	1.175	1.003	0.981	1.061	1.079	1.057	1.061	1.060	5.85
32)	T	1,1-dichloropr...	0.379	0.318	0.328	0.369	0.397	0.377	0.350	0.360	8.04
33)	T	1,2-dichloroet...	0.535	0.511	0.461	0.501	0.506	0.504	0.518	0.505	4.45
34)	T	trichloroethene	0.299	0.240	0.249	0.280	0.287	0.276	0.268	0.271	7.66
35)	T	ethyl acrylate		0.268	0.287	0.359	0.430	0.446	0.386	0.363	20.11
36)	T,C	1,2-dichloropr...	0.340	0.302	0.295	0.314	0.322	0.314	0.320	0.315	4.58
37)	T	methyl methacr...		0.262	0.253	0.295	0.348	0.349	0.316	0.304	13.64
38)	T	dibromomethane	0.205	0.206	0.192	0.205	0.210	0.211	0.211	0.206	3.26
39)	T	bromodichlorom...	0.447	0.415	0.386	0.431	0.444	0.443	0.452	0.431	5.44
40)	T	2-chloroethyl ...		0.094	0.109	0.140	0.162	0.177	0.156	0.139	23.10

Response Factor Report Instrument #1

Method Path : C:\msdchem\1\METHODS\
Method File : WTR1003.M

41)	I	chlorobenzene-d5	----------ISTD----------								
42)	T	cis-1,3-dichlo...	0.543	0.503	0.524	0.583	0.597	0.575	0.579	0.558	6.25
43)	T	4-methyl-2-pen...	0.352	0.371	0.367	0.395	0.406	0.385	0.407	0.383	5.43
44)	S	toluene-d8	1.274	1.270	1.263	1.270	1.276	1.219	1.254	1.261	1.58
45)	T,C	toluene	0.864	0.729	0.700	0.777	0.796	0.746	0.761	0.767	6.87
46)	T	1,1,2-trichlor...	0.311	0.302	0.285	0.290	0.297	0.275	0.296	0.294	3.96
47)	T	1,3-dichloropr...	0.633	0.590	0.572	0.606	0.611	0.586	0.616	0.602	3.41
48)	T	tetrachloroethene	0.310	0.253	0.262	0.287	0.301	0.273	0.257	0.278	8.08
49)	T	trans-1,3-dich...	0.453	0.434	0.436	0.505	0.529	0.520	0.514	0.485	8.59
50)	T	2-hexanone		0.196	0.196	0.238	0.259	0.255	0.260	0.234	13.02
51)	T	dibromochlorom...	0.381	0.378	0.368	0.394	0.419	0.403	0.408	0.393	4.64
52)	T	1,2-dibromoethane	0.351	0.340	0.331	0.367	0.370	0.354	0.365	0.354	4.11
53)	T,P	chlorobenzene	0.921	0.831	0.796	0.864	0.905	0.843	0.842	0.858	5.06
54)	T	1,1,1,2-tetrac...	0.380	0.334	0.332	0.366	0.371	0.349	0.355	0.355	5.13
55)	T,C	ethylbenzene	1.258	1.141	1.190	1.396	1.504	1.365	1.331	1.312	9.54
56)	T	m,p-xylene	0.482	0.435	0.453	0.531	0.562	0.518	0.508	0.498	8.99
57)	T	butyl acrylate		0.311	0.410	0.612	0.746	0.742	0.642	0.577	30.92
58)	T	o-xylene	0.446	0.401	0.446	0.534	0.570	0.525	0.512	0.491	12.33
59)	T	styrene	0.659	0.686	0.732	0.893	0.963	0.904	0.897	0.819	14.97
0)	T	isopropylbenzene	0.836	0.765	0.846	1.103	1.215	1.077	1.006	0.978	16.97
1)	T	bromobenzene	0.373	0.361	0.356	0.409	0.439	0.405	0.399	0.392	7.61
2)	T,P	bromoform	0.273	0.275	0.265	0.305	0.320	0.314	0.314	0.295	7.87
3)	S	4-bromofluorob...	0.421	0.445	0.456	0.482	0.491	0.469	0.489	0.465	5.51
4)	T	1,2,3-trichlor...	0.399	0.390	0.371	0.381	0.383	0.349	0.385	0.380	4.21
5)	T	n-propylbenzene	1.125	1.047	1.163	1.467	1.609	1.388	1.292	1.299	15.55
6)	T	2-chlorotoluene	0.844	0.741	0.772	0.930	0.994	0.889	0.878	0.864	10.16
7)	T	4-chlorotoluene	0.864	0.819	0.850	1.039	1.132	1.016	0.975	0.957	12.09
8)	T	1,3,5-trimethy...	0.701	0.730	0.771	0.989	1.079	0.962	0.906	0.877	16.49
9)	I	1,4-dichlorobenzen...	----------ISTD----------								
0)	T,P	1,1,2,2-tetrac...	0.942	0.908	0.792	0.793	0.752	0.683	0.773	0.806	11.13
1)	T	tert-butylbenzene	1.222	1.055	1.175	1.524	1.586	1.343	1.245	1.307	14.58
72)	T	sec-butylbenzene	1.751	1.509	1.683	2.179	2.286	1.900	1.732	1.863	14.98
73)	T	1,2,4-trimethy...	1.507	1.543	1.585	1.927	1.965	1.755	1.697	1.711	10.64
74)	T	1,3-dichlorobe...	1.144	1.084	1.038	1.197	1.226	1.078	1.057	1.118	6.49
75)	T	p-isopropyltol...	1.182	1.239	1.308	1.785	1.874	1.577	1.429	1.485	18.17
76)	T	dicyclopentadiene	2.618	2.141	2.060	2.447	2.660	2.129	2.048	2.300	11.60
77)	T	1,4-dichlorobe...	1.404	1.179	1.095	1.223	1.266	1.106	1.097	1.196	9.50
78)	T	1,2-dichlorobe...	1.145	1.133	1.010	1.196	1.197	1.053	1.055	1.113	6.65
79)	T	n-butylbenzene		0.819	1.009	1.510	1.630	1.370	1.200	1.256	24.46
80)	T	1,2-dibromo-3-...	0.131	0.133	0.121	0.124	0.117	0.117	0.115	0.122	5.66
81)	T	1,2,4-trichlor...	0.255	0.312	0.380	0.519	0.588	0.546	0.426	0.432	28.87
82)	T	hexachlorobuta...	0.259	0.252	0.252	0.317	0.328	0.276	0.217	0.271	14.41
83)	T	naphthalene		0.531	0.624	0.847	0.965	1.020	0.791	0.796	23.94
84)	T	1,2,3-trichlor...	0.268	0.304	0.347	0.461	0.477	0.451	0.371	0.383	21.43
85)	T	2-methylnaphth...		0.121	0.131	0.132	0.137	0.195	0.101	0.136	23.15

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100307.D Vial: 7
Acq On : 3 Oct 2008 10:44 am Operator: BR
Sample : ,ICAL,ICAL-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:02:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.992	96	495940	50.00	ug/L	0.00
41) chlorobenzene-d5	11.534	117	404223	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.402	152	217464	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.140	113	151853	48.92	ug/L	0.00
30) 1,2-dichloroethane-d4	6.578	65	186362	31.58	ug/L	0.00
44) toluene-d8	9.248	98	513420	45.71	ug/L	0.00
63) 4-bromofluorobenzene	13.535	95	194694	40.16	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.506	85	75393	53.52	ug/L	98
3) chloromethane	1.719	50	106778	63.58	ug/L	98
4) vinyl chloride	1.841	62	121235	51.66	ug/L	94
5) 1,3-butadiene	1.877	39	140771	45.54	ug/L	98
6) bromomethane	2.218	94	41492	47.34	ug/L	88
7) chloroethane	2.345	64	68804	44.22	ug/L	97
8) trichlorofluoromethane	2.643	101	230804	45.79	ug/L	92
9) acrolein	3.203	56	75909	585.78	ug/L	92
10) 1,1-dichloroethene	3.276	96	117401	56.38	ug/L #	86
11) acetone	3.397	43	55129	44.70	ug/L	96
12) carbon disulfide	3.525	76	364181	56.76	ug/L	99
13) methylene chloride	3.908	84	156656	53.22	ug/L	96
14) acrylonitrile	4.243	53	614996	555.00	ug/L	92
15) trans-1,2-dichloroethene	4.218	96	132068	55.09	ug/L #	88
16) methyl-t-butyl ether	4.200	73	417625	40.08	ug/L	88
17) acetonitrile	3.756	41	233254	629.91	ug/L	94
18) hexane	4.498	57	154203	59.72	ug/L #	99
19) 1,1-dichloroethane	4.754	63	258347	46.73	ug/L	97
20) vinyl acetate	4.827	43	182885	55.00	ug/L	98
21) cis-1,2-dichloroethene	5.496	96	150793	55.00	ug/L #	81
22) 2,2-dichloropropane	5.465	77	218011	39.95	ug/L #	86
23) 2-butanone	5.544	72	15038	48.42	ug/L #	51
24) methyl acrylate	5.648	55	133977	54.59	ug/L #	96
25) chloroform	5.927	83	257989	40.74	ug/L	97
27) 1,1,1-trichloroethane	6.110	97	222603	39.60	ug/L	95
28) cyclohexane	6.140	56	207965	60.60	ug/L	93
29) carbon tetrachloride	6.317	117	200522	45.82	ug/L	97
31) benzene	6.602	78	526431	51.37	ug/L	98
32) 1,1-dichloropropene	6.323	75	182875	48.60	ug/L #	92
33) 1,2-dichloroethane	6.675	62	248496	35.03	ug/L	93
34) trichloroethene	7.496	95	138635	51.34	ug/L #	80
35) ethyl acrylate	7.673	55	177859	49.47	ug/L	99
36) 1,2-dichloropropane	7.831	63	155543	54.98	ug/L	86
37) methyl methacrylate	8.001	41	146451	46.59	ug/L	90
38) dibromomethane	8.019	93	101881	48.57	ug/L #	86
39) bromodichloromethane	8.256	83	213665	39.68	ug/L	90
40) 2-chloroethyl vinyl ether	8.688	63	69326	53.09	ug/L	97
42) cis-1,3-dichloropropene	8.895	75	235624	44.43	ug/L	91
43) 4-methyl-2-pentanone	9.120	43	159515	50.83	ug/L #	93
45) toluene	9.345	92	314147	49.74	ug/L	99
46) 1,1,2-trichloroethane	10.038	83	117290	46.65	ug/L	97
47) 1,3-dichloropropane	10.294	76	244912	43.27	ug/L	97
48) tetrachloroethene	10.172	164	116042	57.58	ug/L	95

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100307.D Vial: 7
Acq On : 3 Oct 2008 10:44 am Operator: BR
Sample : ,ICAL,ICAL-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:02:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

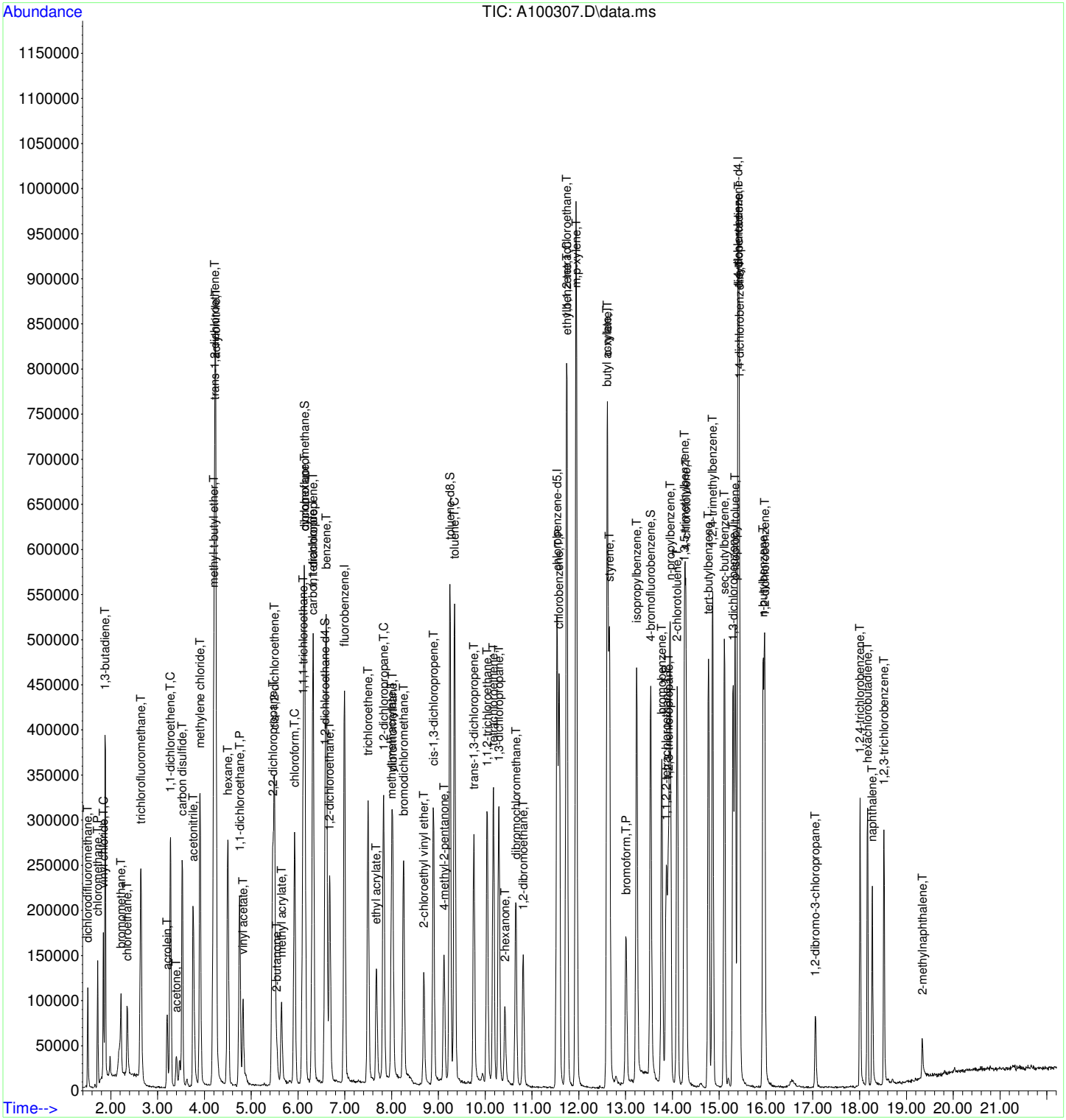
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.759	75	204247	40.21 ug/L	96
50) 2-hexanone	10.421	43	96375	52.37 ug/L	98
51) dibromochloromethane	10.659	129	159202	47.69 ug/L	95
52) 1,2-dibromoethane	10.811	107	148211	50.02 ug/L	100
53) chlorobenzene	11.577	112	349168	53.59 ug/L	83
54) 1,1,1,2-tetrachloroethane	11.741	131	147852	50.44 ug/L	96
55) ethylbenzene	11.747	91	564337	48.38 ug/L	89
56) m,p-xylene	11.942	106	429512	107.99 ug/L #	80
57) butyl acrylate	12.605	55	247207	50.15 ug/L	95
58) o-xylene	12.611	106	215868	53.34 ug/L #	78
59) styrene	12.653	104	361153	53.10 ug/L	86
60) isopropylbenzene	13.237	105	445734	52.95 ug/L #	90
61) bromobenzene	13.772	156	165521	56.68 ug/L #	71
62) bromoform	13.012	173	123248	51.33 ug/L	95
64) 1,2,3-trichloropropane	13.918	75	154091	42.11 ug/L	91
65) n-propylbenzene	13.955	91	592930	52.74 ug/L	92
66) 2-chlorotoluene	14.101	91	376472m	46.94 ug/L	
67) 4-chlorotoluene	14.289	91	419989	45.56 ug/L #	85
68) 1,3,5-trimethylbenzene	14.259	105	399597	50.41 ug/L #	86
70) 1,1,2,2-tetrachloroethane	13.870	83	172551	45.30 ug/L	99
71) tert-butylbenzene	14.770	119	331440	53.53 ug/L #	82
72) sec-butylbenzene	15.110	105	473784	54.73 ug/L	92
73) 1,2,4-trimethylbenzene	14.861	105	419048	47.26 ug/L	89
74) 1,3-dichlorobenzene	15.299	146	260381	56.16 ug/L	92
75) p-isopropyltoluene	15.341	119	388133	55.83 ug/L	90
76) dicyclopentadiene	15.414	66	532058	44.80 ug/L	95
77) 1,4-dichlorobenzene	15.432	146	265922	55.19 ug/L	91
78) 1,2-dichlorobenzene	15.974	146	260179	57.21 ug/L	94
79) n-butylbenzene	15.937	91	328358	53.36 ug/L	96
80) 1,2-dibromo-3-chloropr...	17.050	75	26927	33.16 ug/L #	77
81) 1,2,4-trichlorobenzene	18.011	180	112902	63.52 ug/L	94
82) hexachlorobutadiene	18.169	225	68831	55.08 ug/L	91
83) naphthalene	18.272	128	184172	57.05 ug/L	100
84) 1,2,3-trichlorobenzene	18.522	180	100149	63.53 ug/L	88
85) 2-methylnaphthalene	19.343	142	28628	43.75 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100307.D Vial: 7
Acq On : 3 Oct 2008 10:44 am Operator: BR
Sample : ,ICAL,ICAL-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:02:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100308.D Vial: 8
Acq On : 3 Oct 2008 11:16 am Operator: BR
Sample : ,ICAL,ICAL-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:25:47 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) fluorobenzene	7.002	96	500273	50.00 ug/L	0.01
41) chlorobenzene-d5	11.538	117	393119	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.406	152	201379	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.144	113	154653	49.39 ug/L	0.00
30) 1,2-dichloroethane-d4	6.582	65	188467	31.66 ug/L	0.00
44) toluene-d8	9.252	98	496680	45.47 ug/L	0.00
63) 4-bromofluorobenzene	13.539	95	179135	38.00 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.510	85	30370	21.37 ug/L	99
3) chloromethane	1.717	50	42644	25.17 ug/L	93
4) vinyl chloride	1.839	62	47068	19.88 ug/L	97
5) 1,3-butadiene	1.881	39	53384	17.12 ug/L	98
6) bromomethane	2.228	94	19848	22.45 ug/L	96
7) chloroethane	2.355	64	26328	16.77 ug/L	95
8) trichlorofluoromethane	2.647	101	87868	17.28 ug/L	96
9) acrolein	3.213	56	29623	226.62 ug/L	97
10) 1,1-dichloroethene	3.280	96	43418	20.67 ug/L #	75
11) acetone	3.401	43	22438	18.04 ug/L	83
12) carbon disulfide	3.529	76	133392	20.61 ug/L	99
13) methylene chloride	3.912	84	66474	22.39 ug/L	98
14) acrylonitrile	4.247	53	245182	219.35 ug/L	94
15) trans-1,2-dichloroethene	4.222	96	48149	19.91 ug/L	88
16) methyl-t-butyl ether	4.204	73	154554	14.71 ug/L	89
17) acetonitrile	3.766	41	97285	260.45 ug/L #	94
18) hexane	4.508	57	51445	19.75 ug/L #	99
19) 1,1-dichloroethane	4.758	63	99597	17.86 ug/L	97
20) vinyl acetate	4.837	43	63070	18.80 ug/L	98
21) cis-1,2-dichloroethene	5.506	96	55264	19.98 ug/L #	78
22) 2,2-dichloropropane	5.469	77	78463	14.25 ug/L #	85
23) 2-butanone	5.560	72	5783	18.46 ug/L #	67
24) methyl acrylate	5.658	55	44136	17.83 ug/L #	99
25) chloroform	5.931	83	99554	15.58 ug/L	95
27) 1,1,1-trichloroethane	6.114	97	81421	14.36 ug/L	97
28) cyclohexane	6.144	56	70727	20.43 ug/L	95
29) carbon tetrachloride	6.321	117	71438	16.18 ug/L	98
31) benzene	6.612	78	196289	18.99 ug/L	97
32) 1,1-dichloropropene	6.333	75	65587	17.28 ug/L #	92
33) 1,2-dichloroethane	6.679	62	92305	12.90 ug/L	91
34) trichloroethene	7.500	95	49780	18.28 ug/L #	86
35) ethyl acrylate	7.689	55	57422	15.83 ug/L	98
36) 1,2-dichloropropane	7.835	63	59105	20.71 ug/L	97
37) methyl methacrylate	8.011	41	50542	15.94 ug/L	91
38) dibromomethane	8.029	93	38353	18.12 ug/L #	88
39) bromodichloromethane	8.260	83	77200	14.21 ug/L	91
40) 2-chloroethyl vinyl ether	8.698	63	21805	16.55 ug/L	97
42) cis-1,3-dichloropropene	8.899	75	82401	15.98 ug/L	90
43) 4-methyl-2-pentanone	9.124	43	57672	18.90 ug/L #	89
45) toluene	9.355	92	110018	17.91 ug/L	98
46) 1,1,2-trichloroethane	10.048	83	44799	18.32 ug/L	91
47) 1,3-dichloropropane	10.298	76	89915	16.33 ug/L	98
48) tetrachloroethene	10.182	164	41242	21.04 ug/L	96

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100308.D Vial: 8
Acq On : 3 Oct 2008 11:16 am Operator: BR
Sample : ,ICAL,ICAL-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:25:47 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

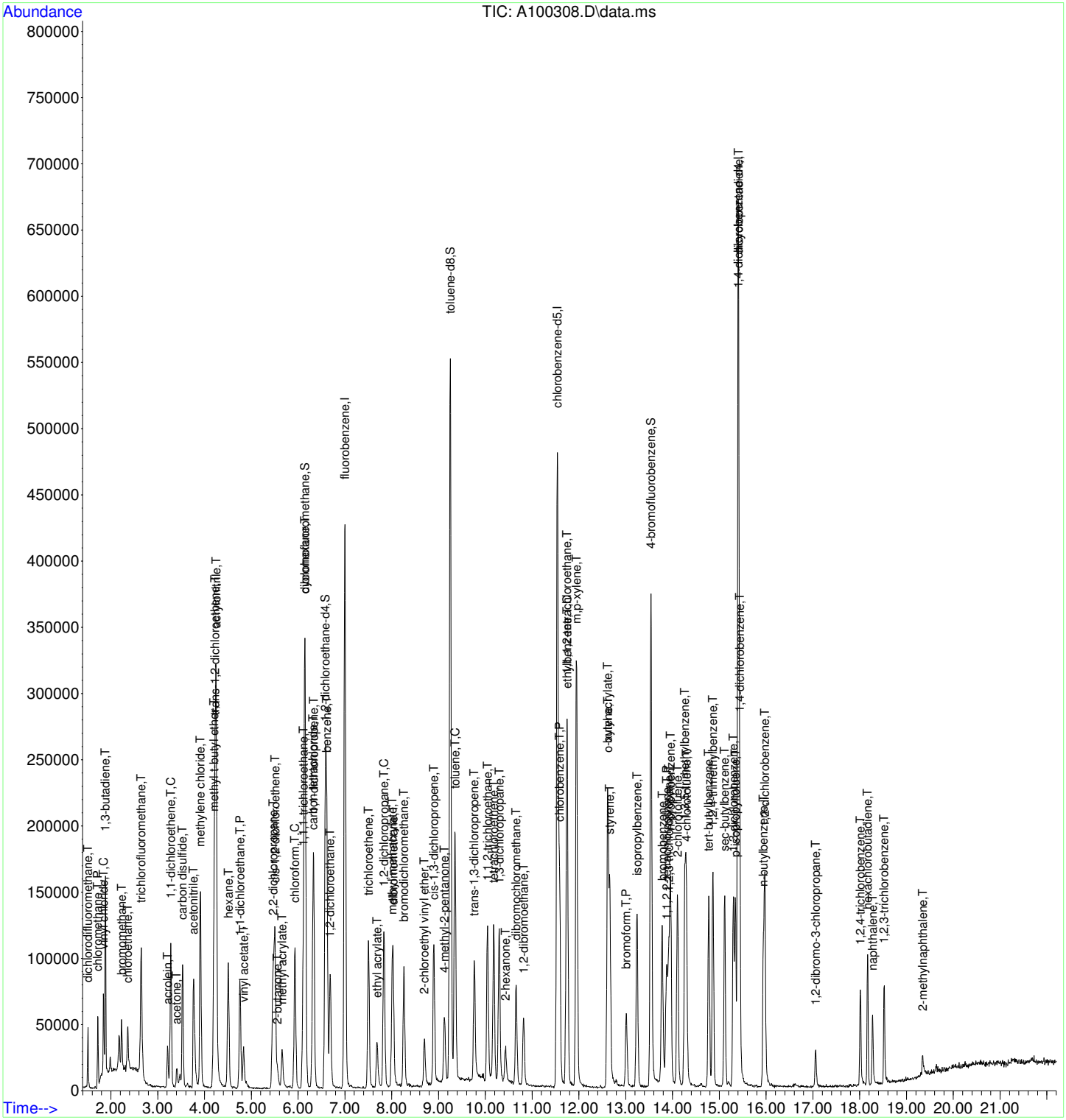
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.763	75	68587	13.88 ug/L	96
50) 2-hexanone	10.438	43	30785	17.20 ug/L	94
51) dibromochloromethane	10.656	129	57814	17.81 ug/L	84
52) 1,2-dibromoethane	10.821	107	51999	18.04 ug/L #	97
53) chlorobenzene	11.587	112	125173	19.76 ug/L	84
54) 1,1,1,2-tetrachloroethane	11.745	131	52245	18.33 ug/L	96
55) ethylbenzene	11.751	91	187163	16.50 ug/L	84
56) m,p-xylene	11.952	106	142429	36.82 ug/L #	77
57) butyl acrylate	12.615	55	64549	13.47 ug/L	93
58) o-xylene	12.621	106	70117	17.82 ug/L #	75
59) styrene	12.657	104	115126	17.40 ug/L	86
60) isopropylbenzene	13.247	105	133092	16.26 ug/L #	90
61) bromobenzene	13.782	156	55920	19.69 ug/L #	72
62) bromoform	13.010	173	41686	17.85 ug/L	98
64) 1,2,3-trichloropropane	13.922	75	58265	16.37 ug/L	91
65) n-propylbenzene	13.959	91	182849	16.72 ug/L	94
66) 2-chlorotoluene	14.111	91	121360	15.56 ug/L #	86
67) 4-chlorotoluene	14.299	91	133613	14.90 ug/L #	81
68) 1,3,5-trimethylbenzene	14.263	105	121237	15.73 ug/L #	86
70) 1,1,2,2-tetrachloroethane	13.880	83	63767	18.08 ug/L	95
71) tert-butylbenzene	14.774	119	94670	16.51 ug/L #	82
72) sec-butylbenzene	15.114	105	135562	16.91 ug/L	93
73) 1,2,4-trimethylbenzene	14.865	105	127655	15.55 ug/L	88
74) 1,3-dichlorobenzene	15.303	146	83623	19.48 ug/L	90
75) p-isopropyltoluene	15.345	119	105363	16.37 ug/L	89
76) dicyclopentadiene	15.412	66	165968	15.09 ug/L	96
77) 1,4-dichlorobenzene	15.436	146	88176	19.76 ug/L	90
78) 1,2-dichlorobenzene	15.972	146	81393	19.33 ug/L	93
79) n-butylbenzene	15.941	91	81302	14.27 ug/L	90
80) 1,2-dibromo-3-chloropr...	17.060	75	9716	12.92 ug/L #	63
81) 1,2,4-trichlorobenzene	18.015	180	30593	18.59 ug/L	89
82) hexachlorobutadiene	18.167	225	20290	17.53 ug/L	91
83) naphthalene	18.276	128	50225	16.80 ug/L	100
84) 1,2,3-trichlorobenzene	18.520	180	27954	19.15 ug/L	92
85) 2-methylnaphthalene	19.347	142	10513	17.35 ug/L	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100308.D Vial: 8
Acq On : 3 Oct 2008 11:16 am Operator: BR
Sample : ,ICAL,ICAL-w-20 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:25:47 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100309.D Vial: 9
Acq On : 3 Oct 2008 11:48 am Operator: BR
Sample : ,ICAL,ICAL-w-10 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:25:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.003	96	474381	50.00	ug/L	0.01
41) chlorobenzene-d5	11.539	117	376882	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.401	152	179613	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.145	113	145732	49.08	ug/L	0.00
30) 1,2-dichloroethane-d4	6.583	65	179136	31.74	ug/L	0.00
44) toluene-d8	9.253	98	478578	45.70	ug/L	0.00
63) 4-bromofluorobenzene	13.540	95	167839	37.14	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.511	85	13146	9.76	ug/L	87
3) chloromethane	1.718	50	21690	13.50	ug/L	97
4) vinyl chloride	1.840	62	22024	9.81	ug/L	99
5) 1,3-butadiene	1.882	39	24599	8.32	ug/L	99
6) bromomethane	2.229	94	10801	12.88	ug/L	91
7) chloroethane	2.363	64	13238	8.89	ug/L	99
8) trichlorofluoromethane	2.642	101	42473	8.81	ug/L	93
9) acrolein	3.220	56	14689	118.50	ug/L	100
10) 1,1-dichloroethene	3.281	96	20311	10.20	ug/L #	78
11) acetone	3.415	43	12363	10.48	ug/L	87
12) carbon disulfide	3.530	76	63108	10.28	ug/L	100
13) methylene chloride	3.920	84	40520	14.39	ug/L	94
14) acrylonitrile	4.248	53	125473	118.38	ug/L	87
15) trans-1,2-dichloroethene	4.224	96	23005	10.03	ug/L #	86
16) methyl-t-butyl ether	4.211	73	77395	7.77	ug/L	88
17) acetonitrile	3.774	41	51330	144.92	ug/L	93
18) hexane	4.503	57	22272	9.02	ug/L #	99
19) 1,1-dichloroethane	4.759	63	48802	9.23	ug/L	94
20) vinyl acetate	4.838	43	29235	9.19	ug/L	96
21) cis-1,2-dichloroethene	5.513	96	27987	10.67	ug/L #	75
22) 2,2-dichloropropane	5.464	77	36604	7.01	ug/L #	86
23) 2-butanone	5.562	72	2406	8.10	ug/L #	62
24) methyl acrylate	5.659	55	20413	8.69	ug/L #	97
25) chloroform	5.939	83	49943	8.24	ug/L	98
27) 1,1,1-trichloroethane	6.109	97	37959	7.06	ug/L	93
28) cyclohexane	6.151	56	29387	8.95	ug/L	95
29) carbon tetrachloride	6.328	117	32222	7.70	ug/L	98
31) benzene	6.614	78	95188	9.71	ug/L	99
32) 1,1-dichloropropene	6.334	75	30172	8.38	ug/L #	93
33) 1,2-dichloroethane	6.687	62	48465	7.14	ug/L	98
34) trichloroethene	7.508	95	22794	8.83	ug/L #	82
35) ethyl acrylate	7.690	55	25469	7.41	ug/L	100
36) 1,2-dichloropropane	7.836	63	28654	10.59	ug/L	93
37) methyl methacrylate	8.018	41	24832	8.26	ug/L #	75
38) dibromomethane	8.037	93	19563	9.75	ug/L #	87
39) bromodichloromethane	8.262	83	39385	7.65	ug/L	87
40) 2-chloroethyl vinyl ether	8.693	63	8878	7.11	ug/L #	84
42) cis-1,3-dichloropropene	8.900	75	37892	7.66	ug/L	92
43) 4-methyl-2-pentanone	9.125	43	27964	9.56	ug/L #	95
45) toluene	9.350	92	54978	9.34	ug/L	95
46) 1,1,2-trichloroethane	10.043	83	22760	9.71	ug/L	94
47) 1,3-dichloropropane	10.299	76	44489	8.43	ug/L	98
48) tetrachloroethene	10.183	164	19073	10.15	ug/L	90

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100309.D Vial: 9
Acq On : 3 Oct 2008 11:48 am Operator: BR
Sample : ,ICAL,ICAL-w-10 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:25:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

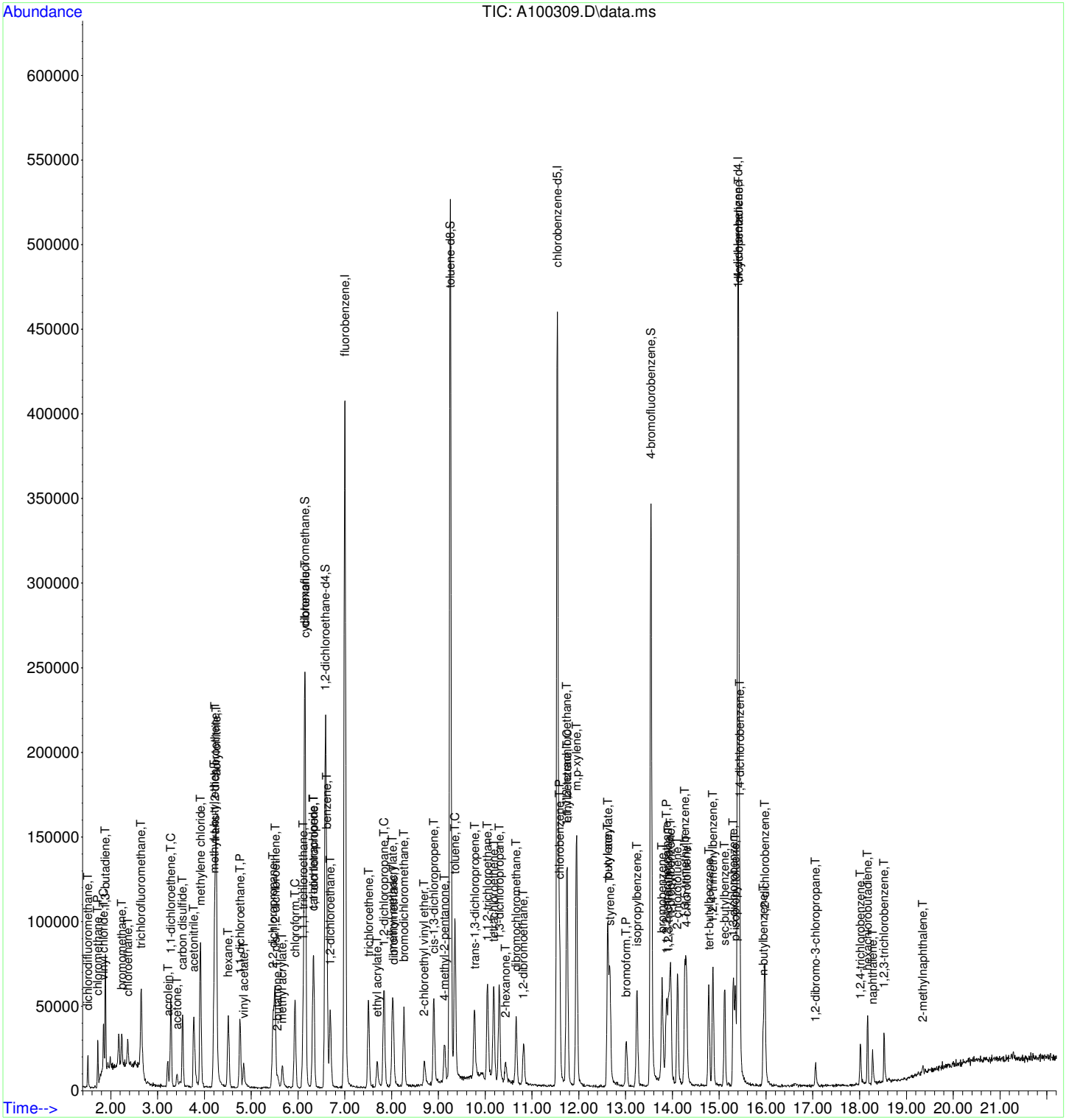
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.776	75	32734	6.91 ug/L	95
50) 2-hexanone	10.433	43	14762	8.60 ug/L	90
51) dibromochloromethane	10.658	129	28528	9.17 ug/L	93
52) 1,2-dibromoethane	10.816	107	25616	9.27 ug/L #	94
53) chlorobenzene	11.588	112	62669	10.32 ug/L	85
54) 1,1,1,2-tetrachloroethane	11.740	131	25180	9.21 ug/L #	89
55) ethylbenzene	11.752	91	86038	7.91 ug/L	84
56) m,p-xylene	11.953	106	65534	17.67 ug/L #	76
57) butyl acrylate	12.622	55	23478	5.11 ug/L	97
58) o-xylene	12.616	106	30205	8.01 ug/L #	73
59) styrene	12.665	104	51723	8.16 ug/L	87
60) isopropylbenzene	13.242	105	57639	7.34 ug/L	91
61) bromobenzene	13.777	156	27233	10.00 ug/L #	74
62) bromoform	13.011	173	20723	9.26 ug/L	93
64) 1,2,3-trichloropropane	13.911	75	29422	8.62 ug/L	90
65) n-propylbenzene	13.960	91	78896	7.53 ug/L	93
66) 2-chlorotoluene	14.106	91	55850	7.47 ug/L #	82
67) 4-chlorotoluene	14.300	91	61766	7.19 ug/L #	81
68) 1,3,5-trimethylbenzene	14.264	105	55020	7.44 ug/L	90
70) 1,1,2,2-tetrachloroethane	13.875	83	32606	10.36 ug/L	94
71) tert-butylbenzene	14.781	119	37916	7.41 ug/L #	84
72) sec-butylbenzene	15.115	105	54200	7.58 ug/L #	91
73) 1,2,4-trimethylbenzene	14.866	105	55437	7.57 ug/L	92
74) 1,3-dichlorobenzene	15.298	146	38943	10.17 ug/L	92
75) p-isopropyltoluene	15.340	119	44514	7.75 ug/L	83
76) dicyclopentadiene	15.413	66	76921	7.84 ug/L	94
77) 1,4-dichlorobenzene	15.438	146	42367	10.65 ug/L	91
78) 1,2-dichlorobenzene	15.973	146	40707	10.84 ug/L	89
79) n-butylbenzene	15.942	91	29417	5.79 ug/L	90
80) 1,2-dibromo-3-chloropr...	17.055	75	4764	7.10 ug/L #	63
81) 1,2,4-trichlorobenzene	18.016	180	11211	7.64 ug/L	92
82) hexachlorobutadiene	18.168	225	9049	8.77 ug/L	82
83) naphthalene	18.278	128	19060	7.15 ug/L	100
84) 1,2,3-trichlorobenzene	18.521	180	10929	8.39 ug/L	95
85) 2-methylnaphthalene	19.348	142	4348	8.05 ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100309.D Vial: 9
Acq On : 3 Oct 2008 11:48 am Operator: BR
Sample : ,ICAL,ICAL-w-10 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:25:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 11:59:58 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100310.D Vial: 10
Acq On : 3 Oct 2008 12:20 pm Operator: BR
Sample : ,ICAL,ICAL-w-5 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:53:16 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 12:29:07 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.997	96	449858	50.00	ug/L	0.00
41) chlorobenzene-d5	11.540	117	356741	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.402	152	164676	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.146	113	140645	50.55	ug/L	0.00
30) 1,2-dichloroethane-d4	6.584	65	176011	37.64	ug/L	0.00
44) toluene-d8	9.254	98	454372	47.27	ug/L	0.00
63) 4-bromofluorobenzene	13.541	95	150305	37.92	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.512	85	7848	6.16	ug/L	95
3) chloromethane	1.719	50	12130	7.32	ug/L	92
4) vinyl chloride	1.841	62	12586	5.99	ug/L	99
5) 1,3-butadiene	1.883	39	13777	5.21	ug/L	97
6) bromomethane	2.236	94	5729	6.81	ug/L	97
7) chloroethane	2.364	64	8031	5.97	ug/L	92
8) trichlorofluoromethane	2.655	101	24701	5.65	ug/L	88
9) acrolein	3.215	56	7049	56.13	ug/L	97
10) 1,1-dichloroethene	3.288	96	11902	6.25	ug/L #	81
11) acetone	3.410	43	6779	6.23	ug/L	91
12) carbon disulfide	3.531	76	38125	6.46	ug/L	99
13) methylene chloride	3.914	84	27654	9.65	ug/L	92
14) acrylonitrile	4.255	53	62230	59.30	ug/L	94
15) trans-1,2-dichloroethene	4.224	96	13370	6.17	ug/L #	89
16) methyl-t-butyl ether	4.212	73	36660	4.17	ug/L	92
17) acetonitrile	3.768	41	26904	71.56	ug/L	91
18) hexane	4.504	57	12832	5.36	ug/L #	95
19) 1,1-dichloroethane	4.766	63	26695	5.47	ug/L	99
20) vinyl acetate	4.833	43	13328	4.40	ug/L	88
21) cis-1,2-dichloroethene	5.508	96	13730	5.39	ug/L #	81
22) 2,2-dichloropropane	5.471	77	20329	4.53	ug/L #	88
23) 2-butanone	5.562	72	1237	4.25	ug/L #	89
24) methyl acrylate	5.666	55	10638	4.73	ug/L #	87
25) chloroform	5.939	83	26272	4.87	ug/L	96
27) 1,1,1-trichloroethane	6.110	97	22113	4.79	ug/L	90
28) cyclohexane	6.146	56	16989	5.33	ug/L	92
29) carbon tetrachloride	6.316	117	19730	5.28	ug/L	85
31) benzene	6.614	78	52857	5.73	ug/L	98
32) 1,1-dichloropropene	6.341	75	17043	5.20	ug/L #	90
33) 1,2-dichloroethane	6.687	62	24074	4.19	ug/L	94
34) trichloroethene	7.502	95	13463	5.62	ug/L #	71
35) ethyl acrylate	7.691	55	12914	4.01	ug/L	91
36) 1,2-dichloropropane	7.837	63	15290	5.79	ug/L	83
37) methyl methacrylate	8.013	41	10662	3.86	ug/L	90
38) dibromomethane	8.037	93	9228	4.89	ug/L #	84
39) bromodichloromethane	8.268	83	20108	4.45	ug/L	99
40) 2-chloroethyl vinyl ether	8.706	63	3526	3.02	ug/L	92
42) cis-1,3-dichloropropene	8.901	75	19365	4.35	ug/L	88
43) 4-methyl-2-pentanone	9.132	43	12565	4.53	ug/L	94
45) toluene	9.357	92	30806	5.63	ug/L	95
46) 1,1,2-trichloroethane	10.050	83	11094	5.09	ug/L	95
47) 1,3-dichloropropane	10.294	76	22570	4.77	ug/L	99
48) tetrachloroethene	10.178	164	11075	6.09	ug/L	92

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100310.D Vial: 10
Acq On : 3 Oct 2008 12:20 pm Operator: BR
Sample : ,ICAL,ICAL-w-5 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:53:16 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 12:29:07 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

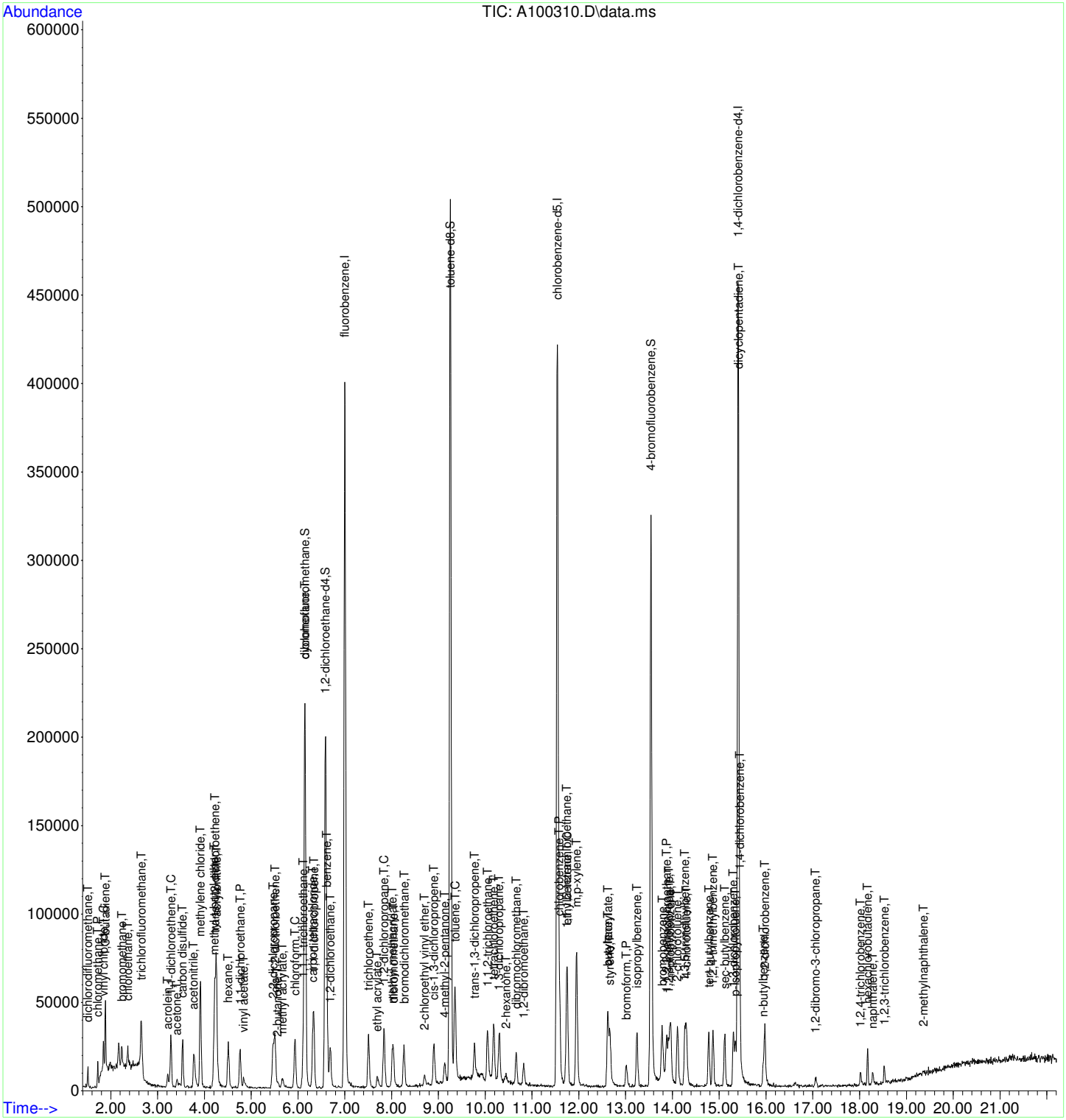
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	trans-1,3-dichloropropene	9.771	75	16154	3.92	ug/L		93
50)	2-hexanone	10.446	43	5312	3.30	ug/L		83
51)	dibromochloromethane	10.665	129	13588	4.69	ug/L		98
52)	1,2-dibromoethane	10.823	107	12518	4.85	ug/L	#	97
53)	chlorobenzene	11.583	112	32868	5.65	ug/L		84
54)	1,1,1,2-tetrachloroethane	11.741	131	13565	5.30	ug/L		92
55)	ethylbenzene	11.753	91	44883	4.54	ug/L		96
56)	m,p-xylene	11.954	106	34390	9.88	ug/L	#	72
57)	butyl acrylate	12.623	55	8607	1.99	ug/L		97
58)	o-xylene	12.623	106	15905	4.56	ug/L	#	78
59)	styrene	12.659	104	23526	3.98	ug/L		86
60)	isopropylbenzene	13.243	105	29815	4.18	ug/L		91
61)	bromobenzene	13.784	156	13293	5.07	ug/L	#	73
62)	bromoform	13.018	173	9739	4.65	ug/L		85
64)	1,2,3-trichloropropane	13.924	75	14227	4.66	ug/L		98
65)	n-propylbenzene	13.955	91	40150	4.19	ug/L		94
66)	2-chlorotoluene	14.107	91	30112m	4.48	ug/L		
67)	4-chlorotoluene	14.295	91	30827	4.03	ug/L	#	89
68)	1,3,5-trimethylbenzene	14.265	105	25000	3.75	ug/L	#	83
70)	1,1,2,2-tetrachloroethane	13.875	83	15514	5.49	ug/L		93
71)	tert-butylbenzene	14.782	119	20124	4.49	ug/L	#	83
72)	sec-butylbenzene	15.122	105	28834	4.60	ug/L		98
73)	1,2,4-trimethylbenzene	14.867	105	24810	3.94	ug/L	#	82
74)	1,3-dichlorobenzene	15.299	146	18846	5.34	ug/L		86
75)	p-isopropyltoluene	15.341	119	19457	3.84	ug/L		88
76)	dicyclopentadiene	15.414	66	43110	5.15	ug/L		94
77)	1,4-dichlorobenzene	15.438	146	23124	6.27	ug/L		87
78)	1,2-dichlorobenzene	15.974	146	18854	5.38	ug/L		87
79)	n-butylbenzene	15.943	91	12165	2.71	ug/L		91
80)	1,2-dibromo-3-chloropr...	17.056	75	2152	3.97	ug/L		89
81)	1,2,4-trichlorobenzene	18.017	180	4198	3.06	ug/L	#	72
82)	hexachlorobutadiene	18.169	225	4258	4.62	ug/L		91
83)	naphthalene	18.278	128	6688	2.70	ug/L		100
84)	1,2,3-trichlorobenzene	18.534	180	4409	3.65	ug/L	#	62
85)	2-methylnaphthalene	19.361	142	1753	3.69	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100310.D Vial: 10
Acq On : 3 Oct 2008 12:20 pm Operator: BR
Sample : ,ICAL,ICAL-w-5 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 12:53:16 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 12:29:07 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100311.D Vial: 11
Acq On : 3 Oct 2008 12:52 pm Operator: BR
Sample : ,ICAL,ICAL-w-70 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 13:17:21 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 12:54:27 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.995	96	469615	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	391551	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.400	152	221529	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.144	113	146363	50.43	ug/L	0.00
30) 1,2-dichloroethane-d4	6.582	65	180753	39.78	ug/L	0.00
44) toluene-d8	9.251	98	490902	47.35	ug/L	0.00
63) 4-bromofluorobenzene	13.539	95	191634	46.13	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.510	85	85891	61.15	ug/L	96
3) chloromethane	1.717	50	134202	72.29	ug/L	98
4) vinyl chloride	1.844	62	141259	62.35	ug/L	98
5) 1,3-butadiene	1.881	39	157934	55.96	ug/L	99
6) bromomethane	2.215	94	41292	43.87	ug/L	98
7) chloroethane	2.349	64	86457	61.06	ug/L	95
8) trichlorofluoromethane	2.641	101	277630	60.82	ug/L	97
9) acrolein	3.207	56	110975	814.31	ug/L	95
10) 1,1-dichloroethene	3.280	96	142639	68.70	ug/L #	84
11) acetone	3.407	43	78630	69.17	ug/L	90
12) carbon disulfide	3.535	76	432744	67.08	ug/L	100
13) methylene chloride	3.912	84	205539	68.68	ug/L	89
14) acrylonitrile	4.247	53	886541	781.32	ug/L	94
15) trans-1,2-dichloroethene	4.222	96	165926	70.65	ug/L	90
16) methyl-t-butyl ether	4.204	73	577418	64.66	ug/L	88
17) acetonitrile	3.766	41	348706	828.72	ug/L	93
18) hexane	4.508	57	158205	63.32	ug/L #	100
19) 1,1-dichloroethane	4.757	63	345532	67.53	ug/L	98
20) vinyl acetate	4.830	43	255275	80.47	ug/L	94
21) cis-1,2-dichloroethene	5.505	96	197641	73.02	ug/L #	82
22) 2,2-dichloropropane	5.463	77	261350	56.70	ug/L #	86
23) 2-butanone	5.554	72	23149	76.22	ug/L #	22
24) methyl acrylate	5.651	55	185946	76.42	ug/L #	97
25) chloroform	5.931	83	347958	63.00	ug/L	96
27) 1,1,1-trichloroethane	6.120	97	281260	59.18	ug/L	94
28) cyclohexane	6.144	56	230557	69.29	ug/L	94
29) carbon tetrachloride	6.320	117	245460	62.14	ug/L	98
31) benzene	6.612	78	697634	70.77	ug/L	100
32) 1,1-dichloropropene	6.332	75	229830	65.67	ug/L #	93
33) 1,2-dichloroethane	6.685	62	340359	59.71	ug/L	98
34) trichloroethene	7.500	95	176260	68.65	ug/L #	80
35) ethyl acrylate	7.682	55	253788	75.56	ug/L	98
36) 1,2-dichloropropane	7.835	63	210239	73.99	ug/L	89
37) methyl methacrylate	7.999	41	207685	72.07	ug/L	87
38) dibromomethane	8.029	93	138947	70.92	ug/L #	87
39) bromodichloromethane	8.260	83	296941	64.72	ug/L	97
40) 2-chloroethyl vinyl ether	8.692	63	102535	85.18	ug/L	99
42) cis-1,3-dichloropropene	8.899	75	317439	66.46	ug/L	95
43) 4-methyl-2-pentanone	9.130	43	222916	73.22	ug/L #	95
45) toluene	9.349	92	417050	68.27	ug/L	98
46) 1,1,2-trichloroethane	10.048	83	162276	68.31	ug/L	95
47) 1,3-dichloropropane	10.297	76	337856	66.63	ug/L	99
48) tetrachloroethene	10.182	164	140655	67.71	ug/L	96

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100311.D Vial: 11
Acq On : 3 Oct 2008 12:52 pm Operator: BR
Sample : ,ICAL,ICAL-w-70 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 13:17:21 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 12:54:27 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

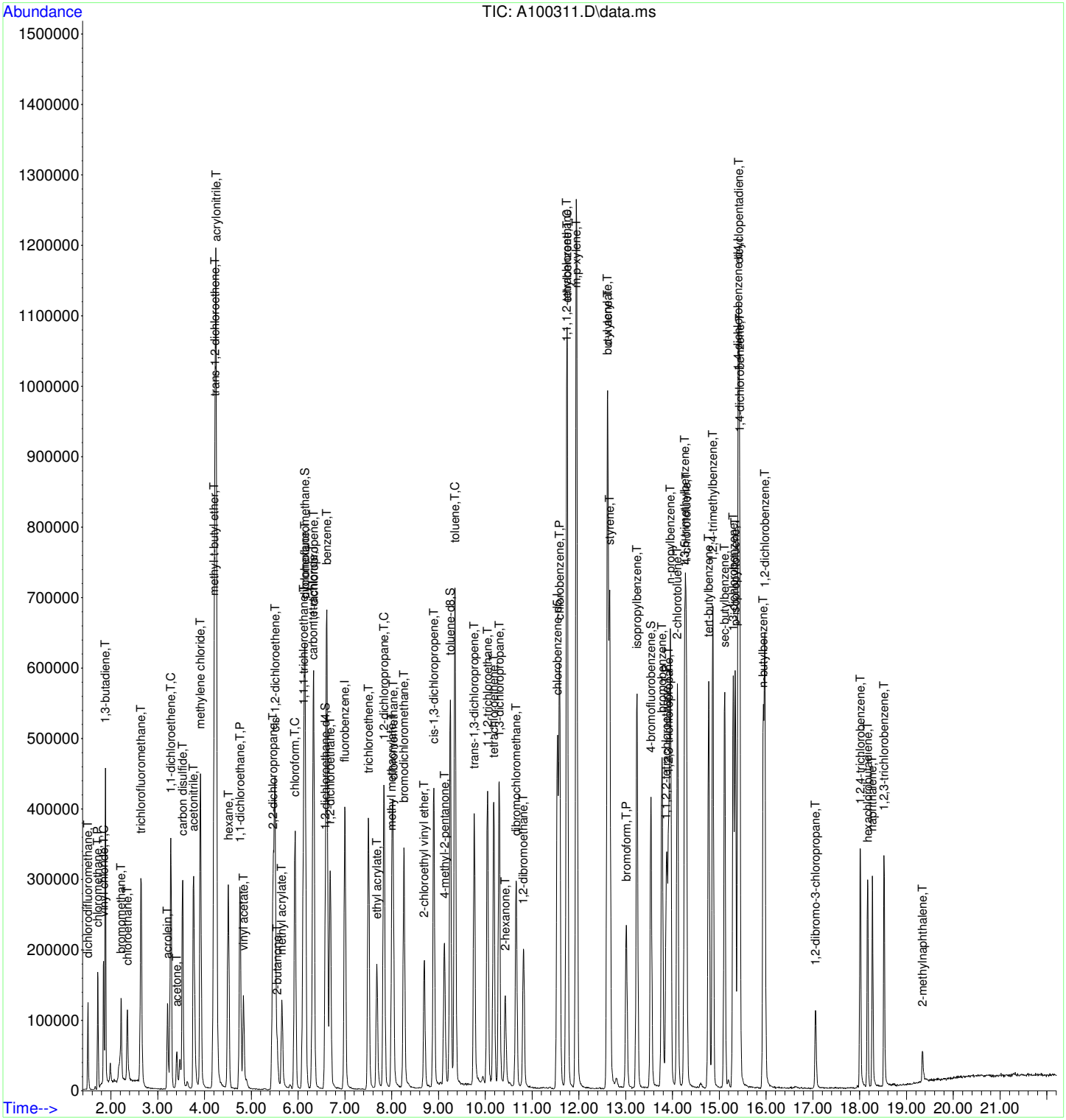
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.762	75	281928	64.20 ug/L	95
50) 2-hexanone	10.425	43	142252	80.71 ug/L	97
51) dibromochloromethane	10.656	129	223709	71.03 ug/L	94
52) 1,2-dibromoethane	10.814	107	199965	70.57 ug/L	97
53) chlorobenzene	11.587	112	461754	70.76 ug/L #	83
54) 1,1,1,2-tetrachloroethane	11.739	131	194660	68.61 ug/L	95
55) ethylbenzene	11.751	91	729703	67.51 ug/L	88
56) m,p-xylene	11.945	106	556745	144.08 ug/L #	79
57) butyl acrylate	12.608	55	352040	74.12 ug/L	93
58) o-xylene	12.614	106	280852	73.06 ug/L #	78
59) styrene	12.657	104	491924	76.11 ug/L	87
60) isopropylbenzene	13.241	105	551612	70.31 ug/L	92
61) bromobenzene	13.776	156	218710	75.11 ug/L #	71
62) bromoform	13.016	173	172171	74.63 ug/L	96
64) 1,2,3-trichloropropane	13.916	75	210884	64.63 ug/L	88
65) n-propylbenzene	13.952	91	707965	67.58 ug/L #	91
66) 2-chlorotoluene	14.104	91	481247m	66.25 ug/L	
67) 4-chlorotoluene	14.293	91	534705	64.83 ug/L #	84
68) 1,3,5-trimethylbenzene	14.262	105	496507	68.75 ug/L	87
70) 1,1,2,2-tetrachloroethane	13.867	83	239822	63.65 ug/L	98
71) tert-butylbenzene	14.773	119	386277	63.88 ug/L #	82
72) sec-butylbenzene	15.114	105	537209	62.69 ug/L #	92
73) 1,2,4-trimethylbenzene	14.865	105	526268	63.54 ug/L	88
74) 1,3-dichlorobenzene	15.296	146	327936	68.25 ug/L	92
75) p-isopropyltoluene	15.339	119	443237	65.22 ug/L	88
76) dicyclopentadiene	15.418	66	635207	57.26 ug/L	93
77) 1,4-dichlorobenzene	15.436	146	340090	66.44 ug/L	94
78) 1,2-dichlorobenzene	15.971	146	327044	68.11 ug/L	94
79) n-butylbenzene	15.935	91	372132	61.63 ug/L	97
80) 1,2-dibromo-3-chloropr...	17.054	75	35819	51.62 ug/L #	65
81) 1,2,4-trichlorobenzene	18.015	180	132221	70.70 ug/L	92
82) hexachlorobutadiene	18.173	225	67286	54.20 ug/L	92
83) naphthalene	18.270	128	245366	73.87 ug/L	100
84) 1,2,3-trichlorobenzene	18.519	180	115122	69.39 ug/L	92
85) 2-methylnaphthalene	19.340	142	31471	49.21 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100311.D Vial: 11
Acq On : 3 Oct 2008 12:52 pm Operator: BR
Sample : ,ICAL,ICAL-w-70 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 13:17:21 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 12:54:27 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100312.D Vial: 12
Acq On : 3 Oct 2008 1:32 pm Operator: BR
Sample : ,ICAL,ICAL-w-100 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 14:01:32 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 13:19:11 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.997	96	508334	50.00	ug/L	0.00
41) chlorobenzene-d5	11.540	117	418986	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.401	152	237421	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.139	113	157095	49.98	ug/L	0.00
30) 1,2-dichloroethane-d4	6.577	65	190303	41.87	ug/L	0.00
44) toluene-d8	9.247	98	534792	48.93	ug/L	0.00
63) 4-bromofluorobenzene	13.540	95	205643	48.09	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.505	85	179151	119.62	ug/L	98
3) chloromethane	1.718	50	248929	119.09	ug/L	99
4) vinyl chloride	1.840	62	262317	108.23	ug/L	95
5) 1,3-butadiene	1.882	39	333395	113.95	ug/L	99
6) bromomethane	2.217	94	57138	57.72	ug/L	96
7) chloroethane	2.339	64	146251	98.04	ug/L	96
8) trichlorofluoromethane	2.636	101	455180	95.39	ug/L	95
9) acrolein	3.202	56	170299	1094.64	ug/L	98
10) 1,1-dichloroethene	3.275	96	245887	108.43	ug/L #	85
11) acetone	3.403	43	116963	95.57	ug/L	90
12) carbon disulfide	3.524	76	772633	109.89	ug/L	100
13) methylene chloride	3.908	84	318688	97.11	ug/L	93
14) acrylonitrile	4.242	53	1329073	1046.45	ug/L	93
15) trans-1,2-dichloroethene	4.218	96	276374	107.83	ug/L #	88
16) methyl-t-butyl ether	4.199	73	887413	95.46	ug/L	89
17) acetonitrile	3.762	41	529192	1089.97	ug/L	94
18) hexane	4.503	57	385008	142.97	ug/L #	97
19) 1,1-dichloroethane	4.753	63	549990	100.45	ug/L	98
20) vinyl acetate	4.826	43	398071	113.96	ug/L	96
21) cis-1,2-dichloroethene	5.501	96	321526	108.40	ug/L #	84
22) 2,2-dichloropropane	5.464	77	455040	96.80	ug/L #	86
23) 2-butanone	5.543	72	35534	108.96	ug/L #	25
24) methyl acrylate	5.647	55	318491	120.79	ug/L #	97
25) chloroform	5.926	83	541380	94.02	ug/L	98
27) 1,1,1-trichloroethane	6.109	97	463312	94.91	ug/L	98
28) cyclohexane	6.139	56	505533	139.58	ug/L	92
29) carbon tetrachloride	6.316	117	423785	102.75	ug/L	96
31) benzene	6.608	78	1097416	102.61	ug/L	99
32) 1,1-dichloropropene	6.328	75	403932	108.71	ug/L #	93
33) 1,2-dichloroethane	6.681	62	514483	88.46	ug/L	95
34) trichloroethene	7.495	95	291440	105.79	ug/L #	80
35) ethyl acrylate	7.678	55	437338	120.49	ug/L	99
36) 1,2-dichloropropane	7.830	63	327335	104.99	ug/L	86
37) methyl methacrylate	8.000	41	353364	114.30	ug/L	88
38) dibromomethane	8.025	93	213362	101.28	ug/L #	86
39) bromodichloromethane	8.256	83	451689	94.80	ug/L	94
40) 2-chloroethyl vinyl ether	8.694	63	164209	125.08	ug/L	98
42) cis-1,3-dichloropropene	8.894	75	499874	100.58	ug/L	91
43) 4-methyl-2-pentanone	9.119	43	340521	104.91	ug/L #	94
45) toluene	9.344	92	666990	102.77	ug/L	98
46) 1,1,2-trichloroethane	10.044	83	249045	99.10	ug/L	94
47) 1,3-dichloropropane	10.293	76	511855	96.37	ug/L	100
48) tetrachloroethene	10.177	164	252325	113.37	ug/L	96

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100312.D Vial: 12
Acq On : 3 Oct 2008 1:32 pm Operator: BR
Sample : ,ICAL,ICAL-w-100 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 14:01:32 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 13:19:11 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

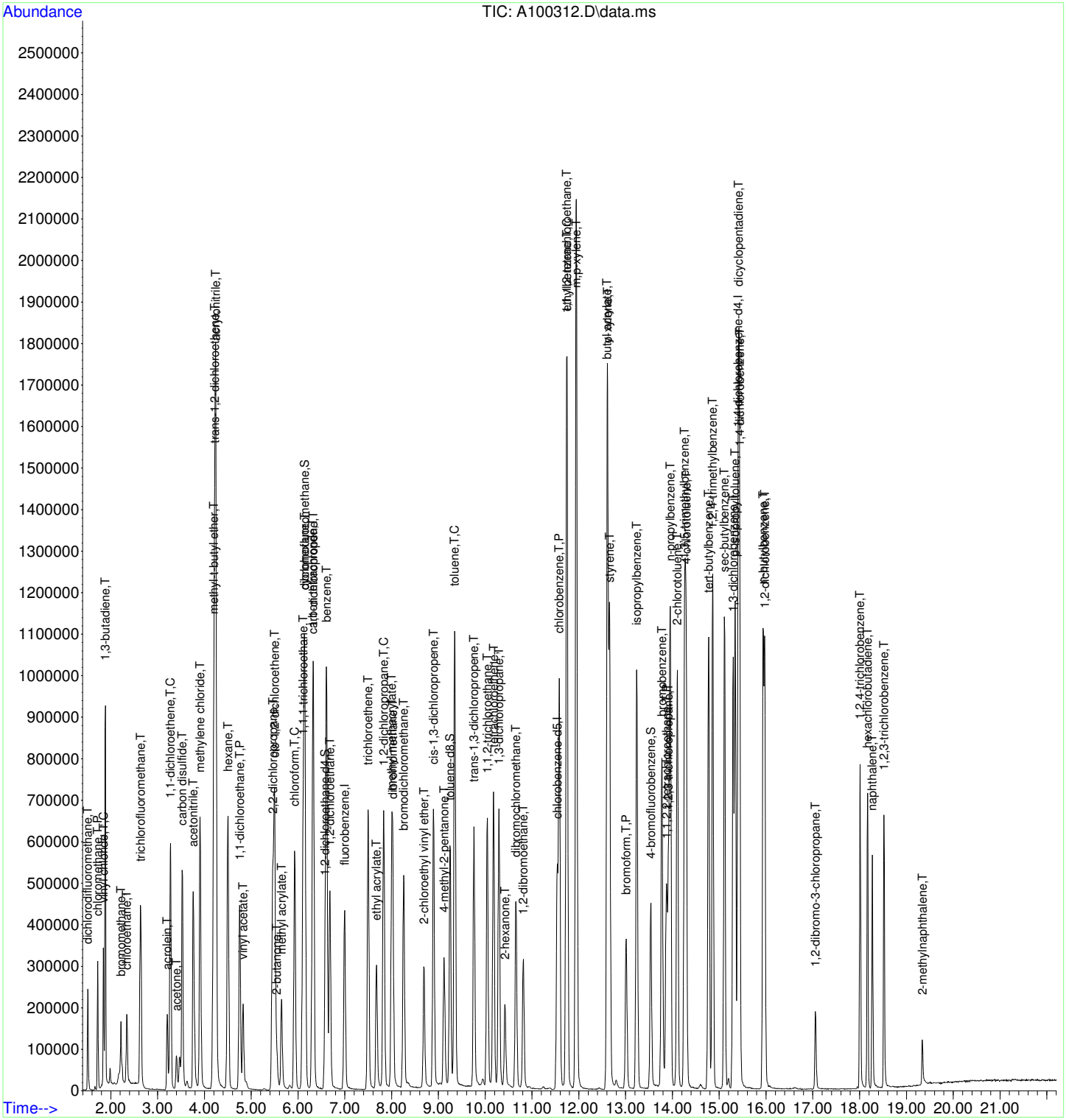
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.758	75	443074	98.72 ug/L	96
50) 2-hexanone	10.421	43	216912	114.94 ug/L	96
51) dibromochloromethane	10.652	129	350917	105.13 ug/L	94
52) 1,2-dibromoethane	10.816	107	309648	102.86 ug/L	99
53) chlorobenzene	11.582	112	758365	107.92 ug/L	84
54) 1,1,1,2-tetrachloroethane	11.740	131	310881	103.61 ug/L	96
55) ethylbenzene	11.746	91	1260526	111.34 ug/L	91
56) m,p-xylene	11.947	106	942388	228.02 ug/L #	80
57) butyl acrylate	12.604	55	624758	125.37 ug/L	94
58) o-xylene	12.616	106	477829	116.97 ug/L #	79
59) styrene	12.659	104	806697	117.18 ug/L	87
60) isopropylbenzene	13.236	105	1017985	123.49 ug/L	91
61) bromobenzene	13.778	156	367482	116.51 ug/L #	70
62) bromoform	13.011	173	268264	108.83 ug/L	97
64) 1,2,3-trichloropropane	13.911	75	320533	94.61 ug/L	93
65) n-propylbenzene	13.954	91	1348650	122.85 ug/L	92
66) 2-chlorotoluene	14.106	91	833332m	110.17 ug/L	
67) 4-chlorotoluene	14.294	91	948827	111.66 ug/L #	85
68) 1,3,5-trimethylbenzene	14.258	105	904410	119.91 ug/L #	87
70) 1,1,2,2-tetrachloroethane	13.875	83	356904	89.81 ug/L	99
71) tert-butylbenzene	14.775	119	753250	119.47 ug/L #	82
72) sec-butylbenzene	15.109	105	1085332	121.64 ug/L	92
73) 1,2,4-trimethylbenzene	14.860	105	932852	108.90 ug/L #	86
74) 1,3-dichlorobenzene	15.298	146	582363	112.89 ug/L	93
75) p-isopropyltoluene	15.340	119	889991	125.76 ug/L	89
76) dicyclopentadiene	15.413	66	1262876	110.62 ug/L	94
77) 1,4-dichlorobenzene	15.438	146	600953	109.03 ug/L	92
78) 1,2-dichlorobenzene	15.973	146	568197	110.25 ug/L	95
79) n-butylbenzene	15.936	91	773771	124.83 ug/L	95
80) 1,2-dibromo-3-chloropr...	17.055	75	55498	80.36 ug/L #	57
81) 1,2,4-trichlorobenzene	18.010	180	279376	140.90 ug/L	88
82) hexachlorobutadiene	18.168	225	155845	121.31 ug/L	97
83) naphthalene	18.272	128	458455	129.04 ug/L	100
84) 1,2,3-trichlorobenzene	18.521	180	226286	127.53 ug/L	93
85) 2-methylnaphthalene	19.342	142	65046	96.22 ug/L	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100312.D Vial: 12
Acq On : 3 Oct 2008 1:32 pm Operator: BR
Sample : ,ICAL,ICAL-w-100 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 14:01:32 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 13:19:11 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100313.D Vial: 13
Acq On : 3 Oct 2008 2:05 pm Operator: BR
Sample : ,ICAL,ICAL-w-200 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 14:36:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 14:02:05 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	540837	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	466704	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	267414	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	161779	48.56	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	203576	45.76	ug/L	0.00
44) toluene-d8	9.251	98	568870	47.32	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	218760	47.89	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.509	85	330283	199.22	ug/L	98
3) chloromethane	1.716	50	471583	198.69	ug/L	97
4) vinyl chloride	1.844	62	516930	195.81	ug/L	95
5) 1,3-butadiene	1.880	39	619348	197.93	ug/L	99
6) bromomethane	2.215	94	101302	96.18	ug/L	96
7) chloroethane	2.336	64	277293	176.08	ug/L	96
8) trichlorofluoromethane	2.634	101	969990	193.76	ug/L	97
9) acrolein	3.206	56	367319	2129.95	ug/L	94
10) 1,1-dichloroethene	3.273	96	496943	200.19	ug/L #	82
11) acetone	3.407	43	248851	193.91	ug/L	84
12) carbon disulfide	3.528	76	1474261	191.11	ug/L	98
13) methylene chloride	3.912	84	632608	177.55	ug/L	95
14) acrylonitrile	4.246	53	2799622	2025.98	ug/L	93
15) trans-1,2-dichloroethene	4.216	96	551114	196.88	ug/L	89
16) methyl-t-butyl ether	4.203	73	1909519	201.27	ug/L	88
17) acetonitrile	3.766	41	1081411	1986.19	ug/L	94
18) hexane	4.501	57	684505	216.27	ug/L #	98
19) 1,1-dichloroethane	4.757	63	1109631	190.82	ug/L	99
20) vinyl acetate	4.830	43	883527	234.55	ug/L	94
21) cis-1,2-dichloroethene	5.505	96	652340	202.87	ug/L #	84
22) 2,2-dichloropropane	5.468	77	931862	192.88	ug/L #	87
23) 2-butanone	5.547	72	80497	233.06	ug/L #	50
24) methyl acrylate	5.651	55	691795	244.46	ug/L #	96
25) chloroform	5.931	83	1114818	187.50	ug/L	96
27) 1,1,1-trichloroethane	6.113	97	962158	192.14	ug/L	96
28) cyclohexane	6.143	56	945996	227.28	ug/L	91
29) carbon tetrachloride	6.320	117	870912	200.53	ug/L	95
31) benzene	6.612	78	2287301	199.23	ug/L	100
32) 1,1-dichloropropene	6.332	75	815362	205.61	ug/L #	93
33) 1,2-dichloroethane	6.685	62	1091347	187.71	ug/L	97
34) trichloroethene	7.500	95	597055	201.89	ug/L #	78
35) ethyl acrylate	7.676	55	963902	247.56	ug/L	99
36) 1,2-dichloropropane	7.834	63	678607	201.18	ug/L	89
37) methyl methacrylate	8.004	41	755112	229.14	ug/L	89
38) dibromomethane	8.029	93	455447	203.73	ug/L #	86
39) bromodichloromethane	8.260	83	957917	196.85	ug/L	97
40) 2-chloroethyl vinyl ether	8.691	63	382362	272.01	ug/L	98
42) cis-1,3-dichloropropene	8.898	75	1073625	198.43	ug/L	92
43) 4-methyl-2-pentanone	9.123	43	718948	199.20	ug/L	92
45) toluene	9.348	92	1392216	191.49	ug/L	98
46) 1,1,2-trichloroethane	10.048	83	513917	184.17	ug/L	97
47) 1,3-dichloropropane	10.297	76	1094799	188.88	ug/L	100
48) tetrachloroethene	10.181	164	510511	198.72	ug/L	96

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100313.D Vial: 13
Acq On : 3 Oct 2008 2:05 pm Operator: BR
Sample : ,ICAL,ICAL-w-200 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 14:36:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 14:02:05 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

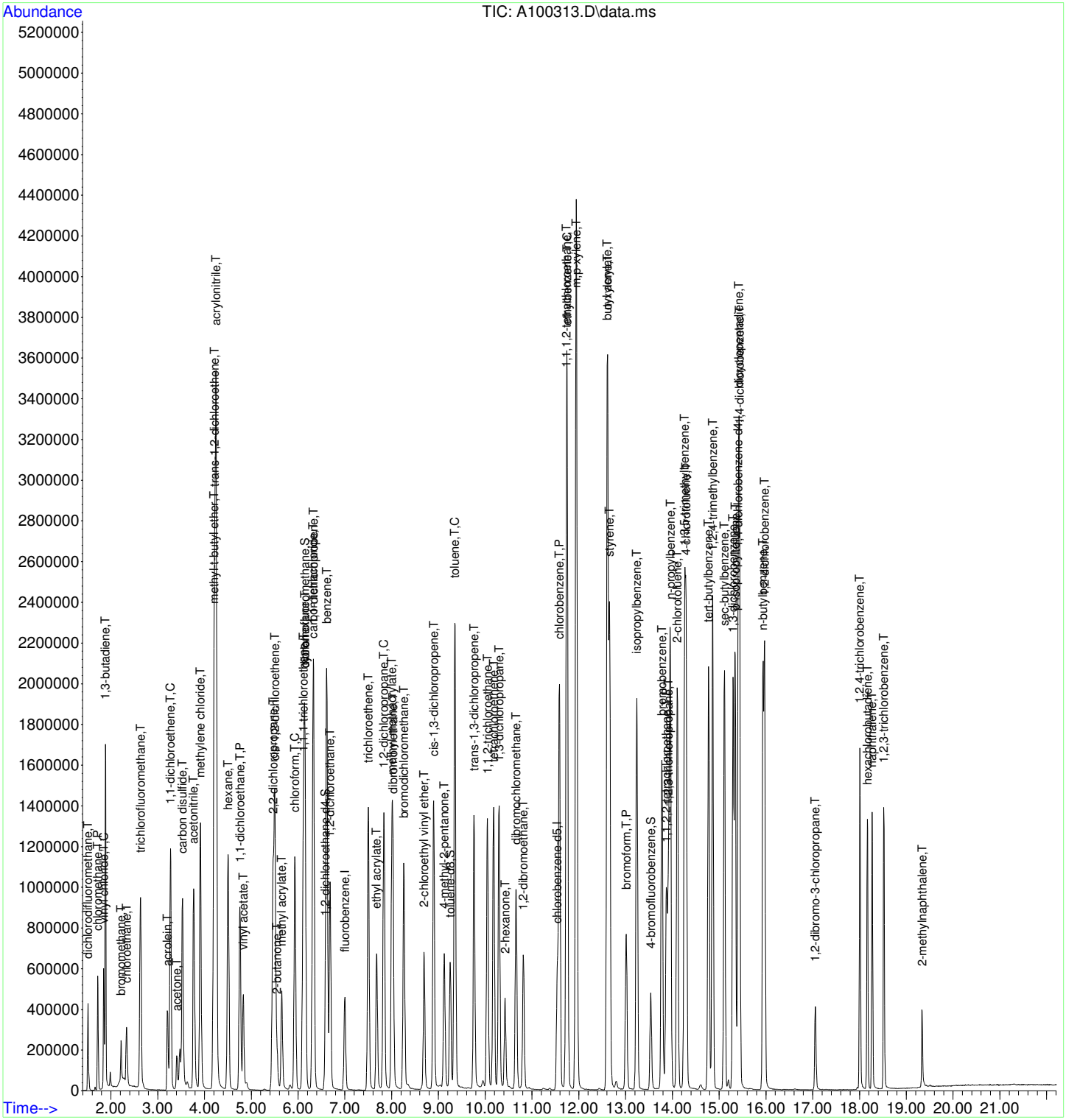
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.762	75	970691	202.47 ug/L	94
50) 2-hexanone	10.425	43	475742	227.12 ug/L	95
51) dibromochloromethane	10.656	129	752343	202.85 ug/L	94
52) 1,2-dibromoethane	10.814	107	661077	197.65 ug/L #	99
53) chlorobenzene	11.586	112	1573017	197.16 ug/L	84
54) 1,1,1,2-tetrachloroethane	11.738	131	652296	194.64 ug/L	95
55) ethylbenzene	11.750	91	2547497	201.76 ug/L	90
56) m,p-xylene	11.945	106	1935199	413.27 ug/L #	83
57) butyl acrylate	12.608	55	1384655	250.48 ug/L	94
58) o-xylene	12.614	106	979485	212.36 ug/L #	83
59) styrene	12.656	104	1687970	218.25 ug/L	88
60) isopropylbenzene	13.240	105	2010352	215.53 ug/L	91
61) bromobenzene	13.775	156	756571	209.08 ug/L #	69
62) bromoform	13.015	173	586222	212.48 ug/L	95
64) 1,2,3-trichloropropane	13.915	75	651658	177.40 ug/L	93
65) n-propylbenzene	13.958	91	2590368	208.43 ug/L #	91
66) 2-chlorotoluene	14.104	91	1659834m	198.40 ug/L	
67) 4-chlorotoluene	14.292	91	1896019	203.13 ug/L #	84
68) 1,3,5-trimethylbenzene	14.262	105	1796572	212.62 ug/L	87
70) 1,1,2,2-tetrachloroethane	13.873	83	730863	166.62 ug/L	99
71) tert-butylbenzene	14.773	119	1436933	200.69 ug/L #	81
72) sec-butylbenzene	15.113	105	2031943	199.45 ug/L #	91
73) 1,2,4-trimethylbenzene	14.864	105	1877272	197.39 ug/L	88
74) 1,3-dichlorobenzene	15.296	146	1153175	194.01 ug/L	92
75) p-isopropyltoluene	15.344	119	1686958	208.29 ug/L	88
76) dicyclopentadiene	15.417	66	2276852	178.00 ug/L	92
77) 1,4-dichlorobenzene	15.436	146	1183503	186.16 ug/L	95
78) 1,2-dichlorobenzene	15.971	146	1126529	190.54 ug/L	94
79) n-butylbenzene	15.934	91	1465781	208.85 ug/L	96
80) 1,2-dibromo-3-chloropr...	17.053	75	124920	175.07 ug/L #	46
81) 1,2,4-trichlorobenzene	18.008	180	583583	253.60 ug/L	92
82) hexachlorobutadiene	18.172	225	295097	200.75 ug/L	95
83) naphthalene	18.270	128	1090877	272.93 ug/L	100
84) 1,2,3-trichlorobenzene	18.519	180	482651	237.53 ug/L	92
85) 2-methylnaphthalene	19.340	142	208770	283.00 ug/L	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100308\A100313.D Vial: 13
Acq On : 3 Oct 2008 2:05 pm Operator: BR
Sample : ,ICAL,ICAL-w-200 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 14:36:33 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 14:02:05 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



CONTINUING CALIBRATION RAW DATA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	81	-0.01
2	T	dichlorodifluoromethane	0.150	0.148	1.3	79	-0.02
3	T,P	chloromethane	0.246	0.233	5.3	80	-0.01
4	T,C	vinyl chloride	0.232	0.253	-9.1	91	-0.02
5	T	1,3-butadiene	0.196	0.220	-12.2	94	-0.01
6	T	bromomethane	0.072	0.047	34.7#	91	-0.02
7	T	chloroethane	0.113	0.112	0.9	87	-0.01
8	T	trichlorofluoromethane	0.203	0.238	-17.2	95	-0.01
9	T	acrolein	0.022	0.015	31.8#	54	-0.02
10	T,C	1,1-dichloroethene	0.114	0.140	-22.8#	102	-0.01
11	T	acetone	0.109	0.090	17.4	65	-0.01
12	T	carbon disulfide	0.341	0.440	-29.0#	107	-0.02
13	T	methylene chloride	0.272	0.274	-0.7	82	-0.02
14	T	acrylonitrile	0.161	0.147	8.7	68	-0.01
15	T	trans-1,2-dichloroethene	0.201	0.235	-16.9	94	-0.01
16	T	methyl-t-butyl ether	0.691	0.617	10.7	68	-0.02
17	T	acetonitrile	0.047	0.045	4.3	75	-0.01
18	T	hexane	0.264	0.286	-8.3	91	-0.01
19	T,P	1,1-dichloroethane	0.422	0.423	-0.2	79	-0.02
20	T	vinyl acetate	0.412	0.367	10.9	68	-0.01
21	T	cis-1,2-dichloroethene	0.260	0.273	-5.0	83	-0.01
22	T	2,2-dichloropropane	0.269	0.299	-11.2	89	-0.02
23	T	2-butanone	0.039	0.034	12.8	67	-0.01
24	T	methyl acrylate	0.372	0.333	10.5	67	-0.01
25	T,C	chloroform	0.389	0.394	-1.3	79	-0.01
26	S	dibromofluoromethane	0.319	0.317	0.6	77	-0.01
27	T	1,1,1-trichloroethane	0.257	0.288	-12.1	90	-0.01
28	T	cyclohexane	0.348	0.375	-7.8	87	-0.01
29	T	carbon tetrachloride	0.231	0.259	-12.1	90	-0.01
30	S	1,2-dichloroethane-d4	0.306	0.304	0.7	78	-0.01
31	T	benzene	0.875	0.852	2.6	79	-0.01
32	T	1,1-dichloropropene	0.276	0.283	-2.5	84	-0.01
33	T	1,2-dichloroethane	0.353	0.358	-1.4	77	-0.01
34	T	trichloroethene	0.214	0.221	-3.3	85	-0.01
35	T	ethyl acrylate	0.511	0.455	11.0	66	-0.01
36	T,C	1,2-dichloropropane	0.281	0.260	7.5	72	-0.01
37	T	methyl methacrylate	0.321	0.293	8.7	69	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	dibromomethane	0.190	0.195	-2.6	77	-0.01
39	T	bromodichloromethane	0.332	0.324	2.4	74	-0.01
40	T	2-chloroethyl vinyl ether	0.059	0.107	-81.4#	142	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	78	-0.01
42	T	cis-1,3-dichloropropene	0.567	0.545	3.9	73	0.00
43	T	4-methyl-2-pentanone	0.527	0.449	14.8	62	0.00
44	S	toluene-d8	1.191	1.199	-0.7	78	-0.01
45	T,C	toluene	0.685	0.724	-5.7	82	0.00
46	T	1,1,2-trichloroethane	0.291	0.285	2.1	71	0.00
47	T	1,3-dichloropropane	0.595	0.574	3.5	73	0.00
48	T	tetrachloroethene	0.207	0.239	-15.5	91	-0.01
49	T	trans-1,3-dichloropropene	0.477	0.467	2.1	72	-0.01
50	T	2-hexanone	0.362	0.302	16.6	59	0.00
51	T	dibromochloromethane	0.415	0.394	5.1	69	0.00
52	T	1,2-dibromoethane	0.413	0.421	-1.9	74	-0.01
53	T,P	chlorobenzene	0.822	0.862	-4.9	81	0.00
54	T	1,1,1,2-tetrachloroethane	0.316	0.309	2.2	74	0.00
55	T,C	ethylbenzene	1.187	1.274	-7.3	83	0.00
56	T	m,p-xylene	0.470	0.523	-11.3	85	-0.01
57	T	butyl acrylate	0.985	0.906	8.0	65	0.00
58	T	o-xylene	0.470	0.520	-10.6	84	0.00
59	T	styrene	0.860	0.900	-4.7	78	0.00
60	T	isopropylbenzene	0.958	1.088	-13.6	86	-0.01
61	T	bromobenzene	0.350	0.367	-4.9	79	-0.01
62	T,P	bromoform	0.281	0.301	-7.1	78	-0.01
63	S	4-bromofluorobenzene	0.453	0.477	-5.3	81	-0.01
64	T	1,2,3-trichloropropane	0.381	0.357	6.3	68	0.00
65	T	n-propylbenzene	1.226	1.408	-14.8	89	0.00
66	T	2-chlorotoluene	0.786	0.864	-9.9	85	0.00
67	T	4-chlorotoluene	0.869	0.946	-8.9	83	0.00
68	T	1,3,5-trimethylbenzene	0.831	0.946	-13.8	86	-0.01
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
70	T,P	1,1,2,2-tetrachloroethane	1.168	1.087	6.9	71	-0.01
71	T	tert-butylbenzene	1.595	1.722	-8.0	85	-0.01
72	T	sec-butylbenzene	2.257	2.605	-15.4	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
73	T	1,2,4-trimethylbenzene	2.073	2.225	-7.3	85	0.00
74	T	1,3-dichlorobenzene	1.239	1.292	-4.3	81	0.00
75	T	p-isopropyltoluene	1.829	2.054	-12.3	89	0.00
76	T	dicyclopentadiene	2.957	3.176	-7.4	87	0.00
77	T	1,4-dichlorobenzene	1.280	1.319	-3.0	81	0.00
78	T	1,2-dichlorobenzene	1.204	1.255	-4.2	80	0.00
79	T	n-butylbenzene	1.520	1.833	-20.6#	97	0.00
80	T	1,2-dibromo-3-chloropropane	0.158	0.153	3.2	71	0.05
81	T	1,2,4-trichlorobenzene	0.522	0.661	-26.6#	101	0.10
82	T	hexachlorobutadiene	0.221	0.286	-29.4#	109	0.11
83	T	naphthalene	1.623	1.832	-12.9	86	0.11
84	T	1,2,3-trichlorobenzene	0.467	0.590	-26.3#	100	0.14
85	T	2-Methylnaphthalene	0.494	0.494	0.0	80	0.21

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1685944	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	1224904	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	556563	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	533851	49.57 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	512534	49.72 ug/L	-0.01
44) toluene-d8	8.99	98	1468676	50.35 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	584830	52.72 ug/L	-0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	249689	49.27 ug/L	99
3) chloromethane	1.68	50	392086	47.21 ug/L	99
4) vinyl chloride	1.79	62	426926	54.48 ug/L	99
5) 1,3-butadiene	1.84	39	370780	56.00 ug/L	92
6) bromomethane	2.13	94	80070	32.85 ug/L	93
7) chloroethane	2.26	64	188947	49.55 ug/L	93
8) trichlorofluoromethane	2.56	101	401621	58.71 ug/L	98
9) acrolein	3.03	56	257592	350.41 ug/L	99
10) 1,1-dichloroethene	3.15	96	236786	61.36 ug/L #	83
11) acetone	3.22	43	151262	41.06 ug/L	99
12) carbon disulfide	3.38	76	742159	64.58 ug/L	98
13) methylene chloride	3.71	84	462632	50.53 ug/L	97
14) acrylonitrile	3.99	53	2478733	456.77 ug/L	98
15) trans-1,2-dichloroethene	4.04	96	395541	58.24 ug/L	93
16) methyl-t-butyl ether	4.04	73	1039631	44.64 ug/L	97
17) acetonitrile	3.52	41	758095	483.26 ug/L	98
18) hexane	4.37	57	481699	54.08 ug/L #	97
19) 1,1-dichloroethane	4.53	63	712637	50.05 ug/L	97
20) vinyl acetate	4.61	43	618326	44.46 ug/L	99
21) cis-1,2-dichloroethene	5.26	96	460380	52.56 ug/L	89
22) 2,2-dichloropropane	5.24	77	503560	55.46 ug/L	97
23) 2-butanone	5.28	72	57878	43.66 ug/L	81
24) methyl acrylate	5.41	55	561507	44.74 ug/L	95
25) chloroform	5.68	83	664677	50.66 ug/L	97
27) 1,1,1-trichloroethane	5.89	97	485996	56.01 ug/L	97
28) cyclohexane	5.96	56	632208	53.87 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.11	117	437065	56.09 ug/L	93
31) benzene	6.38	78	1436098	48.66 ug/L	99
32) 1,1-dichloropropene	6.11	75	477639	51.40 ug/L	98
33) 1,2-dichloroethane	6.40	62	603773	50.69 ug/L	97
34) trichloroethene	7.26	95	372644	51.68 ug/L	95
35) ethyl acrylate	7.42	55	767190	44.56 ug/L	99
36) 1,2-dichloropropane	7.56	63	438788	46.31 ug/L	95
37) methyl methacrylate	7.74	41	493658	45.56 ug/L	94
38) dibromomethane	7.73	93	328650	51.26 ug/L	97
39) bromodichloromethane	7.97	83	546040	48.74 ug/L	98
40) 2-chloroethyl vinyl ether	8.41	63	180321	90.98 ug/L	97
42) cis-1,3-dichloropropene	8.62	75	667282	48.08 ug/L	97
43) 4-methyl-2-pentanone	8.84	43	550364	42.66 ug/L	98
45) toluene	9.10	92	887177	52.84 ug/L	94
46) 1,1,2-trichloroethane	9.73	83	348889	48.92 ug/L	97
47) 1,3-dichloropropane	9.99	76	702761	48.25 ug/L	100
48) tetrachloroethene	9.95	164	293040	57.85 ug/L	96
49) trans-1,3-dichloropropene	9.46	75	572271	48.92 ug/L	98
50) 2-hexanone	10.13	43	370389	41.73 ug/L	99
51) dibromochloromethane	10.35	129	482506	47.49 ug/L	95
52) 1,2-dibromoethane	10.50	107	515207	50.89 ug/L	100
53) chlorobenzene	11.31	112	1055942	52.42 ug/L	97
54) 1,1,1,2-tetrachloroethane	11.45	131	378889	49.02 ug/L	99
55) ethylbenzene	11.49	91	1560970	53.66 ug/L	99
56) m,p-xylene	11.69	106	1281724	111.27 ug/L	98
57) butyl acrylate	12.34	55	1109875	45.98 ug/L	94
58) o-xylene	12.35	106	637252	55.29 ug/L	97
59) styrene	12.38	104	1102587	52.32 ug/L	96
60) isopropylbenzene	12.98	105	1333043	56.80 ug/L	96
61) bromobenzene	13.48	156	450072	52.50 ug/L	93
62) bromoform	12.68	173	369175	53.66 ug/L	97
64) 1,2,3-trichloropropane	13.58	75	437589	46.90 ug/L	96
65) n-propylbenzene	13.70	91	1724230	57.42 ug/L	100
66) 2-chlorotoluene	13.84	91	1058847	54.97 ug/L	95
67) 4-chlorotoluene	14.02	91	1158998	54.47 ug/L	98
68) 1,3,5-trimethylbenzene	14.01	105	1158280	56.87 ug/L	94
70) 1,1,2,2-tetrachloroethane	13.53	83	604929	46.51 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

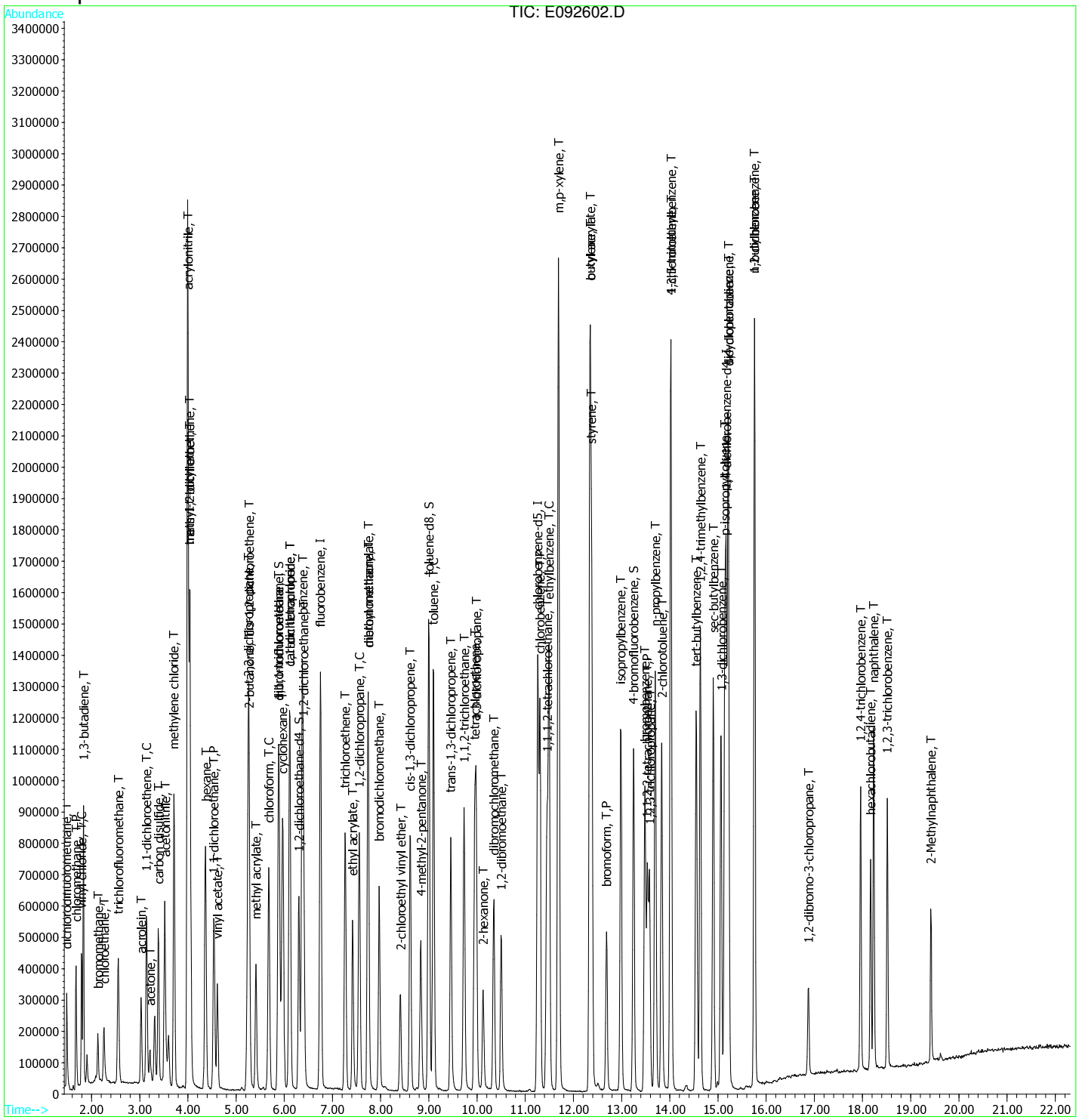
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	958144	53.95 ug/L	92
72)	sec-butylbenzene	14.90	105	1449708	57.71 ug/L	98
73)	1,2,4-trimethylbenzene	14.63	105	1238233	53.66 ug/L	98
74)	1,3-dichlorobenzene	15.07	146	718984	52.14 ug/L	99
75)	p-isopropyltoluene	15.14	119	1143233	56.16 ug/L	97
76)	dicyclopentadiene	15.22	66	1767609	53.70 ug/L	97
77)	1,4-dichlorobenzene	15.20	146	733876	51.50 ug/L	98
78)	1,2-dichlorobenzene	15.76	146	698686	52.15 ug/L	98
79)	n-butylbenzene	15.76	91	1019924	60.26 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.87	75	84954	48.21 ug/L	96
81)	1,2,4-trichlorobenzene	17.96	180	367615	63.32 ug/L	99
82)	hexachlorobutadiene	18.17	225	159080	64.81 ug/L	94
83)	naphthalene	18.23	128	1019575	56.42 ug/L	100
84)	1,2,3-trichlorobenzene	18.51	180	328547	63.20 ug/L	95
85)	2-Methylnaphthalene	19.42	142	275162	50.06 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092602.D Vial: 2
Acq On : 26 Sep 2008 6:22 am Operator: NLT
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 6:45 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	65	-0.01
2	T	dichlorodifluoromethane	0.150	0.130	13.3	56	-0.02
3	T,P	chloromethane	0.246	0.226	8.1	62	-0.01
4	T,C	vinyl chloride	0.232	0.256	-10.3	73	-0.02
5	T	1,3-butadiene	0.196	0.201	-2.6	68	-0.02
6	T	bromomethane	0.072	0.061	15.3	94	-0.02
7	T	chloroethane	0.113	0.121	-7.1	75	-0.02
8	T	trichlorofluoromethane	0.203	0.267	-31.5#	85	-0.01
9	T	acrolein	0.022	0.015	31.8#	43#	-0.02
10	T,C	1,1-dichloroethene	0.114	0.132	-15.8	77	-0.02
11	T	acetone	0.109	0.101	7.3	58	-0.01
12	T	carbon disulfide	0.341	0.408	-19.6	79	-0.02
13	T	methylene chloride	0.272	0.263	3.3	63	-0.02
14	T	acrylonitrile	0.161	0.148	8.1	55	-0.01
15	T	trans-1,2-dichloroethene	0.201	0.226	-12.4	72	-0.01
16	T	methyl-t-butyl ether	0.691	0.597	13.6	53	-0.02
17	T	acetonitrile	0.047	0.047	0.0	63	-0.01
18	T	hexane	0.264	0.273	-3.4	70	-0.01
19	T,P	1,1-dichloroethane	0.422	0.401	5.0	60	-0.01
20	T	vinyl acetate	0.412	0.350	15.0	52	-0.01
21	T	cis-1,2-dichloroethene	0.260	0.264	-1.5	64	-0.01
22	T	2,2-dichloropropane	0.269	0.304	-13.0	72	-0.01
23	T	2-butanone	0.039	0.033	15.4	51	-0.01
24	T	methyl acrylate	0.372	0.324	12.9	52	-0.01
25	T,C	chloroform	0.389	0.398	-2.3	64	-0.01
26	S	dibromofluoromethane	0.319	0.323	-1.3	63	-0.01
27	T	1,1,1-trichloroethane	0.257	0.298	-16.0	74	-0.01
28	T	cyclohexane	0.348	0.355	-2.0	66	-0.01
29	T	carbon tetrachloride	0.231	0.272	-17.7	76	0.00
30	S	1,2-dichloroethane-d4	0.306	0.323	-5.6	66	-0.01
31	T	benzene	0.875	0.813	7.1	60	-0.01
32	T	1,1-dichloropropene	0.276	0.275	0.4	65	-0.01
33	T	1,2-dichloroethane	0.353	0.372	-5.4	64	-0.01
34	T	trichloroethene	0.214	0.225	-5.1	69	-0.01
35	T	ethyl acrylate	0.511	0.456	10.8	53	-0.01
36	T,C	1,2-dichloropropane	0.281	0.233	17.1	52	-0.01
37	T	methyl methacrylate	0.321	0.298	7.2	56	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	dibromomethane	0.190	0.185	2.6	59	-0.01
39	T	bromodichloromethane	0.332	0.329	0.9	60	-0.01
40	T	2-chloroethyl vinyl ether	0.059	0.095	-61.0#	101	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	60	-0.01
42	T	cis-1,3-dichloropropene	0.567	0.535	5.6	56	0.00
43	T	4-methyl-2-pentanone	0.527	0.451	14.4	48#	0.00
44	S	toluene-d8	1.191	1.255	-5.4	63	0.00
45	T,C	toluene	0.685	0.727	-6.1	64	0.00
46	T	1,1,2-trichloroethane	0.291	0.288	1.0	56	0.00
47	T	1,3-dichloropropane	0.595	0.575	3.4	56	0.00
48	T	tetrachloroethene	0.207	0.240	-15.9	71	0.00
49	T	trans-1,3-dichloropropene	0.477	0.479	-0.4	57	-0.01
50	T	2-hexanone	0.362	0.307	15.2	47#	0.00
51	T	dibromochloromethane	0.415	0.397	4.3	54	0.00
52	T	1,2-dibromoethane	0.413	0.418	-1.2	57	-0.01
53	T,P	chlorobenzene	0.822	0.846	-2.9	61	0.00
54	T	1,1,1,2-tetrachloroethane	0.316	0.310	1.9	57	0.00
55	T,C	ethylbenzene	1.187	1.323	-11.5	67	0.00
56	T	m,p-xylene	0.470	0.528	-12.3	66	-0.01
57	T	butyl acrylate	0.985	0.928	5.8	52	0.00
58	T	o-xylene	0.470	0.530	-12.8	66	0.00
59	T	styrene	0.860	0.937	-9.0	63	0.00
60	T	isopropylbenzene	0.958	1.146	-19.6	70	0.00
61	T	bromobenzene	0.350	0.365	-4.3	60	0.00
62	T,P	bromoform	0.281	0.306	-8.9	61	-0.01
63	S	4-bromofluorobenzene	0.453	0.502	-10.8	66	-0.01
64	T	1,2,3-trichloropropane	0.381	0.375	1.6	55	0.00
65	T	n-propylbenzene	1.226	1.499	-22.3#	73	0.00
66	T	2-chlorotoluene	0.786	0.929	-18.2	71	0.00
67	T	4-chlorotoluene	0.869	1.041	-19.8	70	0.00
68	T	1,3,5-trimethylbenzene	0.831	1.026	-23.5#	72	0.00
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	64	0.00
70	T,P	1,1,2,2-tetrachloroethane	1.168	1.072	8.2	56	0.00
71	T	tert-butylbenzene	1.595	1.728	-8.3	69	0.00
72	T	sec-butylbenzene	2.257	2.655	-17.6	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
73	T	1,2,4-trimethylbenzene	2.073	2.237	-7.9	69	0.00
74	T	1,3-dichlorobenzene	1.239	1.271	-2.6	64	0.00
75	T	p-isopropyltoluene	1.829	2.020	-10.4	70	0.00
76	T	dicyclopentadiene	2.957	3.142	-6.3	69	0.00
77	T	1,4-dichlorobenzene	1.280	1.273	0.5	63	0.00
78	T	1,2-dichlorobenzene	1.204	1.226	-1.8	63	0.00
79	T	n-butylbenzene	1.520	1.865	-22.7#	80	0.00
80	T	1,2-dibromo-3-chloropropane	0.158	0.170	-7.6	64	0.03
81	T	1,2,4-trichlorobenzene	0.522	0.645	-23.6#	79	0.09
82	T	hexachlorobutadiene	0.221	0.293	-32.6#	89	0.10
83	T	naphthalene	1.623	1.805	-11.2	68	0.10
84	T	1,2,3-trichlorobenzene	0.467	0.593	-27.0#	80	0.13
85	T	2-Methylnaphthalene	0.494	0.482	2.4	62	0.20

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1347132	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	947954	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.16	152	446988	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	434622	50.51 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	435620	52.89 ug/L	-0.01
44) toluene-d8	9.00	98	1190113	52.72 ug/L	0.00
63) 4-bromofluorobenzene	13.24	95	475876	55.43 ug/L	-0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	175527	43.35 ug/L	99
3) chloromethane	1.68	50	304120	45.82 ug/L	96
4) vinyl chloride	1.79	62	344684	55.05 ug/L	96
5) 1,3-butadiene	1.83	39	271447	51.31 ug/L	99
6) bromomethane	2.13	94	82471	42.35 ug/L	94
7) chloroethane	2.25	64	162438	53.32 ug/L	95
8) trichlorofluoromethane	2.56	101	359913	65.84 ug/L	96
9) acrolein	3.03	56	208733	355.36 ug/L	95
10) 1,1-dichloroethene	3.14	96	177881	57.69 ug/L	90
11) acetone	3.21	43	135611	46.07 ug/L	89
12) carbon disulfide	3.38	76	549402	59.83 ug/L	99
13) methylene chloride	3.71	84	354962	48.52 ug/L	99
14) acrylonitrile	3.99	53	1992897	459.61 ug/L	97
15) trans-1,2-dichloroethene	4.04	96	304189	56.05 ug/L #	88
16) methyl-t-butyl ether	4.04	73	804883	43.25 ug/L	100
17) acetonitrile	3.52	41	632447	504.56 ug/L	98
18) hexane	4.37	57	368223	51.74 ug/L #	98
19) 1,1-dichloroethane	4.54	63	539800	47.44 ug/L	95
20) vinyl acetate	4.61	43	471737	42.45 ug/L	100
21) cis-1,2-dichloroethene	5.26	96	356164	50.89 ug/L	97
22) 2,2-dichloropropane	5.25	77	409824	56.49 ug/L	98
23) 2-butanone	5.28	72	44063	41.60 ug/L	84
24) methyl acrylate	5.41	55	435836	43.46 ug/L	98
25) chloroform	5.68	83	536652	51.19 ug/L	94
27) 1,1,1-trichloroethane	5.89	97	401083	57.85 ug/L	99
28) cyclohexane	5.96	56	477577	50.93 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) carbon tetrachloride	6.12	117	365975	58.78 ug/L	94
31) benzene	6.37	78	1095082	46.44 ug/L	97
32) 1,1-dichloropropene	6.11	75	370247	49.87 ug/L	97
33) 1,2-dichloroethane	6.40	62	501412	52.68 ug/L	99
34) trichloroethene	7.26	95	303320	52.65 ug/L	88
35) ethyl acrylate	7.42	55	614491	44.67 ug/L	97
36) 1,2-dichloropropane	7.56	63	313580	41.42 ug/L	97
37) methyl methacrylate	7.74	41	401800	46.41 ug/L	93
38) dibromomethane	7.73	93	249740	48.75 ug/L	96
39) bromodichloromethane	7.97	83	442767	49.46 ug/L	97
40) 2-chloroethyl vinyl ether	8.41	63	128578	81.19 ug/L	96
42) cis-1,3-dichloropropene	8.62	75	506914	47.20 ug/L	95
43) 4-methyl-2-pentanone	8.84	43	427259	42.79 ug/L	98
45) toluene	9.10	92	689390	53.06 ug/L	100
46) 1,1,2-trichloroethane	9.73	83	273025	49.46 ug/L	93
47) 1,3-dichloropropane	9.99	76	544847	48.33 ug/L	96
48) tetrachloroethene	9.96	164	227399	58.01 ug/L	95
49) trans-1,3-dichloropropene	9.46	75	453611	50.11 ug/L	96
50) 2-hexanone	10.12	43	290621	42.30 ug/L	95
51) dibromochloromethane	10.35	129	376779	47.92 ug/L	95
52) 1,2-dibromoethane	10.50	107	396131	50.55 ug/L #	97
53) chlorobenzene	11.31	112	802183	51.46 ug/L	98
54) 1,1,1,2-tetrachloroethane	11.45	131	293721	49.10 ug/L	99
55) ethylbenzene	11.49	91	1254053	55.70 ug/L	100
56) m,p-xylene	11.69	106	1001737	112.37 ug/L	94
57) butyl acrylate	12.34	55	879614	47.09 ug/L	98
58) o-xylene	12.35	106	502849	56.38 ug/L	94
59) styrene	12.38	104	888164	54.46 ug/L	98
60) isopropylbenzene	12.99	105	1086537	59.82 ug/L	97
61) bromobenzene	13.49	156	346099	52.17 ug/L	96
62) bromoform	12.68	173	290115	54.49 ug/L	97
64) 1,2,3-trichloropropane	13.58	75	355453	49.23 ug/L	98
65) n-propylbenzene	13.70	91	1421041	61.15 ug/L	96
66) 2-chlorotoluene	13.84	91	881028	59.10 ug/L	92
67) 4-chlorotoluene	14.02	91	986650	59.92 ug/L	94
68) 1,3,5-trimethylbenzene	14.02	105	972376	61.69 ug/L	91
70) 1,1,2,2-tetrachloroethane	13.54	83	479094	45.86 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

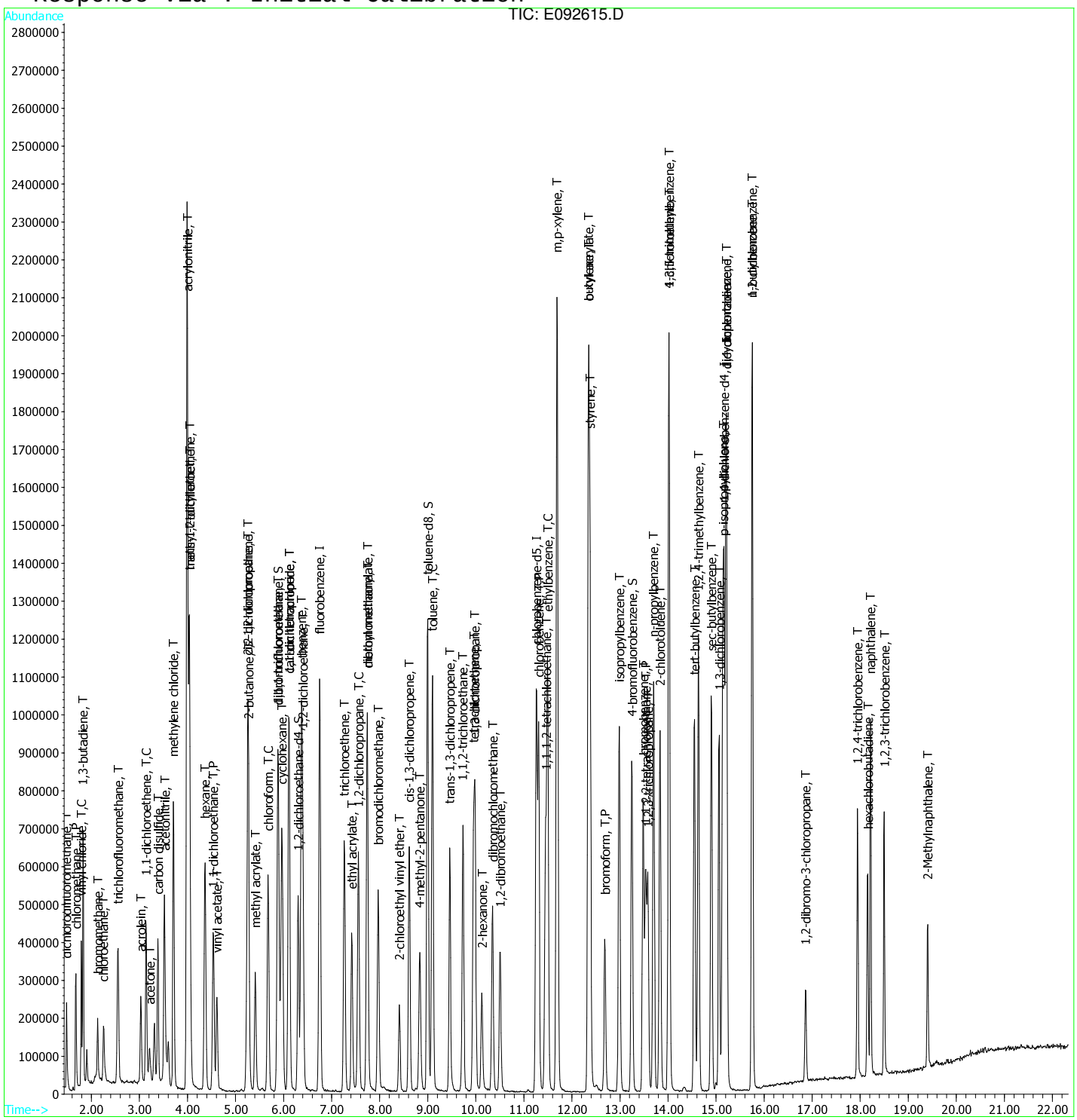
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	tert-butylbenzene	14.55	119	772552	54.17 ug/L	91
72)	sec-butylbenzene	14.90	105	1186654	58.82 ug/L	97
73)	1,2,4-trimethylbenzene	14.63	105	1000073	53.96 ug/L	94
74)	1,3-dichlorobenzene	15.07	146	568119	51.30 ug/L	98
75)	p-isopropyltoluene	15.13	119	903090	55.24 ug/L	96
76)	dicyclopentadiene	15.21	66	1404544	53.13 ug/L	98
77)	1,4-dichlorobenzene	15.20	146	569011	49.72 ug/L	98
78)	1,2-dichlorobenzene	15.76	146	547946	50.93 ug/L	99
79)	n-butylbenzene	15.76	91	833671	61.33 ug/L	98
80)	1,2-dibromo-3-chloropropan	16.86	75	75976	53.69 ug/L	91
81)	1,2,4-trichlorobenzene	17.95	180	288214	61.81 ug/L	96
82)	hexachlorobutadiene	18.16	225	131084	66.49 ug/L	96
83)	naphthalene	18.22	128	806644	55.58 ug/L	100
84)	1,2,3-trichlorobenzene	18.50	180	265084	63.49 ug/L	95
85)	2-Methylnaphthalene	19.41	142	215285	48.76 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092615.D Vial: 15
Acq On : 26 Sep 2008 2:50 pm Operator: BR
Sample : ,CCV,CCV W 50 PPB,1, Inst : VOA5
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 15:13 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100308\A100316.D Vial: 16
Acq On : 3 Oct 2008 3:52 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 16:14:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	116	0.00
2	T	dichlorodifluoromethane	0.154	0.149	3.2	114	0.00
3	T,P	chloromethane	0.228	0.239	-4.8	129	0.00
4	T,C	vinyl chloride	0.243	0.247	-1.6	117	0.00
5	T	1,3-butadiene	0.282	0.235	16.7	96	0.00
6	T	bromomethane	0.097	0.081	16.5	112	0.00
7	T	chloroethane	0.142	0.129	9.2	108	0.02
8	T	trichlorofluoromethane	0.445	0.415	6.7	103	0.01
9	T	acrolein	0.016	0.016	0.0	118	0.00
10	T,C	1,1-dichloroethene	0.232	0.225	3.0	110	0.00
11	T	acetone	0.117	0.112	4.3	117	0.00
12	T	carbon disulfide	0.716	0.706	1.4	112	0.00
13	T	methylene chloride	0.332	0.328	1.2	121	0.00
14	T	acrylonitrile	0.130	0.124	4.6	116	0.00
15	T	trans-1,2-dichloroethene	0.261	0.254	2.7	111	0.00
16	T	methyl-t-butyl ether	0.840	0.808	3.8	111	0.00
17	T	acetonitrile	0.052	0.049	5.8	121	0.00
18	T	hexane	0.301	0.262	13.0	98	0.01
19	T,P	1,1-dichloroethane	0.529	0.503	4.9	112	0.00
20	T	vinyl acetate	0.354	0.353	0.3	111	0.00
21	T	cis-1,2-dichloroethene	0.300	0.290	3.3	111	0.00
22	T	2,2-dichloropropane	0.421	0.403	4.3	106	0.00
23	T	2-butanone	0.032	0.033	-3.1	126	0.00
24	T	methyl acrylate	0.265	0.268	-1.1	115	0.00
25	T,C	chloroform	0.529	0.499	5.7	111	0.00
26	S	dibromofluoromethane	0.308	0.301	2.3	114	0.00
27	T	1,1,1-trichloroethane	0.439	0.414	5.7	107	0.00
28	T	cyclohexane	0.395	0.343	13.2	95	0.00
29	T	carbon tetrachloride	0.390	0.375	3.8	108	0.00
30	S	1,2-dichloroethane-d4	0.380	0.363	4.5	112	0.00
31	T	benzene	1.060	1.016	4.2	111	0.00
32	T	1,1-dichloropropene	0.360	0.353	1.9	111	0.00
33	T	1,2-dichloroethane	0.505	0.456	9.7	106	0.00
34	T	trichloroethene	0.271	0.260	4.1	108	0.00
35	T	ethyl acrylate	0.363	0.362	0.3	117	0.00
36	T,C	1,2-dichloropropane	0.315	0.297	5.7	110	0.00
37	T	methyl methacrylate	0.304	0.296	2.6	116	0.00
38	T	dibromomethane	0.206	0.199	3.4	113	0.00
39	T	bromodichloromethane	0.431	0.407	5.6	110	0.00
40	T	2-chloroethyl vinyl ether	0.139	0.137	1.4	113	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	118	0.00
42	T	cis-1,3-dichloropropene	0.558	0.530	5.0	108	0.00
43	T	4-methyl-2-pentanone	0.383	0.371	3.1	111	0.00
44	S	toluene-d8	1.261	1.245	1.3	116	0.00
45	T,C	toluene	0.767	0.739	3.7	113	0.00
46	T	1,1,2-trichloroethane	0.294	0.277	5.8	113	0.00
47	T	1,3-dichloropropane	0.602	0.561	6.8	110	0.00
48	T	tetrachloroethene	0.278	0.279	-0.4	115	0.00
49	T	trans-1,3-dichloropropene	0.485	0.456	6.0	107	0.00
50	T	2-hexanone	0.234	0.224	4.3	111	0.00

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100308\A100316.D Vial: 16
Acq On : 3 Oct 2008 3:52 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 16:14:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	dibromochloromethane	0.393	0.378	3.8	114	0.00
52	T	1,2-dibromoethane	0.354	0.332	6.2	107	0.00
53	T,P	chlorobenzene	0.858	0.836	2.6	115	0.00
54	T	1,1,1,2-tetrachloroethane	0.355	0.336	5.4	109	0.00
55	T,C	ethylbenzene	1.312	1.317	-0.4	112	0.00
56	T	m,p-xylene	0.498	0.513	-3.0	114	0.00
57	T	butyl acrylate	0.577	0.562	2.6	109	0.00
58	T	o-xylene	0.491	0.507	-3.3	112	0.00
59	T	styrene	0.819	0.831	-1.5	110	0.00
60	T	isopropylbenzene	0.978	1.052	-7.6	113	0.00
61	T	bromobenzene	0.392	0.389	0.8	112	0.00
62	T,P	bromoform	0.295	0.286	3.1	111	0.00
63	S	4-bromofluorobenzene	0.465	0.465	0.0	114	0.00
64	T	1,2,3-trichloropropane	0.380	0.351	7.6	109	0.00
65	T	n-propylbenzene	1.299	1.375	-5.9	111	0.00
66	T	2-chlorotoluene	0.864	0.984	-13.9	125	0.19
67	T	4-chlorotoluene	0.957	0.984	-2.8	112	0.00
68	T	1,3,5-trimethylbenzene	0.877	0.936	-6.7	112	0.00
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
70	T,P	1,1,2,2-tetrachloroethane	0.806	0.779	3.3	113	0.00
71	T	tert-butylbenzene	1.307	1.483	-13.5	112	0.00
72	T	sec-butylbenzene	1.863	2.086	-12.0	110	0.00
73	T	1,2,4-trimethylbenzene	1.711	1.867	-9.1	111	0.00
74	T	1,3-dichlorobenzene	1.118	1.189	-6.4	114	0.00
75	T	p-isopropyltoluene	1.485	1.713	-15.4	110	0.00
76	T	dicyclopentadiene	2.300	2.248	2.3	106	0.00
77	T	1,4-dichlorobenzene	1.196	1.201	-0.4	113	0.00
78	T	1,2-dichlorobenzene	1.113	1.158	-4.0	111	0.00
79	T	n-butylbenzene	1.256	1.465	-16.6	112	0.00
80	T	1,2-dibromo-3-chloropropane	0.122	0.120	1.6	111	0.00
81	T	1,2,4-trichlorobenzene	0.432	0.549	-27.1#	122	0.00
82	T	hexachlorobutadiene	0.271	0.329	-21.4#	120	0.00
83	T	naphthalene	0.796	0.862	-8.3	117	0.00
84	T	1,2,3-trichlorobenzene	0.383	0.483	-26.1#	121	0.00
85	T	2-methylnaphthalene	0.136	0.126	7.4	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100316.D Vial: 16
Acq On : 3 Oct 2008 3:52 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 16:20:05 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.000	96	575564	50.00	ug/L	0.00
41) chlorobenzene-d5	11.537	117	478644	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	250096	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	173305	48.90	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	208690	47.76	ug/L	0.00
44) toluene-d8	9.250	98	596024	49.38	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	222582	50.03	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.509	85	85777	48.46	ug/L	99
3) chloromethane	1.722	50	137809	52.59	ug/L	99
4) vinyl chloride	1.843	62	141917	50.66	ug/L	94
5) 1,3-butadiene	1.880	39	135250	41.74	ug/L	96
6) bromomethane	2.220	94	46390	41.39	ug/L	93
7) chloroethane	2.354	64	74433	45.63	ug/L	96
8) trichlorofluoromethane	2.646	101	238871	46.62	ug/L	98
9) acrolein	3.211	56	89627	487.19	ug/L	96
10) 1,1-dichloroethene	3.278	96	129306	48.51	ug/L #	81
11) acetone	3.406	43	64539	47.83	ug/L	89
12) carbon disulfide	3.534	76	406569	49.32	ug/L	98
13) methylene chloride	3.911	84	188924	49.39	ug/L	89
14) acrylonitrile	4.245	53	711056	474.07	ug/L	93
15) trans-1,2-dichloroethene	4.221	96	146384	48.76	ug/L	93
16) methyl-t-butyl ether	4.209	73	465049	48.10	ug/L	89
17) acetonitrile	3.765	41	282767	471.57	ug/L	94
18) hexane	4.513	57	150566	43.49	ug/L #	98
19) 1,1-dichloroethane	4.756	63	289269	47.47	ug/L	97
20) vinyl acetate	4.835	43	202923	49.83	ug/L	96
21) cis-1,2-dichloroethene	5.504	96	167155	48.43	ug/L #	86
22) 2,2-dichloropropane	5.468	77	231729	47.84	ug/L #	86
23) 2-butanone	5.553	72	18963	51.49	ug/L #	42
24) methyl acrylate	5.650	55	154017	50.40	ug/L #	97
25) chloroform	5.936	83	286986	47.10	ug/L	95
27) 1,1,1-trichloroethane	6.112	97	238366	47.13	ug/L	99
28) cyclohexane	6.149	56	197629	43.51	ug/L	93
29) carbon tetrachloride	6.319	117	215855	48.04	ug/L	96
31) benzene	6.611	78	584506	47.91	ug/L	99
32) 1,1-dichloropropene	6.331	75	203045	49.05	ug/L #	93
33) 1,2-dichloroethane	6.684	62	262335	45.11	ug/L	96
34) trichloroethene	7.499	95	149912	48.02	ug/L #	77
35) ethyl acrylate	7.681	55	208626	49.98	ug/L	98
36) 1,2-dichloropropane	7.833	63	170890	47.10	ug/L	94
37) methyl methacrylate	8.004	41	170536	48.78	ug/L	88
38) dibromomethane	8.028	93	114644	48.41	ug/L #	86
39) bromodichloromethane	8.259	83	234146	47.19	ug/L	96
40) 2-chloroethyl vinyl ether	8.691	63	78595	48.97	ug/L	97
42) cis-1,3-dichloropropene	8.898	75	253667	47.52	ug/L	91
43) 4-methyl-2-pentanone	9.123	43	177671	48.43	ug/L	96
45) toluene	9.348	92	353539	48.12	ug/L	96
46) 1,1,2-trichloroethane	10.047	83	132820	47.23	ug/L	96
47) 1,3-dichloropropane	10.296	76	268552	46.60	ug/L	99
48) tetrachloroethene	10.181	164	133654	50.27	ug/L	93

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100316.D Vial: 16
Acq On : 3 Oct 2008 3:52 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 16:20:05 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

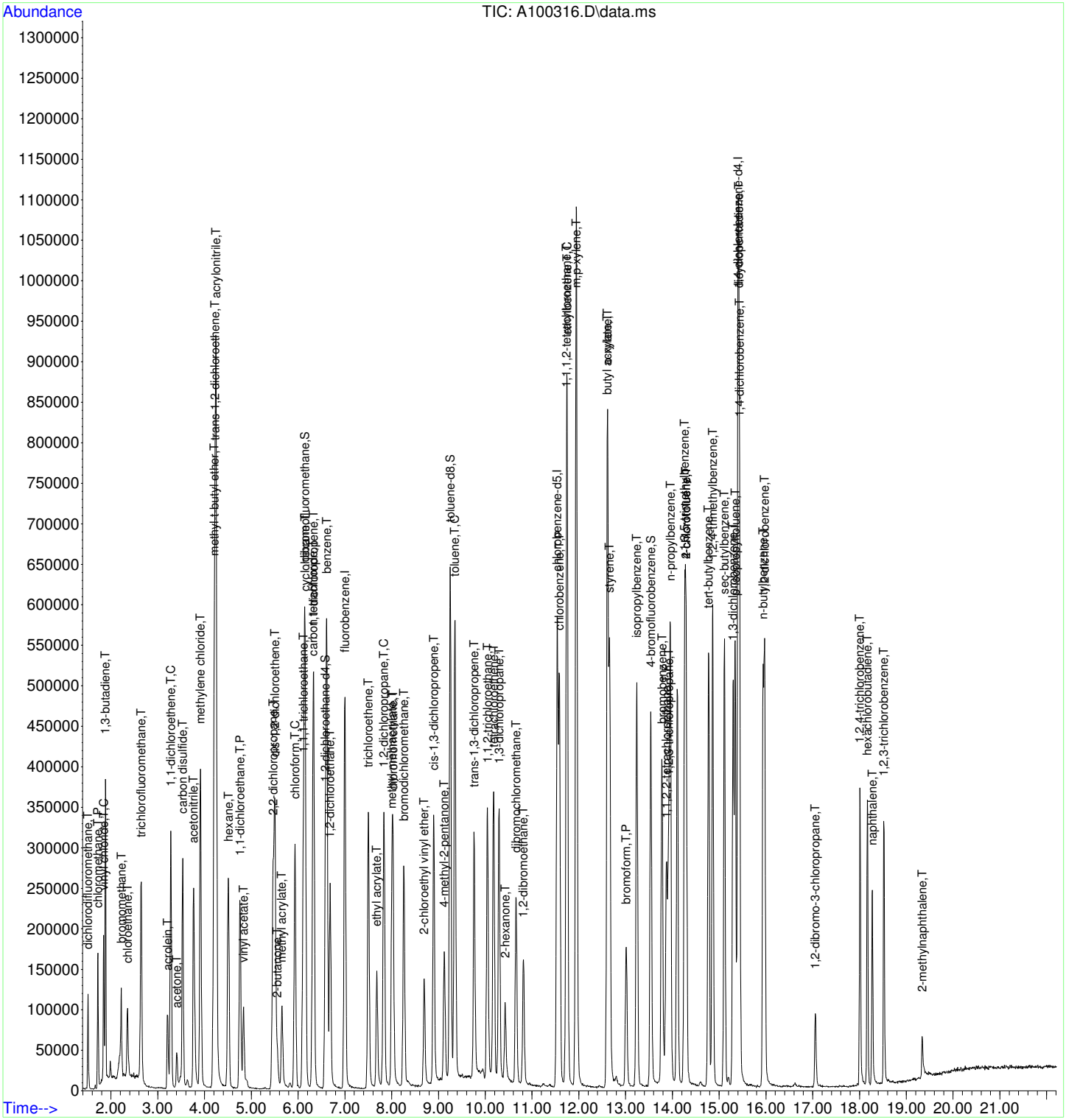
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	trans-1,3-dichloropropene	9.761	75	218257	47.06	ug/L		94
50)	2-hexanone	10.424	43	107344	47.95	ug/L		97
51)	dibromochloromethane	10.655	129	180941	48.10	ug/L		93
52)	1,2-dibromoethane	10.813	107	158845	46.90	ug/L		97
53)	chlorobenzene	11.585	112	400009	48.73	ug/L	#	83
54)	1,1,1,2-tetrachloroethane	11.737	131	160831	47.27	ug/L		96
55)	ethylbenzene	11.750	91	630205	50.17	ug/L		91
56)	m,p-xylene	11.944	106	490910	102.88	ug/L	#	77
57)	butyl acrylate	12.607	55	268998	48.69	ug/L		93
58)	o-xylene	12.613	106	242591	51.66	ug/L	#	80
59)	styrene	12.656	104	397516	50.68	ug/L		86
60)	isopropylbenzene	13.240	105	503443	53.76	ug/L		91
61)	bromobenzene	13.781	156	186113	49.64	ug/L	#	70
62)	bromoform	13.008	173	136690	48.38	ug/L		95
64)	1,2,3-trichloropropane	13.921	75	167978	46.23	ug/L		95
65)	n-propylbenzene	13.957	91	657979	52.93	ug/L	#	91
66)	2-chlorotoluene	14.292	91	470910	56.94	ug/L		90
67)	4-chlorotoluene	14.292	91	470910	51.43	ug/L	#	84
68)	1,3,5-trimethylbenzene	14.261	105	447852	53.36	ug/L	#	85
70)	1,1,2,2-tetrachloroethane	13.872	83	194760	48.30	ug/L		97
71)	tert-butylbenzene	14.772	119	370877	56.71	ug/L	#	81
72)	sec-butylbenzene	15.113	105	521584	55.98	ug/L	#	91
73)	1,2,4-trimethylbenzene	14.863	105	466984	54.56	ug/L	#	86
74)	1,3-dichlorobenzene	15.295	146	297275	53.16	ug/L		91
75)	p-isopropyltoluene	15.344	119	428484	57.69	ug/L		87
76)	dicyclopentadiene	15.417	66	562262	48.87	ug/L		93
77)	1,4-dichlorobenzene	15.435	146	300407	50.23	ug/L		93
78)	1,2-dichlorobenzene	15.970	146	289712	52.05	ug/L		92
79)	n-butylbenzene	15.940	91	366333	58.30	ug/L		96
80)	1,2-dibromo-3-chloropr...	17.053	75	29971	48.95	ug/L	#	74
81)	1,2,4-trichlorobenzene	18.007	180	137182	63.44	ug/L		92
82)	hexachlorobutadiene	18.165	225	82265	60.60	ug/L		90
83)	naphthalene	18.275	128	215653	54.15	ug/L		100
84)	1,2,3-trichlorobenzene	18.518	180	120706	63.07	ug/L		90
85)	2-methylnaphthalene	19.339	142	31553	46.34	ug/L		84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100316.D Vial: 16
Acq On : 3 Oct 2008 3:52 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 16:20:05 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\D100408\D100404.D Vial: 4
Acq On : 4 Oct 2008 9:16 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	80	-0.02
2	T	dichlorodifluoromethane	0.389	0.161	58.6#	30#	0.00
3	T,P	chloromethane	0.226	0.196	13.3	81	0.01
4	T,C	vinyl chloride	0.370	0.319	13.8	74	0.00
5	T	1,3-butadiene	0.397	0.412	-3.8	88	0.00
6	T	bromomethane	0.116	0.103	11.2	89	-0.01
7	T	chloroethane	0.196	0.206	-5.1	71	-0.01
8	T	trichlorofluoromethane	0.466	0.396	15.0	61	-0.01
9	T	acrolein	0.023	0.015	34.8#	54	-0.02
10	T,C	1,1-dichloroethene	0.228	0.242	-6.1	79	-0.01
11	T	acetone	0.170	0.132	22.4#	71	-0.02
12	T	carbon disulfide	0.882	0.839	4.9	74	-0.01
13	T	methylene chloride	0.349	0.344	1.4	93	-0.02
14	T	acrylonitrile	0.114	0.112	1.8	86	-0.02
15	T	trans-1,2-dichloroethene	0.253	0.265	-4.7	79	-0.02
16	T	methyl-t-butyl ether	0.793	0.784	1.1	80	-0.02
17	T	acetonitrile	0.051	0.048	5.9	90	-0.02
18	T	hexane	0.501	0.518	-3.4	82	-0.02
19	T,P	1,1-dichloroethane	0.513	0.517	-0.8	77	-0.02
20	T	vinyl acetate	0.376	0.343	8.8	76	-0.02
21	T	cis-1,2-dichloroethene	0.279	0.298	-6.8	84	-0.02
22	T	2,2-dichloropropane	0.398	0.351	11.8	65	-0.02
23	T	2-butanone	0.033	0.032	3.0	80	-0.02
24	T	methyl acrylate	0.315	0.301	4.4	85	-0.02
25	T,C	chloroform	0.480	0.479	0.2	77	-0.02
26	S	dibromofluoromethane	0.282	0.294	-4.3	83	-0.02
27	T	1,1,1-trichloroethane	0.405	0.386	4.7	72	-0.02
28	T	cyclohexane	0.547	0.550	-0.5	79	-0.02
29	T	carbon tetrachloride	0.302	0.280	7.3	70	-0.01
30	S	1,2-dichloroethane-d4	0.385	0.356	7.5	76	-0.02
31	T	benzene	1.003	0.991	1.2	78	-0.02
32	T	1,1-dichloropropene	0.391	0.382	2.3	75	-0.02
33	T	1,2-dichloroethane	0.473	0.412	12.9	69	-0.02
34	T	trichloroethene	0.262	0.276	-5.3	80	-0.02
35	T	ethyl acrylate	0.485	0.453	6.6	81	-0.02
36	T,C	1,2-dichloropropane	0.279	0.280	-0.4	81	-0.02
37	T	methyl methacrylate	0.376	0.339	9.8	79	-0.02
38	T	dibromomethane	0.172	0.173	-0.6	84	-0.03
39	T	bromodichloromethane	0.382	0.369	3.4	76	-0.03
40	T	2-chloroethyl vinyl ether	0.162	0.130	19.8	65	-0.02
41	I	chlorobenzene-d5	1.000	1.000	0.0	81	-0.02
42	T	cis-1,3-dichloropropene	0.622	0.612	1.6	78	-0.02
43	T	4-methyl-2-pentanone	0.544	0.461	15.3	77	-0.02
44	S	toluene-d8	1.297	1.296	0.1	82	-0.02
45	T,C	toluene	0.907	0.890	1.9	78	-0.02
46	T	1,1,2-trichloroethane	0.278	0.272	2.2	81	-0.03
47	T	1,3-dichloropropane	0.643	0.619	3.7	79	-0.02
48	T	tetrachloroethene	0.275	0.291	-5.8	84	-0.02
49	T	trans-1,3-dichloropropene	0.499	0.469	6.0	76	-0.02
50	T	2-hexanone	0.385	0.324	15.8	76	-0.02
51	T	dibromochloromethane	0.372	0.377	-1.3	83	-0.02
52	T	1,2-dibromoethane	0.362	0.361	0.3	85	-0.02
53	T,P	chlorobenzene	0.939	0.958	-2.0	80	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\D100408\D100404.D Vial: 4
Acq On : 4 Oct 2008 9:16 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	1,1,1,2-tetrachloroethane	0.336	0.345	-2.7	80	-0.02
55	T,C	ethylbenzene	1.736	1.719	1.0	77	-0.02
56	T	m,p-xylene	0.630	0.642	-1.9	79	-0.02
57	T	butyl acrylate	1.112	0.989	11.1	77	-0.02
58	T	o-xylene	0.608	0.626	-3.0	80	-0.02
59	T	styrene	1.074	1.095	-2.0	80	-0.03
60	T	isopropylbenzene	1.465	1.477	-0.8	78	-0.02
61	T	bromobenzene	0.369	0.388	-5.1	84	-0.02
62	T,P	bromoform	0.240	0.257	-7.1	87	-0.03
63	S	4-bromofluorobenzene	0.579	0.553	4.5	77	-0.03
64	T	1,2,3-trichloropropane	0.406	0.366	9.9	82	-0.03
65	T	n-propylbenzene	2.035	2.016	0.9	77	-0.02
66	T	2-chlorotoluene	1.256	1.216	3.2	76	-0.02
67	T	4-chlorotoluene	1.440	1.391	3.4	75	-0.02
68	T	1,3,5-trimethylbenzene	1.363	1.337	1.9	76	-0.02
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	80	-0.02
70	T,P	1,1,2,2-tetrachloroethane	0.976	0.939	3.8	85	-0.02
71	T	tert-butylbenzene	2.383	2.458	-3.1	79	-0.02
72	T	sec-butylbenzene	3.825	3.858	-0.9	77	-0.02
73	T	1,2,4-trimethylbenzene	2.990	2.927	2.1	77	-0.02
74	T	1,3-dichlorobenzene	1.437	1.499	-4.3	82	-0.02
75	T	p-isopropyltoluene	2.982	3.044	-2.1	78	-0.02
76	T	dicyclopentadiene	4.473	4.317	3.5	76	-0.02
77	T	1,4-dichlorobenzene	1.481	1.524	-2.9	82	-0.02
78	T	1,2-dichlorobenzene	1.377	1.433	-4.1	83	-0.02
79	T	n-butylbenzene	3.151	3.134	0.5	76	-0.02
80	T	1,2-dibromo-3-chloropropane	0.218	0.191	12.4	83	-0.02
81	T	1,2,4-trichlorobenzene	1.128	1.200	-6.4	85	-0.02
82	T	hexachlorobutadiene	0.656	0.667	-1.7	82	-0.02
83	T	naphthalene	2.561	2.516	1.8	87	-0.01
84	T	1,2,3-trichlorobenzene	1.058	1.108	-4.7	85	-0.02
85	T	2-methylnaphthalene	1.427	1.485	-4.1	100	-0.02

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100404.D Vial: 4
Acq On : 4 Oct 2008 9:16 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 10:13 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1178800	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	820376	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.83	152	389397	50.00 ug/L	-0.02
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	346275	52.12 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	419461	46.16 ug/L	-0.02
44) toluene-d8	9.31	98	1063415	49.98 ug/L	-0.02
63) 4-bromofluorobenzene	13.87	95	453824	47.76 ug/L	-0.03
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.57	85	189589	20.65 ug/L	92
3) chloromethane	1.85	50	231340	43.37 ug/L	89
4) vinyl chloride	1.87	62	376617	43.21 ug/L	97
5) 1,3-butadiene	1.90	39	485349	51.89 ug/L	99
6) bromomethane	2.22	94	121151	41.36 ug/L	95
7) chloroethane	2.32	64	243209	52.61 ug/L	94
8) trichlorofluoromethane	2.61	101	467121	42.48 ug/L	97
9) acrolein	3.13	56	174852	317.81 ug/L	100
10) 1,1-dichloroethene	3.21	96	284872	53.00 ug/L	95
11) acetone	3.31	43	155452	38.71 ug/L	98
12) carbon disulfide	3.45	76	989402	47.57 ug/L	99
13) methylene chloride	3.82	84	405560	49.24 ug/L	92
14) acrylonitrile	4.15	53	1324535	491.88 ug/L	98
15) trans-1,2-dichloroethene	4.12	96	311932	52.30 ug/L	96
16) methyl-t-butyl ether	4.11	73	924208	49.45 ug/L	97
17) acetonitrile	3.67	41	565874	473.94 ug/L	97
18) hexane	4.42	57	610987	51.70 ug/L #	99
19) 1,1-dichloroethane	4.66	63	609436	50.34 ug/L	98
20) vinyl acetate	4.72	43	404579	45.61 ug/L	95
21) cis-1,2-dichloroethene	5.41	96	351612	53.54 ug/L	90
22) 2,2-dichloropropane	5.38	77	413401	44.11 ug/L	98
23) 2-butanone	5.45	72	37598	47.89 ug/L	82
24) methyl acrylate	5.55	55	354736	47.78 ug/L #	99
25) chloroform	5.86	83	564062	49.79 ug/L	98
27) 1,1,1-trichloroethane	6.04	97	454454	47.58 ug/L	99
28) cyclohexane	6.08	56	648169	50.25 ug/L	94
29) carbon tetrachloride	6.26	117	330322	46.42 ug/L	97
31) benzene	6.56	78	1168245	49.38 ug/L	99
32) 1,1-dichloropropene	6.26	75	450289	48.86 ug/L	97
33) 1,2-dichloroethane	6.63	62	485323	43.57 ug/L	96
34) trichloroethene	7.48	95	325399	52.61 ug/L	99
35) ethyl acrylate	7.65	55	533779	46.73 ug/L	97
36) 1,2-dichloropropane	7.83	63	329603	50.13 ug/L	93
37) methyl methacrylate	7.99	41	399899	45.06 ug/L	96
38) dibromomethane	8.02	93	203400	50.25 ug/L	94
39) bromodichloromethane	8.28	83	435525	48.42 ug/L	98
40) 2-chloroethyl vinyl ether	8.72	63	152790	40.05 ug/L	97
42) cis-1,3-dichloropropene	8.94	75	502351	49.19 ug/L	99
43) 4-methyl-2-pentanone	9.17	43	378085	42.33 ug/L	94
45) toluene	9.41	92	729793	49.06 ug/L	99
46) 1,1,2-trichloroethane	10.16	83	222896	48.81 ug/L	92
47) 1,3-dichloropropane	10.42	76	507670	48.09 ug/L	99
48) tetrachloroethene	10.29	164	238999	52.90 ug/L	98
49) trans-1,3-dichloropropene	9.85	75	384656	46.98 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100404.D Vial: 4
Acq On : 4 Oct 2008 9:16 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 10:13 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

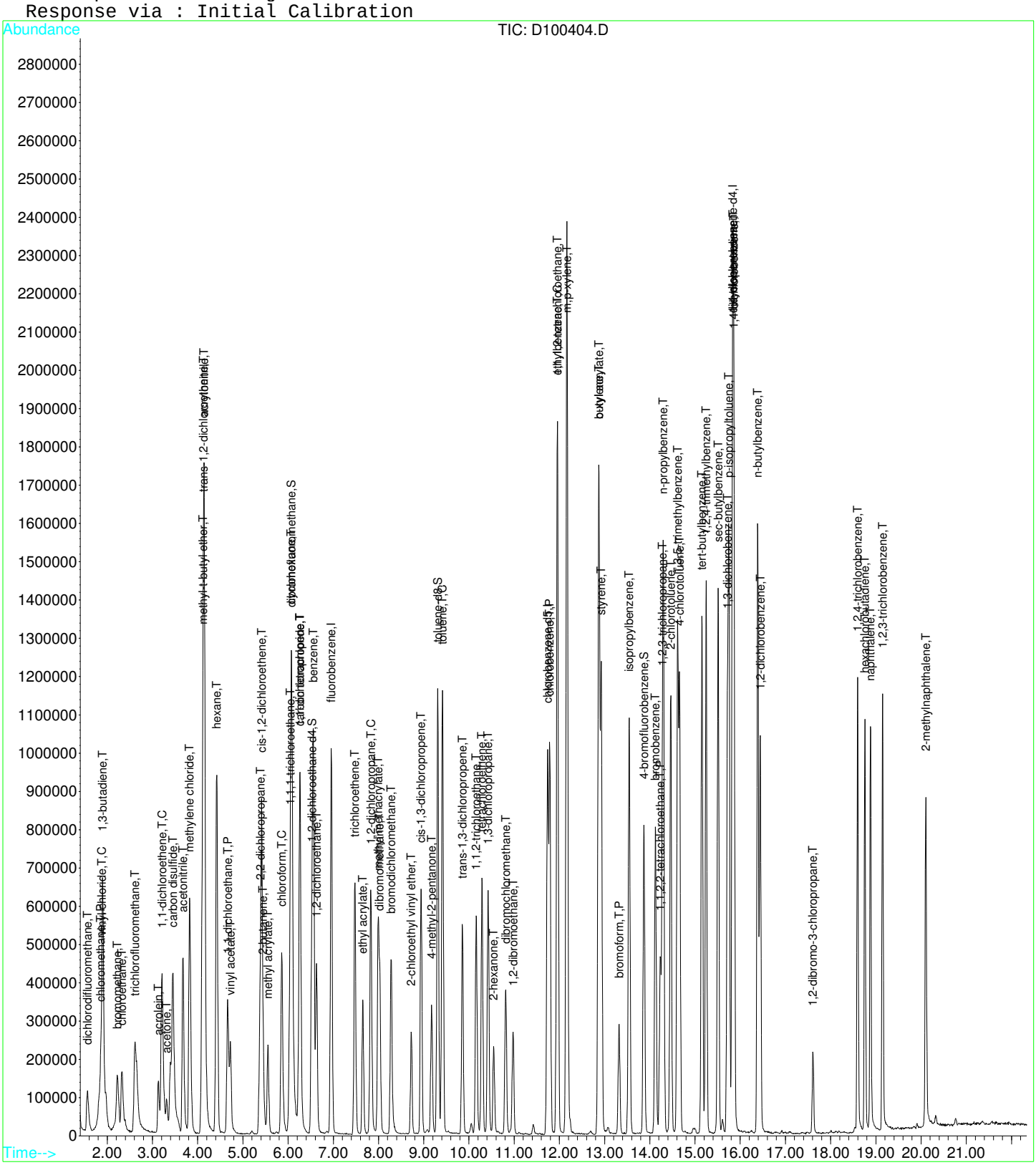
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50)	2-hexanone	10.54	43	266063	42.07 ug/L	96
51)	dibromochloromethane	10.81	129	309400	50.62 ug/L	99
52)	1,2-dibromoethane	10.98	107	295823	49.87 ug/L	100
53)	chlorobenzene	11.79	112	785622	51.00 ug/L	98
54)	1,1,1,2-tetrachloroethane	11.96	131	282890	51.38 ug/L	96
55)	ethylbenzene	11.96	91	1410258	49.52 ug/L	98
56)	m,p-xylene	12.17	106	1054163	102.01 ug/L	98
57)	butyl acrylate	12.86	55	811282	44.47 ug/L	98
58)	o-xylene	12.88	106	513358	51.44 ug/L	92
59)	styrene	12.93	104	898005	50.94 ug/L	97
60)	isopropylbenzene	13.54	105	1212045	50.41 ug/L	98
61)	bromobenzene	14.13	156	318224	52.61 ug/L	94
62)	bromoform	13.32	173	210481	53.35 ug/L	95
64)	1,2,3-trichloropropane	14.27	75	299889	45.02 ug/L	95
65)	n-propylbenzene	14.30	91	1654287	49.55 ug/L	98
66)	2-chlorotoluene	14.46	91	997942	48.43 ug/L	97
67)	4-chlorotoluene	14.66	91	1140962	48.29 ug/L	98
68)	1,3,5-trimethylbenzene	14.61	105	1096473	49.03 ug/L	99
70)	1,1,2,2-tetrachloroethane	14.23	83	365769	48.14 ug/L	99
71)	tert-butylbenzene	15.16	119	956951	51.57 ug/L	99
72)	sec-butylbenzene	15.51	105	1502347	50.44 ug/L	97
73)	1,2,4-trimethylbenzene	15.25	105	1139896	48.96 ug/L	98
74)	1,3-dichlorobenzene	15.72	146	583712	52.16 ug/L	99
75)	p-isopropyltoluene	15.75	119	1185374	51.04 ug/L	99
76)	dicyclopentadiene	15.84	66	1681210	48.27 ug/L	99
77)	1,4-dichlorobenzene	15.87	146	593505	51.46 ug/L	99
78)	1,2-dichlorobenzene	16.44	146	558143	52.06 ug/L	96
79)	n-butylbenzene	16.39	91	1220341	49.72 ug/L	95
80)	1,2-dibromo-3-chloropropan	17.60	75	74300	43.70 ug/L	96
81)	1,2,4-trichlorobenzene	18.60	180	467356	53.18 ug/L	96
82)	hexachlorobutadiene	18.76	225	259665	50.81 ug/L	98
83)	naphthalene	18.88	128	979592	49.12 ug/L	100
84)	1,2,3-trichlorobenzene	19.15	180	431357	52.35 ug/L	98
85)	2-methylnaphthalene	20.11	142	578061	52.02 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100408\D100404.D Vial: 4
Acq On : 4 Oct 2008 9:16 am Operator: BR
Sample : ,CCV,CCV 50 PPB,1, Inst : VOA 4
Misc : 8260_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 10:13 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100608\A100602.D Vial: 2
Acq On : 6 Oct 2008 6:52 am Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 07:18:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	95	0.00
2	T	dichlorodifluoromethane	0.154	0.126	18.2	79	0.00
3	T,P	chloromethane	0.228	0.217	4.8	96	0.00
4	T,C	vinyl chloride	0.243	0.254	-4.5	98	0.00
5	T	1,3-butadiene	0.282	0.336	-19.1	112	0.00
6	T	bromomethane	0.097	0.075	22.7#	85	0.00
7	T	chloroethane	0.142	0.141	0.7	97	0.01
8	T	trichlorofluoromethane	0.445	0.378	15.1	77	0.01
9	T	acrolein	0.016	0.014	12.5	85	0.00
10	T,C	1,1-dichloroethene	0.232	0.206	11.2	82	0.00
11	T	acetone	0.117	0.145	-23.9#	124	0.00
12	T	carbon disulfide	0.716	0.856	-19.6	111	0.00
13	T	methylene chloride	0.332	0.309	6.9	93	0.00
14	T	acrylonitrile	0.130	0.131	-0.8	100	0.00
15	T	trans-1,2-dichloroethene	0.261	0.244	6.5	87	0.00
16	T	methyl-t-butyl ether	0.840	0.791	5.8	89	0.00
17	T	acetonitrile	0.052	0.054	-3.8	110	0.00
18	T	hexane	0.301	0.338	-12.3	103	0.00
19	T,P	1,1-dichloroethane	0.529	0.500	5.5	91	0.00
20	T	vinyl acetate	0.354	0.338	4.5	87	0.00
21	T	cis-1,2-dichloroethene	0.300	0.285	5.0	89	0.00
22	T	2,2-dichloropropane	0.421	0.391	7.1	84	0.00
23	T	2-butanone	0.032	0.032	0.0	99	0.00
24	T	methyl acrylate	0.265	0.285	-7.5	100	0.00
25	T,C	chloroform	0.529	0.504	4.7	92	0.00
26	S	dibromofluoromethane	0.308	0.315	-2.3	97	0.00
27	T	1,1,1-trichloroethane	0.439	0.402	8.4	85	0.00
28	T	cyclohexane	0.395	0.441	-11.6	100	0.00
29	T	carbon tetrachloride	0.390	0.352	9.7	83	0.00
30	S	1,2-dichloroethane-d4	0.380	0.379	0.3	96	0.00
31	T	benzene	1.060	1.000	5.7	89	0.00
32	T	1,1-dichloropropene	0.360	0.328	8.9	84	0.00
33	T	1,2-dichloroethane	0.505	0.480	5.0	91	0.00
34	T	trichloroethene	0.271	0.247	8.9	84	0.00
35	T	ethyl acrylate	0.363	0.372	-2.5	98	0.00
36	T,C	1,2-dichloropropane	0.315	0.300	4.8	91	0.00
37	T	methyl methacrylate	0.304	0.313	-3.0	100	0.00
38	T	dibromomethane	0.206	0.201	2.4	93	0.00
39	T	bromodichloromethane	0.431	0.417	3.2	92	0.00
40	T	2-chloroethyl vinyl ether	0.139	0.123	11.5	83	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	93	0.00
42	T	cis-1,3-dichloropropene	0.558	0.555	0.5	89	0.00
43	T	4-methyl-2-pentanone	0.383	0.382	0.3	91	0.00
44	S	toluene-d8	1.261	1.295	-2.7	95	0.00
45	T,C	toluene	0.767	0.742	3.3	89	0.00
46	T	1,1,2-trichloroethane	0.294	0.289	1.7	93	0.00
47	T	1,3-dichloropropane	0.602	0.594	1.3	92	0.00
48	T	tetrachloroethene	0.278	0.254	8.6	83	0.00
49	T	trans-1,3-dichloropropene	0.485	0.481	0.8	89	0.00
50	T	2-hexanone	0.234	0.240	-2.6	94	0.00

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100608\A100602.D Vial: 2
Acq On : 6 Oct 2008 6:52 am Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 07:18:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	dibromochloromethane	0.393	0.390	0.8	92	0.00
52	T	1,2-dibromoethane	0.354	0.357	-0.8	91	0.00
53	T,P	chlorobenzene	0.858	0.844	1.6	91	0.00
54	T	1,1,1,2-tetrachloroethane	0.355	0.355	0.0	91	0.00
55	T,C	ethylbenzene	1.312	1.332	-1.5	89	0.00
56	T	m,p-xylene	0.498	0.523	-5.0	92	0.00
57	T	butyl acrylate	0.577	0.614	-6.4	94	0.00
58	T	o-xylene	0.491	0.522	-6.3	91	0.00
59	T	styrene	0.819	0.873	-6.6	91	0.00
60	T	isopropylbenzene	0.978	1.047	-7.1	89	0.00
61	T	bromobenzene	0.392	0.397	-1.3	91	0.00
62	T,P	bromoform	0.295	0.300	-1.7	92	0.00
63	S	4-bromofluorobenzene	0.465	0.488	-4.9	95	0.00
64	T	1,2,3-trichloropropane	0.380	0.390	-2.6	96	0.00
65	T	n-propylbenzene	1.299	1.439	-10.8	92	0.00
66	T	2-chlorotoluene	0.864	0.922	-6.7	93	0.00
67	T	4-chlorotoluene	0.957	1.044	-9.1	94	0.00
68	T	1,3,5-trimethylbenzene	0.877	0.956	-9.0	90	0.00
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
70	T,P	1,1,2,2-tetrachloroethane	0.806	0.764	5.2	96	0.00
71	T	tert-butylbenzene	1.307	1.391	-6.4	91	0.00
72	T	sec-butylbenzene	1.863	1.962	-5.3	90	0.00
73	T	1,2,4-trimethylbenzene	1.711	1.807	-5.6	93	0.00
74	T	1,3-dichlorobenzene	1.118	1.125	-0.6	94	0.00
75	T	p-isopropyltoluene	1.485	1.606	-8.1	90	0.00
76	T	dicyclopentadiene	2.300	2.491	-8.3	101	0.00
77	T	1,4-dichlorobenzene	1.196	1.165	2.6	95	0.00
78	T	1,2-dichlorobenzene	1.113	1.119	-0.5	93	0.00
79	T	n-butylbenzene	1.256	1.417	-12.8	93	0.00
80	T	1,2-dibromo-3-chloropropane	0.122	0.116	4.9	94	0.00
81	T	1,2,4-trichlorobenzene	0.432	0.510	-18.1	98	0.00
82	T	hexachlorobutadiene	0.271	0.283	-4.4	89	0.00
83	T	naphthalene	0.796	0.903	-13.4	106	0.00
84	T	1,2,3-trichlorobenzene	0.383	0.432	-12.8	93	0.00
85	T	2-methylnaphthalene	0.136	0.109	19.9	82	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100608\A100602.D Vial: 2
Acq On : 6 Oct 2008 6:52 am Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 07:18:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.995	96	470214	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	377760	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.399	152	216508	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.144	113	147938	51.10	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	178380	49.97	ug/L	0.00
44) toluene-d8	9.245	98	489016	51.33	ug/L	0.00
63) 4-bromofluorobenzene	13.532	95	184241	52.48	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.510	85	59479	41.13	ug/L	97
3) chloromethane	1.716	50	102095	47.69	ug/L	98
4) vinyl chloride	1.844	62	119346	52.15	ug/L	98
5) 1,3-butadiene	1.881	39	157900	59.64	ug/L	99
6) bromomethane	2.221	94	35273	38.52	ug/L	100
7) chloroethane	2.349	64	66402	49.83	ug/L	94
8) trichlorofluoromethane	2.647	101	177954	42.51	ug/L	94
9) acrolein	3.206	56	64857	431.53	ug/L	94
10) 1,1-dichloroethene	3.279	96	96703	44.41	ug/L #	86
11) acetone	3.401	43	68161	61.84	ug/L	88
12) carbon disulfide	3.529	76	402480	59.76	ug/L	99
13) methylene chloride	3.912	84	145076	46.43	ug/L	89
14) acrylonitrile	4.240	53	614961	501.86	ug/L	92
15) trans-1,2-dichloroethene	4.222	96	114893	46.85	ug/L	91
16) methyl-t-butyl ether	4.204	73	372074	47.11	ug/L	87
17) acetonitrile	3.760	41	255594	521.75	ug/L	95
18) hexane	4.508	57	158731	56.12	ug/L #	98
19) 1,1-dichloroethane	4.757	63	235104	47.22	ug/L	98
20) vinyl acetate	4.830	43	159063	47.81	ug/L	91
21) cis-1,2-dichloroethene	5.505	96	133833	47.46	ug/L #	84
22) 2,2-dichloropropane	5.462	77	183934	46.49	ug/L #	89
23) 2-butanone	5.542	72	14833	49.30	ug/L #	74
24) methyl acrylate	5.651	55	134046	53.69	ug/L #	97
25) chloroform	5.931	83	236948	47.60	ug/L	99
27) 1,1,1-trichloroethane	6.107	97	188861	45.71	ug/L	94
28) cyclohexane	6.144	56	207520	55.92	ug/L	93
29) carbon tetrachloride	6.314	117	165650	45.13	ug/L	96
31) benzene	6.612	78	470121	47.17	ug/L	99
32) 1,1-dichloropropene	6.332	75	154359	45.65	ug/L #	92
33) 1,2-dichloroethane	6.679	62	225711	47.51	ug/L	99
34) trichloroethene	7.500	95	116134	45.53	ug/L #	82
35) ethyl acrylate	7.676	55	175052	51.33	ug/L	98
36) 1,2-dichloropropane	7.834	63	141175	47.63	ug/L	82
37) methyl methacrylate	7.998	41	147010	51.48	ug/L	85
38) dibromomethane	8.029	93	94533	48.86	ug/L	92
39) bromodichloromethane	8.260	83	195855	48.31	ug/L	95
40) 2-chloroethyl vinyl ether	8.692	63	57629	43.95	ug/L	97
42) cis-1,3-dichloropropene	8.898	75	209631	49.76	ug/L	90
43) 4-methyl-2-pentanone	9.123	43	144409	49.87	ug/L #	94
45) toluene	9.348	92	280292	48.34	ug/L	94
46) 1,1,2-trichloroethane	10.042	83	109099	49.15	ug/L	95
47) 1,3-dichloropropane	10.291	76	224250	49.30	ug/L	100
48) tetrachloroethene	10.175	164	96119	45.81	ug/L	97

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100608\A100602.D Vial: 2
Acq On : 6 Oct 2008 6:52 am Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 07:18:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

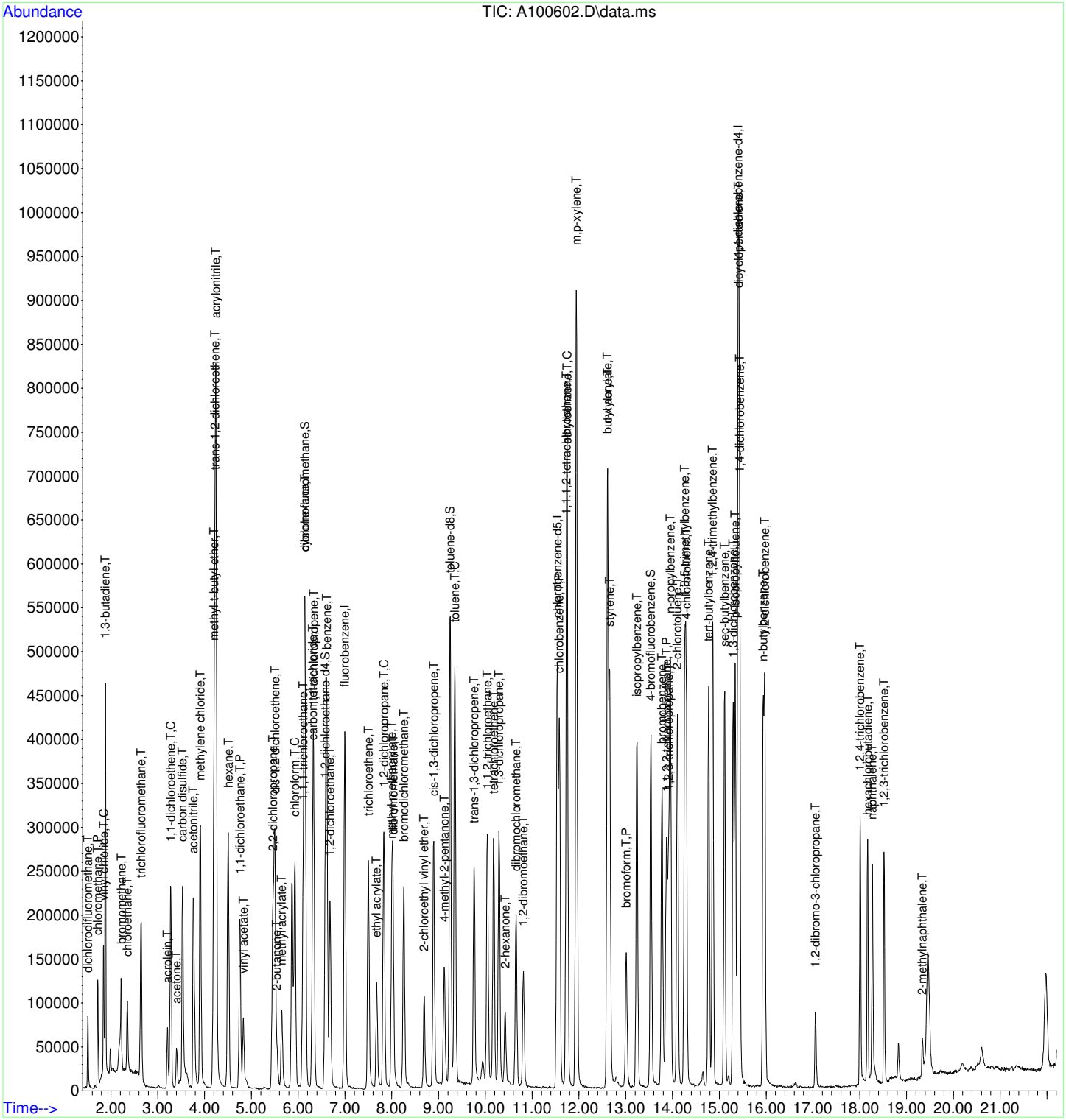
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.762	75	181589	49.61 ug/L	98
50) 2-hexanone	10.425	43	90584	51.27 ug/L	98
51) dibromochloromethane	10.656	129	147148	49.56 ug/L	98
52) 1,2-dibromoethane	10.814	107	134780	50.42 ug/L	99
53) chlorobenzene	11.580	112	318910	49.22 ug/L	85
54) 1,1,1,2-tetrachloroethane	11.732	131	134017	49.91 ug/L	96
55) ethylbenzene	11.751	91	503192	50.75 ug/L	89
56) m,p-xylene	11.945	106	395066	104.90 ug/L #	77
57) butyl acrylate	12.608	55	232002	53.20 ug/L	94
58) o-xylene	12.614	106	197314	53.24 ug/L #	79
59) styrene	12.657	104	329903	53.29 ug/L	88
60) isopropylbenzene	13.240	105	395487	53.51 ug/L	92
61) bromobenzene	13.776	156	149812	50.62 ug/L #	73
62) bromoform	13.009	173	113255	50.79 ug/L	88
64) 1,2,3-trichloropropane	13.916	75	147399	51.40 ug/L	92
65) n-propylbenzene	13.952	91	543568	55.40 ug/L	93
66) 2-chlorotoluene	14.104	91	348197m	53.34 ug/L	
67) 4-chlorotoluene	14.293	91	394471	54.59 ug/L #	84
68) 1,3,5-trimethylbenzene	14.262	105	361098	54.51 ug/L #	87
70) 1,1,2,2-tetrachloroethane	13.873	83	165406	47.38 ug/L	99
71) tert-butylbenzene	14.773	119	301203	53.20 ug/L #	82
72) sec-butylbenzene	15.114	105	424875	52.68 ug/L #	92
73) 1,2,4-trimethylbenzene	14.858	105	391150	52.79 ug/L #	87
74) 1,3-dichlorobenzene	15.296	146	243557	50.31 ug/L	91
75) p-isopropyltoluene	15.339	119	347604	54.06 ug/L	88
76) dicyclopentadiene	15.412	66	539389	54.15 ug/L	94
77) 1,4-dichlorobenzene	15.436	146	252261	48.72 ug/L	90
78) 1,2-dichlorobenzene	15.971	146	242167	50.26 ug/L	93
79) n-butylbenzene	15.935	91	306826	56.40 ug/L	97
80) 1,2-dibromo-3-chloropr...	17.053	75	25199	47.54 ug/L #	58
81) 1,2,4-trichlorobenzene	18.008	180	110356	58.95 ug/L	93
82) hexachlorobutadiene	18.172	225	61165	52.04 ug/L	89
83) naphthalene	18.270	128	195444	56.69 ug/L	100
84) 1,2,3-trichlorobenzene	18.519	180	93426	56.39 ug/L	92
85) 2-methylnaphthalene	19.334	142	23610	40.05 ug/L	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\msdchem\1\data\A100608\A100602.D Vial: 2
Acq On : 6 Oct 2008 6:52 am Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 07:18:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100608\A100616.D Vial: 16
Acq On : 6 Oct 2008 3:28 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 15:53:52 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	88	0.00
2	T	dichlorodifluoromethane	0.154	0.154	0.0	89	0.00
3	T,P	chloromethane	0.228	0.227	0.4	92	0.00
4	T,C	vinyl chloride	0.243	0.278	-14.4	100	0.00
5	T	1,3-butadiene	0.282	0.329	-16.7	102	0.00
6	T	bromomethane	0.097	0.061	37.1#	64	0.00
7	T	chloroethane	0.142	0.159	-12.0	101	0.01
8	T	trichlorofluoromethane	0.445	0.566	-27.2#	107	0.01
9	T	acrolein	0.016	0.014	12.5	78	0.00
10	T,C	1,1-dichloroethene	0.232	0.251	-8.2	93	0.00
11	T	acetone	0.117	0.148	-26.5#	117	0.00
12	T	carbon disulfide	0.716	0.830	-15.9	99	0.00
13	T	methylene chloride	0.332	0.346	-4.2	96	0.00
14	T	acrylonitrile	0.130	0.134	-3.1	95	0.00
15	T	trans-1,2-dichloroethene	0.261	0.296	-13.4	97	0.00
16	T	methyl-t-butyl ether	0.840	0.956	-13.8	100	0.00
17	T	acetonitrile	0.052	0.055	-5.8	102	0.00
18	T	hexane	0.301	0.345	-14.6	97	0.00
19	T,P	1,1-dichloroethane	0.529	0.581	-9.8	98	0.00
20	T	vinyl acetate	0.354	0.427	-20.6#	102	0.00
21	T	cis-1,2-dichloroethene	0.300	0.335	-11.7	97	0.00
22	T	2,2-dichloropropane	0.421	0.468	-11.2	93	0.00
23	T	2-butanone	0.032	0.040	-25.0#	116	0.00
24	T	methyl acrylate	0.265	0.294	-10.9	95	0.00
25	T,C	chloroform	0.529	0.593	-12.1	100	0.00
26	S	dibromofluoromethane	0.308	0.321	-4.2	92	0.00
27	T	1,1,1-trichloroethane	0.439	0.490	-11.6	96	0.00
28	T	cyclohexane	0.395	0.450	-13.9	94	0.00
29	T	carbon tetrachloride	0.390	0.440	-12.8	96	0.00
30	S	1,2-dichloroethane-d4	0.380	0.399	-5.0	93	0.00
31	T	benzene	1.060	1.160	-9.4	96	0.00
32	T	1,1-dichloropropene	0.360	0.395	-9.7	94	0.00
33	T	1,2-dichloroethane	0.505	0.566	-12.1	99	0.00
34	T	trichloroethene	0.271	0.293	-8.1	92	0.00
35	T	ethyl acrylate	0.363	0.410	-12.9	100	0.00
36	T,C	1,2-dichloropropane	0.315	0.351	-11.4	98	0.00
37	T	methyl methacrylate	0.304	0.336	-10.5	100	0.00
38	T	dibromomethane	0.206	0.239	-16.0	102	0.00
39	T	bromodichloromethane	0.431	0.485	-12.5	99	0.00
40	T	2-chloroethyl vinyl ether	0.139	0.163	-17.3	102	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	90	0.00
42	T	cis-1,3-dichloropropene	0.558	0.615	-10.2	95	0.00
43	T	4-methyl-2-pentanone	0.383	0.453	-18.3	103	0.00
44	S	toluene-d8	1.261	1.271	-0.8	90	0.00
45	T,C	toluene	0.767	0.839	-9.4	97	0.00
46	T	1,1,2-trichloroethane	0.294	0.313	-6.5	97	0.00
47	T	1,3-dichloropropane	0.602	0.656	-9.0	97	0.00
48	T	tetrachloroethene	0.278	0.308	-10.8	96	0.00
49	T	trans-1,3-dichloropropene	0.485	0.548	-13.0	97	0.00
50	T	2-hexanone	0.234	0.283	-20.9#	107	0.00

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100608\A100616.D Vial: 16
Acq On : 6 Oct 2008 3:28 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 15:53:52 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	dibromochloromethane	0.393	0.434	-10.4	99	0.00
52	T	1,2-dibromoethane	0.354	0.394	-11.3	96	0.00
53	T,P	chlorobenzene	0.858	0.936	-9.1	97	0.00
54	T	1,1,1,2-tetrachloroethane	0.355	0.394	-11.0	97	0.00
55	T,C	ethylbenzene	1.312	1.489	-13.5	96	0.00
56	T	m,p-xylene	0.498	0.580	-16.5	98	0.00
57	T	butyl acrylate	0.577	0.640	-10.9	94	0.00
58	T	o-xylene	0.491	0.568	-15.7	96	0.00
59	T	styrene	0.819	0.971	-18.6	98	0.00
60	T	isopropylbenzene	0.978	1.168	-19.4	95	0.00
61	T	bromobenzene	0.392	0.435	-11.0	95	0.00
62	T,P	bromoform	0.295	0.339	-14.9	100	0.00
63	S	4-bromofluorobenzene	0.465	0.486	-4.5	91	0.00
64	T	1,2,3-trichloropropane	0.380	0.420	-10.5	99	0.00
65	T	n-propylbenzene	1.299	1.564	-20.4#	96	0.00
66	T	2-chlorotoluene	0.864	1.159	-34.1#	112	0.19
67	T	4-chlorotoluene	0.957	1.159	-21.1#	100	0.00
68	T	1,3,5-trimethylbenzene	0.877	1.076	-22.7#	98	0.00
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
70	T,P	1,1,2,2-tetrachloroethane	0.806	0.850	-5.5	101	0.00
71	T	tert-butylbenzene	1.307	1.528	-16.9	94	0.00
72	T	sec-butylbenzene	1.863	2.205	-18.4	95	0.00
73	T	1,2,4-trimethylbenzene	1.711	1.981	-15.8	97	0.00
74	T	1,3-dichlorobenzene	1.118	1.238	-10.7	97	0.00
75	T	p-isopropyltoluene	1.485	1.798	-21.1#	95	0.00
76	T	dicyclopentadiene	2.300	2.546	-10.7	98	0.00
77	T	1,4-dichlorobenzene	1.196	1.319	-10.3	101	0.00
78	T	1,2-dichlorobenzene	1.113	1.261	-13.3	99	0.00
79	T	n-butylbenzene	1.256	1.533	-22.1#	96	0.00
80	T	1,2-dibromo-3-chloropropane	0.122	0.133	-9.0	101	0.00
81	T	1,2,4-trichlorobenzene	0.432	0.552	-27.8#	100	0.00
82	T	hexachlorobutadiene	0.271	0.327	-20.7#	97	0.00
83	T	naphthalene	0.796	0.958	-20.4#	106	0.00
84	T	1,2,3-trichlorobenzene	0.383	0.512	-33.7#	105	0.00
85	T	2-methylnaphthalene	0.136	0.117	14.0	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100616.D Vial: 16
Acq On : 6 Oct 2008 3:28 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 15:53:52 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.000	96	435054	50.00	ug/L	0.00
41) chlorobenzene-d5	11.536	117	363108	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.398	152	204570	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.142	113	139781	52.18	ug/L	0.00
30) 1,2-dichloroethane-d4	6.580	65	173527	52.54	ug/L	0.00
44) toluene-d8	9.250	98	461463	50.40	ug/L	0.00
63) 4-bromofluorobenzene	13.537	95	176361	52.26	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.508	85	67115	50.16	ug/L	98
3) chloromethane	1.721	50	98695	49.82	ug/L	97
4) vinyl chloride	1.843	62	120784	57.05	ug/L	94
5) 1,3-butadiene	1.879	39	143191	58.46	ug/L	99
6) bromomethane	2.220	94	26397	31.16	ug/L	96
7) chloroethane	2.347	64	69211	56.14	ug/L	91
8) trichlorofluoromethane	2.645	101	246309	63.60	ug/L	97
9) acrolein	3.205	56	59310	426.52	ug/L	99
10) 1,1-dichloroethene	3.278	96	109282	54.24	ug/L #	83
11) acetone	3.406	43	64541	63.28	ug/L	84
12) carbon disulfide	3.527	76	361050	57.94	ug/L	98
13) methylene chloride	3.910	84	150720	52.13	ug/L	87
14) acrylonitrile	4.245	53	581750	513.12	ug/L	94
15) trans-1,2-dichloroethene	4.221	96	128657	56.70	ug/L #	87
16) methyl-t-butyl ether	4.208	73	415965	56.92	ug/L	86
17) acetonitrile	3.758	41	237779	524.62	ug/L	94
18) hexane	4.506	57	149910	57.29	ug/L #	99
19) 1,1-dichloroethane	4.756	63	252951	54.91	ug/L	98
20) vinyl acetate	4.829	43	185697	60.32	ug/L	96
21) cis-1,2-dichloroethene	5.504	96	145560	55.79	ug/L #	85
22) 2,2-dichloropropane	5.461	77	203581	55.61	ug/L #	88
23) 2-butanone	5.546	72	17447	62.68	ug/L #	33
24) methyl acrylate	5.650	55	127829	55.34	ug/L #	98
25) chloroform	5.929	83	258028	56.03	ug/L	96
27) 1,1,1-trichloroethane	6.112	97	213307	55.79	ug/L	96
28) cyclohexane	6.142	56	195626	56.97	ug/L	93
29) carbon tetrachloride	6.319	117	191582	56.41	ug/L	95
31) benzene	6.611	78	504813	54.74	ug/L	100
32) 1,1-dichloropropene	6.331	75	171958	54.96	ug/L #	93
33) 1,2-dichloroethane	6.683	62	246055	55.97	ug/L	95
34) trichloroethene	7.498	95	127407	53.99	ug/L #	83
35) ethyl acrylate	7.681	55	178207	56.48	ug/L	98
36) 1,2-dichloropropane	7.833	63	152674	55.67	ug/L	86
37) methyl methacrylate	8.003	41	146160	55.31	ug/L	88
38) dibromomethane	8.027	93	103909	58.05	ug/L	90
39) bromodichloromethane	8.259	83	211164	56.30	ug/L	94
40) 2-chloroethyl vinyl ether	8.696	63	70917	58.46	ug/L	99
42) cis-1,3-dichloropropene	8.897	75	223307	55.15	ug/L	95
43) 4-methyl-2-pentanone	9.122	43	164510	59.11	ug/L	94
45) toluene	9.347	92	304630	54.66	ug/L	97
46) 1,1,2-trichloroethane	10.040	83	113830	53.35	ug/L	96
47) 1,3-dichloropropane	10.296	76	238150	54.47	ug/L	99
48) tetrachloroethene	10.180	164	111723	55.40	ug/L	94

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100616.D Vial: 16
Acq On : 6 Oct 2008 3:28 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 15:53:52 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

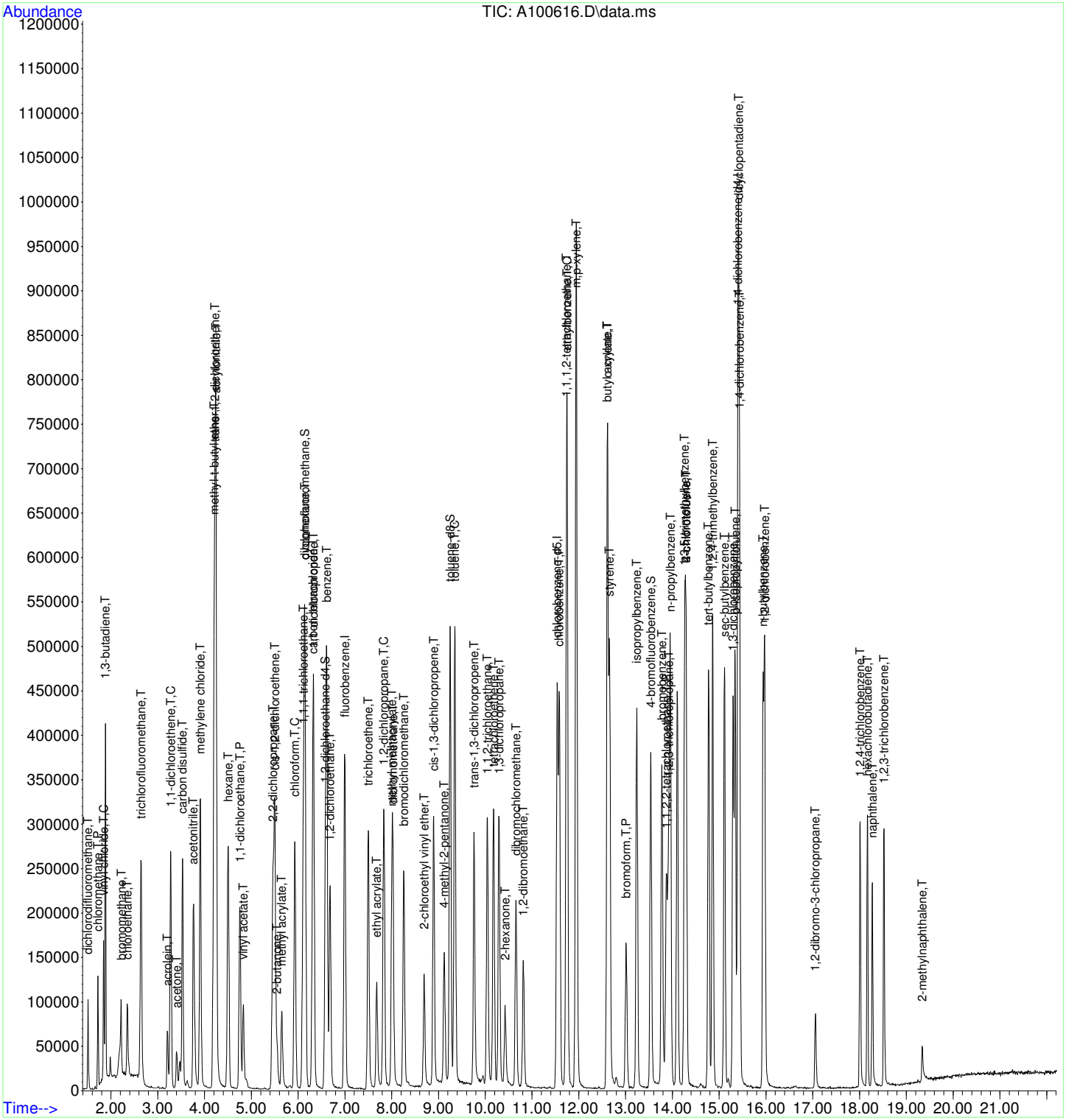
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.761	75	199105	56.59 ug/L	97
50) 2-hexanone	10.424	43	102804	60.53 ug/L	96
51) dibromochloromethane	10.655	129	157635	55.24 ug/L	97
52) 1,2-dibromoethane	10.813	107	142991	55.65 ug/L	99
53) chlorobenzene	11.579	112	339731	54.55 ug/L #	82
54) 1,1,1,2-tetrachloroethane	11.737	131	142967	55.39 ug/L	96
55) ethylbenzene	11.749	91	540849	56.75 ug/L	90
56) m,p-xylene	11.944	106	421298	116.38 ug/L #	78
57) butyl acrylate	12.607	55	232414	55.45 ug/L	96
58) o-xylene	12.613	106	206306	57.91 ug/L #	81
59) styrene	12.655	104	352663	59.27 ug/L	87
60) isopropylbenzene	13.239	105	424188	59.71 ug/L	93
61) bromobenzene	13.774	156	158023	55.55 ug/L #	72
62) bromoform	13.008	173	123234	57.49 ug/L	93
64) 1,2,3-trichloropropane	13.920	75	152336	55.26 ug/L	95
65) n-propylbenzene	13.957	91	567994	60.23 ug/L	93
66) 2-chlorotoluene	14.291	91	420716	67.05 ug/L	91
67) 4-chlorotoluene	14.291	91	420716	60.57 ug/L #	84
68) 1,3,5-trimethylbenzene	14.261	105	390535	61.33 ug/L	88
70) 1,1,2,2-tetrachloroethane	13.872	83	173900	52.72 ug/L	98
71) tert-butylbenzene	14.772	119	312497	58.42 ug/L #	83
72) sec-butylbenzene	15.118	105	451015	59.18 ug/L #	91
73) 1,2,4-trimethylbenzene	14.863	105	405153	57.87 ug/L	89
74) 1,3-dichlorobenzene	15.295	146	253262	55.37 ug/L	93
75) p-isopropyltoluene	15.343	119	367804	60.54 ug/L	88
76) dicyclopentadiene	15.416	66	520795	55.33 ug/L	94
77) 1,4-dichlorobenzene	15.435	146	269794	55.15 ug/L	92
78) 1,2-dichlorobenzene	15.976	146	258030	56.68 ug/L	94
79) n-butylbenzene	15.939	91	313584	61.01 ug/L	96
80) 1,2-dibromo-3-chloropr...	17.052	75	27169	54.25 ug/L #	72
81) 1,2,4-trichlorobenzene	18.013	180	112848	63.80 ug/L	93
82) hexachlorobutadiene	18.171	225	66934	60.28 ug/L	95
83) naphthalene	18.275	128	195890	60.13 ug/L	100
84) 1,2,3-trichlorobenzene	18.524	180	104787	66.93 ug/L	94
85) 2-methylnaphthalene	19.339	142	24000	43.09 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100616.D Vial: 16
Acq On : 6 Oct 2008 3:28 pm Operator: BR
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 06 15:53:52 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100708\A100703.D Vial: 3
Acq On : 7 Oct 2008 8:42 am Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 09:15:38 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	84	0.00
2	T	dichlorodifluoromethane	0.154	0.115	25.3#	64	0.00
3	T,P	chloromethane	0.228	0.197	13.6	77	0.00
4	T,C	vinyl chloride	0.243	0.250	-2.9	86	0.00
5	T	1,3-butadiene	0.282	0.328	-16.3	97	0.00
6	T	bromomethane	0.097	0.080	17.5	80	0.00
7	T	chloroethane	0.142	0.148	-4.2	90	0.01
8	T	trichlorofluoromethane	0.445	0.487	-9.4	88	0.00
9	T	acrolein	0.016	0.030	-87.5#	164	0.00
10	T,C	1,1-dichloroethene	0.232	0.253	-9.1	90	0.00
11	T	acetone	0.117	0.135	-15.4	102	0.00
12	T	carbon disulfide	0.716	0.826	-15.4	95	0.00
13	T	methylene chloride	0.332	0.344	-3.6	92	0.00
14	T	acrylonitrile	0.130	0.216	-66.2#	147	0.00
15	T	trans-1,2-dichloroethene	0.261	0.289	-10.7	91	0.00
16	T	methyl-t-butyl ether	0.840	0.908	-8.1	91	0.00
17	T	acetonitrile	0.052	0.054	-3.8	97	0.00
18	T	hexane	0.301	0.341	-13.3	92	0.00
19	T,P	1,1-dichloroethane	0.529	0.572	-8.1	93	0.00
20	T	vinyl acetate	0.354	0.399	-12.7	91	0.00
21	T	cis-1,2-dichloroethene	0.300	0.321	-7.0	89	0.00
22	T	2,2-dichloropropane	0.421	0.469	-11.4	90	-0.01
23	T	2-butanone	0.032	0.035	-9.4	99	0.00
24	T	methyl acrylate	0.265	0.284	-7.2	88	0.00
25	T,C	chloroform	0.529	0.577	-9.1	93	0.00
26	S	dibromofluoromethane	0.308	0.319	-3.6	88	0.00
27	T	1,1,1-trichloroethane	0.439	0.481	-9.6	90	0.00
28	T	cyclohexane	0.395	0.445	-12.7	89	0.00
29	T	carbon tetrachloride	0.390	0.442	-13.3	92	0.00
30	S	1,2-dichloroethane-d4	0.380	0.396	-4.2	89	0.00
31	T	benzene	1.060	1.156	-9.1	92	0.00
32	T	1,1-dichloropropene	0.360	0.398	-10.6	91	0.00
33	T	1,2-dichloroethane	0.505	0.541	-7.1	91	0.00
34	T	trichloroethene	0.271	0.293	-8.1	88	0.00
35	T	ethyl acrylate	0.363	0.363	0.0	85	0.00
36	T,C	1,2-dichloropropane	0.315	0.342	-8.6	92	0.00
37	T	methyl methacrylate	0.304	0.326	-7.2	93	0.00
38	T	dibromomethane	0.206	0.225	-9.2	92	0.00
39	T	bromodichloromethane	0.431	0.478	-10.9	93	0.00
40	T	2-chloroethyl vinyl ether	0.139	0.142	-2.2	86	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	87	0.00
42	T	cis-1,3-dichloropropene	0.558	0.594	-6.5	89	0.00
43	T	4-methyl-2-pentanone	0.383	0.402	-5.0	88	0.00
44	S	toluene-d8	1.261	1.279	-1.4	88	0.00
45	T,C	toluene	0.767	0.798	-4.0	89	0.00
46	T	1,1,2-trichloroethane	0.294	0.304	-3.4	91	0.00
47	T	1,3-dichloropropane	0.602	0.626	-4.0	90	0.00
48	T	tetrachloroethene	0.278	0.295	-6.1	89	0.00
49	T	trans-1,3-dichloropropene	0.485	0.512	-5.6	88	0.00
50	T	2-hexanone	0.234	0.242	-3.4	88	0.00

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100708\A100703.D Vial: 3
Acq On : 7 Oct 2008 8:42 am Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 09:15:38 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	dibromochloromethane	0.393	0.416	-5.9	92	0.00
52	T	1,2-dibromoethane	0.354	0.362	-2.3	86	0.00
53	T,P	chlorobenzene	0.858	0.903	-5.2	91	0.00
54	T	1,1,1,2-tetrachloroethane	0.355	0.373	-5.1	89	0.00
55	T,C	ethylbenzene	1.312	1.442	-9.9	90	0.00
56	T	m,p-xylene	0.498	0.553	-11.0	90	0.00
57	T	butyl acrylate	0.577	0.614	-6.4	87	0.00
58	T	o-xylene	0.491	0.547	-11.4	89	0.00
59	T	styrene	0.819	0.901	-10.0	88	0.00
60	T	isopropylbenzene	0.978	1.119	-14.4	88	0.00
61	T	bromobenzene	0.392	0.428	-9.2	91	0.00
62	T,P	bromoform	0.295	0.309	-4.7	88	0.00
63	S	4-bromofluorobenzene	0.465	0.490	-5.4	88	0.00
64	T	1,2,3-trichloropropane	0.380	0.393	-3.4	90	0.00
65	T	n-propylbenzene	1.299	1.517	-16.8	90	0.00
66	T	2-chlorotoluene	0.864	1.121	-29.7#	105	0.19
67	T	4-chlorotoluene	0.957	1.121	-17.1	94	0.00
68	T	1,3,5-trimethylbenzene	0.877	1.034	-17.9	91	0.00
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
70	T,P	1,1,2,2-tetrachloroethane	0.806	0.778	3.5	90	0.00
71	T	tert-butylbenzene	1.307	1.465	-12.1	88	0.00
72	T	sec-butylbenzene	1.863	2.115	-13.5	89	0.00
73	T	1,2,4-trimethylbenzene	1.711	1.904	-11.3	90	0.00
74	T	1,3-dichlorobenzene	1.118	1.168	-4.5	89	0.00
75	T	p-isopropyltoluene	1.485	1.710	-15.2	88	0.00
76	T	dicyclopentadiene	2.300	2.486	-8.1	93	0.00
77	T	1,4-dichlorobenzene	1.196	1.231	-2.9	92	0.00
78	T	1,2-dichlorobenzene	1.113	1.181	-6.1	90	0.00
79	T	n-butylbenzene	1.256	1.470	-17.0	89	0.00
80	T	1,2-dibromo-3-chloropropane	0.122	0.116	4.9	85	0.00
81	T	1,2,4-trichlorobenzene	0.432	0.489	-13.2	86	0.00
82	T	hexachlorobutadiene	0.271	0.291	-7.4	84	0.00
83	T	naphthalene	0.796	0.798	-0.3	86	0.00
84	T	1,2,3-trichlorobenzene	0.383	0.414	-8.1	82	0.00
85	T	2-methylnaphthalene	0.136	0.106	22.1#	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100703.D Vial: 3
Acq On : 7 Oct 2008 8:42 am Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 09:15:38 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.995	96	417637	50.00	ug/L	0.00
41) chlorobenzene-d5	11.537	117	351339	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	198873	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	133237	51.81	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	165526	52.21	ug/L	0.00
44) toluene-d8	9.245	98	449450	50.73	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	172220	52.74	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.509	85	48054	37.42	ug/L	97
3) chloromethane	1.722	50	82482	43.38	ug/L	99
4) vinyl chloride	1.838	62	104604	51.46	ug/L	93
5) 1,3-butadiene	1.880	39	136976	58.25	ug/L	99
6) bromomethane	2.221	94	33374	41.04	ug/L	99
7) chloroethane	2.348	64	61689	52.12	ug/L	93
8) trichlorofluoromethane	2.640	101	203580	54.76	ug/L	95
9) acrolein	3.206	56	124381	931.77	ug/L	97
10) 1,1-dichloroethene	3.273	96	105679	54.64	ug/L #	83
11) acetone	3.400	43	56229	57.43	ug/L	89
12) carbon disulfide	3.528	76	345029	57.68	ug/L	100
13) methylene chloride	3.905	84	143637	51.75	ug/L	90
14) acrylonitrile	4.240	53	903359	830.02	ug/L	92
15) trans-1,2-dichloroethene	4.215	96	120604	55.36	ug/L	88
16) methyl-t-butyl ether	4.197	73	379356	54.08	ug/L	85
17) acetonitrile	3.759	41	226315	520.15	ug/L	94
18) hexane	4.501	57	142451	56.71	ug/L #	97
19) 1,1-dichloroethane	4.750	63	239061	54.06	ug/L	98
20) vinyl acetate	4.823	43	166744	56.42	ug/L	96
21) cis-1,2-dichloroethene	5.498	96	134197	53.58	ug/L #	85
22) 2,2-dichloropropane	5.456	77	195920	55.75	ug/L #	87
23) 2-butanone	5.541	72	14816	55.44	ug/L #	51
24) methyl acrylate	5.644	55	118493	53.44	ug/L #	97
25) chloroform	5.924	83	241091	54.53	ug/L	96
27) 1,1,1-trichloroethane	6.107	97	200755	54.70	ug/L	96
28) cyclohexane	6.137	56	185953	56.41	ug/L	93
29) carbon tetrachloride	6.313	117	184458	56.58	ug/L	97
31) benzene	6.605	78	482865	54.55	ug/L	98
32) 1,1-dichloropropene	6.326	75	166393	55.40	ug/L #	93
33) 1,2-dichloroethane	6.678	62	226101	53.58	ug/L	99
34) trichloroethene	7.493	95	122407	54.03	ug/L #	84
35) ethyl acrylate	7.676	55	151557	50.04	ug/L	98
36) 1,2-dichloropropane	7.834	63	142942	54.30	ug/L	89
37) methyl methacrylate	7.998	41	136348	53.75	ug/L	86
38) dibromomethane	8.022	93	94148	54.79	ug/L	90
39) bromodichloromethane	8.253	83	199422	55.39	ug/L	97
40) 2-chloroethyl vinyl ether	8.691	63	59348	50.96	ug/L	99
42) cis-1,3-dichloropropene	8.892	75	208818	53.30	ug/L	97
43) 4-methyl-2-pentanone	9.123	43	141155	52.42	ug/L #	95
45) toluene	9.348	92	280194	51.96	ug/L	97
46) 1,1,2-trichloroethane	10.041	83	106746	51.71	ug/L	98
47) 1,3-dichloropropane	10.291	76	220009	52.01	ug/L	99
48) tetrachloroethene	10.175	164	103779	53.18	ug/L	95

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100703.D Vial: 3
Acq On : 7 Oct 2008 8:42 am Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 09:15:38 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

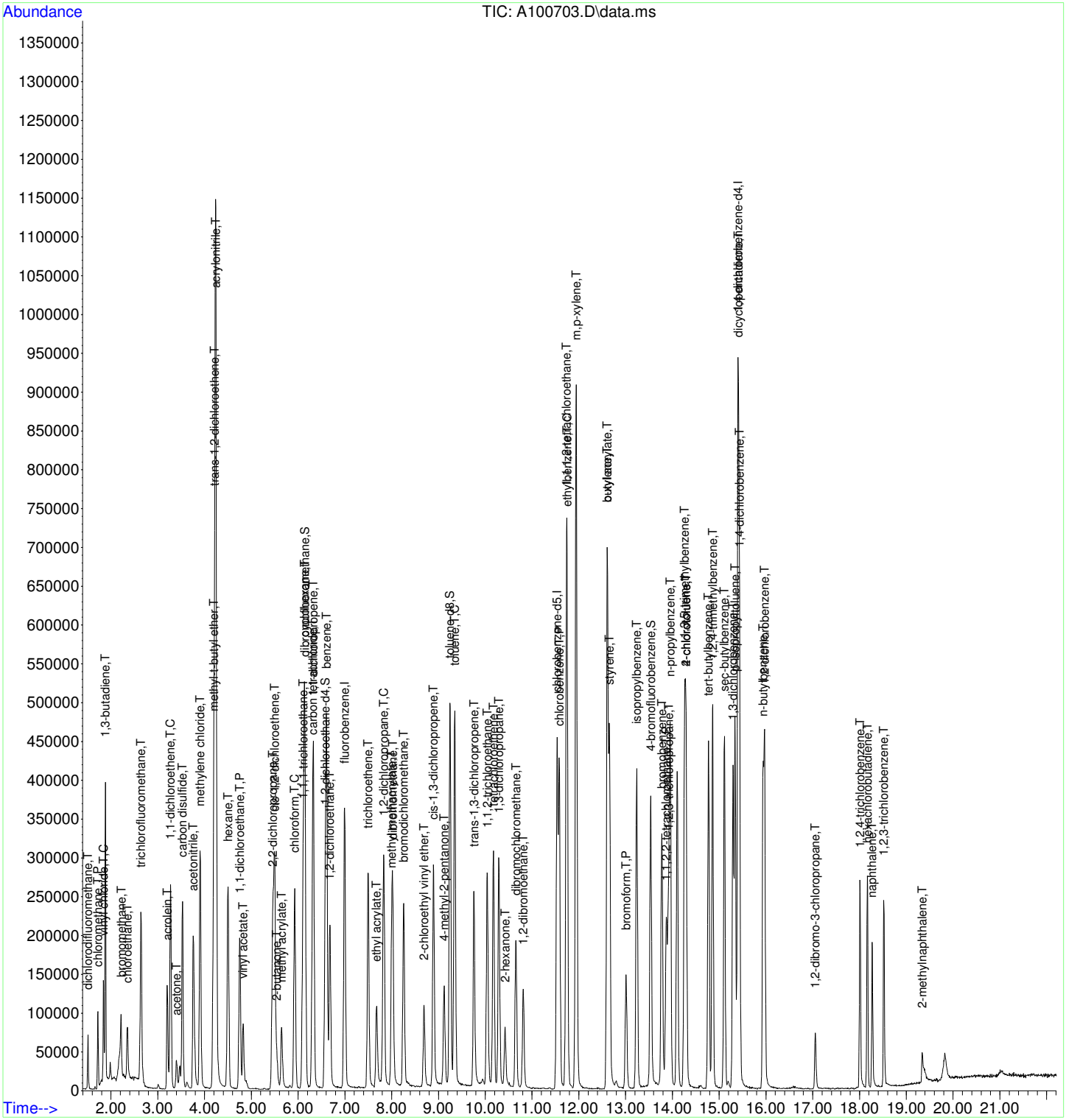
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	trans-1,3-dichloropropene	9.762	75	179956	52.86	ug/L		98
50)	2-hexanone	10.424	43	85176	51.83	ug/L		96
51)	dibromochloromethane	10.655	129	146280	52.98	ug/L		99
52)	1,2-dibromoethane	10.814	107	127289	51.20	ug/L	#	98
53)	chlorobenzene	11.586	112	317114	52.63	ug/L		84
54)	1,1,1,2-tetrachloroethane	11.738	131	131098	52.49	ug/L		94
55)	ethylbenzene	11.750	91	506745	54.95	ug/L		91
56)	m,p-xylene	11.945	106	388530	110.92	ug/L	#	78
57)	butyl acrylate	12.608	55	215835	53.22	ug/L		91
58)	o-xylene	12.608	106	192085	55.73	ug/L	#	85
59)	styrene	12.656	104	316719	55.01	ug/L		86
60)	isopropylbenzene	13.240	105	393147	57.20	ug/L		92
61)	bromobenzene	13.775	156	150472	54.67	ug/L	#	71
62)	bromoform	13.009	173	108551	52.34	ug/L		95
64)	1,2,3-trichloropropane	13.921	75	138042	51.75	ug/L		92
65)	n-propylbenzene	13.952	91	533110	58.42	ug/L		92
66)	2-chlorotoluene	14.292	91	393771	64.86	ug/L		92
67)	4-chlorotoluene	14.292	91	393771	58.59	ug/L	#	85
68)	1,3,5-trimethylbenzene	14.262	105	363352	58.97	ug/L	#	87
70)	1,1,2,2-tetrachloroethane	13.866	83	154803	48.28	ug/L		99
71)	tert-butylbenzene	14.773	119	291367	56.03	ug/L	#	81
72)	sec-butylbenzene	15.113	105	420695	56.78	ug/L	#	92
73)	1,2,4-trimethylbenzene	14.864	105	378633	55.63	ug/L		89
74)	1,3-dichlorobenzene	15.296	146	232321	52.25	ug/L		93
75)	p-isopropyltoluene	15.338	119	340168	57.60	ug/L		88
76)	dicyclopentadiene	15.411	66	494470	54.04	ug/L		96
77)	1,4-dichlorobenzene	15.435	146	244853	51.49	ug/L		93
78)	1,2-dichlorobenzene	15.971	146	234802	53.05	ug/L		95
79)	n-butylbenzene	15.940	91	292382	58.51	ug/L		96
80)	1,2-dibromo-3-chloropr...	17.053	75	22997	47.23	ug/L	#	65
81)	1,2,4-trichlorobenzene	18.014	180	97183	56.52	ug/L		89
82)	hexachlorobutadiene	18.172	225	57949	53.68	ug/L		96
83)	naphthalene	18.269	128	158773	50.13	ug/L		100
84)	1,2,3-trichlorobenzene	18.519	180	82430	54.16	ug/L		95
85)	2-methylnaphthalene	19.340	142	21088	38.94	ug/L		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100703.D Vial: 3
Acq On : 7 Oct 2008 8:42 am Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 09:15:38 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100708\A100714.D Vial: 14
Acq On : 7 Oct 2008 2:56 pm Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 15:25:19 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	79	0.00
2	T	dichlorodifluoromethane	0.154	0.079	48.7#	41#	0.00
3	T,P	chloromethane	0.228	0.185	18.9	67	0.00
4	T,C	vinyl chloride	0.243	0.211	13.2	68	0.00
5	T	1,3-butadiene	0.282	0.298	-5.7	82	0.00
6	T	bromomethane	0.097	0.094	3.1	88	0.00
7	T	chloroethane	0.142	0.142	0.0	80	0.02
8	T	trichlorofluoromethane	0.445	0.413	7.2	70	0.01
9	T	acrolein	0.016	0.029	-81.3#	148	0.00
10	T,C	1,1-dichloroethene	0.232	0.220	5.2	73	0.01
11	T	acetone	0.117	0.132	-12.8	93	0.00
12	T	carbon disulfide	0.716	0.727	-1.5	78	0.00
13	T	methylene chloride	0.332	0.337	-1.5	84	0.00
14	T	acrylonitrile	0.130	0.227	-74.6#	143	0.00
15	T	trans-1,2-dichloroethene	0.261	0.269	-3.1	79	0.00
16	T	methyl-t-butyl ether	0.840	0.916	-9.0	85	0.00
17	T	acetonitrile	0.052	0.055	-5.8	91	0.00
18	T	hexane	0.301	0.328	-9.0	83	0.00
19	T,P	1,1-dichloroethane	0.529	0.559	-5.7	84	0.00
20	T	vinyl acetate	0.354	0.393	-11.0	84	0.00
21	T	cis-1,2-dichloroethene	0.300	0.310	-3.3	80	0.00
22	T	2,2-dichloropropane	0.421	0.425	-1.0	76	0.00
23	T	2-butanone	0.032	0.031	3.1	81	0.00
24	T	methyl acrylate	0.265	0.297	-12.1	86	0.00
25	T,C	chloroform	0.529	0.562	-6.2	85	0.00
26	S	dibromofluoromethane	0.308	0.333	-8.1	85	0.00
27	T	1,1,1-trichloroethane	0.439	0.440	-0.2	77	0.00
28	T	cyclohexane	0.395	0.422	-6.8	79	0.00
29	T	carbon tetrachloride	0.390	0.385	1.3	75	0.00
30	S	1,2-dichloroethane-d4	0.380	0.406	-6.8	85	0.00
31	T	benzene	1.060	1.088	-2.6	80	0.00
32	T	1,1-dichloropropene	0.360	0.351	2.5	75	0.00
33	T	1,2-dichloroethane	0.505	0.550	-8.9	86	0.00
34	T	trichloroethene	0.271	0.270	0.4	76	0.00
35	T	ethyl acrylate	0.363	0.382	-5.2	84	0.00
36	T,C	1,2-dichloropropane	0.315	0.338	-7.3	85	0.00
37	T	methyl methacrylate	0.304	0.332	-9.2	88	0.00
38	T	dibromomethane	0.206	0.230	-11.7	88	0.00
39	T	bromodichloromethane	0.431	0.478	-10.9	87	0.00
40	T	2-chloroethyl vinyl ether	0.139	0.146	-5.0	82	0.00
41	I	chlorobenzene-d5	1.000	1.000	0.0	84	0.00
42	T	cis-1,3-dichloropropene	0.558	0.568	-1.8	82	0.00
43	T	4-methyl-2-pentanone	0.383	0.400	-4.4	85	0.00
44	S	toluene-d8	1.261	1.249	1.0	83	0.00
45	T,C	toluene	0.767	0.754	1.7	81	0.00
46	T	1,1,2-trichloroethane	0.294	0.298	-1.4	86	0.00
47	T	1,3-dichloropropane	0.602	0.610	-1.3	85	0.00
48	T	tetrachloroethene	0.278	0.260	6.5	76	0.00
49	T	trans-1,3-dichloropropene	0.485	0.494	-1.9	82	0.00
50	T	2-hexanone	0.234	0.235	-0.4	83	0.00

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\A100708\A100714.D Vial: 14
Acq On : 7 Oct 2008 2:56 pm Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 15:25:19 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T	dibromochloromethane	0.393	0.401	-2.0	85	0.00
52	T	1,2-dibromoethane	0.354	0.365	-3.1	84	0.00
53	T,P	chlorobenzene	0.858	0.844	1.6	82	0.00
54	T	1,1,1,2-tetrachloroethane	0.355	0.359	-1.1	82	0.00
55	T,C	ethylbenzene	1.312	1.327	-1.1	80	0.00
56	T	m,p-xylene	0.498	0.513	-3.0	81	0.00
57	T	butyl acrylate	0.577	0.602	-4.3	83	0.00
58	T	o-xylene	0.491	0.508	-3.5	80	0.00
59	T	styrene	0.819	0.874	-6.7	82	0.00
60	T	isopropylbenzene	0.978	1.005	-2.8	77	0.00
61	T	bromobenzene	0.392	0.400	-2.0	82	0.00
62	T,P	bromoform	0.295	0.307	-4.1	84	0.00
63	S	4-bromofluorobenzene	0.465	0.483	-3.9	84	0.00
64	T	1,2,3-trichloropropane	0.380	0.391	-2.9	86	0.00
65	T	n-propylbenzene	1.299	1.367	-5.2	78	0.00
66	T	2-chlorotoluene	0.864	1.036	-19.9	94	0.19
67	T	4-chlorotoluene	0.957	1.036	-8.3	84	0.00
68	T	1,3,5-trimethylbenzene	0.877	0.937	-6.8	80	0.00
69	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
70	T,P	1,1,2,2-tetrachloroethane	0.806	0.781	3.1	87	0.00
71	T	tert-butylbenzene	1.307	1.304	0.2	76	0.00
72	T	sec-butylbenzene	1.863	1.886	-1.2	77	0.00
73	T	1,2,4-trimethylbenzene	1.711	1.744	-1.9	80	0.00
74	T	1,3-dichlorobenzene	1.118	1.127	-0.8	84	0.00
75	T	p-isopropyltoluene	1.485	1.542	-3.8	77	0.00
76	T	dicyclopentadiene	2.300	2.379	-3.4	86	0.00
77	T	1,4-dichlorobenzene	1.196	1.173	1.9	85	0.00
78	T	1,2-dichlorobenzene	1.113	1.134	-1.9	84	0.00
79	T	n-butylbenzene	1.256	1.280	-1.9	75	0.00
80	T	1,2-dibromo-3-chloropropane	0.122	0.120	1.6	86	0.00
81	T	1,2,4-trichlorobenzene	0.432	0.449	-3.9	77	0.00
82	T	hexachlorobutadiene	0.271	0.259	4.4	73	0.00
83	T	naphthalene	0.796	0.736	7.5	77	0.00
84	T	1,2,3-trichlorobenzene	0.383	0.394	-2.9	76	0.00
85	T	2-methylnaphthalene	0.136	0.090	33.8#	61	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100714.D Vial: 14
Acq On : 7 Oct 2008 2:56 pm Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 15:25:19 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.000	96	389398	50.00	ug/L	0.00
41) chlorobenzene-d5	11.537	117	339345	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.399	152	193205	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	129776	54.13	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	158217	53.52	ug/L	0.00
44) toluene-d8	9.250	98	423741	49.52	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	163817	51.94	ug/L	0.00
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.509	85	30735	25.67	ug/L	96
3) chloromethane	1.722	50	71846	40.52	ug/L	99
4) vinyl chloride	1.843	62	82223	43.39	ug/L	95
5) 1,3-butadiene	1.880	39	116002	52.91	ug/L	97
6) bromomethane	2.220	94	36610	48.28	ug/L	94
7) chloroethane	2.354	64	55179	50.00	ug/L	93
8) trichlorofluoromethane	2.646	101	160930	46.43	ug/L	98
9) acrolein	3.212	56	112170	901.23	ug/L	94
10) 1,1-dichloroethene	3.285	96	85481	47.40	ug/L #	80
11) acetone	3.406	43	51482	56.40	ug/L	88
12) carbon disulfide	3.534	76	282953	50.73	ug/L	99
13) methylene chloride	3.917	84	131281	50.73	ug/L	93
14) acrylonitrile	4.245	53	882488	869.65	ug/L	93
15) trans-1,2-dichloroethene	4.221	96	104718	51.56	ug/L	96
16) methyl-t-butyl ether	4.203	73	356865	54.56	ug/L	87
17) acetonitrile	3.765	41	212672	524.24	ug/L	95
18) hexane	4.507	57	127554	54.46	ug/L #	99
19) 1,1-dichloroethane	4.756	63	217745	52.81	ug/L	99
20) vinyl acetate	4.835	43	153120	55.57	ug/L	95
21) cis-1,2-dichloroethene	5.504	96	120716	51.70	ug/L #	87
22) 2,2-dichloropropane	5.462	77	165517	50.51	ug/L #	87
23) 2-butanone	5.553	72	12202	48.97	ug/L #	50
24) methyl acrylate	5.650	55	115549	55.89	ug/L #	96
25) chloroform	5.930	83	218926	53.11	ug/L	97
27) 1,1,1-trichloroethane	6.112	97	171306	50.06	ug/L	96
28) cyclohexane	6.143	56	164383	53.49	ug/L	93
29) carbon tetrachloride	6.319	117	150013	49.35	ug/L	97
31) benzene	6.611	78	423739	51.34	ug/L	98
32) 1,1-dichloropropene	6.331	75	136576	48.77	ug/L #	94
33) 1,2-dichloroethane	6.684	62	214298	54.46	ug/L	93
34) trichloroethene	7.505	95	105041	49.73	ug/L #	83
35) ethyl acrylate	7.681	55	148712	52.66	ug/L	98
36) 1,2-dichloropropane	7.833	63	131719	53.66	ug/L	88
37) methyl methacrylate	8.004	41	129308	54.67	ug/L	92
38) dibromomethane	8.028	93	89697	55.98	ug/L	90
39) bromodichloromethane	8.259	83	186150	55.45	ug/L	98
40) 2-chloroethyl vinyl ether	8.697	63	56683	52.20	ug/L	99
42) cis-1,3-dichloropropene	8.898	75	192635	50.90	ug/L	93
43) 4-methyl-2-pentanone	9.123	43	135573	52.12	ug/L #	93
45) toluene	9.354	92	255926	49.13	ug/L	97
46) 1,1,2-trichloroethane	10.047	83	101013	50.66	ug/L	95
47) 1,3-dichloropropane	10.296	76	207152	50.70	ug/L	98
48) tetrachloroethene	10.175	164	88377	46.89	ug/L	95

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100714.D Vial: 14
Acq On : 7 Oct 2008 2:56 pm Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 15:25:19 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

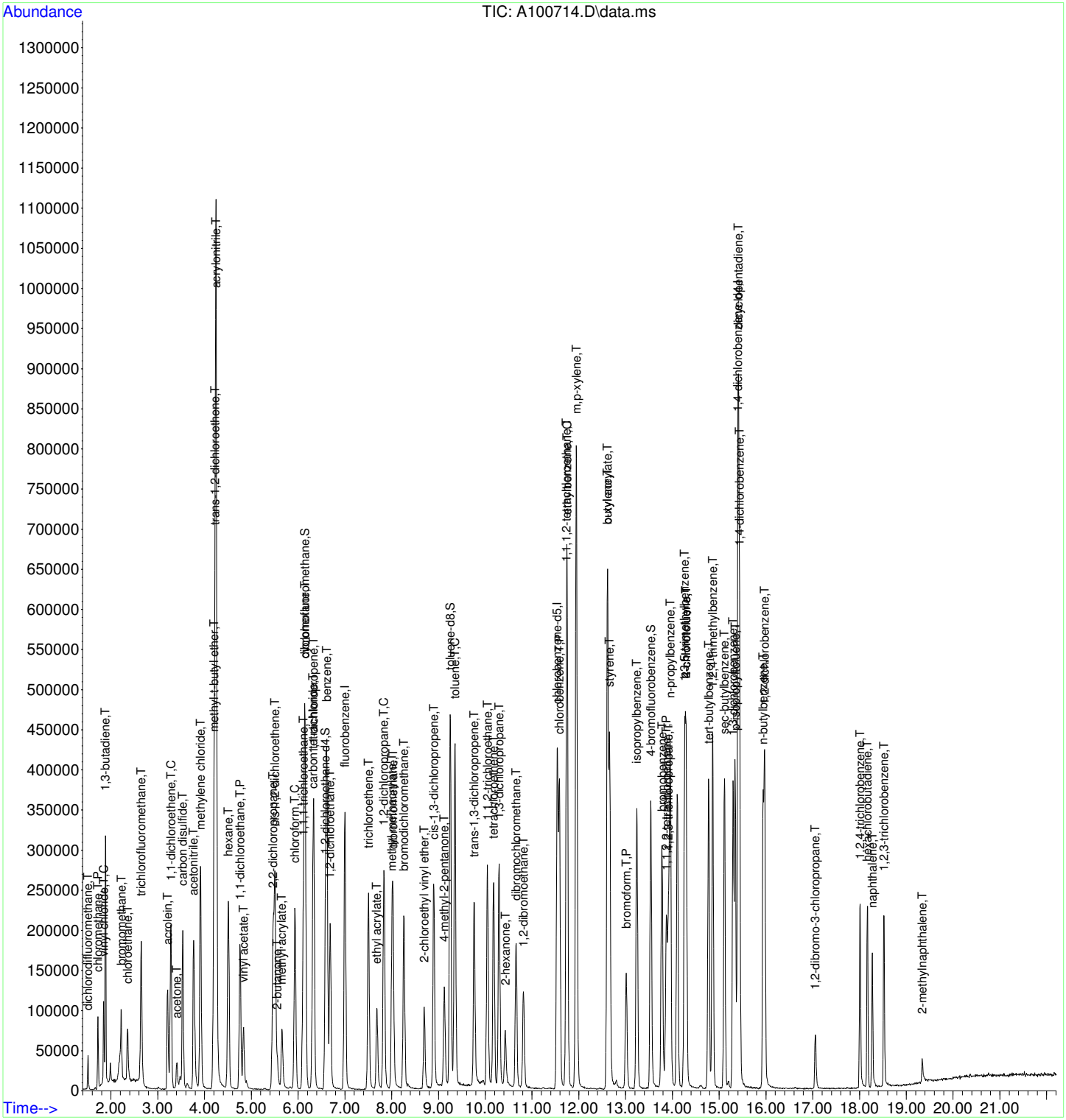
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
49) trans-1,3-dichloropropene	9.761	75	167566	50.96 ug/L	97
50) 2-hexanone	10.430	43	79620	50.16 ug/L	94
51) dibromochloromethane	10.655	129	135908	50.96 ug/L	92
52) 1,2-dibromoethane	10.819	107	123772	51.55 ug/L	98
53) chlorobenzene	11.586	112	286576	49.24 ug/L	85
54) 1,1,1,2-tetrachloroethane	11.738	131	121768	50.48 ug/L	96
55) ethylbenzene	11.750	91	450168	50.54 ug/L	90
56) m,p-xylene	11.951	106	348100	102.89 ug/L #	80
57) butyl acrylate	12.613	55	204419	52.19 ug/L	93
58) o-xylene	12.613	106	172399	51.78 ug/L #	83
59) styrene	12.656	104	296636	53.34 ug/L	86
60) isopropylbenzene	13.240	105	341061	51.37 ug/L	92
61) bromobenzene	13.781	156	135574	51.00 ug/L #	73
62) bromoform	13.015	173	104053	51.94 ug/L	94
64) 1,2,3-trichloropropane	13.915	75	132644	51.49 ug/L	89
65) n-propylbenzene	13.951	91	463907	52.64 ug/L	93
66) 2-chlorotoluene	14.292	91	351606	59.96 ug/L	92
67) 4-chlorotoluene	14.292	91	351606	54.16 ug/L #	85
68) 1,3,5-trimethylbenzene	14.261	105	317862	53.41 ug/L #	87
70) 1,1,2,2-tetrachloroethane	13.872	83	150918	48.45 ug/L	99
71) tert-butylbenzene	14.778	119	252000	49.88 ug/L #	82
72) sec-butylbenzene	15.113	105	364448	50.63 ug/L #	92
73) 1,2,4-trimethylbenzene	14.864	105	336943	50.96 ug/L	88
74) 1,3-dichlorobenzene	15.295	146	217773	50.41 ug/L	90
75) p-isopropyltoluene	15.344	119	297885	51.92 ug/L	89
76) dicyclopentadiene	15.411	66	459594	51.70 ug/L	94
77) 1,4-dichlorobenzene	15.435	146	226704	49.07 ug/L	94
78) 1,2-dichlorobenzene	15.970	146	219154	50.97 ug/L	94
79) n-butylbenzene	15.940	91	247353	50.95 ug/L	96
80) 1,2-dibromo-3-chloropr...	17.053	75	23138	48.92 ug/L #	65
81) 1,2,4-trichlorobenzene	18.014	180	86834	51.98 ug/L	95
82) hexachlorobutadiene	18.166	225	49961	47.64 ug/L	87
83) naphthalene	18.275	128	142104	46.19 ug/L	100
84) 1,2,3-trichlorobenzene	18.524	180	76099	51.47 ug/L	87
85) 2-methylnaphthalene	19.339	142	17379	33.04 ug/L #	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100714.D Vial: 14
Acq On : 7 Oct 2008 2:56 pm Operator: nlt
Sample : ,ccv,ccv-w-50 ppb,1, Inst : Instrument #1
Misc : 8260_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 15:25:19 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092627.D Vial: 27
Acq On : 26 Sep 2008 9:19 pm Operator: BR
Sample : ,SAMP,ME0809B67-01A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 27 5:47 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

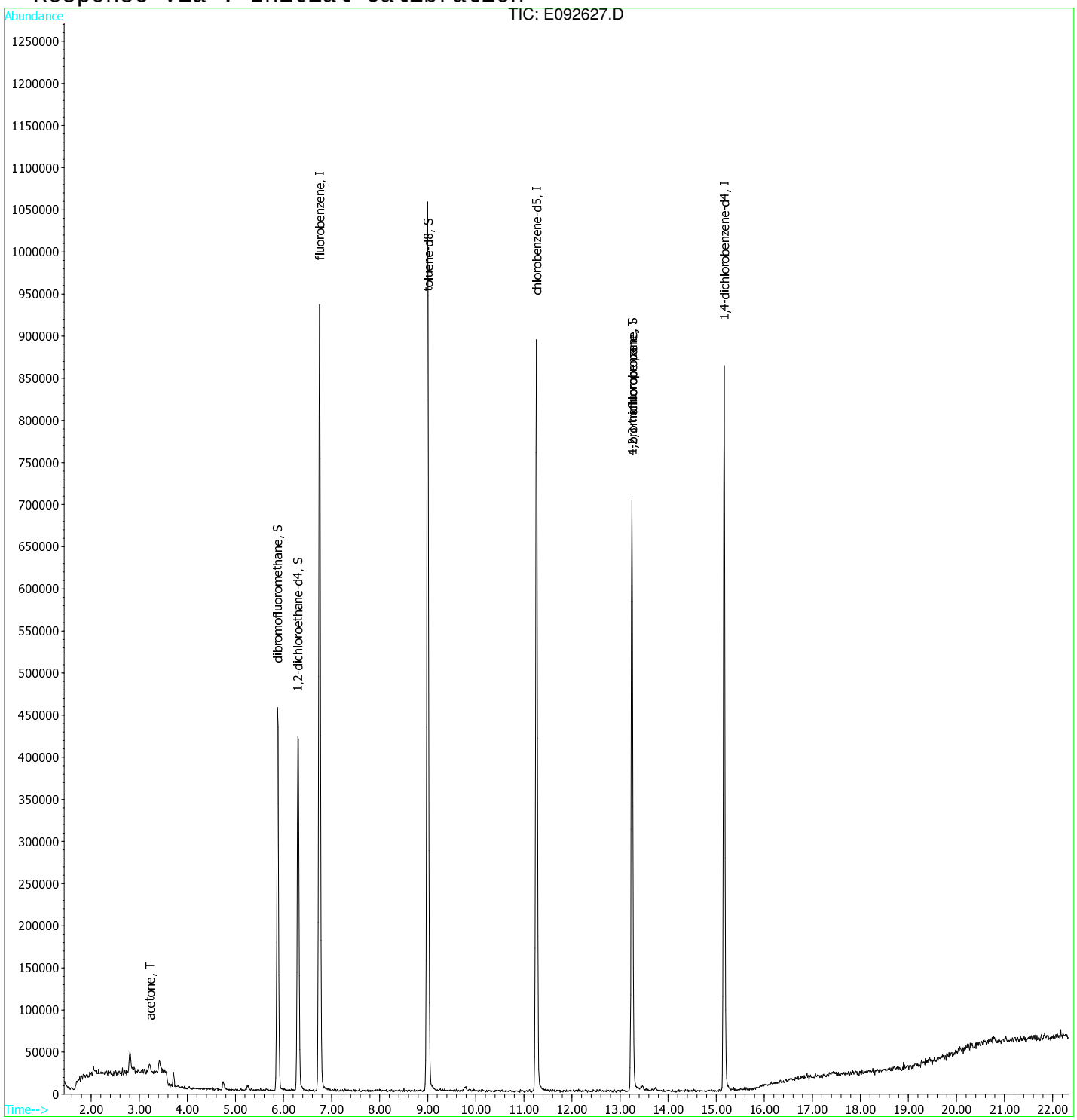
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1142899	50.00 ug/L	0.00
41) chlorobenzene-d5	11.26	117	746534	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.17	152	311252	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	362736	49.69 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.30	65	407989	58.38 ug/L	-0.02
44) toluene-d8	9.00	98	991506	55.77 ug/L	0.00
63) 4-bromofluorobenzene	13.25	95	360589	53.33 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.21	43	19139	7.66 ug/L	87
64) 1,2,3-trichloropropane	13.25	75	158770	27.92 ug/L #	47

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092627.D Vial: 27
Acq On : 26 Sep 2008 9:19 pm Operator: BR
Sample : ,SAMP,ME0809B67-01A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 27 5:47 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 26 Sep 2008 9:19 pm
Data File: C:\HPCHEM\4\DATA\E092608\E092627.D
Name: ,SAMP,ME0809B67-01A,1,
Misc: 8260+_W
Method: C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title: 8260_W 5ml ICAL 08/14/08-MISC Included
Library Searched: C:\DATABASE\nbs75k.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E092627.D WTR0814.M Thu Oct 09 14:48:02 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E092608\E092627.D Vial: 27
Acq On : 26 Sep 2008 9:19 pm Operator: BR
Sample : ,SAMP,ME0809B67-01A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

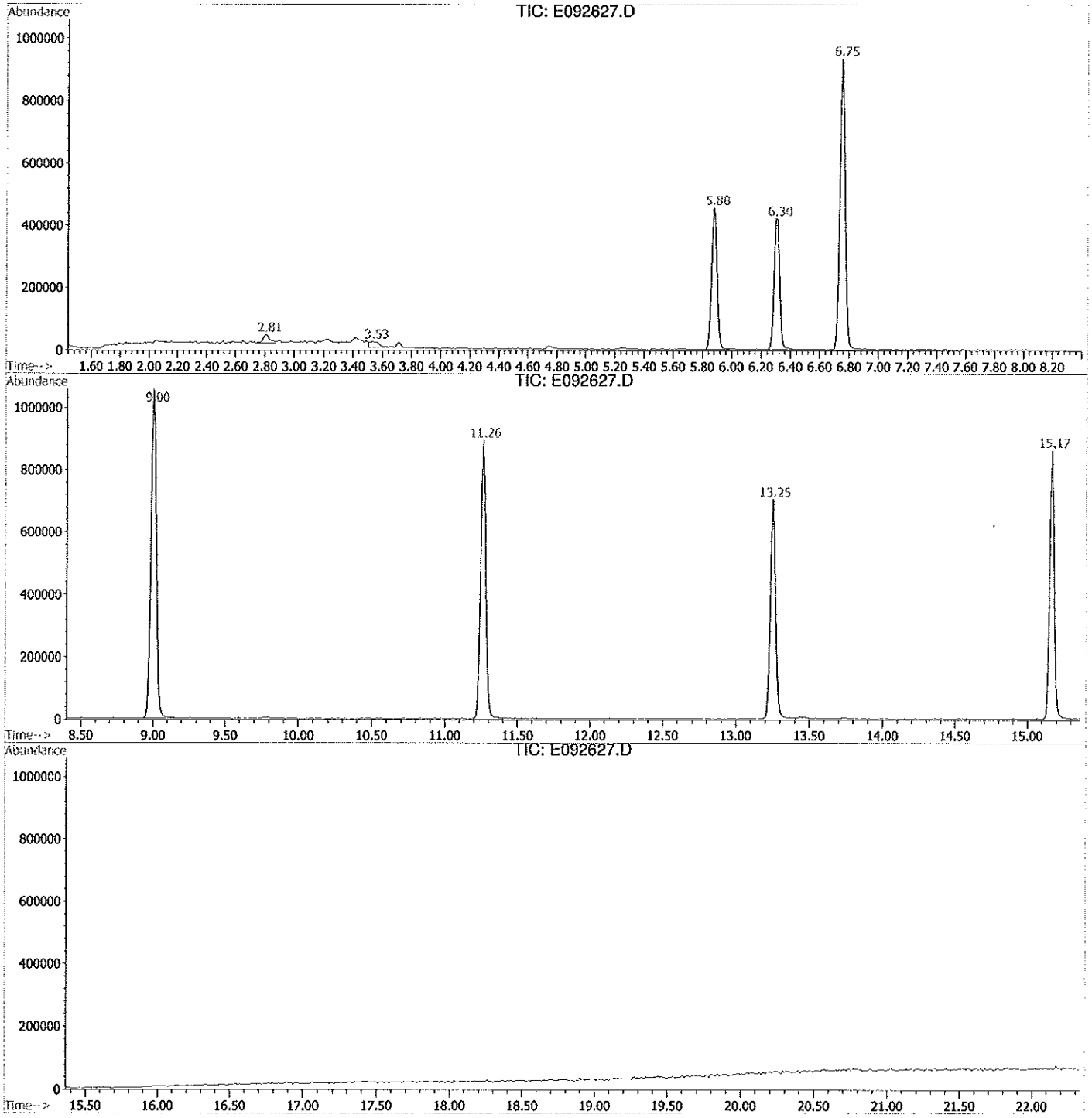
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	2.806	133	140	147	rBV	27569	95442	3.56%	0.715%
2	3.535	211	214	225	rVB5	20487	86853	3.24%	0.651%
3	5.877	442	452	463	rBV	455162	1185390	44.21%	8.882%
4	6.301	489	495	508	rBV	420322	1101580	41.09%	8.254%
5	6.754	530	541	550	rBV	934229	2346206	87.51%	17.580%
6	8.998	757	769	789	rBV	1055589	2681185	100.00%	20.090%
7	11.262	988	999	1013	rBV	893852	2235983	83.40%	16.754%
8	13.250	1190	1201	1217	rBV	702492	1751425	65.32%	13.123%
9	15.170	1388	1396	1410	rBV	862013	1861841	69.44%	13.951%

Sum of corrected areas: 13345905

E092627.D WTR0814.M Thu Oct 09 14:47:58 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E092608\E092627.D
Operator : BR
Acquired : 26 Sep 2008 9:19 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809B67-01A,1,
Misc Info : 8260+_W
Vial Number: 27
Quant File :WTR0814.RES (RTE Integrator)



E092627.D WTR0814.M Thu Oct 09 14:48:01 2008

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092608\E092628.D Vial: 28
Acq On : 26 Sep 2008 9:49 pm Operator: BR
Sample : ,SAMP,ME0809B67-02A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 27 5:48 2008 Quant Results File: WTR0814.RES

Quant Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

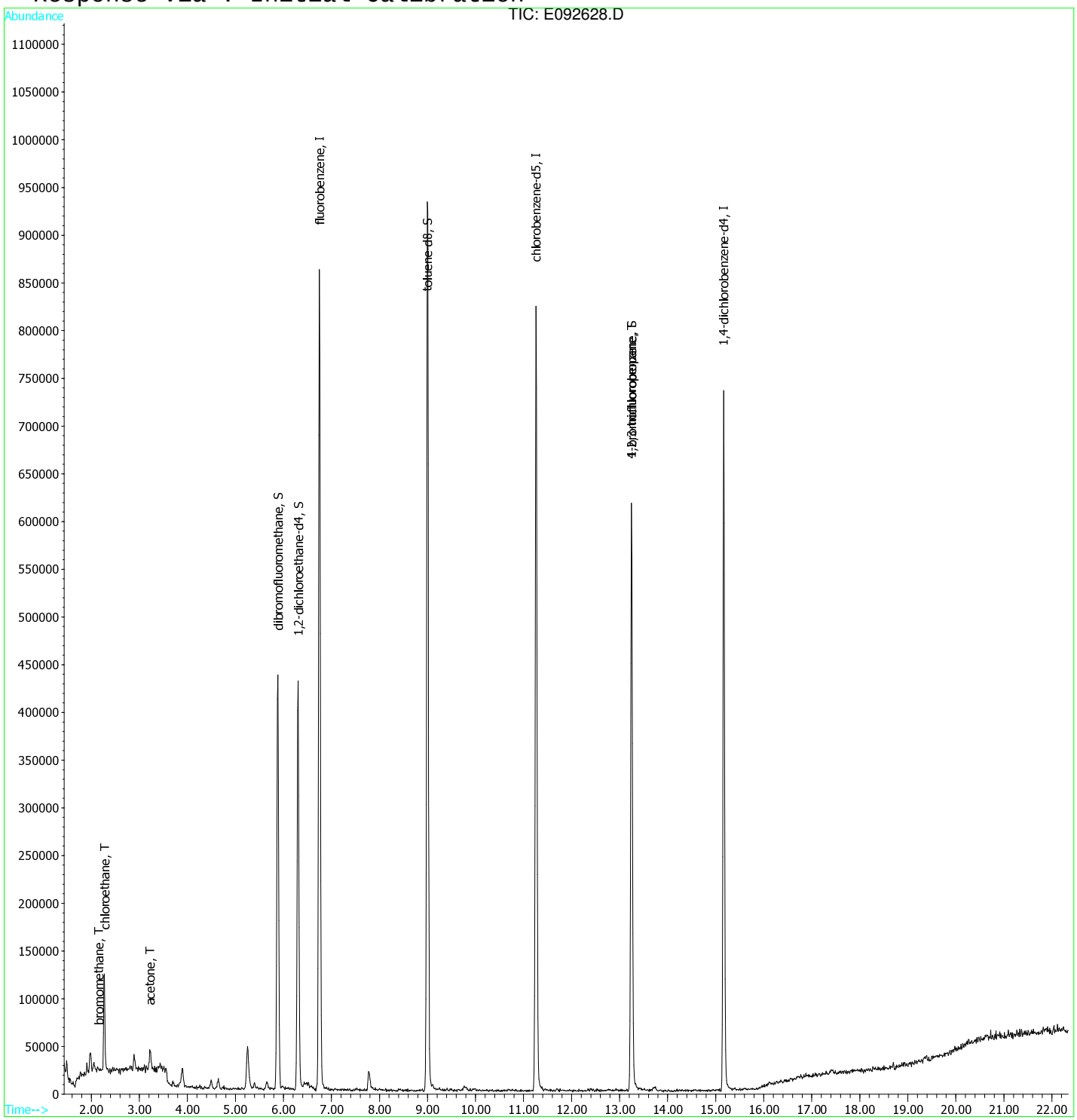
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	1043825	50.00 ug/L	-0.01
41) chlorobenzene-d5	11.26	117	683368	50.00 ug/L	-0.01
69) 1,4-dichlorobenzene-d4	15.17	152	262833	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	5.88	113	349926	52.48 ug/L	-0.01
30) 1,2-dichloroethane-d4	6.31	65	381988	59.85 ug/L	-0.01
44) toluene-d8	8.99	98	900066	55.31 ug/L	-0.01
63) 4-bromofluorobenzene	13.25	95	324365	52.41 ug/L	-0.01
Target Compounds					Qvalue
6) bromomethane	2.16	94	2842	1.88 ug/L #	47
7) chloroethane	2.27	64	94349	39.97 ug/L	96
11) acetone	3.22	43	14081	6.17 ug/L	85
64) 1,2,3-trichloropropane	13.25	75	135738	26.08 ug/L #	49

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092608\E092628.D Vial: 28
Acq On : 26 Sep 2008 9:49 pm Operator: BR
Sample : ,SAMP,ME0809B67-02A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 27 5:48 2008 Quant Results File: WTR0814.RES

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Last Update : Fri Aug 15 10:19:53 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 26 Sep 2008 9:49 pm
Data File: C:\HPCHEM\4\DATA\E092608\E092628.D
Name: ,SAMP,ME0809B67-02A,1,
Misc: 8260+_W
Method: C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title: 8260_W 5ml ICAL 08/14/08-MISC Included
Library Searched: C:\DATABASE\nbs75k.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E092628.D WTR0814.M Thu Oct 09 14:48:12 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E092608\E092628.D Vial: 28
Acq On : 26 Sep 2008 9:49 pm Operator: BR
Sample : ,SAMP,ME0809B67-02A,1, Inst : VOA5
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\WTR0814.M (RTE Integrator)
Title : 8260_W 5ml ICAL 08/14/08-MISC Included
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

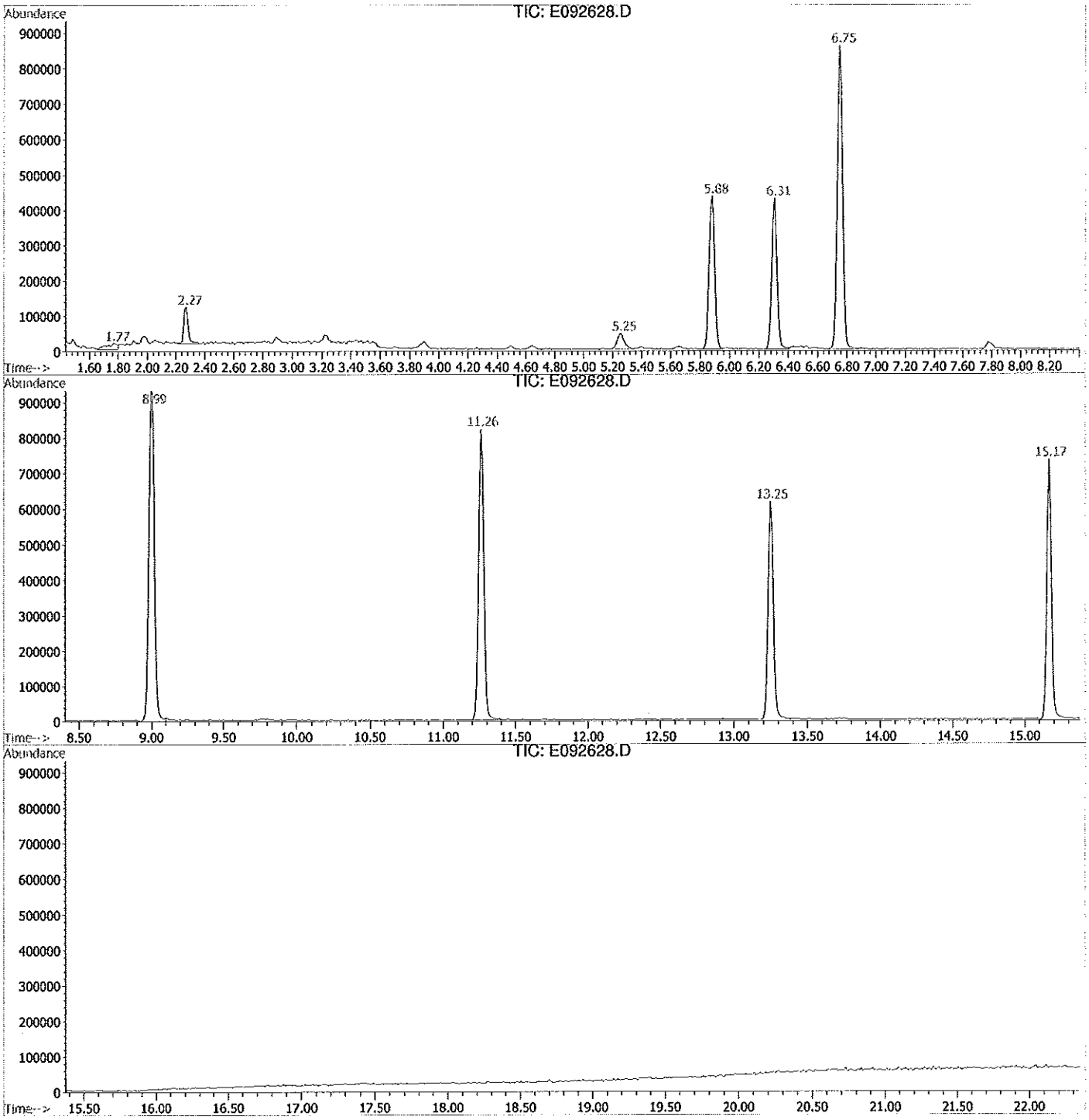
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.769	24	35	38	rBV7	16515	86030	3.52%	0.688%
2	2.271	80	86	96	rVB	103489	217771	8.90%	1.742%
3	5.253	381	389	398	rBV2	45140	152924	6.25%	1.224%
4	5.883	444	453	460	rBV	434636	1125506	46.02%	9.005%
5	6.307	488	496	506	rBV	428565	1067971	43.66%	8.545%
6	6.750	533	541	554	rBV	860736	2186681	89.40%	17.496%
7	8.994	761	769	780	rBV	931953	2445942	100.00%	19.571%
8	11.258	991	999	1015	rVB	822195	2036089	83.24%	16.291%
9	13.246	1193	1201	1215	rBV	616346	1550397	63.39%	12.405%
10	15.166	1389	1396	1414	rBV	734324	1628770	66.59%	13.032%

Sum of corrected areas: 12498081

E092628.D WTR0814.M Thu Oct 09 14:48:08 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E092608\E092628.D
Operator : BR
Acquired : 26 Sep 2008 9:49 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809B67-02A,1,
Misc Info : 8260+_W
Vial Number: 28
Quant File :WTR0814.RES (RTE Integrator)



E092628.D WTR0814.M Thu Oct 09 14:48:11 2008

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100324.D Vial: 24
Acq On : 3 Oct 2008 8:26 pm Operator: BR
Sample : ,SAMP,ME0809B67-03A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 21:10:09 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.995	96	377448	50.00	ug/L	0.00
41) chlorobenzene-d5	11.544	117	291996	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	113665	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.149	113	121263	52.18	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	150813	52.63	ug/L	0.00
44) toluene-d8	9.257	98	376902	51.19	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	115641	42.61	ug/L	0.00

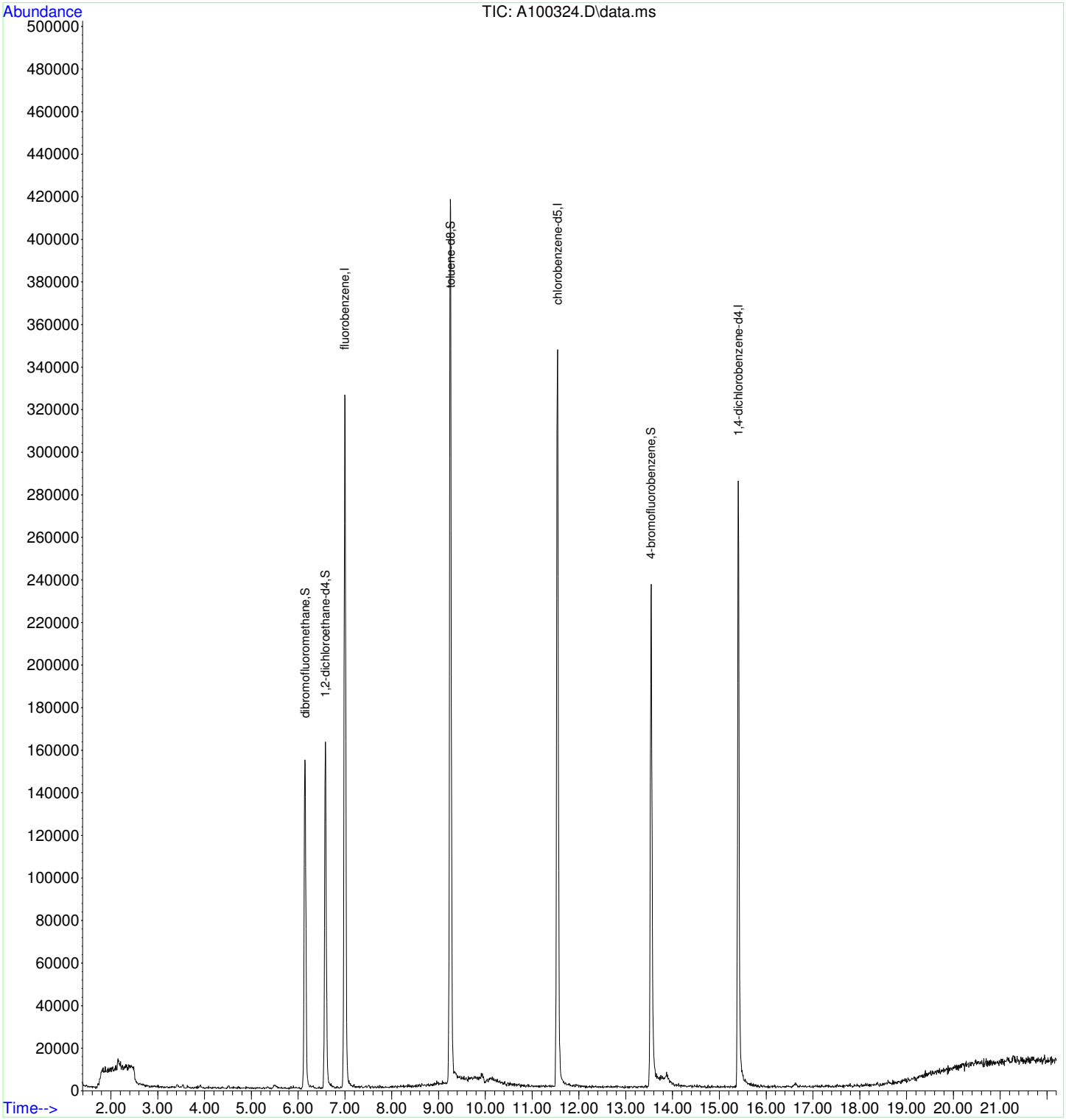
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100324.D Vial: 24
Acq On : 3 Oct 2008 8:26 pm Operator: BR
Sample : ,SAMP,ME0809B67-03A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 03 21:10:09 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100324.D
Acq On : 3 Oct 2008 8:26 pm
Operator : BR
Sample : ,SAMP,ME0809B67-03A,1,
Misc : 8260+_W
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100324.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.143	769	782	799	rBV	154801	414020	38.75%	8.323%
2	6.581	844	854	872	rBV2	162779	414629	38.81%	8.335%
3	6.995	911	922	936	rBV	325563	841727	78.78%	16.921%
4	9.251	1281	1293	1306	rBV	415729	1068393	100.00%	21.478%
5	11.544	1660	1670	1696	rBV	346246	926836	86.75%	18.632%
6	13.544	1988	1999	2016	rBV2	236094	636459	59.57%	12.795%
7	15.405	2294	2305	2328	rBV	285194	672398	62.94%	13.517%

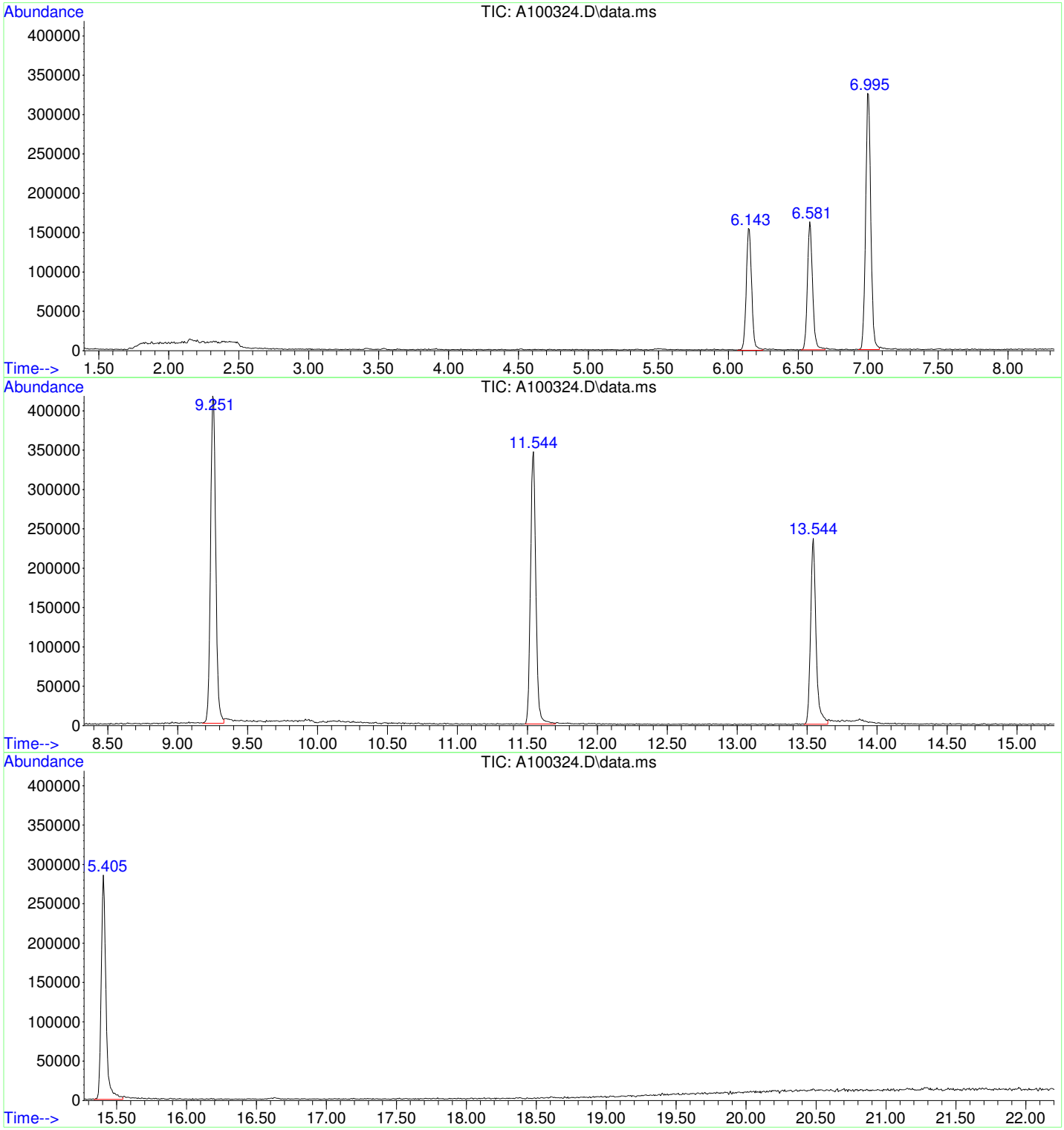
Sum of corrected areas: 4974462

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100324.D
Acq On : 3 Oct 2008 8:26 pm
Operator : BR
Sample : ,SAMP,ME0809B67-03A,1,
Misc : 8260+_W
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\\
  Data File : A100324.D
  Acq On    :  3 Oct 2008   8:26 pmm
  Operator  : BRR
  Sample    : ,SAMP,ME0809B67-03A,1,,
  Misc      : 8260+_WW
  ALS Vial  : 24   Sample Multiplier: 11

  Quant Method : C:\msdchem\1\METHODS\WTR1003.MM
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Includedd

  TIC Library   : C:\DATABASE\nbs75k.LL
  TIC Integration Parameters: RTEINT.PP

                                                      |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100325.D Vial: 25
Acq On : 3 Oct 2008 8:58 pm Operator: BR
Sample : ,SAMP,ME0809B67-04A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:36 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

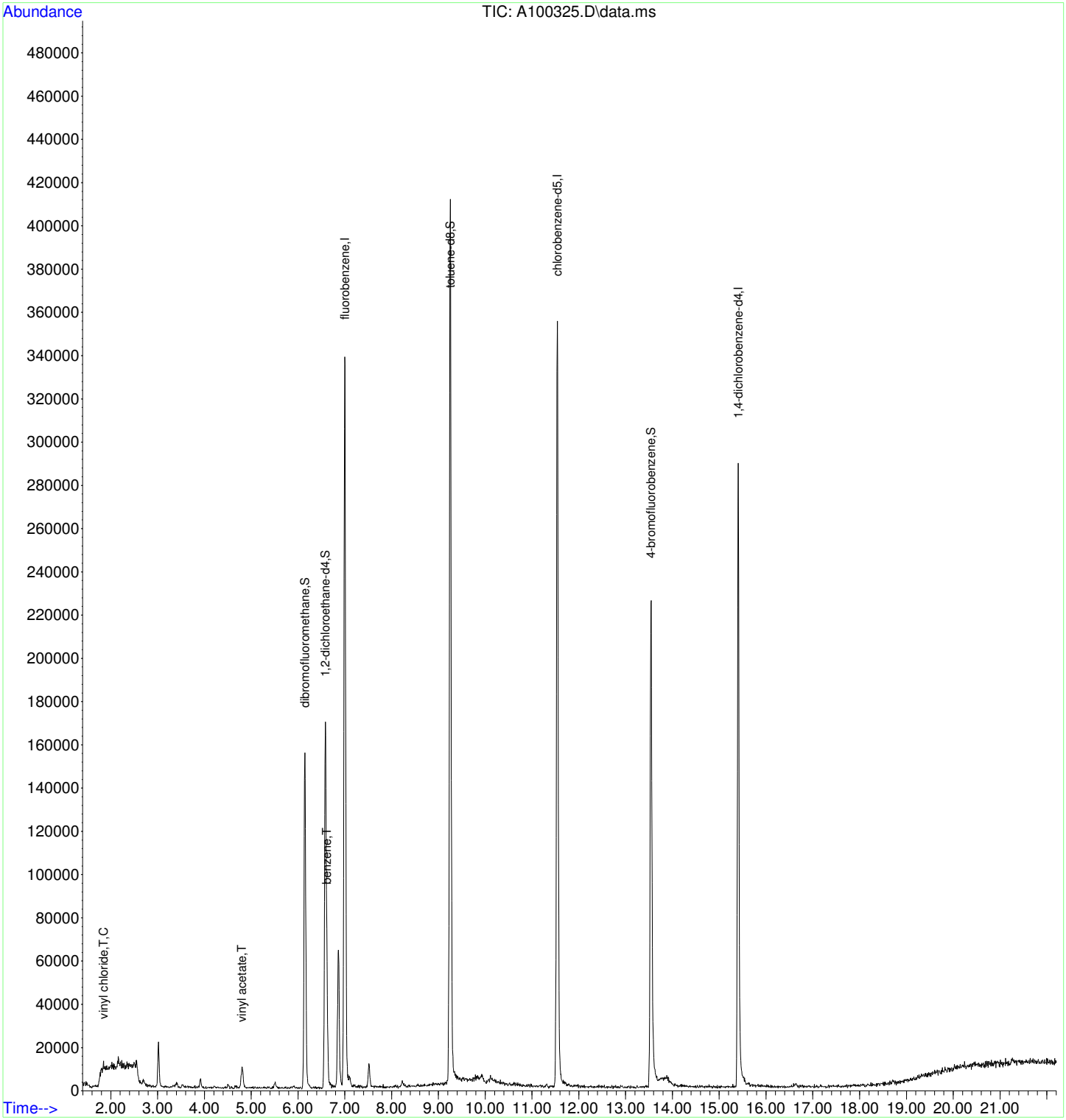
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.003	96	385360	50.00	ug/L	0.00
41) chlorobenzene-d5	11.540	117	287822	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.408	152	111021	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.146	113	118552	49.96	ug/L	0.00
30) 1,2-dichloroethane-d4	6.584	65	147738	50.50	ug/L	0.00
44) toluene-d8	9.253	98	366141	50.45	ug/L	0.00
63) 4-bromofluorobenzene	13.541	95	112494	42.05	ug/L	0.00
Target Compounds						Qvalue
4) vinyl chloride	1.840	62	2142	1.14	ug/L	96
20) vinyl acetate	4.802	43	6537	2.40	ug/L	75
31) benzene	6.614	78	47202	5.78	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100325.D Vial: 25
Acq On : 3 Oct 2008 8:58 pm Operator: BR
Sample : ,SAMP,ME0809B67-04A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:36 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100325.D
Acq On : 3 Oct 2008 8:58 pm
Operator : BR
Sample : ,SAMP,ME0809B67-04A,1,
Misc : 8260+_W
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100325.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.020	258	268	277	rBV	21008	45103	4.26%	0.848%
2	4.802	550	561	577	rBV4	10088	33091	3.13%	0.622%
3	6.146	771	782	802	rBV2	155598	403964	38.17%	7.596%
4	6.584	841	854	871	rBV2	169751	517052	48.85%	9.723%
5	6.864	888	900	911	rBV	63636	170138	16.08%	3.199%
6	6.997	911	922	937	rBV	336768	858201	81.09%	16.138%
7	9.253	1280	1293	1313	rBV	409482	1058348	100.00%	19.902%
8	11.540	1658	1669	1689	rBV	354249	918471	86.78%	17.272%
9	13.547	1987	1999	2022	rBV2	225244	641365	60.60%	12.061%
10	15.408	2296	2305	2334	rBV	288549	672059	63.50%	12.638%

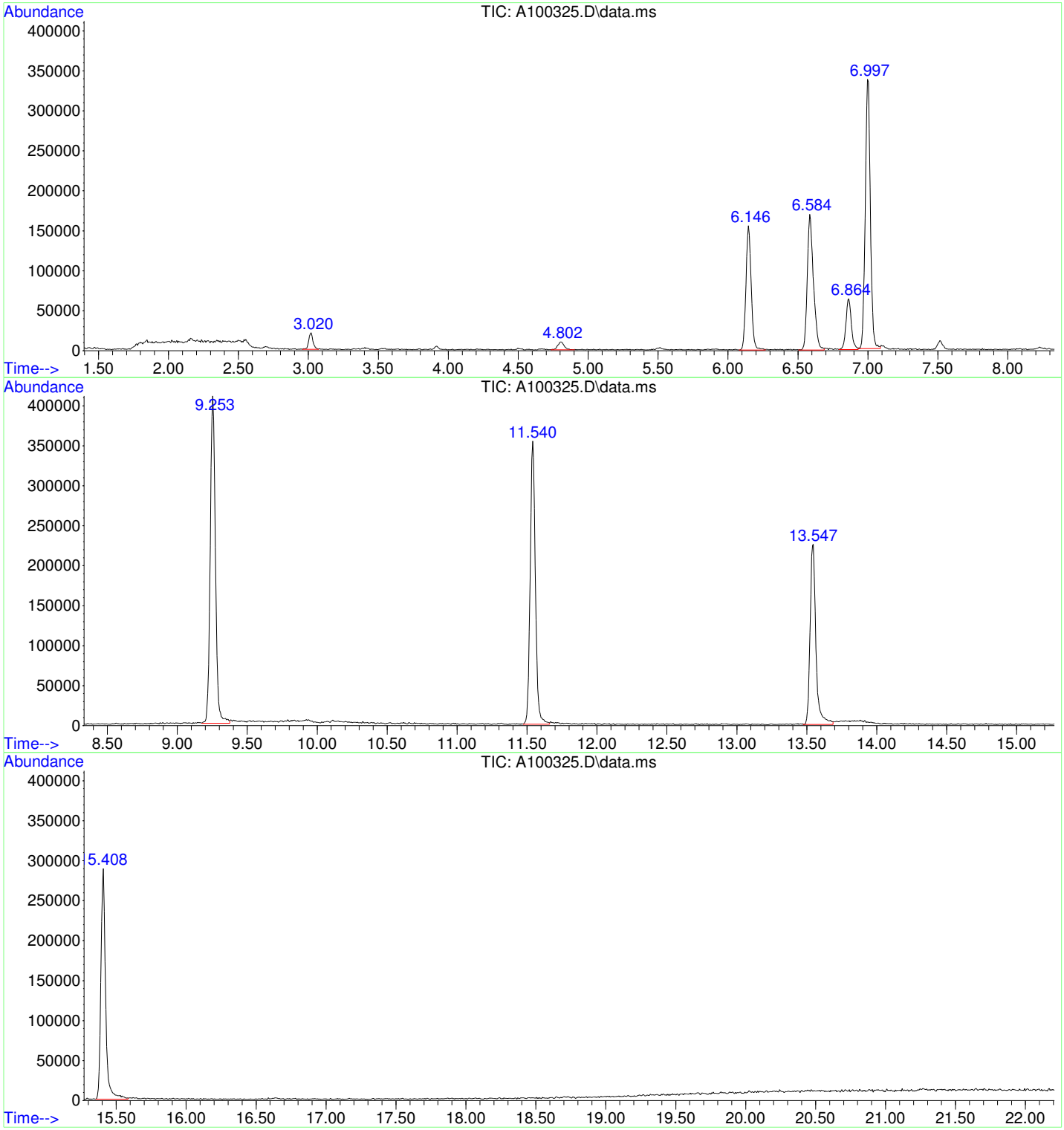
Sum of corrected areas: 5317792

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100325.D
Acq On : 3 Oct 2008 8:58 pm
Operator : BR
Sample : ,SAMP,ME0809B67-04A,1,
Misc : 8260+_W
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100325.D
Acq On    :  3 Oct 2008   8:58 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-04A,1,
Misc      : 8260+_W
ALS Vial  : 25   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

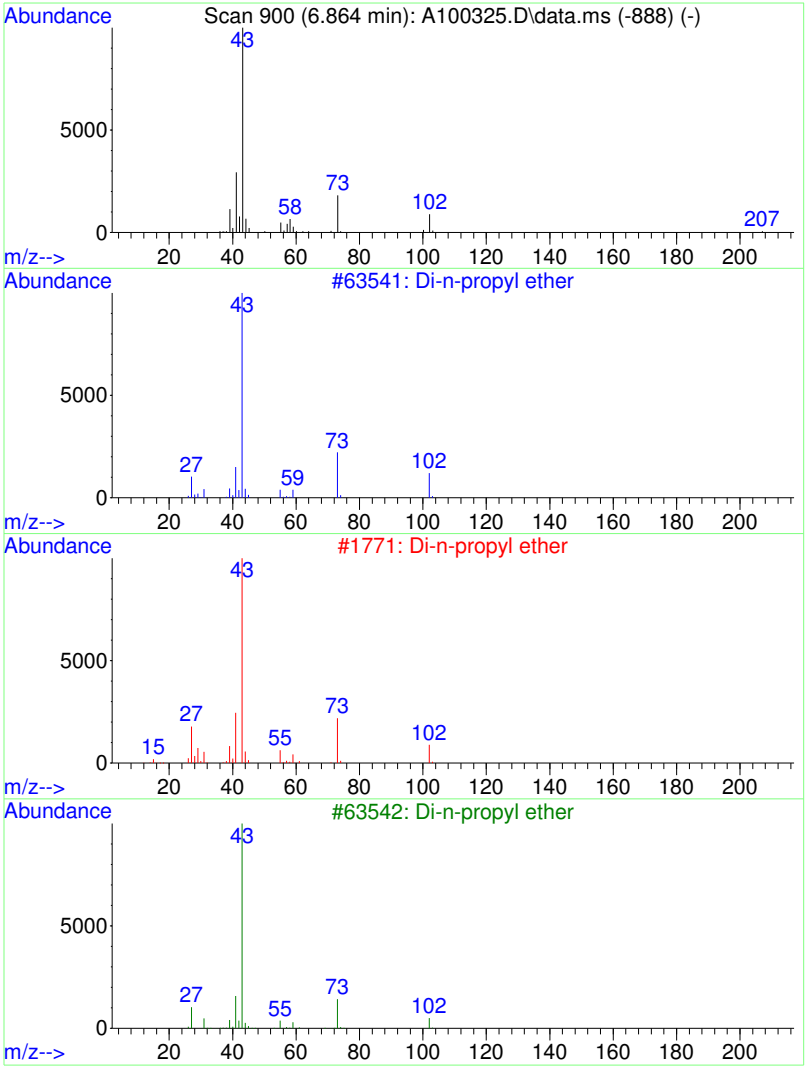
TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```

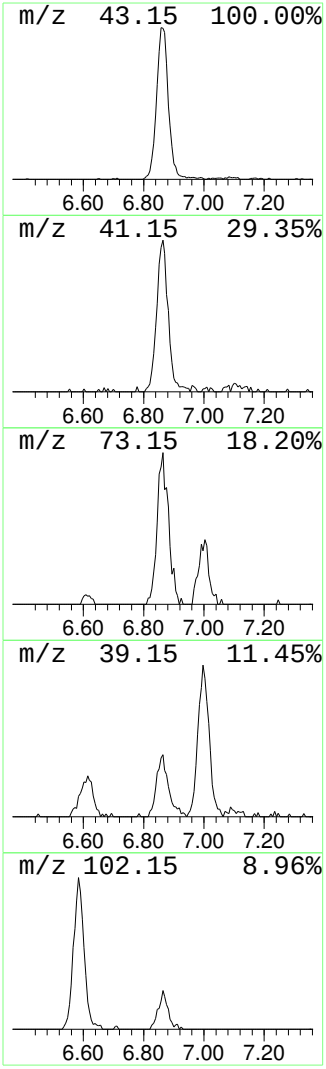
****

Peak Number 1 Di-n-propyl ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.864	9.91 ug/L	170138	fluorobenzene	7.003

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Di-n-propyl ether	102	C6H14O	000111-43-3	47
2	Di-n-propyl ether	102	C6H14O	000111-43-3	37
3	Di-n-propyl ether	102	C6H14O	000111-43-3	35
4	Isobutane	58	C4H10	000075-28-5	32
5	1-Propanamine, 2-methyl-	73	C4H11N	000078-81-9	32





Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\
  Data File : A100325.D
  Acq On    :  3 Oct 2008   8:58 pm
  Operator  : BR
  Sample    : ,SAMP,ME0809B67-04A,1,
  Misc      : 8260+_W
  ALS Vial  : 25   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\WTR1003.M
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

  TIC Library   : C:\DATABASE\nbs75k.L
  TIC Integration Parameters: RTEINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Di-n-propyl ether	6.864	9.9	ug/L	170138	1	7.003	858201	50.0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100326.D Vial: 26
Acq On : 3 Oct 2008 9:32 pm Operator: BR
Sample : ,SAMP,ME0809B67-05A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:42 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

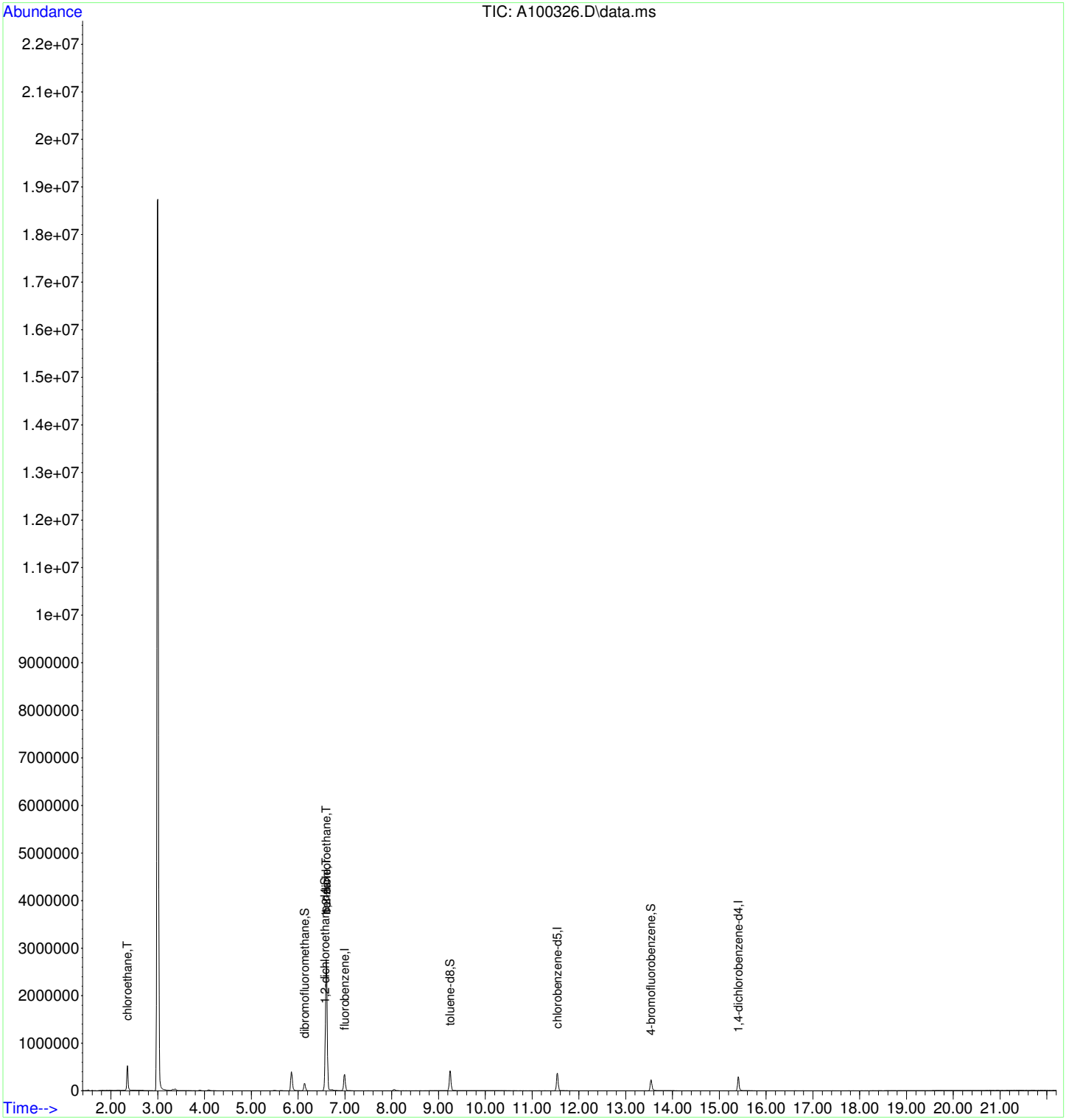
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.995	96	395156	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	302630	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.406	152	113434	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.138	113	119817	49.25	ug/L	0.00
30) 1,2-dichloroethane-d4	6.576	65	154911	51.64	ug/L	0.00
44) toluene-d8	9.245	98	380059	49.80	ug/L	0.00
63) 4-bromofluorobenzene	13.539	95	118019	41.96	ug/L	0.00
Target Compounds						Qvalue
7) chloroethane	2.349	64	406211	362.73	ug/L	93
31) benzene	6.600	78	2993302	357.38	ug/L	99
33) 1,2-dichloroethane	6.600	62	30135	7.55	ug/L	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100326.D Vial: 26
Acq On : 3 Oct 2008 9:32 pm Operator: BR
Sample : ,SAMP,ME0809B67-05A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:42 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100326.D
Acq On    :  3 Oct 2008   9:32 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-05A,1,
Misc      : 8260+_W
ALS Vial  : 26   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                              Filtering: 5
Sampling  : 1                                Min Area: 3 % of largest Peak
Start Thrs: 0.2                             Max Peaks: 100
Stop Thrs : 0                          Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\WTR1003.M
Title     : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal     : TIC: A100326.D\data.ms
```

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.000	254	265	307	rBV	18742377	40654641	100.00%	84.542%
2	6.600	843	857	874	rBV	2764988	7433339	18.28%	15.458%

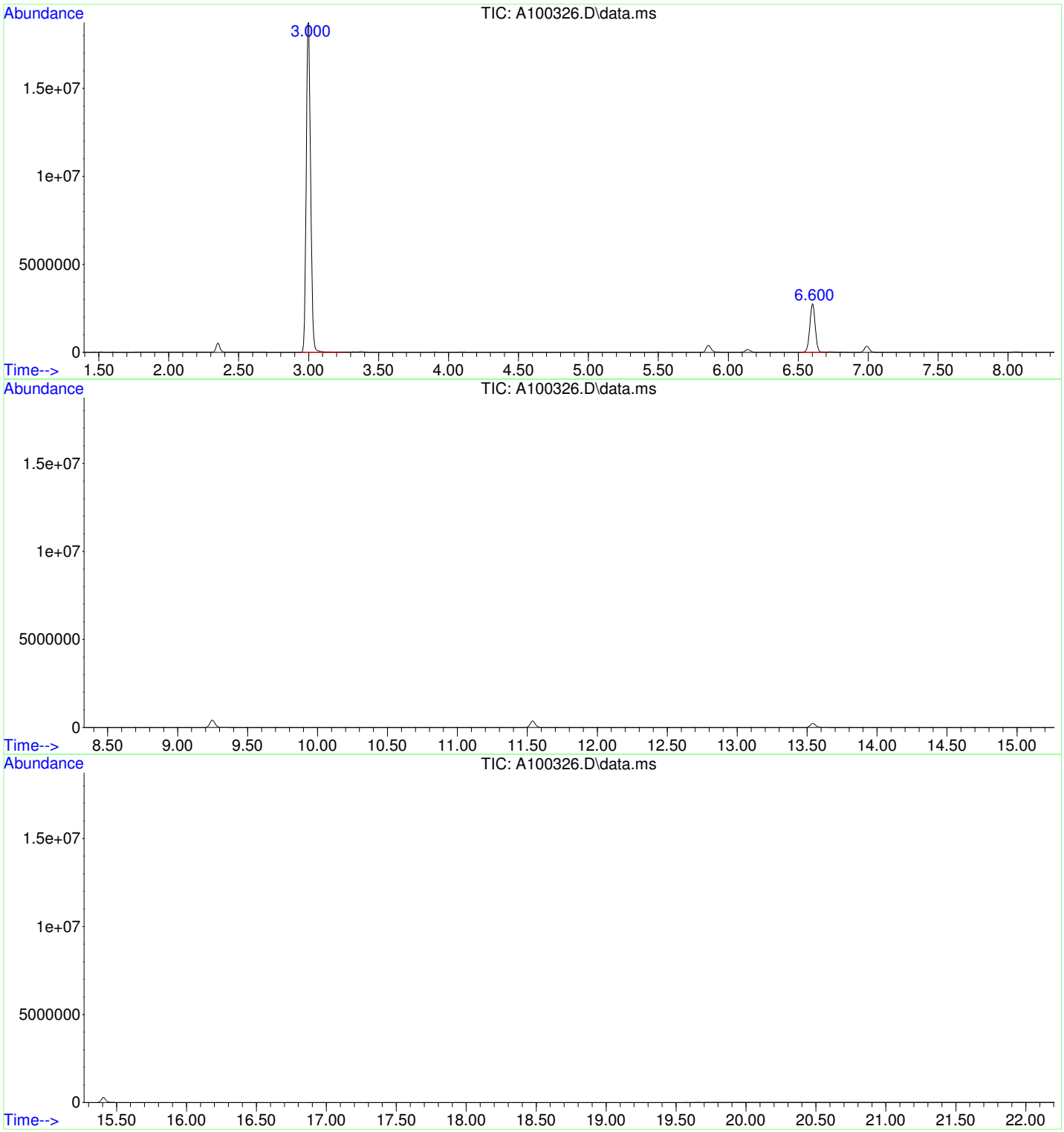
Sum of corrected areas: 48087980

LSC Report - Integrated Chromatogram

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100326.D
Acq On    :  3 Oct 2008   9:32 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-05A,1,
Misc      : 8260+_W
ALS Vial  : 26   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```



Library Search Compound Report

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100326.D
Acq On    :  3 Oct 2008   9:32 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-05A,1,
Misc      : 8260+_W
ALS Vial  : 26   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

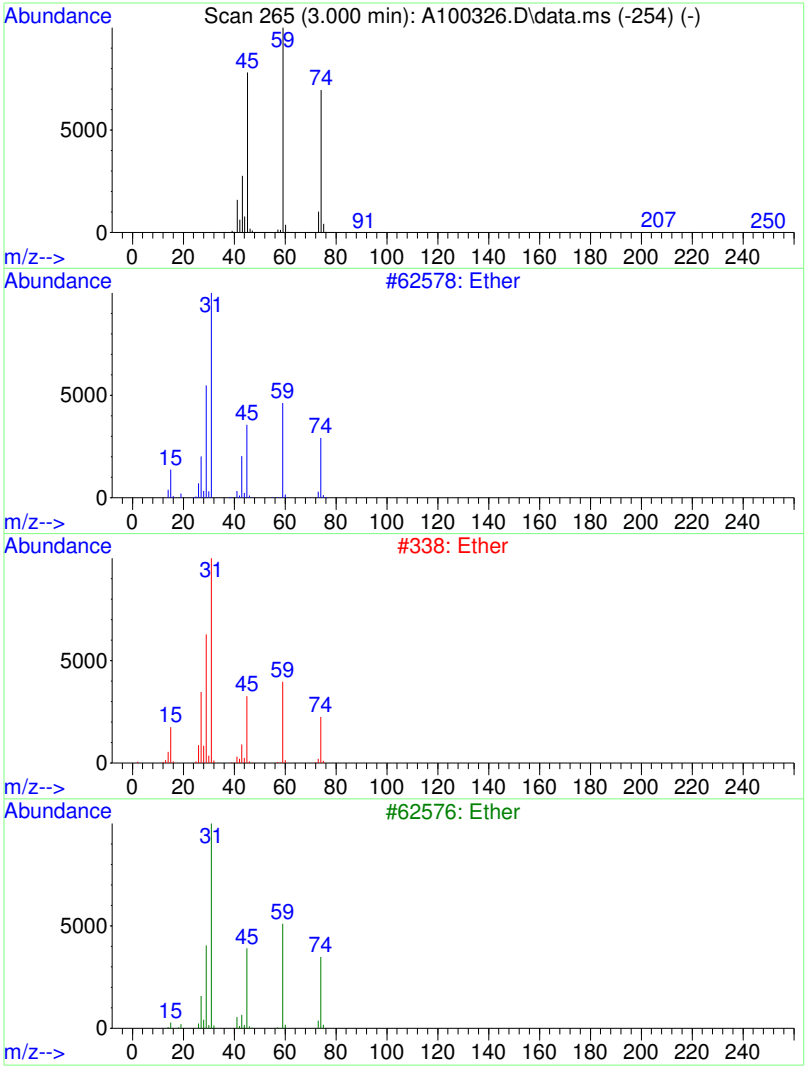
TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```

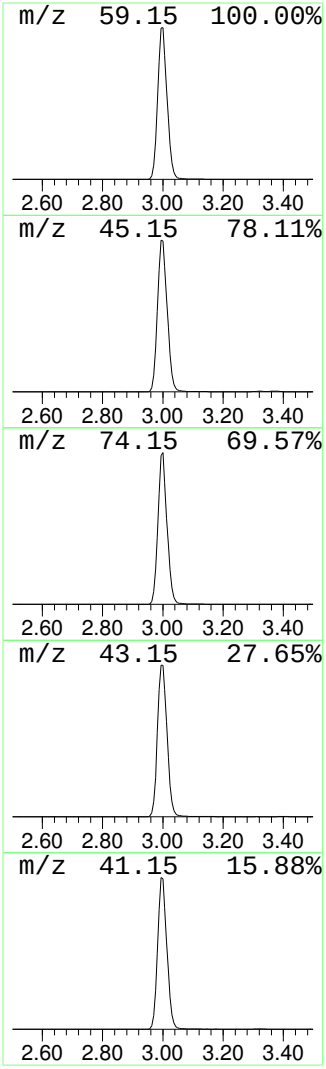
****

Peak Number 1 Ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.000	273.46 ug/L	40654600	fluorobenzene	6.995

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether	74	C4H10O	000060-29-7	90
2	Ether	74	C4H10O	000060-29-7	90
3	Ether	74	C4H10O	000060-29-7	90
4	Ether	74	C4H10O	000060-29-7	90
5	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	42





Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\
  Data File : A100326.D
  Acq On    :  3 Oct 2008   9:32 pm
  Operator  : BR
  Sample    : ,SAMP,ME0809B67-05A,1,
  Misc      : 8260+_W
  ALS Vial  : 26   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\WTR1003.M
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

  TIC Library   : C:\DATABASE\nbs75k.L
  TIC Integration Parameters: RTEINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ether	3.000	273.5	ug/L	40654600	1	6.995	7433340	50.0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100408\D100410.D Vial: 10
Acq On : 4 Oct 2008 12:55 pm Operator: BR
Sample : ,SAMP,ME0809B67-05A,10,RA, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 13:42 2008 Quant Results File: VOA0818.RES

Quant Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

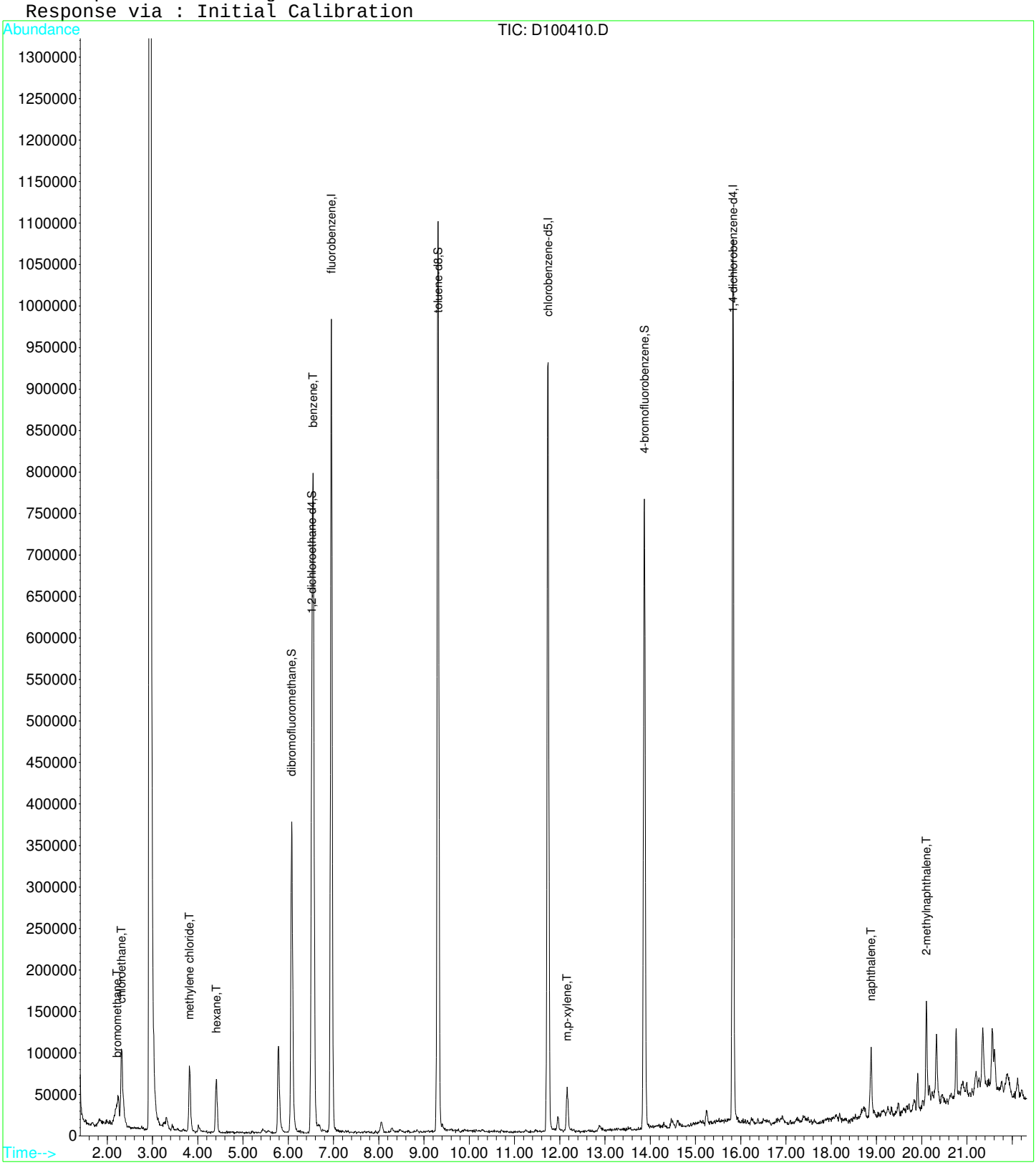
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.95	96	1138875	50.00 ug/L	-0.02
41) chlorobenzene-d5	11.74	117	784547	50.00 ug/L	-0.02
69) 1,4-dichlorobenzene-d4	15.82	152	382269	50.00 ug/L	-0.03
System Monitoring Compounds					
26) dibromofluoromethane	6.08	113	331359	51.63 ug/L	-0.02
30) 1,2-dichloroethane-d4	6.52	65	412124	46.94 ug/L	-0.03
44) toluene-d8	9.31	98	1033968	50.81 ug/L	-0.02
63) 4-bromofluorobenzene	13.86	95	434922	47.87 ug/L	-0.03
Target Compounds					Qvalue
6) bromomethane	2.22	94	911	8.48 ug/L #	69
7) chloroethane	2.32	64	127106	28.46 ug/L	86
13) methylene chloride	3.81	84	46031	5.78 ug/L	97
18) hexane	4.40	57	40018	3.50 ug/L #	96
31) benzene	6.55	78	779040	34.09 ug/L	99
56) m,p-xylene	12.16	106	23292	2.36 ug/L #	85
83) naphthalene	18.88	128	71441	3.65 ug/L	100
85) 2-methylnaphthalene	20.11	142	88700	8.13 ug/L	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100408\D100410.D Vial: 10
Acq On : 4 Oct 2008 12:55 pm Operator: BR
Sample : ,SAMP,ME0809B67-05A,10,RA, Inst : VOA 4
Misc : 8260+_W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 4 13:42 2008 Quant Results File: VOA0818.RES

Method : C:\HPCHEM\1\METHODS\VOA0818.M (RTE Integrator)
Title : VOA ICAL 08/18/08
Last Update : Tue Aug 19 08:18:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100327.D Vial: 27
Acq On : 3 Oct 2008 10:04 pm Operator: BR
Sample : ,SAMP,ME0809B67-06A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:48 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.994	96	363105	50.00	ug/L	0.00
41) chlorobenzene-d5	11.543	117	285390	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	108281	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.149	113	119269	53.35	ug/L	0.00
30) 1,2-dichloroethane-d4	6.580	65	151757	55.05	ug/L	0.00
44) toluene-d8	9.250	98	360843	50.14	ug/L	0.00
63) 4-bromofluorobenzene	13.544	95	110332	41.60	ug/L	0.00

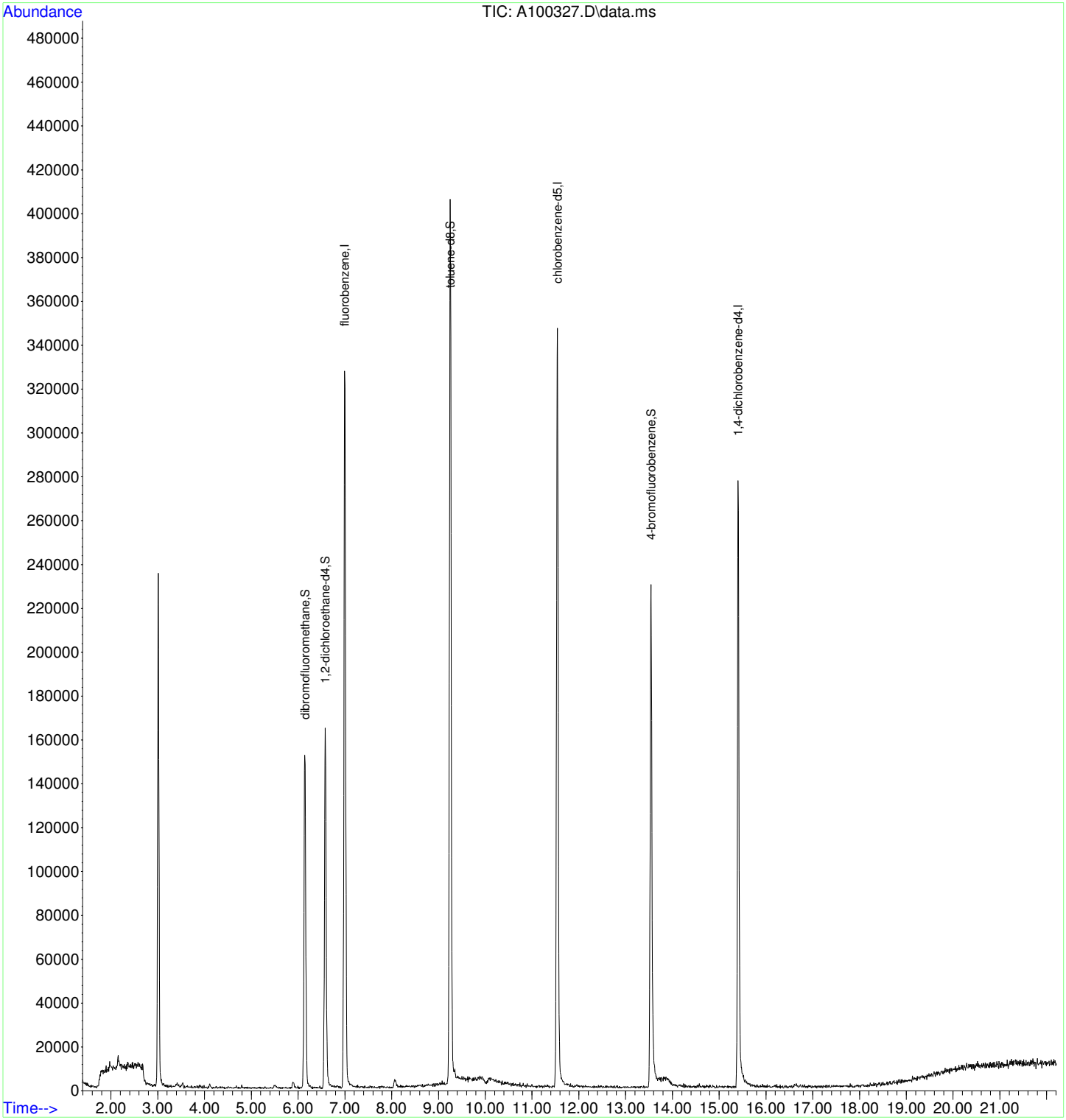
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100327.D Vial: 27
Acq On : 3 Oct 2008 10:04 pm Operator: BR
Sample : ,SAMP,ME0809B67-06A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:48 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100327.D
Acq On : 3 Oct 2008 10:04 pm
Operator : BR
Sample : ,SAMP,ME0809B67-06A,1,
Misc : 8260+_W
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100327.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.011	258	267	282	rBV	234102	477991	46.43%	8.936%
2	6.143	770	782	798	rBV2	151957	402137	39.06%	7.518%
3	6.581	844	854	870	rBV	164475	416799	40.48%	7.792%
4	6.994	910	922	940	rBV	327189	823523	79.99%	15.395%
5	9.250	1282	1293	1306	rBV	403489	1029585	100.00%	19.248%
6	11.543	1659	1670	1696	rBV	346250	910424	88.43%	17.020%
7	13.544	1988	1999	2022	rBV	229560	628893	61.08%	11.757%
8	15.405	2295	2305	2328	rBV	276432	659825	64.09%	12.335%

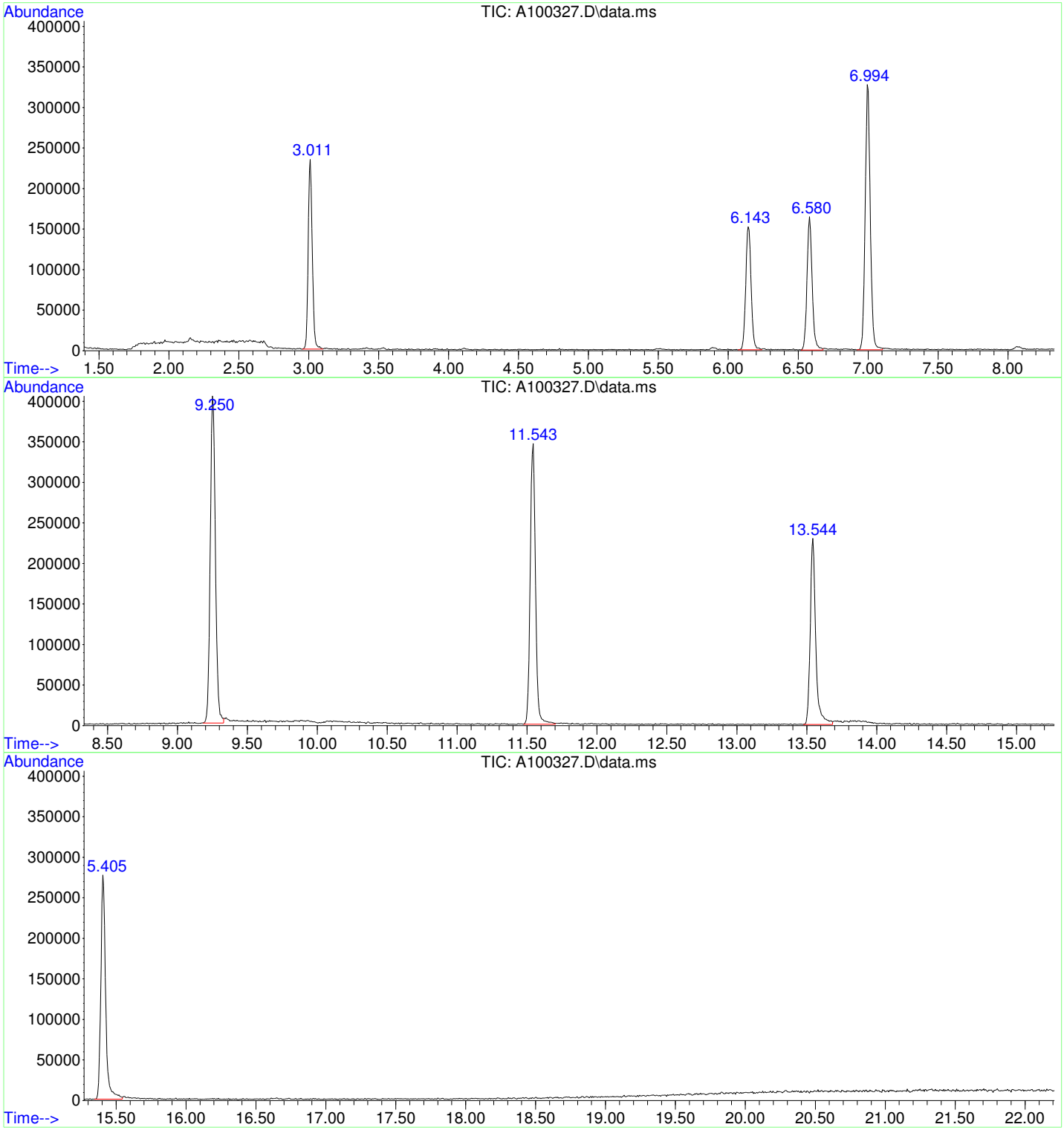
Sum of corrected areas: 5349177

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100327.D
Acq On : 3 Oct 2008 10:04 pm
Operator : BR
Sample : ,SAMP,ME0809B67-06A,1,
Misc : 8260+_W
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100327.D
Acq On    :  3 Oct 2008  10:04 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-06A,1,
Misc      : 8260+_W
ALS Vial  : 27   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

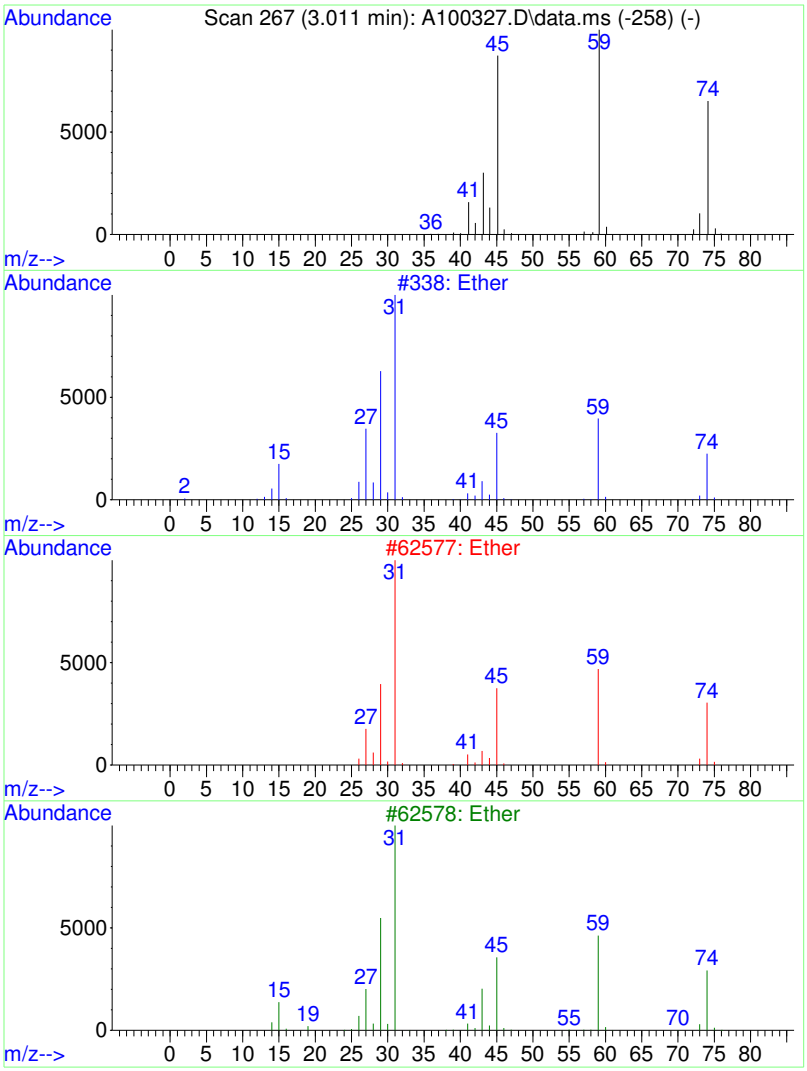
TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```

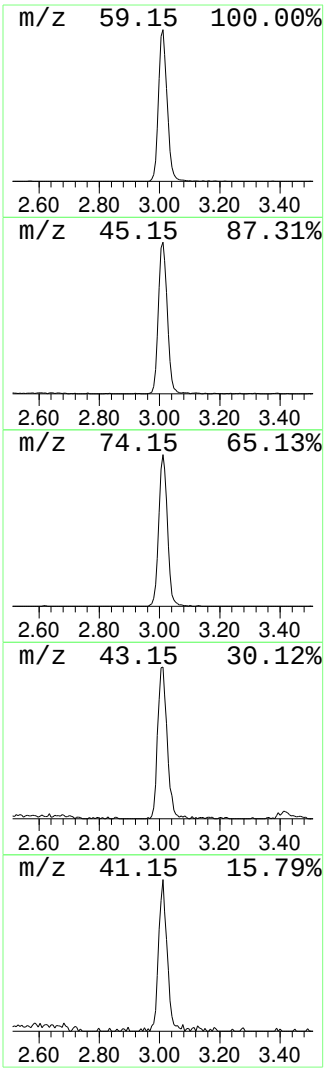
****

Peak Number 1 Ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.011	29.02 ug/L	477991	fluorobenzene	6.994

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether	74	C4H10O	000060-29-7	90
2	Ether	74	C4H10O	000060-29-7	90
3	Ether	74	C4H10O	000060-29-7	86
4	Ether	74	C4H10O	000060-29-7	86
5	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	56





Tentatively Identified Compound (LSC) summary

Data Path : D:\msdchem\1\data\A100308\
Data File : A100327.D
Acq On : 3 Oct 2008 10:04 pm
Operator : BR
Sample : ,SAMP,ME0809B67-06A,1,
Misc : 8260+_W
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ether	3.011	29.0	ug/L	477991	1	6.994	823523	50.0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100328.D Vial: 28
Acq On : 3 Oct 2008 10:38 pm Operator: BR
Sample : ,SAMP,ME0809B67-07A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

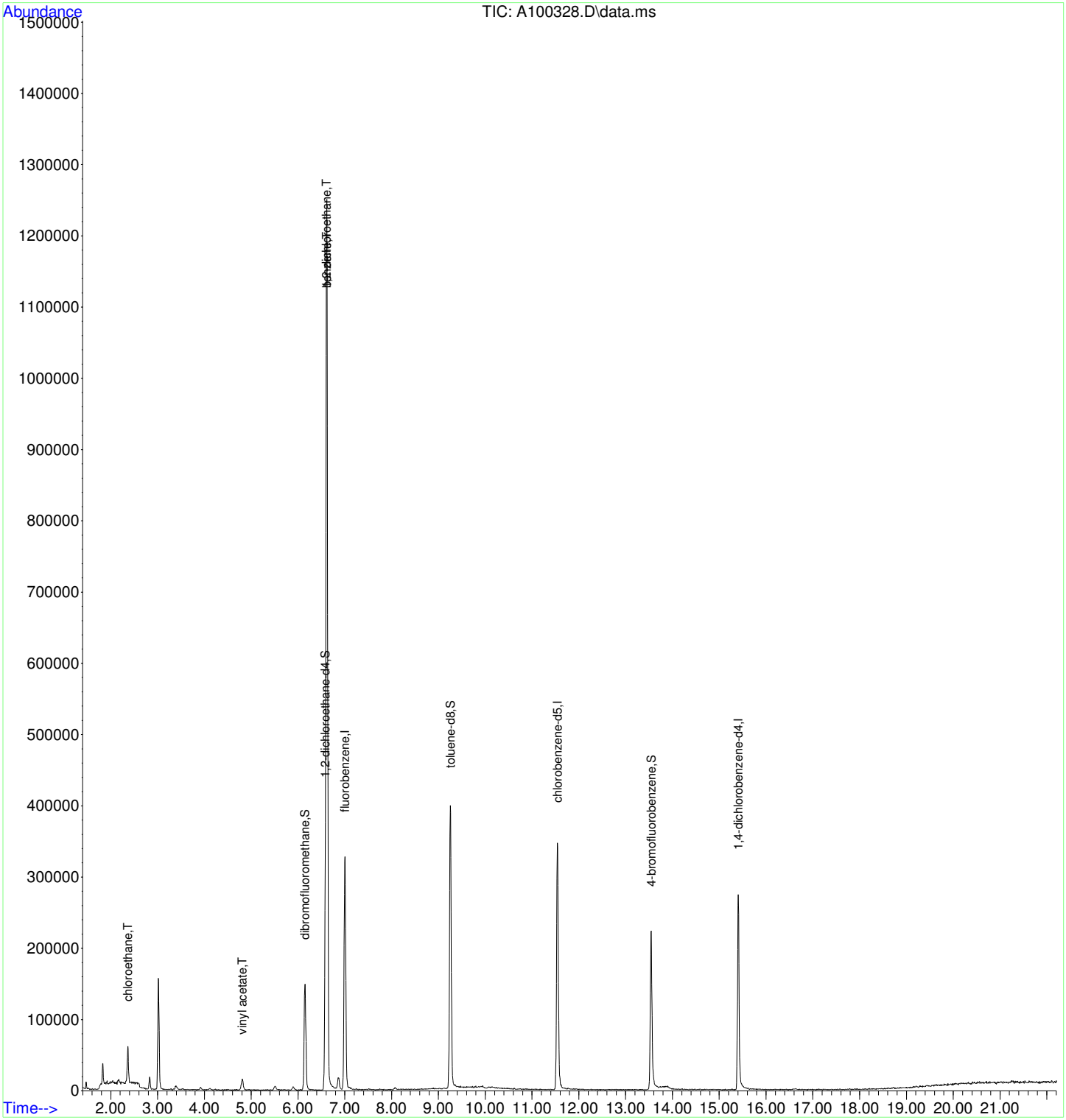
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.003	96	370664	50.00	ug/L	0.00
41) chlorobenzene-d5	11.546	117	282994	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.407	152	108266	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.145	113	115723	50.71	ug/L	0.00
30) 1,2-dichloroethane-d4	6.583	65	147346	52.36	ug/L	0.00
44) toluene-d8	9.259	98	350875	49.17	ug/L	0.00
63) 4-bromofluorobenzene	13.546	95	105769	40.21	ug/L	0.00
Target Compounds						Qvalue
7) chloroethane	2.363	64	38525	36.67	ug/L	89
20) vinyl acetate	4.808	43	10103	3.85	ug/L	75
31) benzene	6.614	78	1321850	168.25	ug/L	99
33) 1,2-dichloroethane	6.608	62	12974	3.46	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100328.D Vial: 28
Acq On : 3 Oct 2008 10:38 pm Operator: BR
Sample : ,SAMP,ME0809B67-07A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:15:54 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100328.D
Acq On : 3 Oct 2008 10:38 pm
Operator : BR
Sample : ,SAMP,ME0809B67-07A,1,
Misc : 8260+_W
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100328.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.363	151	160	167	rBV	52412	106841	3.07%	1.283%
2	3.014	257	267	283	rBV2	156081	321931	9.24%	3.867%
3	6.152	772	783	800	rBV	148610	394814	11.33%	4.742%
4	6.614	840	859	879	rBV	1250552	3485737	100.00%	41.870%
5	7.003	912	923	934	rBV	326797	830381	23.82%	9.974%
6	9.253	1281	1293	1307	rBV2	397408	1014225	29.10%	12.183%
7	11.540	1657	1669	1690	rBV	346573	905517	25.98%	10.877%
8	13.546	1981	1999	2018	rBV	223177	613335	17.60%	7.367%
9	15.407	2294	2305	2331	rBV	274222	652366	18.72%	7.836%

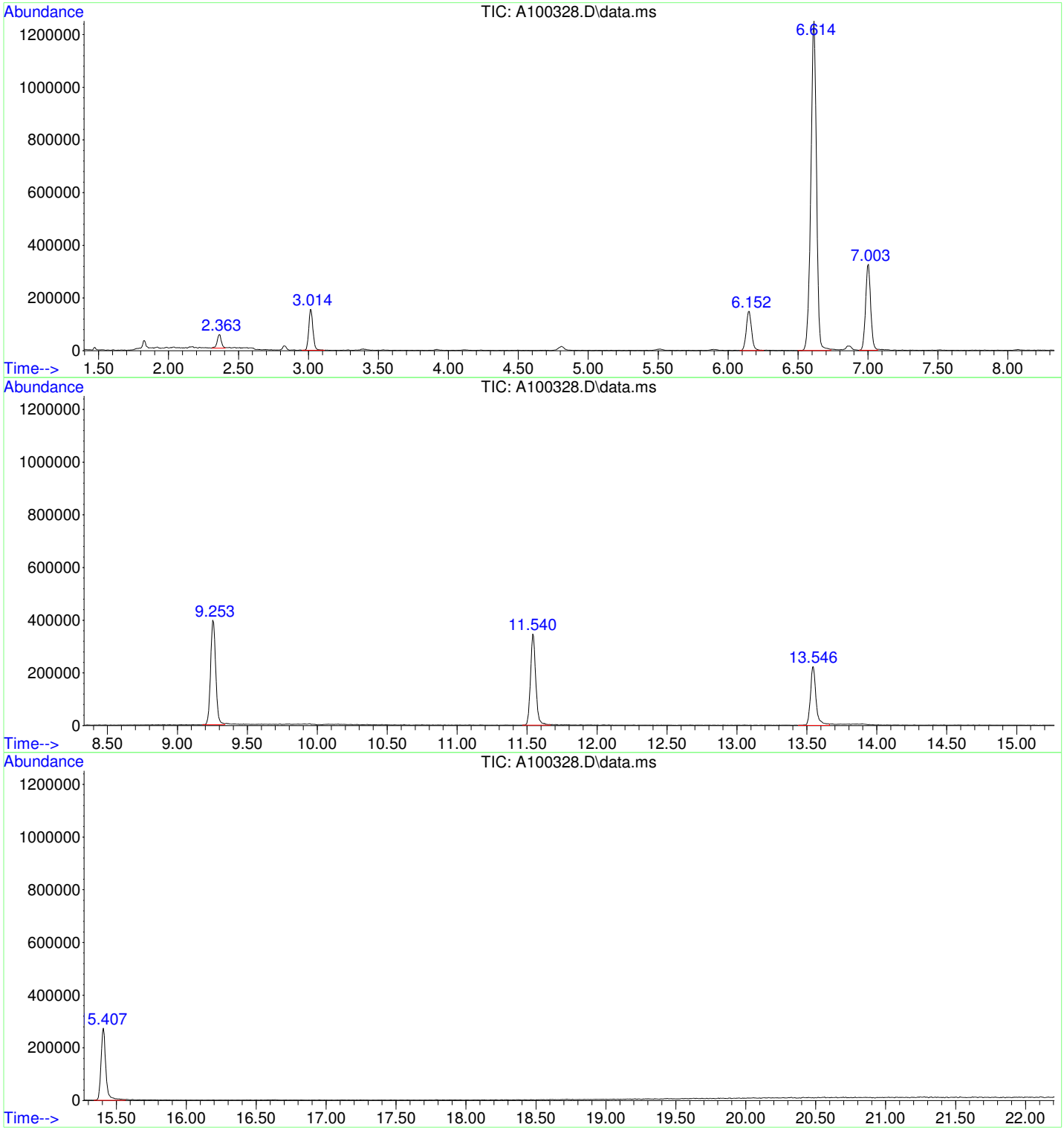
Sum of corrected areas: 8325147

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100328.D
Acq On : 3 Oct 2008 10:38 pm
Operator : BR
Sample : ,SAMP,ME0809B67-07A,1,
Misc : 8260+_W
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100328.D
Acq On    :  3 Oct 2008  10:38 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-07A,1,
Misc      : 8260+_W
ALS Vial  : 28   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

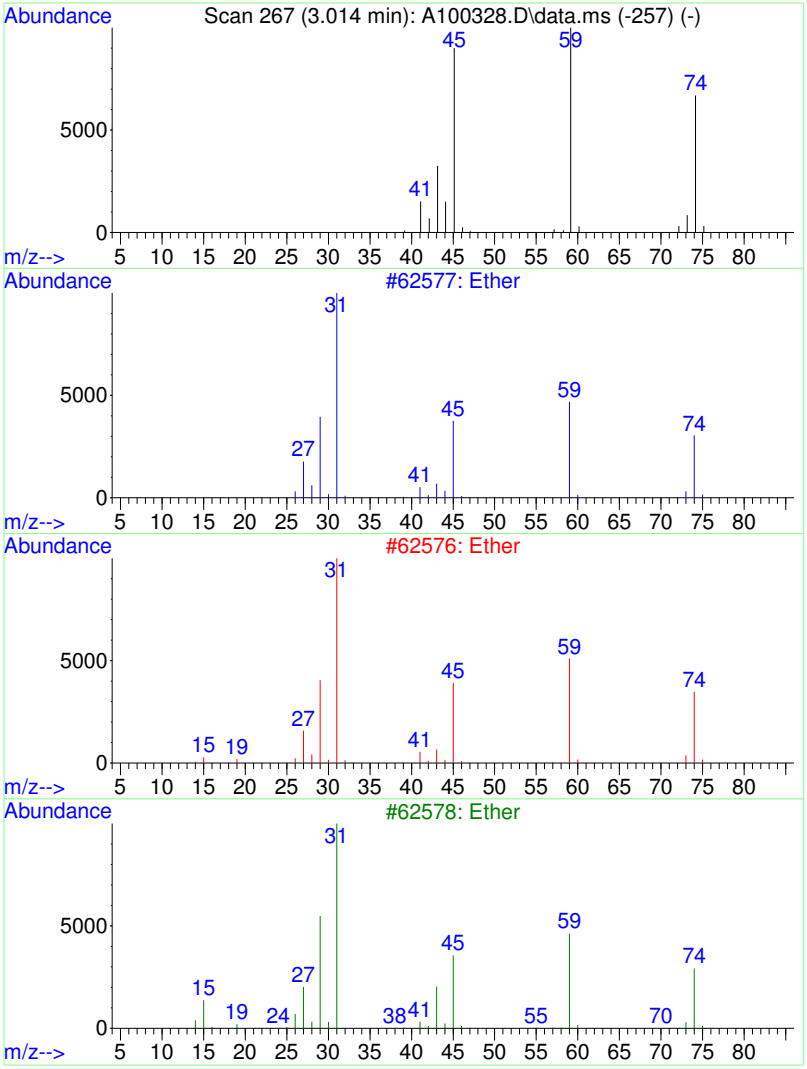
TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```

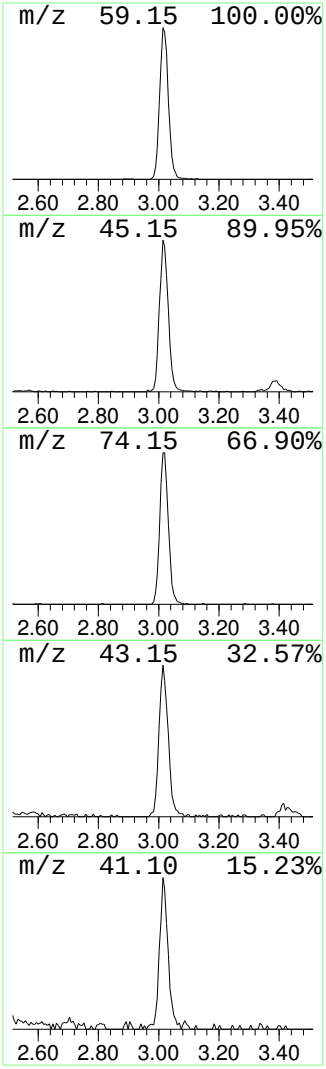
****

Peak Number 1 Ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.014	19.38 ug/L	321931	fluorobenzene	7.003

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether	74	C4H10O	000060-29-7	90
2	Ether	74	C4H10O	000060-29-7	86
3	Ether	74	C4H10O	000060-29-7	86
4	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	74
5	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	64





Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\
  Data File : A100328.D
  Acq On    :  3 Oct 2008  10:38 pm
  Operator  : BR
  Sample    : ,SAMP,ME0809B67-07A,1,
  Misc      : 8260+_W
  ALS Vial  : 28   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\WTR1003.M
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

  TIC Library   : C:\DATABASE\nbs75k.L
  TIC Integration Parameters: RTEINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ether	3.014	19.4	ug/L	321931	1	7.003	830381	50.0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100329.D Vial: 29
Acq On : 3 Oct 2008 11:12 pm Operator: BR
Sample : ,SAMP,ME0809B67-08A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:02 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

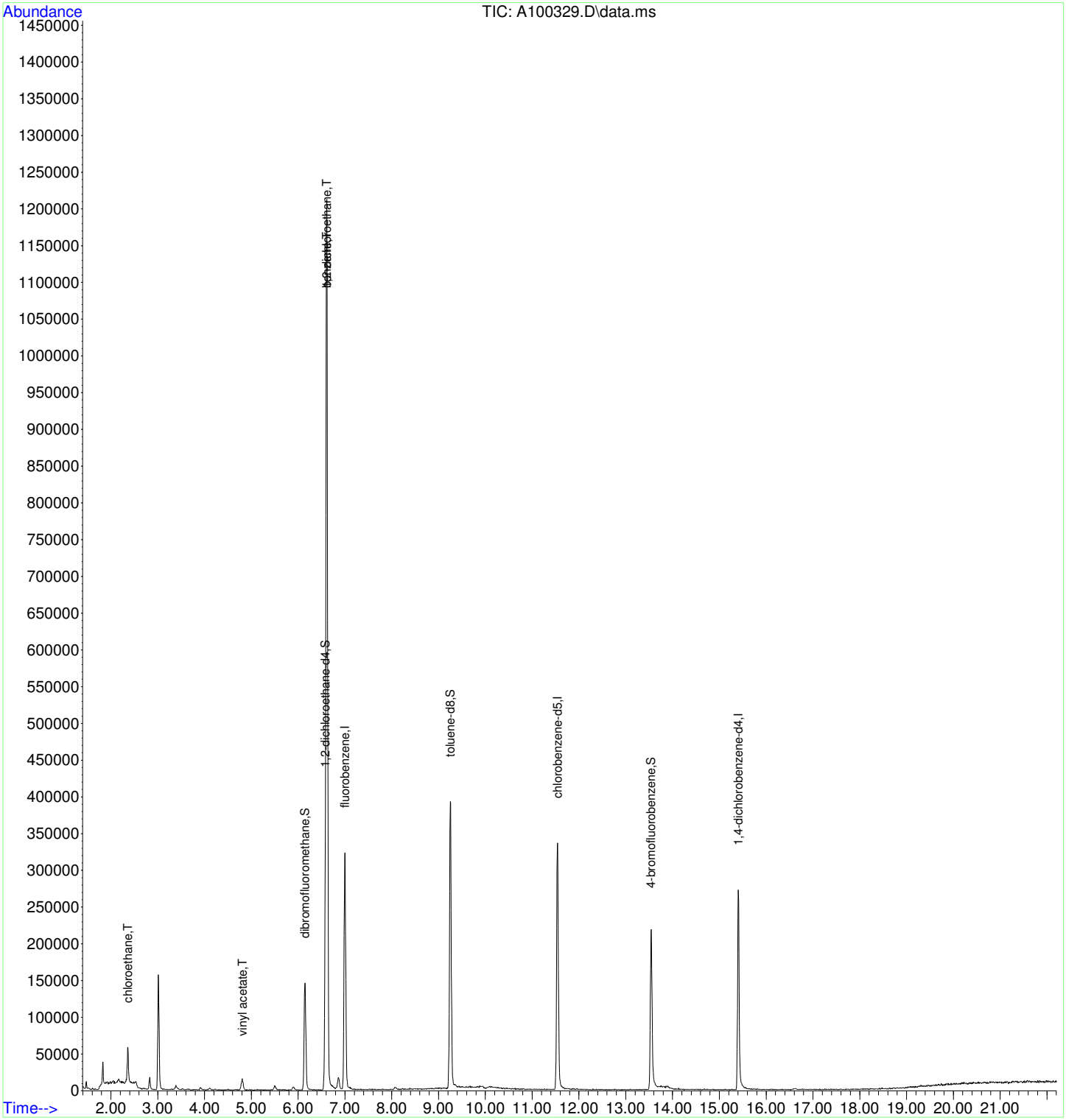
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	368304	50.00	ug/L	0.00
41) chlorobenzene-d5	11.544	117	280713	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	108779	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	114164	50.34	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	149029	53.30	ug/L	0.00
44) toluene-d8	9.251	98	347219	49.05	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	104140	39.92	ug/L	0.00
Target Compounds						Qvalue
7) chloroethane	2.361	64	37631	36.05	ug/L	95
20) vinyl acetate	4.812	43	9878	3.79	ug/L	75
31) benzene	6.612	78	1281470	164.16	ug/L	100
33) 1,2-dichloroethane	6.612	62	11953	3.21	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100329.D Vial: 29
Acq On : 3 Oct 2008 11:12 pm Operator: BR
Sample : ,SAMP,ME0809B67-08A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:02 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100329.D
Acq On : 3 Oct 2008 11:12 pm
Operator : BR
Sample : ,SAMP,ME0809B67-08A,1,
Misc : 8260+_W
ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100329.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.355	149	159	168	rBV	49225	104588	3.09%	1.274%
2	3.012	258	267	282	rBV2	156534	320666	9.47%	3.906%
3	6.150	773	783	797	rBV	145908	386621	11.42%	4.709%
4	6.612	840	859	876	rBV	1212380	3386939	100.00%	41.253%
5	7.001	913	923	939	rBV	321563	822089	24.27%	10.013%
6	9.251	1282	1293	1318	rBV	391235	1027883	30.35%	12.520%
7	11.544	1659	1670	1690	rBV	335895	896258	26.46%	10.916%
8	13.544	1987	1999	2022	rBV	218197	612968	18.10%	7.466%
9	15.405	2293	2305	2329	rBV	272291	652185	19.26%	7.944%

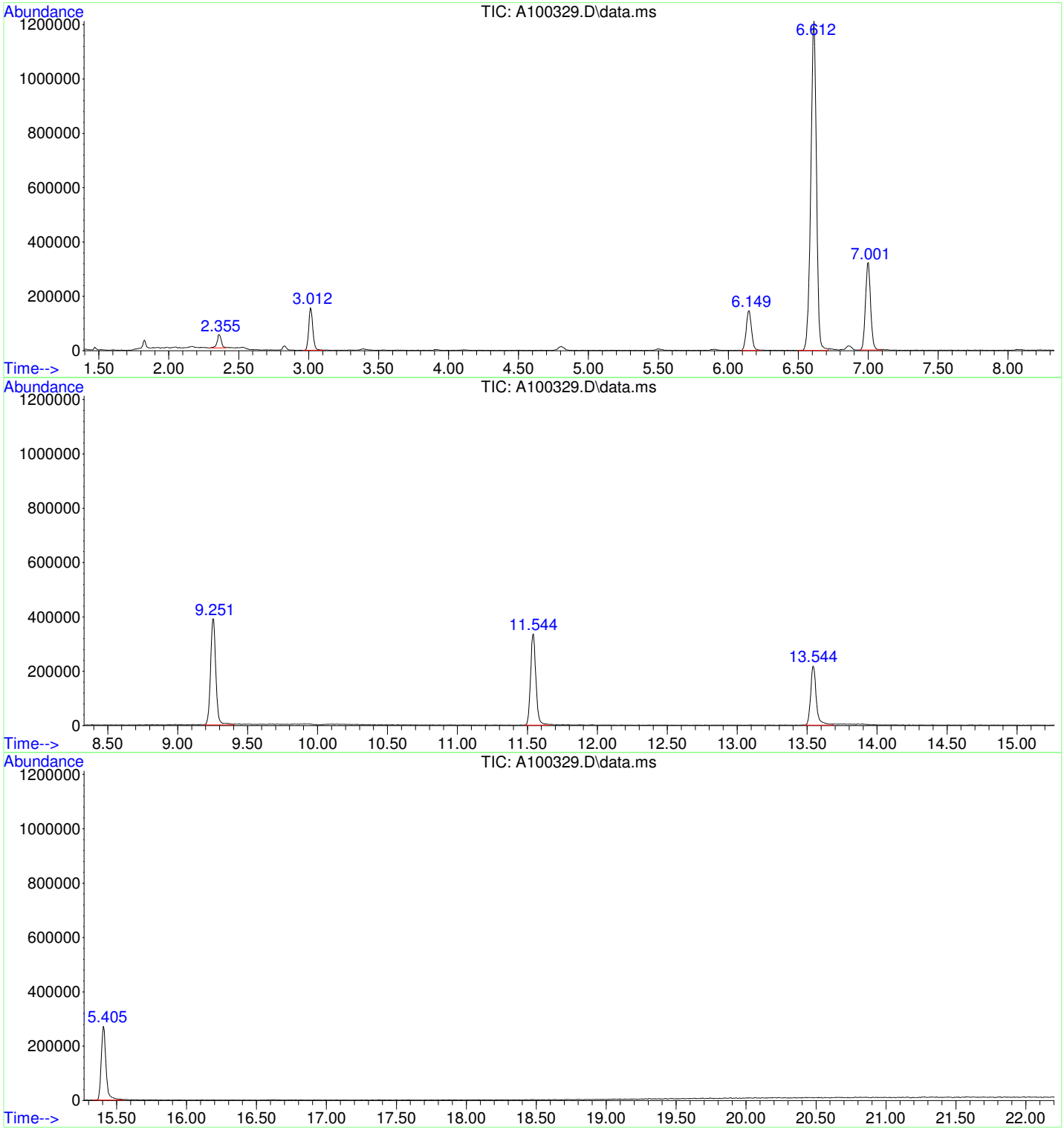
Sum of corrected areas: 8210197

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100329.D
Acq On : 3 Oct 2008 11:12 pm
Operator : BR
Sample : ,SAMP,ME0809B67-08A,1,
Misc : 8260+_W
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100329.D
Acq On    :  3 Oct 2008  11:12 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-08A,1,
Misc      : 8260+_W
ALS Vial  : 29   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

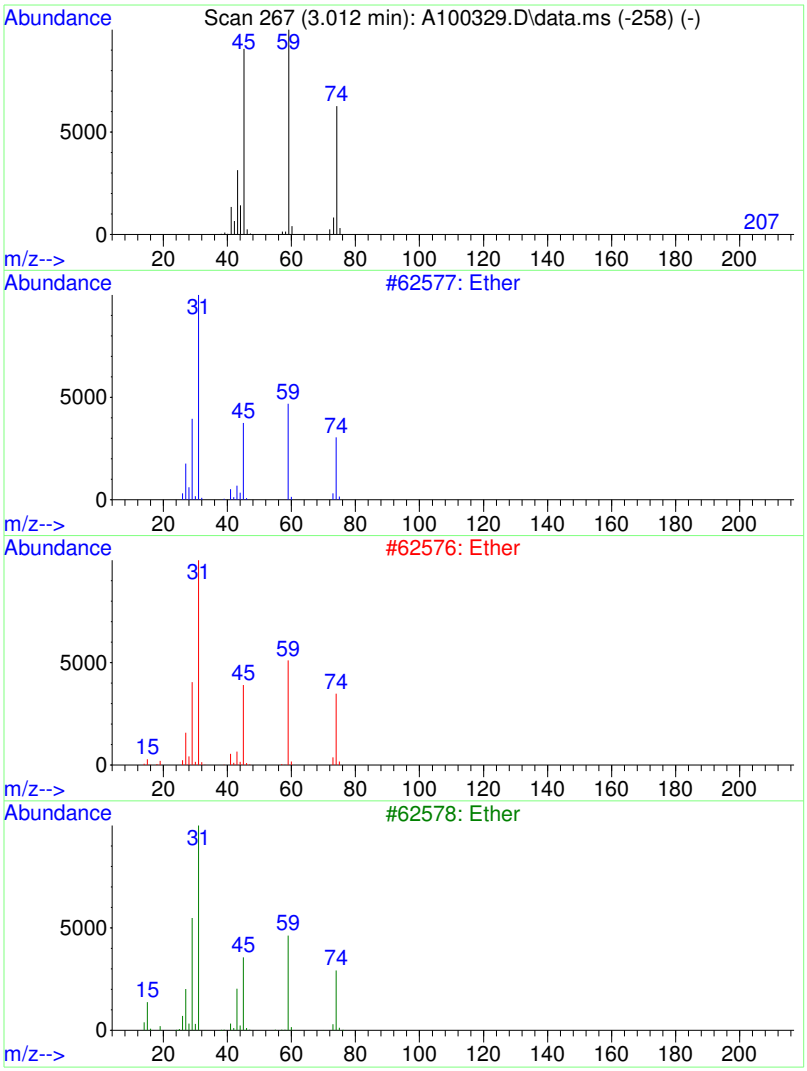
TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```

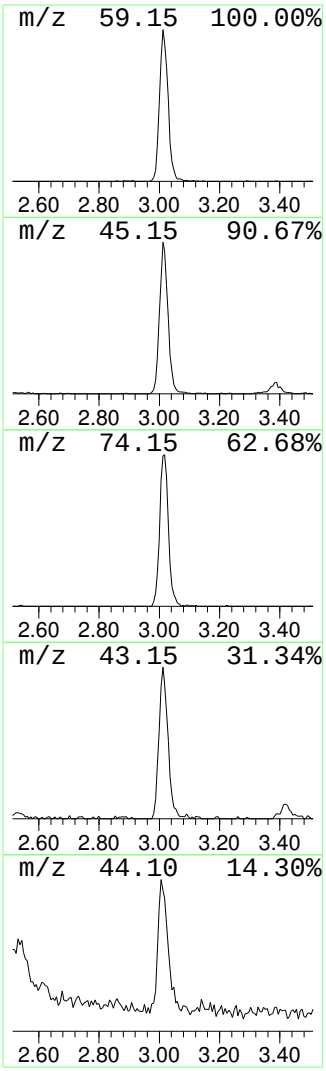
****

Peak Number 1 Ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.012	19.50 ug/L	320666	fluorobenzene	7.001

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether	74	C4H10O	000060-29-7	90
2	Ether	74	C4H10O	000060-29-7	86
3	Ether	74	C4H10O	000060-29-7	86
4	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	74
5	Ether	74	C4H10O	000060-29-7	64





Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\
  Data File : A100329.D
  Acq On    :  3 Oct 2008  11:12 pm
  Operator  : BR
  Sample    : ,SAMP,ME0809B67-08A,1,
  Misc      : 8260+_W
  ALS Vial  : 29   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\WTR1003.M
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

  TIC Library   : C:\DATABASE\nbs75k.L
  TIC Integration Parameters: RTEINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ether	3.012	19.5	ug/L	320666	1	7.001	822089	50.0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100330.D Vial: 30
Acq On : 3 Oct 2008 11:46 pm Operator: BR
Sample : ,SAMP,ME0809B67-09A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:08 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

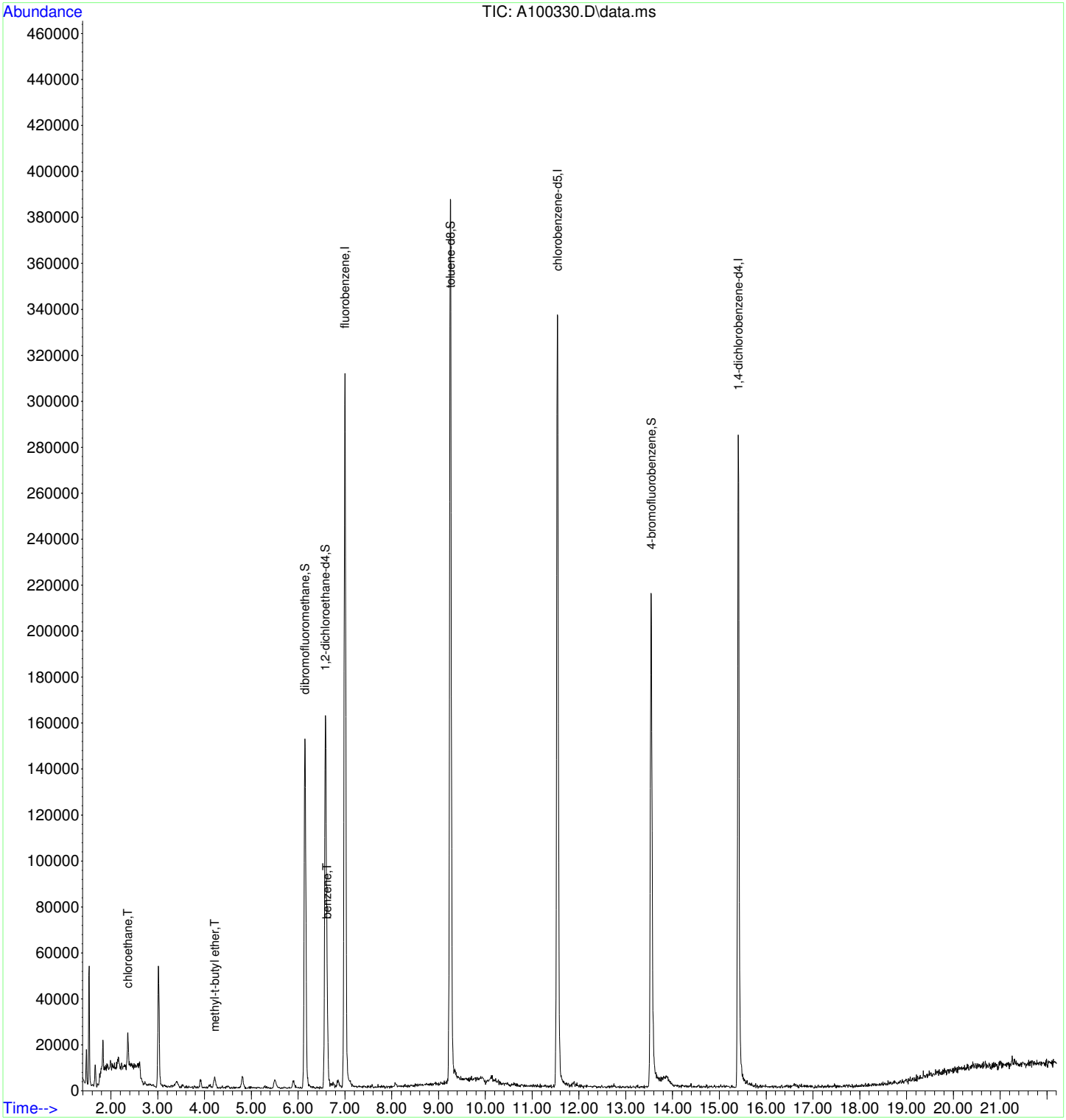
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	352550	50.00	ug/L	0.00
41) chlorobenzene-d5	11.543	117	277332	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	109345	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.143	113	116551	53.69	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	144861	54.13	ug/L	0.00
44) toluene-d8	9.257	98	345268	49.37	ug/L	0.00
63) 4-bromofluorobenzene	13.544	95	105414	40.90	ug/L	0.00
Target Compounds						Qvalue
7) chloroethane	2.361	64	9994	10.00	ug/L	98
16) methyl-t-butyl ether	4.215	73	4993	0.84	ug/L	93
31) benzene	6.618	78	38230	5.12	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100330.D Vial: 30
Acq On : 3 Oct 2008 11:46 pm Operator: BR
Sample : ,SAMP,ME0809B67-09A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:08 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100330.D
Acq On : 3 Oct 2008 11:46 pm
Operator : BR
Sample : ,SAMP,ME0809B67-09A,1,
Misc : 8260+_W
ALS Vial : 30 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100330.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.534	20	24	32	rVB	52089	65516	6.62%	1.285%
2	1.826	57	72	80	rBV2	19719	65953	6.66%	1.294%
3	2.361	154	160	169	rBV3	16374	35827	3.62%	0.703%
4	3.011	259	267	279	rBV2	52924	113330	11.45%	2.223%
5	6.143	772	782	796	rBV	152089	394551	39.85%	7.740%
6	6.581	844	854	870	rBV2	162215	485075	49.00%	9.515%
7	7.001	911	923	947	rBV	310862	806264	81.44%	15.816%
8	9.251	1281	1293	1306	rBV	384997	990008	100.00%	19.420%
9	11.537	1658	1669	1689	rBV	336255	880186	88.91%	17.266%
10	13.538	1987	1998	2017	rBV	214866	607680	61.38%	11.920%
11	15.405	2294	2305	2325	rBV2	284011	653494	66.01%	12.819%

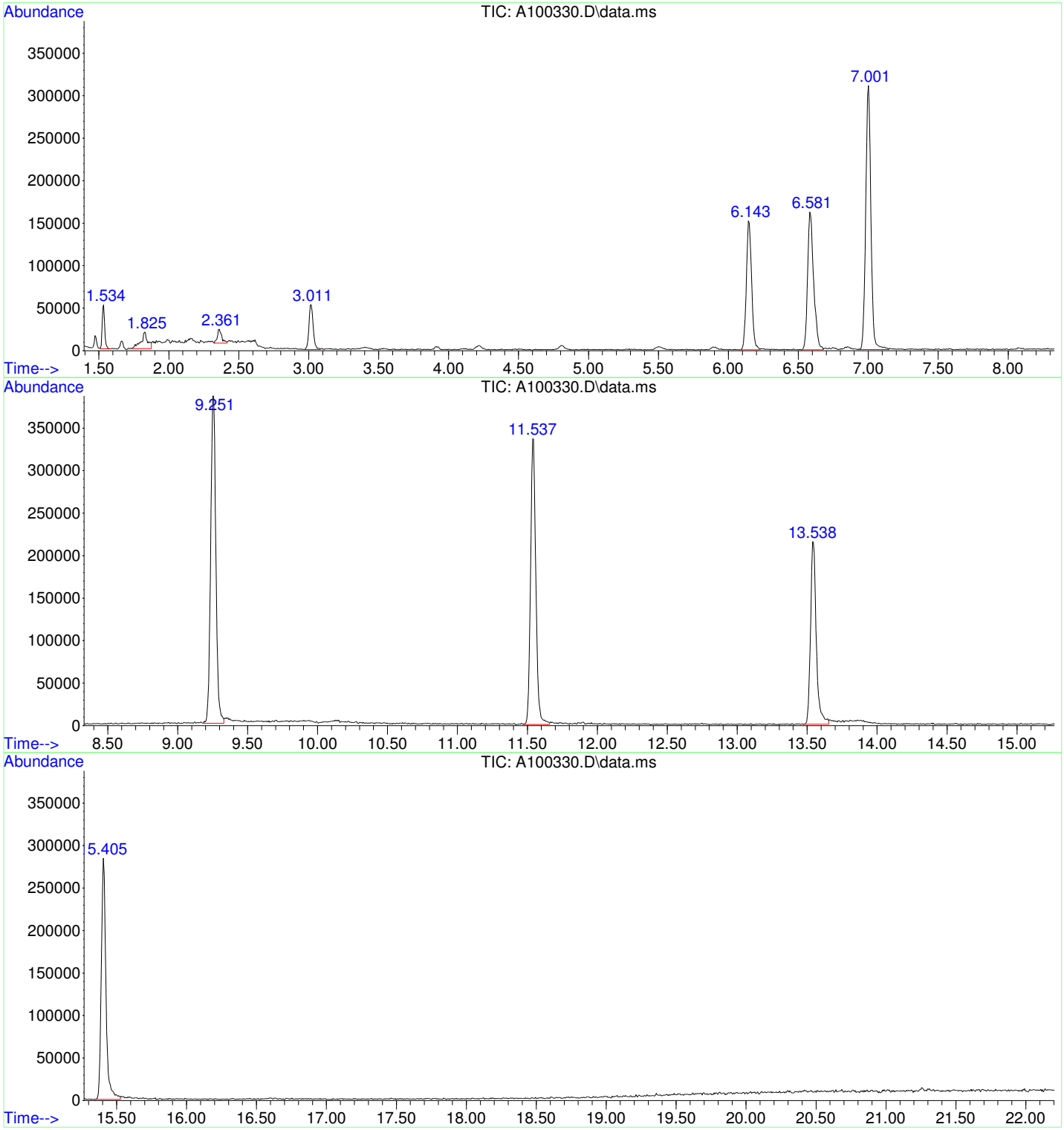
Sum of corrected areas: 5097884

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100330.D
Acq On : 3 Oct 2008 11:46 pm
Operator : BR
Sample : ,SAMP,ME0809B67-09A,1,
Misc : 8260+_W
ALS Vial : 30 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

```
Data Path : D:\msdchem\1\data\A100308\
Data File : A100330.D
Acq On    :  3 Oct 2008  11:46 pm
Operator  : BR
Sample    : ,SAMP,ME0809B67-09A,1,
Misc      : 8260+_W
ALS Vial  : 30   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

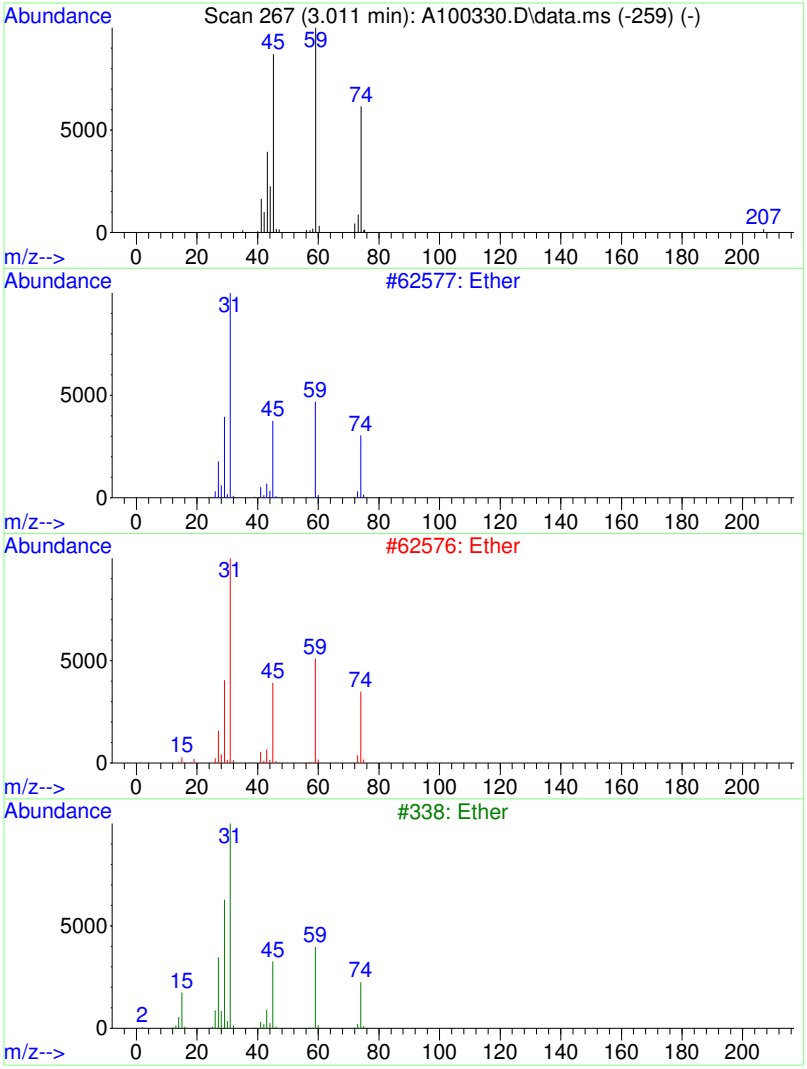
TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```

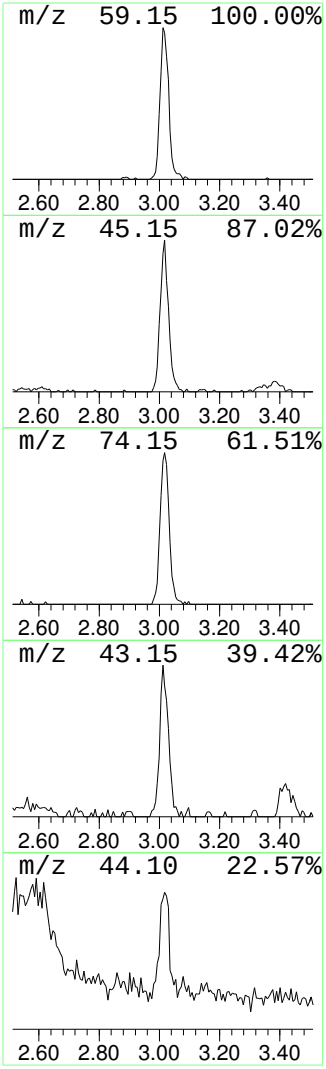
****

Peak Number 1 Ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.011	7.03 ug/L	113330	fluorobenzene	7.001

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether	74	C4H10O	000060-29-7	80
2	Ether	74	C4H10O	000060-29-7	72
3	Ether	74	C4H10O	000060-29-7	72
4	Ether	74	C4H10O	000060-29-7	53
5	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	43





Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\
  Data File : A100330.D
  Acq On    :  3 Oct 2008  11:46 pm
  Operator  : BR
  Sample    : ,SAMP,ME0809B67-09A,1,
  Misc      : 8260+_W
  ALS Vial  : 30   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\WTR1003.M
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

  TIC Library   : C:\DATABASE\nbs75k.L
  TIC Integration Parameters: RTEINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ether	3.011	7.0	ug/L	113330	1	7.001	806264	50.0

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100331.D Vial: 31
Acq On : 4 Oct 2008 12:21 am Operator: BR
Sample : ,SAMP,ME0809B67-10A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:14 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

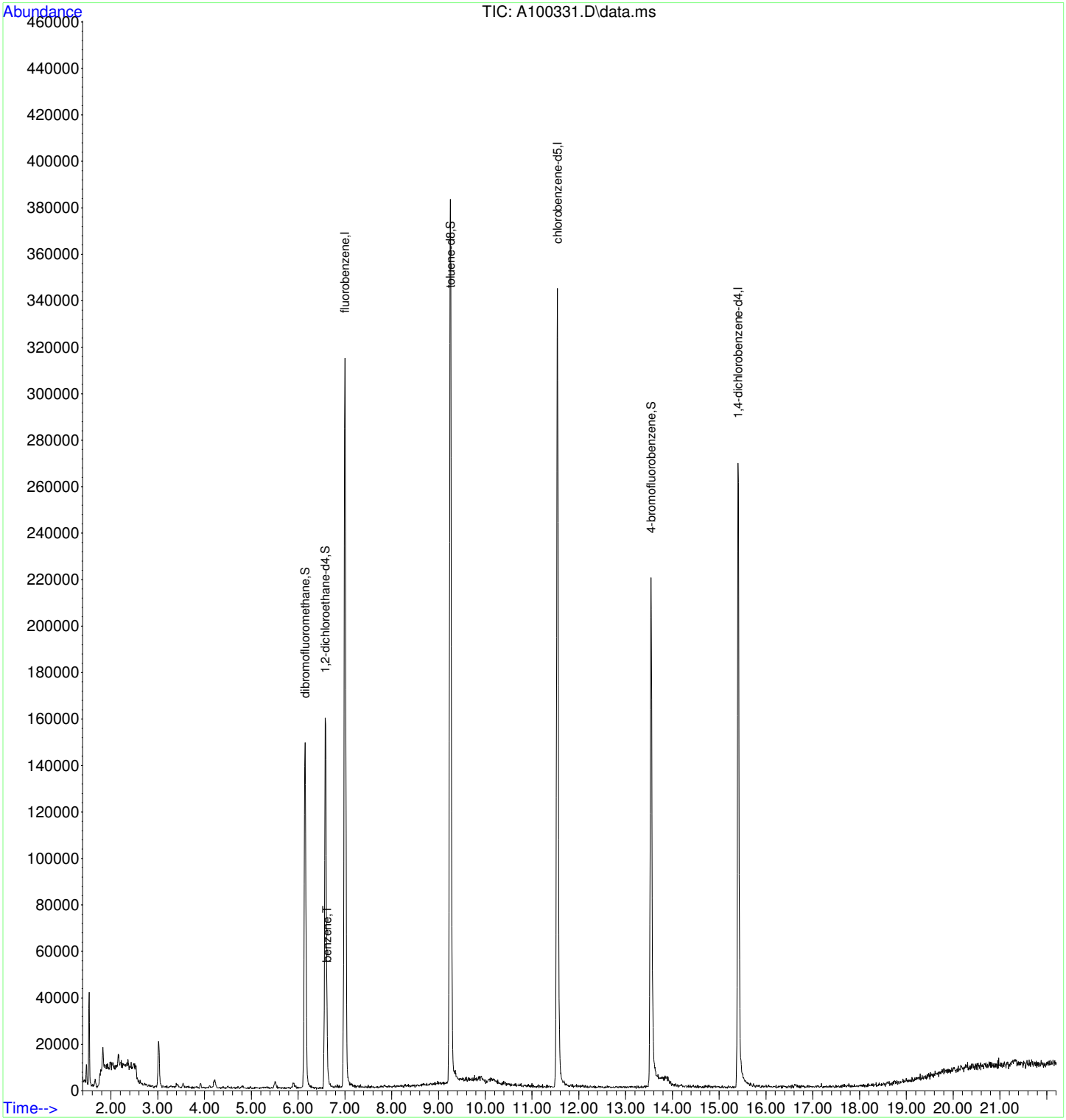
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) fluorobenzene	7.000	96	346397	50.00 ug/L	0.00
41) chlorobenzene-d5	11.542	117	271231	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.404	152	103307	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.148	113	114573	53.72 ug/L	0.00
30) 1,2-dichloroethane-d4	6.580	65	143476	54.56 ug/L	0.00
44) toluene-d8	9.256	98	339787	49.68 ug/L	0.00
63) 4-bromofluorobenzene	13.543	95	104781	41.57 ug/L	0.00
Target Compounds					Qvalue
31) benzene	6.616	78	9668	1.32 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100331.D Vial: 31
Acq On : 4 Oct 2008 12:21 am Operator: BR
Sample : ,SAMP,ME0809B67-10A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:14 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100331.D
Acq On : 4 Oct 2008 12:21 am
Operator : BR
Sample : ,SAMP,ME0809B67-10A,1,
Misc : 8260+_W
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100331.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.532	20	24	32	rVB	40580	51162	5.24%	1.057%
2	1.824	52	72	77	rBV8	17530	65172	6.67%	1.347%
3	3.016	261	268	280	rVB2	19933	45944	4.70%	0.949%
4	6.148	768	783	800	rBV	148701	383525	39.25%	7.924%
5	6.580	845	854	875	rBV2	159720	421605	43.15%	8.711%
6	7.000	910	923	940	rBV	313897	783137	80.15%	16.181%
7	9.256	1284	1294	1309	rBV	380092	977129	100.00%	20.190%
8	11.542	1657	1670	1690	rBV	343741	872720	89.31%	18.032%
9	13.543	1987	1999	2022	rBV	219015	600208	61.43%	12.402%
10	15.404	2296	2305	2329	rBV	268708	639137	65.41%	13.206%

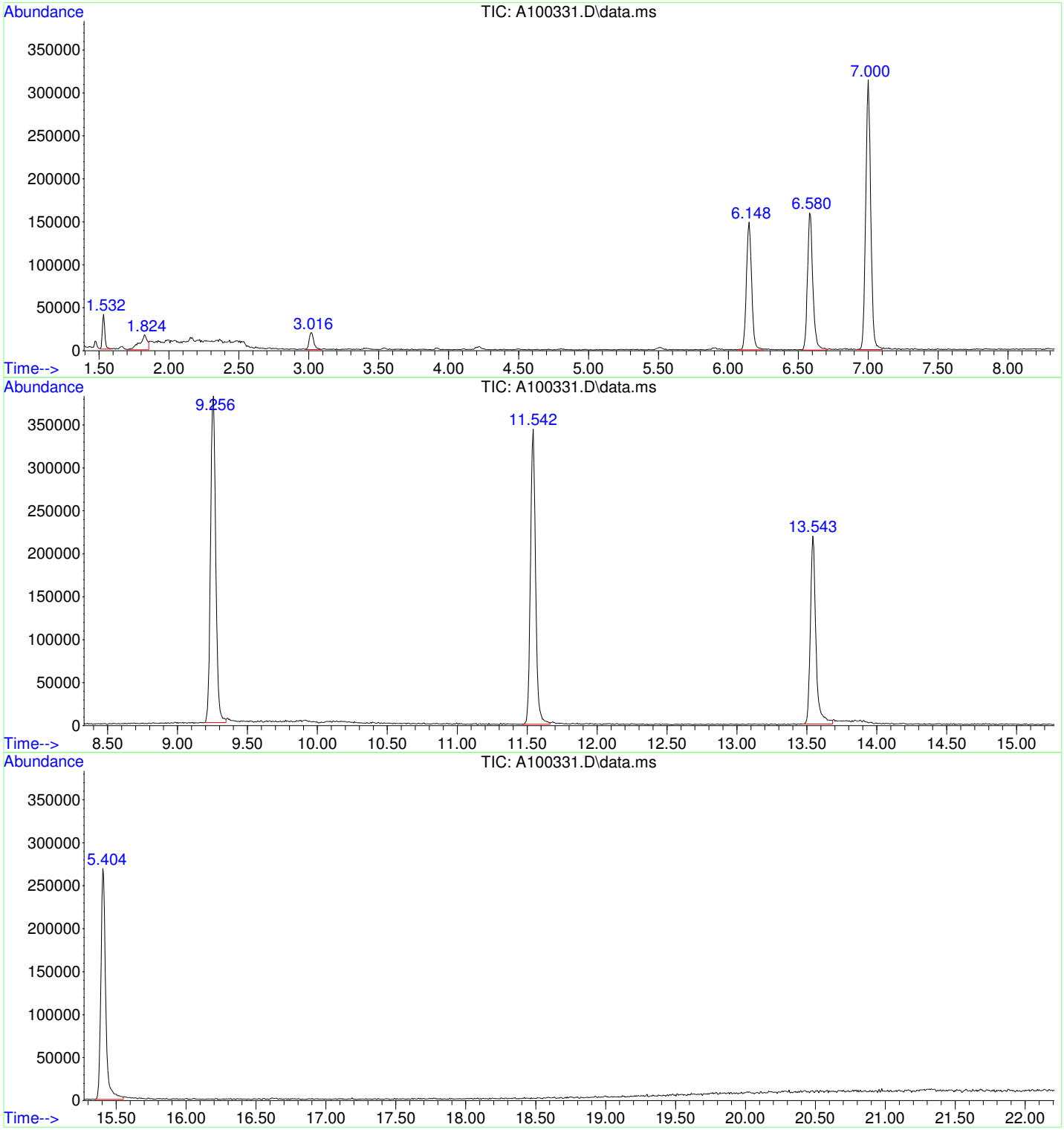
Sum of corrected areas: 4839739

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100331.D
Acq On : 4 Oct 2008 12:21 am
Operator : BR
Sample : ,SAMP,ME0809B67-10A,1,
Misc : 8260+_W
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\\
  Data File : A100331.D
  Acq On    :  4 Oct 2008  12:21 amm
  Operator  : BRR
  Sample    : ,SAMP,ME0809B67-10A,1,,
  Misc      : 8260+_WW
  ALS Vial  : 31   Sample Multiplier: 11

  Quant Method : C:\msdchem\1\METHODS\WTR1003.MM
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Includedd

  TIC Library   : C:\DATABASE\nbs75k.LL
  TIC Integration Parameters: RTEINT.PP

                                                      |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100332.D Vial: 32
Acq On : 4 Oct 2008 12:55 am Operator: BR
Sample : ,SAMP,ME0809B67-11A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:20 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	338866	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	267222	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.406	152	99686	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.144	113	110010	52.73	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	141515	55.01	ug/L	0.00
44) toluene-d8	9.251	98	334655	49.66	ug/L	0.00
63) 4-bromofluorobenzene	13.545	95	99094	39.90	ug/L	0.00

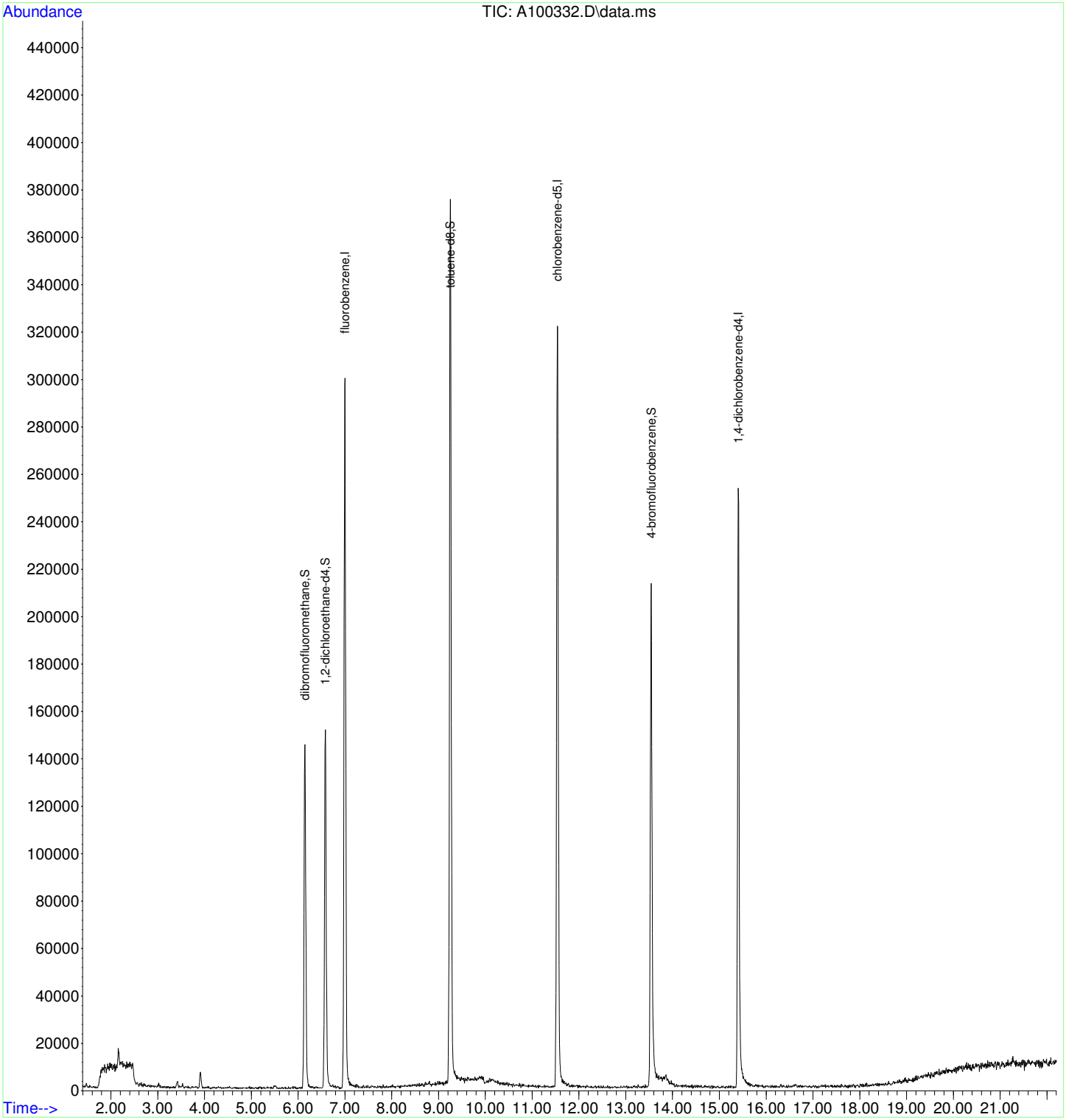
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100308\A100332.D Vial: 32
Acq On : 4 Oct 2008 12:55 am Operator: BR
Sample : ,SAMP,ME0809B67-11A,1, Inst : Instrument #1
Misc : 8260+_W Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 04 08:16:20 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100308\
Data File : A100332.D
Acq On : 4 Oct 2008 12:55 am
Operator : BR
Sample : ,SAMP,ME0809B67-11A,1,
Misc : 8260+_W
ALS Vial : 32 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100332.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.144	772	782	795	rBV2	145181	376378	39.00%	8.327%
2	6.581	842	854	874	rBV	151361	387783	40.18%	8.579%
3	7.001	912	923	940	rBV	299608	765557	79.32%	16.937%
4	9.251	1283	1293	1308	rBV	372982	965156	100.00%	21.353%
5	11.538	1656	1669	1691	rBV	321157	849514	88.02%	18.795%
6	13.545	1984	1999	2016	rBV	212833	571446	59.21%	12.643%
7	15.406	2293	2305	2322	rBV	252925	604125	62.59%	13.366%

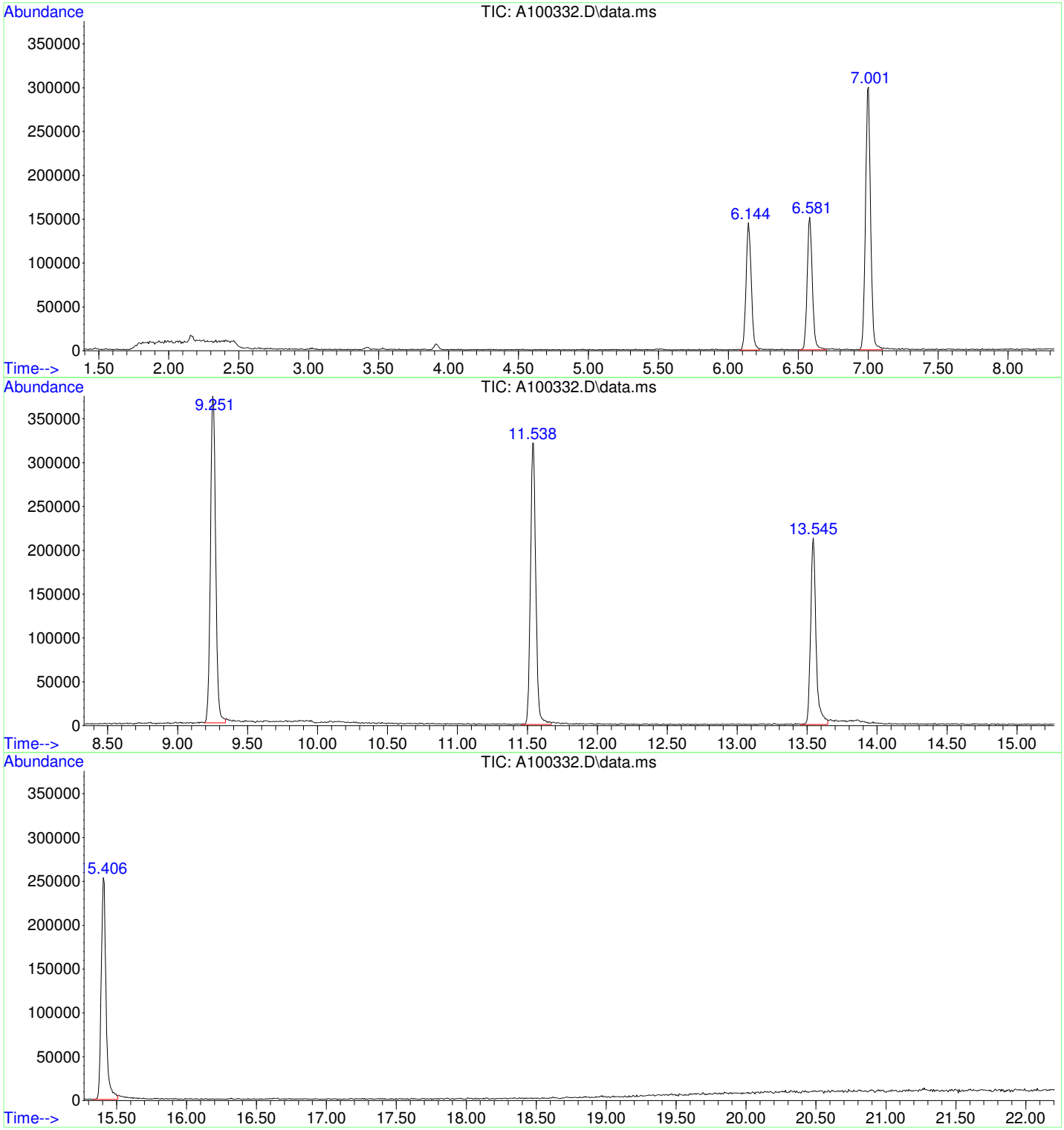
Sum of corrected areas: 4519959

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100308\
Data File : A100332.D
Acq On : 4 Oct 2008 12:55 am
Operator : BR
Sample : ,SAMP,ME0809B67-11A,1,
Misc : 8260+_W
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100308\\
  Data File : A100332.D
  Acq On    :  4 Oct 2008  12:55 amm
  Operator  : BRR
  Sample    : ,SAMP,ME0809B67-11A,1,,
  Misc      : 8260+_WW
  ALS Vial  : 32   Sample Multiplier: 11

  Quant Method : C:\msdchem\1\METHODS\WTR1003.MM
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Includedd

  TIC Library   : C:\DATABASE\nbs75k.LL
  TIC Integration Parameters: RTEINT.PP

                                                      |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100715.D Vial: 15
Acq On : 7 Oct 2008 3:44 pm Operator: nlt
Sample : ,SAMP,ME0809B67-12A,1,RA, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 17:39:43 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	6.995	96	380226	50.00	ug/L	0.00
41) chlorobenzene-d5	11.538	117	309367	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	120232	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.137	113	123358	52.69	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	155940	54.02	ug/L	0.00
44) toluene-d8	9.251	98	388080	49.74	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	125464	43.63	ug/L	0.00

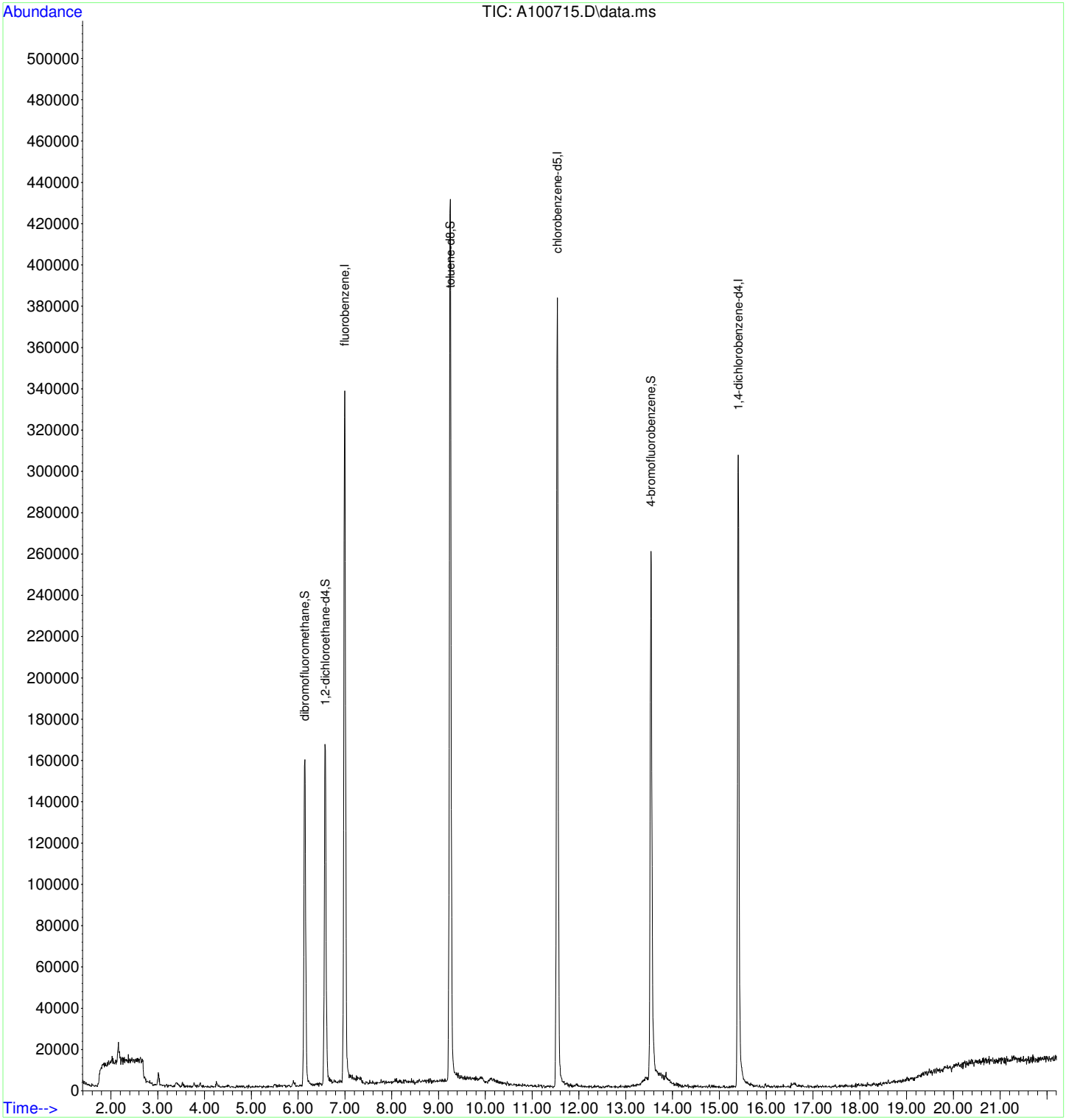
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100715.D Vial: 15
Acq On : 7 Oct 2008 3:44 pm Operator: nlt
Sample : ,SAMP,ME0809B67-12A,1,RA, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 17:39:43 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100708\
Data File : A100715.D
Acq On : 7 Oct 2008 3:44 pm
Operator : nlt
Sample : ,SAMP,ME0809B67-12A,1,RA,
Misc : 8260+_w
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100715.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.820	53	71	73	rBV8	10949	50143	4.53%	0.947%
2	6.143	772	782	794	rBV	158200	415381	37.55%	7.848%
3	6.575	842	853	867	rBV	165397	434260	39.26%	8.205%
4	6.995	912	922	938	rBV	335219	876648	79.26%	16.563%
5	9.251	1281	1293	1312	rBV	426909	1106085	100.00%	20.898%
6	11.538	1654	1669	1687	rBV	382753	979258	88.53%	18.502%
7	13.538	1988	1998	2015	rBV	256101	691856	62.55%	13.072%
8	15.405	2295	2305	2331	rBV	306502	739175	66.83%	13.966%

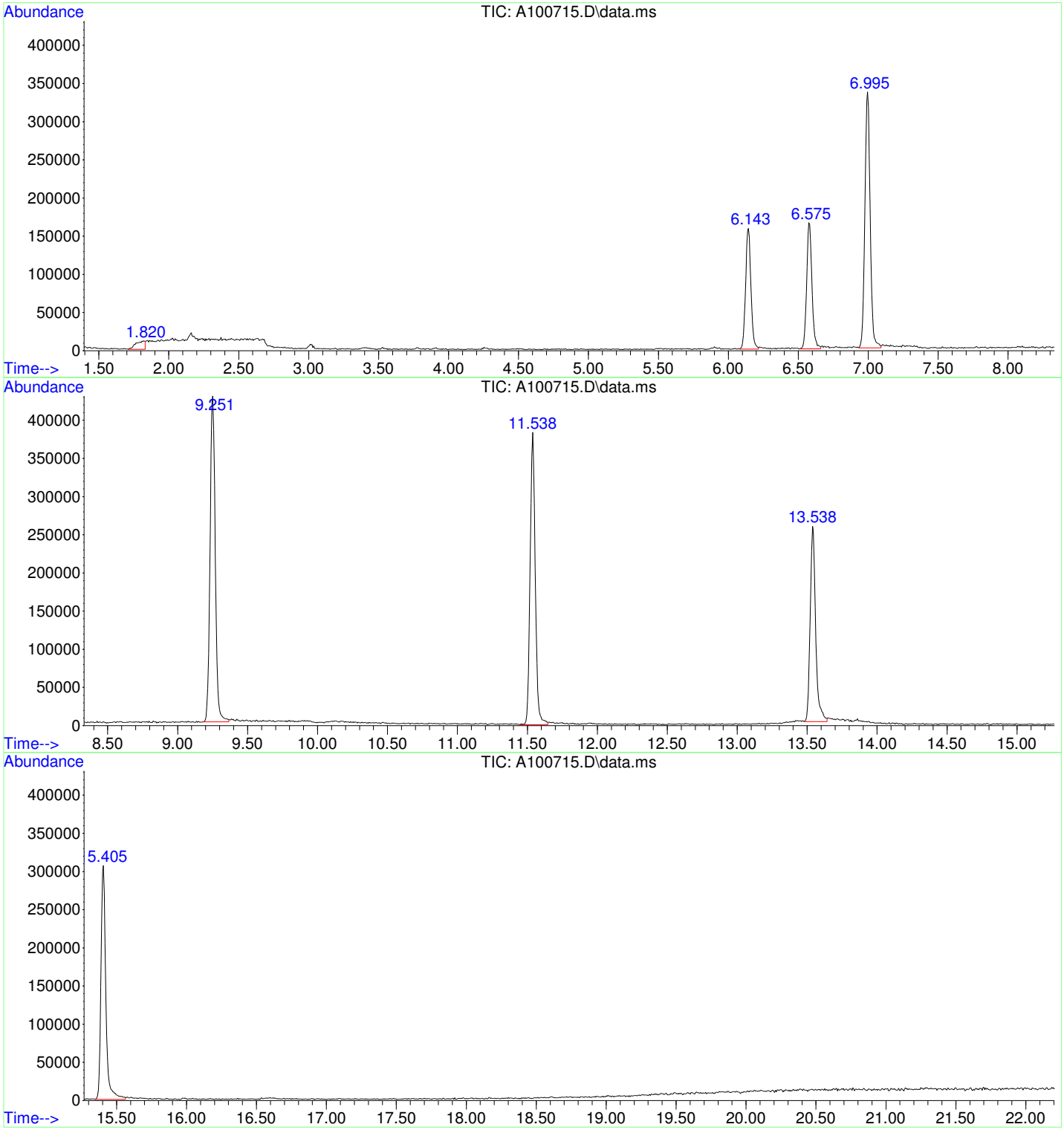
Sum of corrected areas: 5292806

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100708\
Data File : A100715.D
Acq On : 7 Oct 2008 3:44 pm
Operator : nlt
Sample : ,SAMP,ME0809B67-12A,1,RA,
Misc : 8260+_w
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100708\\
  Data File : A100715.D
  Acq On    :  7 Oct 2008   3:44 pmm
  Operator  : nltt
  Sample    : ,SAMP,ME0809B67-12A,1,RA,,
  Misc      : 8260+_ww
  ALS Vial  : 15   Sample Multiplier: 11

  Quant Method : C:\msdchem\1\METHODS\WTR1003.MM
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Includedd

  TIC Library   : C:\DATABASE\nbs75k.LL
  TIC Integration Parameters: RTEINT.PP

                                                      |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100716.D Vial: 16
Acq On : 7 Oct 2008 4:16 pm Operator: nlt
Sample : ,SAMP,ME0809B67-13A,1,RA, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 17:39:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.001	96	355451	50.00	ug/L	0.00
41) chlorobenzene-d5	11.544	117	290436	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	112638	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.149	113	116218	53.10	ug/L	0.00
30) 1,2-dichloroethane-d4	6.581	65	144576	53.58	ug/L	0.00
44) toluene-d8	9.257	98	358642	48.97	ug/L	0.00
63) 4-bromofluorobenzene	13.538	95	109738	40.65	ug/L	0.00

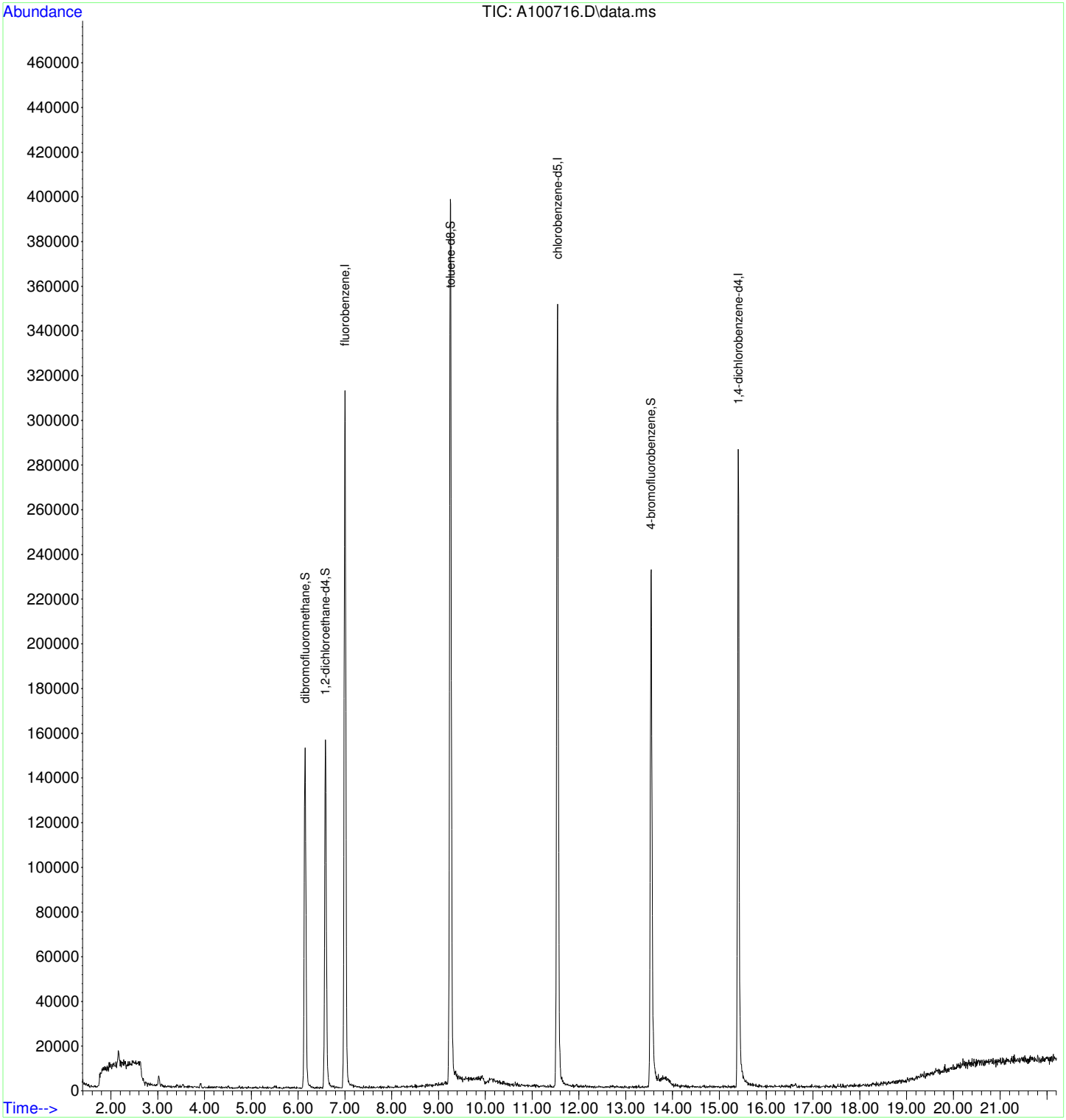
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100708\A100716.D Vial: 16
Acq On : 7 Oct 2008 4:16 pm Operator: nlt
Sample : ,SAMP,ME0809B67-13A,1,RA, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 17:39:50 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100708\
Data File : A100716.D
Acq On : 7 Oct 2008 4:16 pm
Operator : nlt
Sample : ,SAMP,ME0809B67-13A,1,RA,
Misc : 8260+_w
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100716.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.149	771	783	805	rBV	152511	398333	38.84%	8.212%
2	6.581	844	854	875	rBV	156134	402348	39.23%	8.295%
3	7.001	912	923	942	rBV	312157	801727	78.18%	16.528%
4	9.251	1283	1293	1308	rBV	396026	1025539	100.00%	21.142%
5	11.544	1655	1670	1684	rBV	350519	914757	89.20%	18.858%
6	13.544	1988	1999	2017	rBV	231641	633048	61.73%	13.051%
7	15.405	2296	2305	2331	rBV	285539	674907	65.81%	13.914%

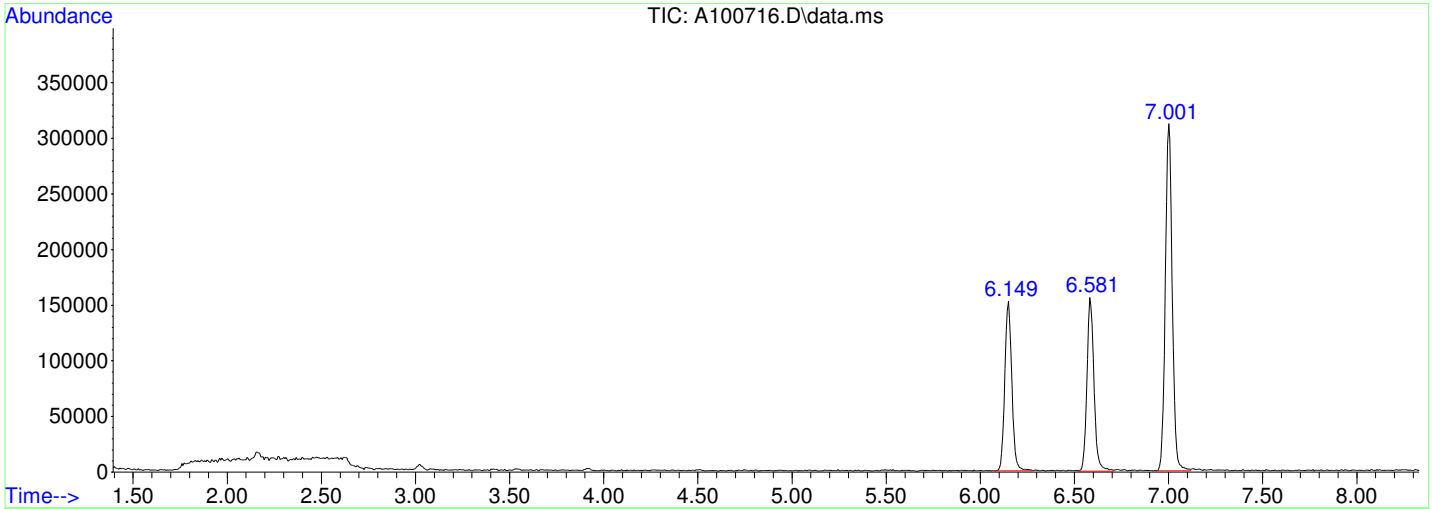
Sum of corrected areas: 4850659

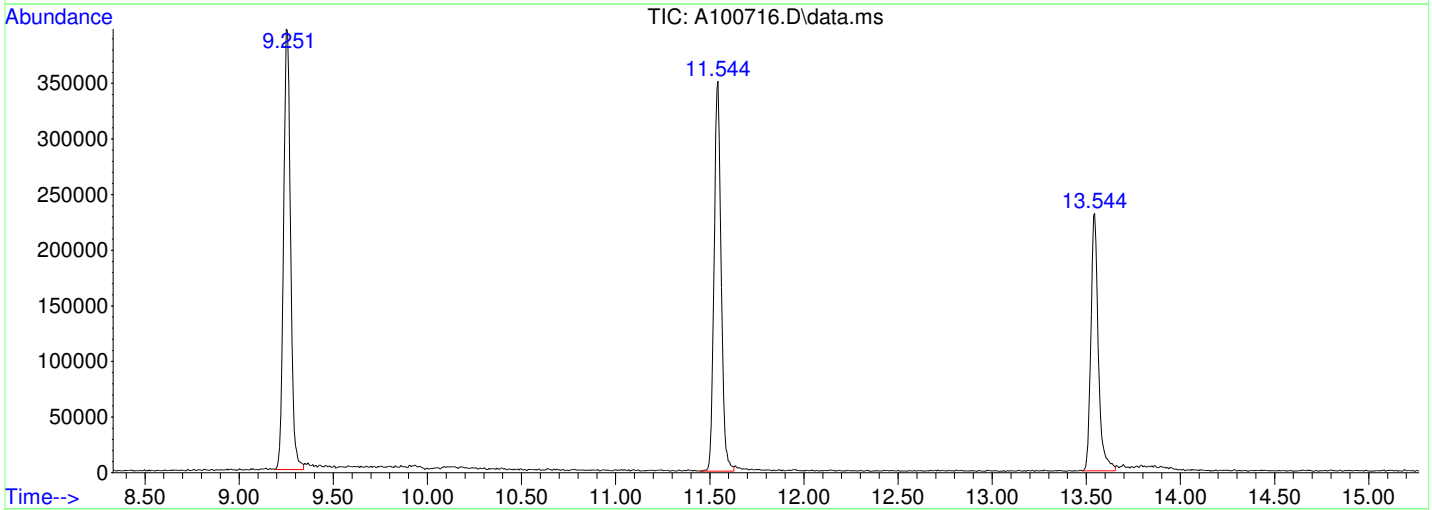
LSC Report - Integrated Chromatogram

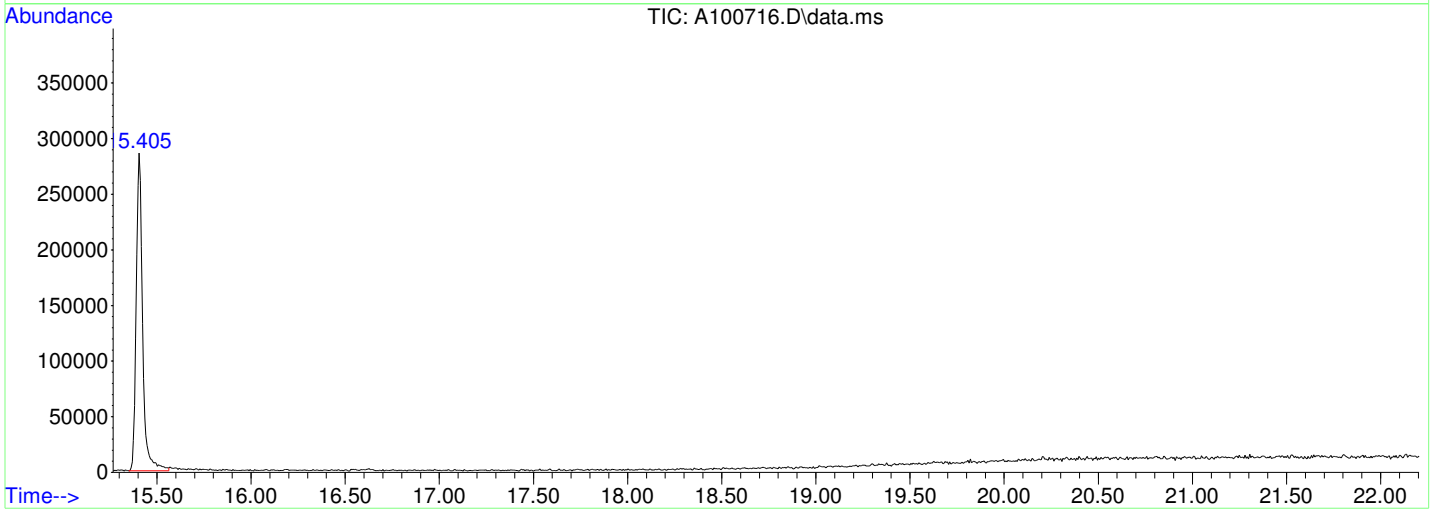
Data Path : D:\msdchem\1\data\A100708\
Data File : A100716.D
Acq On : 7 Oct 2008 4:16 pm
Operator : nlt
Sample : ,SAMP,ME0809B67-13A,1,RA,
Misc : 8260+_w
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P







Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100708\\
  Data File : A100716.D
  Acq On    :  7 Oct 2008   4:16 pmm
  Operator  : nltt
  Sample    : ,SAMP,ME0809B67-13A,1,RA,,
  Misc      : 8260+_ww
  ALS Vial  : 16   Sample Multiplier: 11

  Quant Method : C:\msdchem\1\METHODS\WTR1003.MM
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Includedd

  TIC Library   : C:\DATABASE\nbs75k.LL
  TIC Integration Parameters: RTEINT.PP

                                                      |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100622.D Vial: 22
Acq On : 6 Oct 2008 6:46 pm Operator: BR
Sample : ,samp,me0809b67-14a,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 07:24:13 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

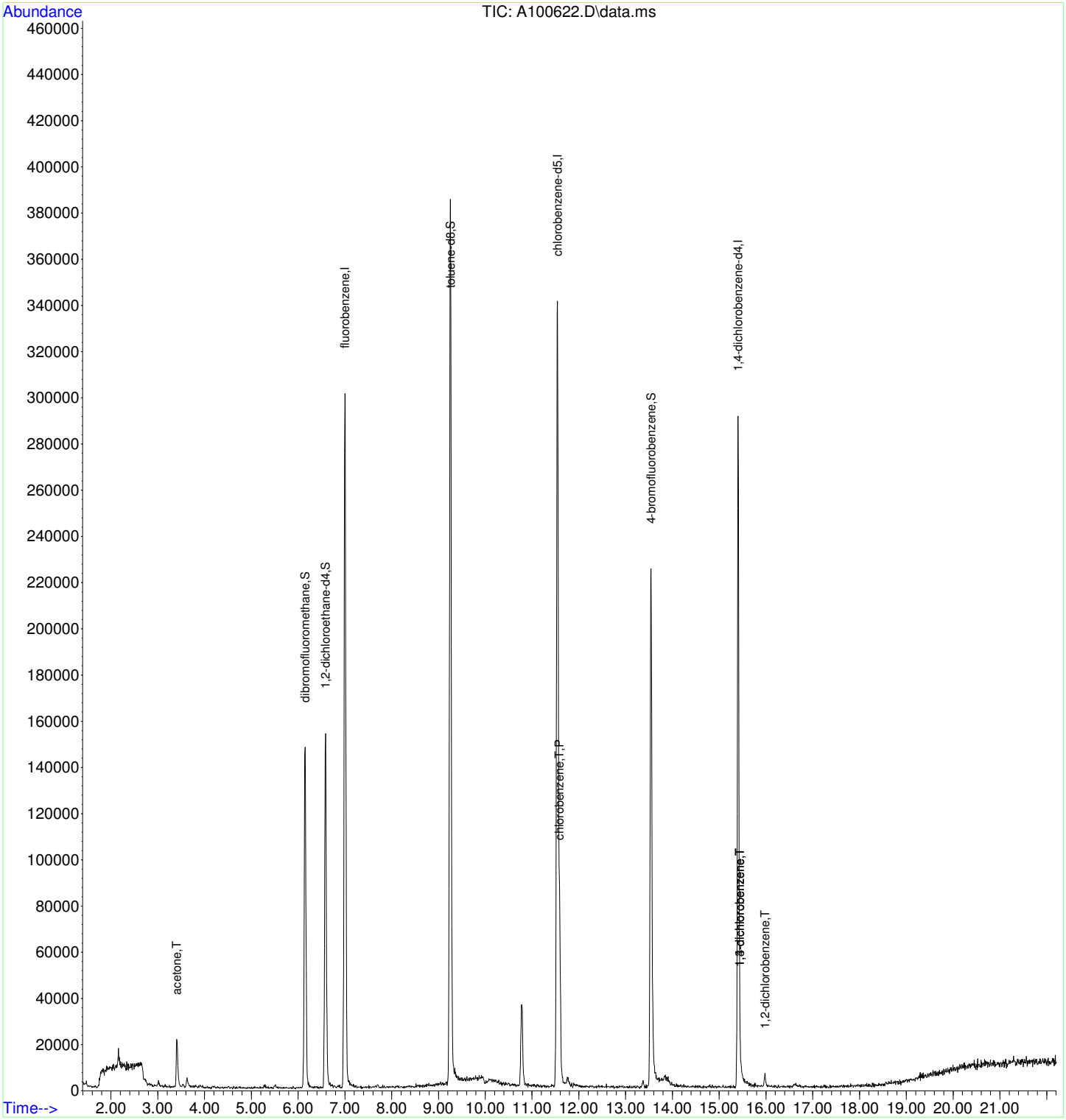
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) fluorobenzene	7.000	96	336618	50.00 ug/L	0.00
41) chlorobenzene-d5	11.543	117	284115	50.00 ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.404	152	110771	50.00 ug/L	0.00
System Monitoring Compounds					
26) dibromofluoromethane	6.149	113	111411	53.75 ug/L	0.00
30) 1,2-dichloroethane-d4	6.586	65	142297	55.68 ug/L	0.00
44) toluene-d8	9.256	98	342480	47.80 ug/L	0.00
63) 4-bromofluorobenzene	13.543	95	111874	42.37 ug/L	0.00
Target Compounds					Qvalue
11) acetone	3.406	43	33465	42.41 ug/L	93
53) chlorobenzene	11.585	112	54018	11.09 ug/L #	80
74) 1,3-dichlorobenzene	15.441	146	2575	1.04 ug/L	77
77) 1,4-dichlorobenzene	15.441	146	2575	0.97 ug/L	82
78) 1,2-dichlorobenzene	15.982	146	2926	1.19 ug/L	80

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100622.D Vial: 22
Acq On : 6 Oct 2008 6:46 pm Operator: BR
Sample : ,samp,me0809b67-14a,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 07:24:13 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100608\
Data File : A100622.D
Acq On : 6 Oct 2008 6:46 pm
Operator : BR
Sample : ,samp,me0809b67-14a,1,
Misc : 8260+_w
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100622.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.406	326	332	348	rBV2	20691	50014	4.63%	0.991%
2	6.149	771	783	794	rBV	147620	378976	35.05%	7.506%
3	6.586	846	855	869	rBV	153527	388029	35.89%	7.686%
4	7.000	911	923	940	rBV	300891	769740	71.20%	15.246%
5	9.256	1282	1294	1308	rBV	383739	987398	91.33%	19.557%
6	10.783	1533	1545	1556	rBV4	35464	103888	9.61%	2.058%
7	11.543	1657	1670	1692	rBV2	340431	1081099	100.00%	21.413%
8	13.543	1989	1999	2022	rBV2	224087	616441	57.02%	12.210%
9	15.404	2295	2305	2327	rBV	291008	673236	62.27%	13.335%

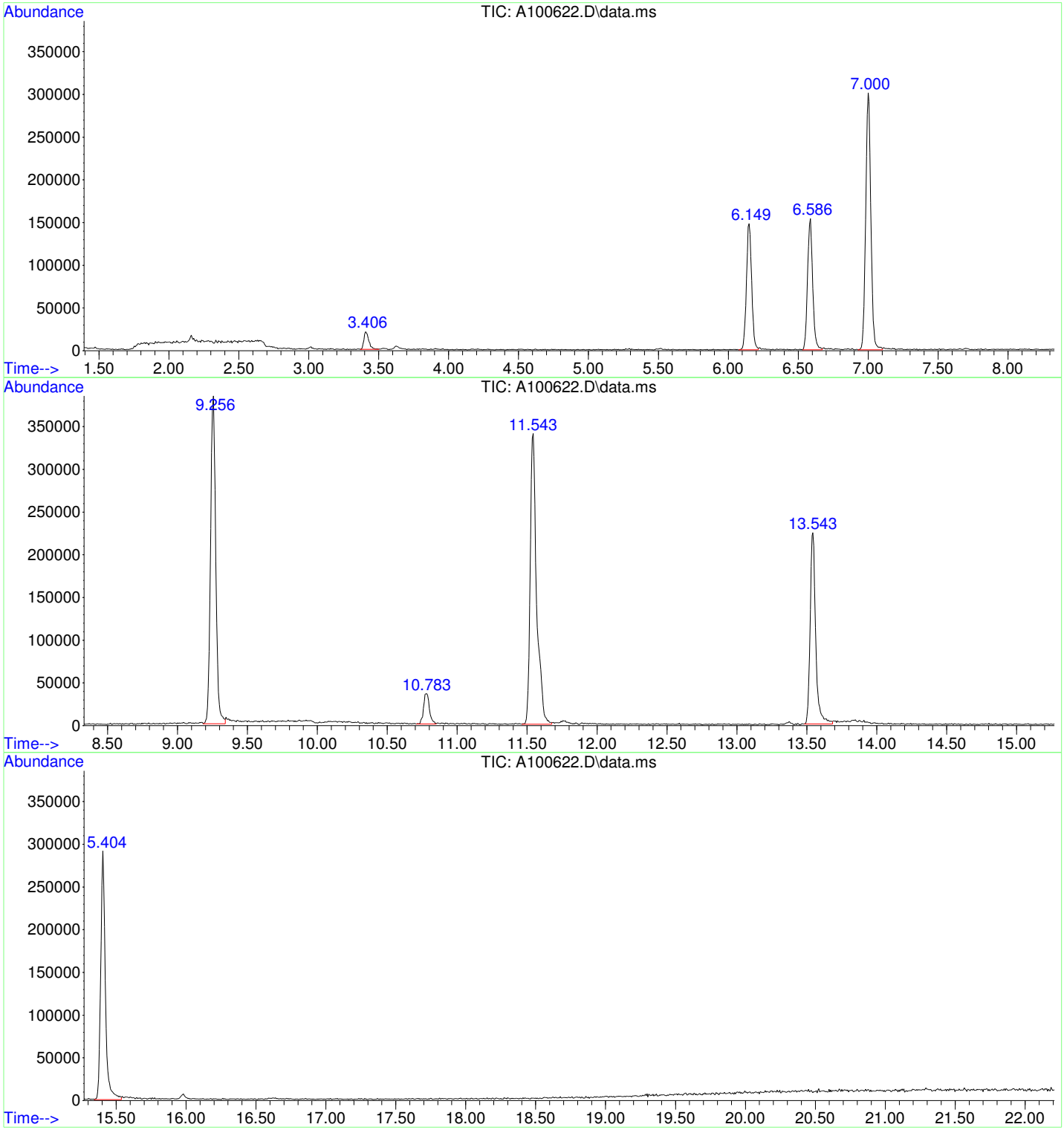
Sum of corrected areas: 5048821

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100608\
Data File : A100622.D
Acq On : 6 Oct 2008 6:46 pm
Operator : BR
Sample : ,samp,me0809b67-14a,1,
Misc : 8260+_w
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100608\\
  Data File : A100622.D
  Acq On    :  6 Oct 2008   6:46 pmm
  Operator  : BRR
  Sample    : ,samp,me0809b67-14a,1,,
  Misc      : 8260+_ww
  ALS Vial  : 22   Sample Multiplier: 11

  Quant Method : C:\msdchem\1\METHODS\WTR1003.MM
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Includedd

  TIC Library   : C:\DATABASE\nbs75k.LL
  TIC Integration Parameters: RTEINT.PP

                                                      |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100623.D Vial: 23
Acq On : 6 Oct 2008 7:19 pm Operator: BR
Sample : ,samp,me0809b67-15a,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 07:24:19 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

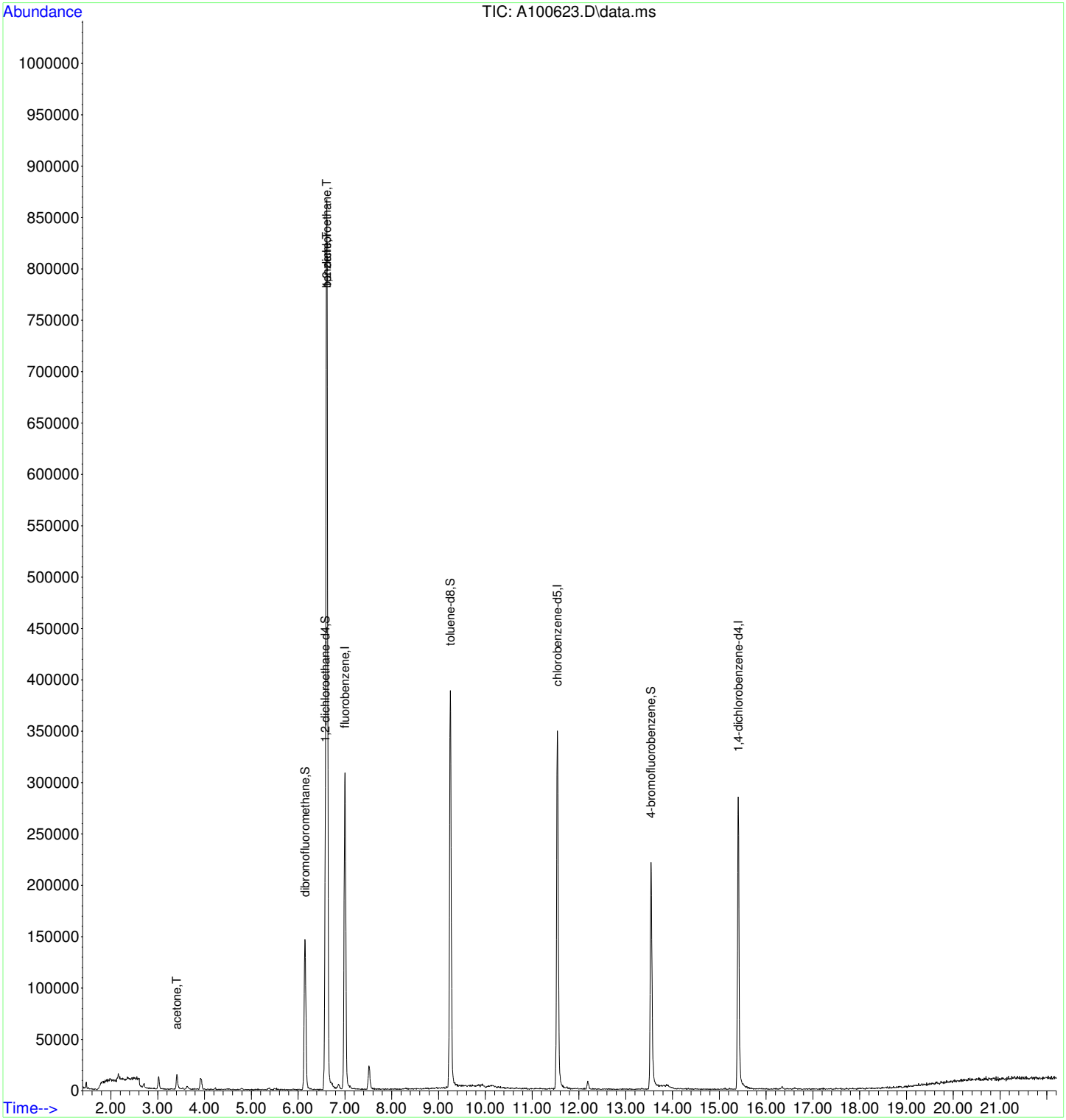
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.002	96	341420	50.00	ug/L	0.00
41) chlorobenzene-d5	11.539	117	274667	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.407	152	112518	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.151	113	112986	53.75	ug/L	0.00
30) 1,2-dichloroethane-d4	6.583	65	144580	55.78	ug/L	0.00
44) toluene-d8	9.252	98	340785	49.20	ug/L	0.00
63) 4-bromofluorobenzene	13.540	95	107186	41.99	ug/L	0.00
Target Compounds						Qvalue
11) acetone	3.408	43	21229	26.52	ug/L	87
31) benzene	6.613	78	902106	124.66	ug/L	98
33) 1,2-dichloroethane	6.613	62	8376	2.43	ug/L	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100623.D Vial: 23
Acq On : 6 Oct 2008 7:19 pm Operator: BR
Sample : ,samp,me0809b67-15a,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 07:24:19 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100608\
Data File : A100623.D
Acq On : 6 Oct 2008 7:19 pm
Operator : BR
Sample : ,samp,me0809b67-15a,1,
Misc : 8260+_w
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100623.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.145	769	782	801	rBV	146585	387599	15.55%	5.695%
2	6.613	844	859	872	rBV2	866636	2491909	100.00%	36.612%
3	7.002	912	923	939	rBV	307709	786939	31.58%	11.562%
4	9.252	1281	1293	1311	rBV	386824	975755	39.16%	14.336%
5	11.539	1659	1669	1690	rBV	348751	895563	35.94%	13.158%
6	13.540	1989	1998	2017	rBV2	220785	601096	24.12%	8.832%
7	15.407	2295	2305	2333	rBV	284997	667380	26.78%	9.805%

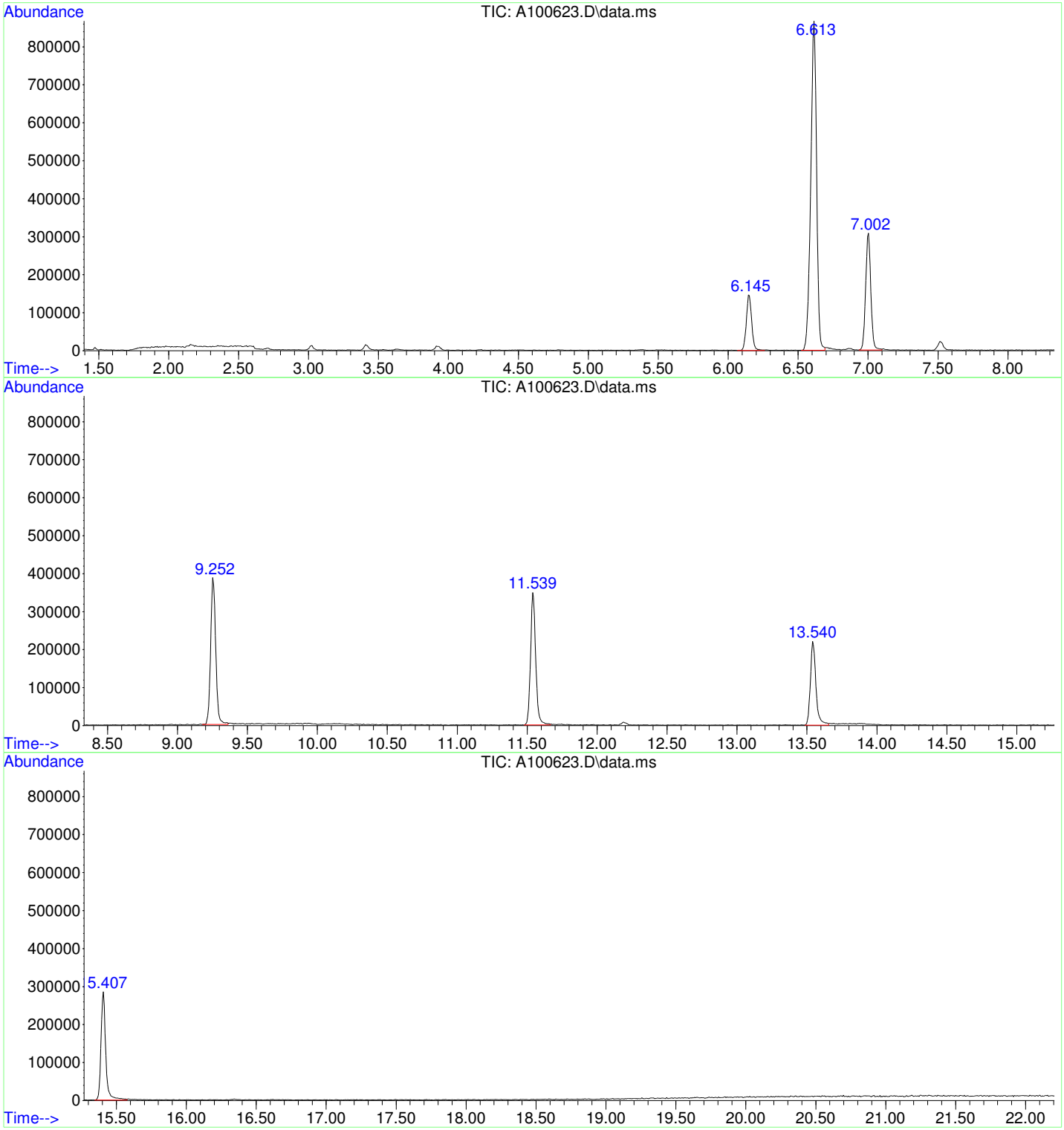
Sum of corrected areas: 6806241

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100608\
Data File : A100623.D
Acq On : 6 Oct 2008 7:19 pm
Operator : BR
Sample : ,samp,me0809b67-15a,1,
Misc : 8260+_w
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound (LSC) summary

```
  Data Path : D:\msdchem\1\data\A100608\\
  Data File : A100623.D
  Acq On    :  6 Oct 2008   7:19 pmm
  Operator  : BRR
  Sample    : ,samp,me0809b67-15a,1,,
  Misc      : 8260+_ww
  ALS Vial  : 23   Sample Multiplier: 11

  Quant Method : C:\msdchem\1\METHODS\WTR1003.MM
  Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Includedd

  TIC Library   : C:\DATABASE\nbs75k.LL
  TIC Integration Parameters: RTEINT.PP

                                                      |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------



   No Library Search Compounds Detected
   ************************************************************************
```

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100624.D Vial: 24
Acq On : 6 Oct 2008 7:51 pm Operator: BR
Sample : ,samp,me0809b67-16a,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 07:24:26 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M

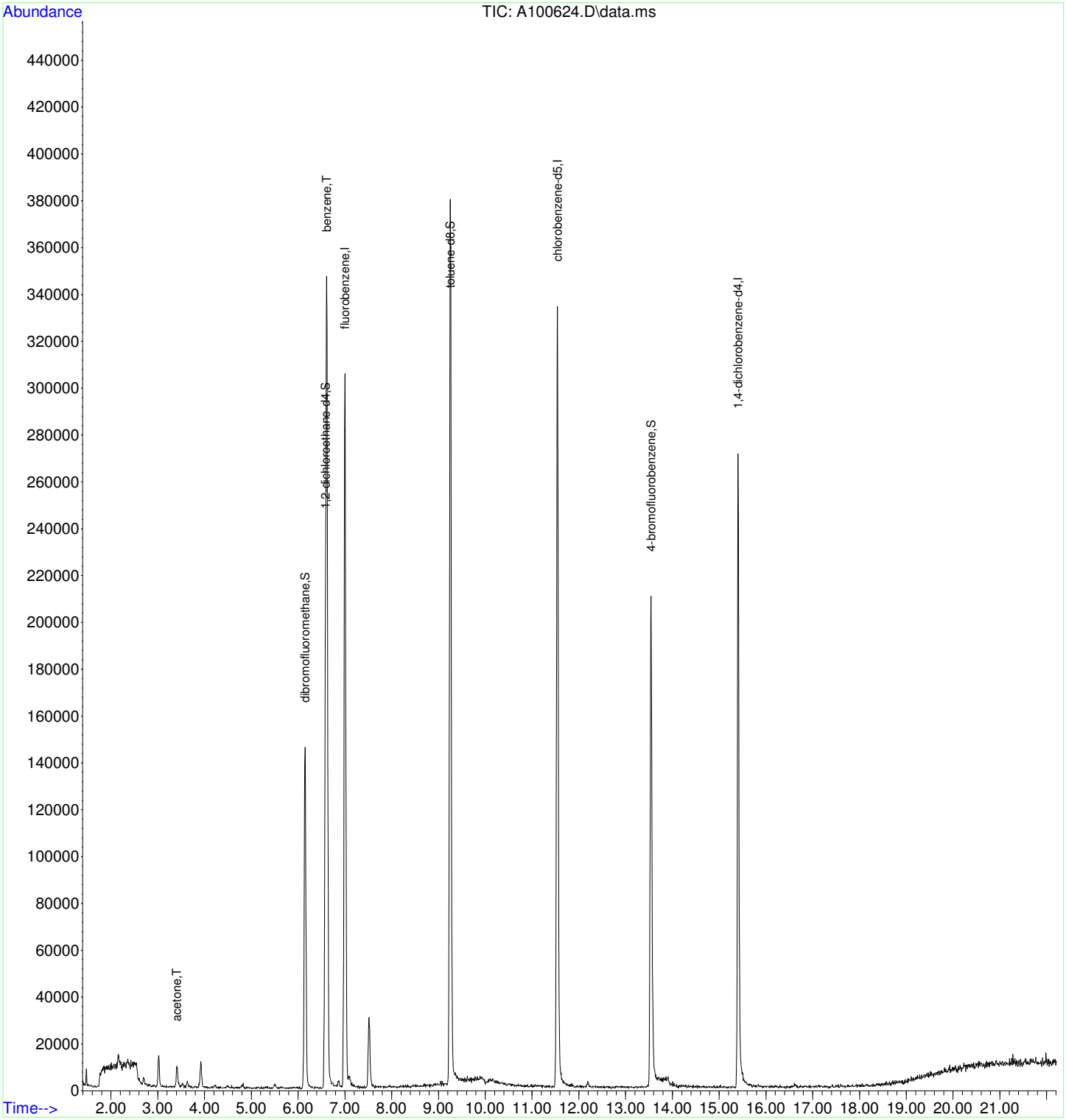
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	7.000	96	338711	50.00	ug/L	0.00
41) chlorobenzene-d5	11.543	117	272735	50.00	ug/L	0.00
69) 1,4-dichlorobenzene-d4	15.405	152	102235	50.00	ug/L	0.00
System Monitoring Compounds						
26) dibromofluoromethane	6.149	113	112992	54.18	ug/L	0.00
30) 1,2-dichloroethane-d4	6.587	65	142192	55.30	ug/L	0.00
44) toluene-d8	9.250	98	339291	49.33	ug/L	0.00
63) 4-bromofluorobenzene	13.544	95	103153	40.69	ug/L	0.00
Target Compounds						Qvalue
11) acetone	3.406	43	14672	18.48	ug/L	97
31) benzene	6.611	78	327348	45.60	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\msdchem\1\data\A100608\A100624.D Vial: 24
Acq On : 6 Oct 2008 7:51 pm Operator: BR
Sample : ,samp,me0809b67-16a,1, Inst : Instrument #1
Misc : 8260+_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 07 07:24:26 2008
Quant Results File: WTR1003.RES

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included
QLast Update : Fri Oct 03 15:00:26 2008
Response via : Initial Calibration
DataAcq Meth:VOA-AQ.M



LSC Area Percent Report

Data Path : D:\msdchem\1\data\A100608\
Data File : A100624.D
Acq On : 6 Oct 2008 7:51 pm
Operator : BR
Sample : ,samp,me0809b67-16a,1,
Misc : 8260+_w
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\WTR1003.M
Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

Signal : TIC: A100624.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.149	771	783	797	rBV2	146054	381182	33.03%	7.016%
2	6.611	844	859	877	rBV3	346680	1153929	100.00%	21.240%
3	7.000	911	923	935	rBV	304585	762138	66.05%	14.028%
4	7.517	995	1008	1020	rBV4	30277	85389	7.40%	1.572%
5	9.256	1282	1294	1311	rBV	378433	973166	84.33%	17.913%
6	11.543	1657	1670	1690	rBV	333489	868805	75.29%	15.992%
7	13.544	1989	1999	2021	rBV	209511	582526	50.48%	10.722%
8	15.405	2295	2305	2330	rBV	270914	625673	54.22%	11.517%

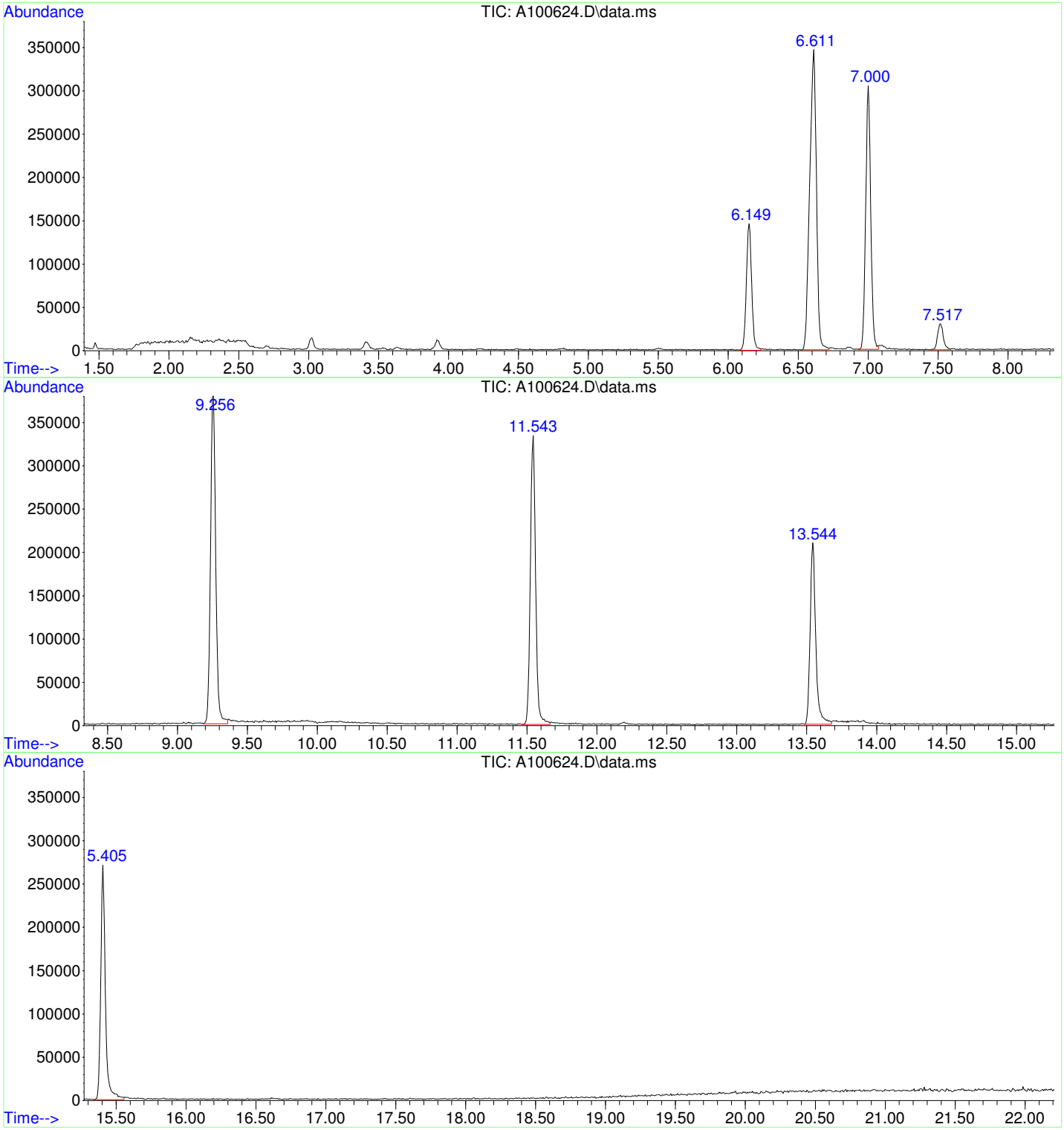
Sum of corrected areas: 5432808

LSC Report - Integrated Chromatogram

Data Path : D:\msdchem\1\data\A100608\
Data File : A100624.D
Acq On : 6 Oct 2008 7:51 pm
Operator : BR
Sample : ,samp,me0809b67-16a,1,
Misc : 8260+_w
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

```
Data Path : D:\msdchem\1\data\A100608\
Data File : A100624.D
Acq On    :  6 Oct 2008   7:51 pm
Operator  : BR
Sample    : ,samp,me0809b67-16a,1,
Misc      : 8260+_w
ALS Vial  : 24   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title  : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

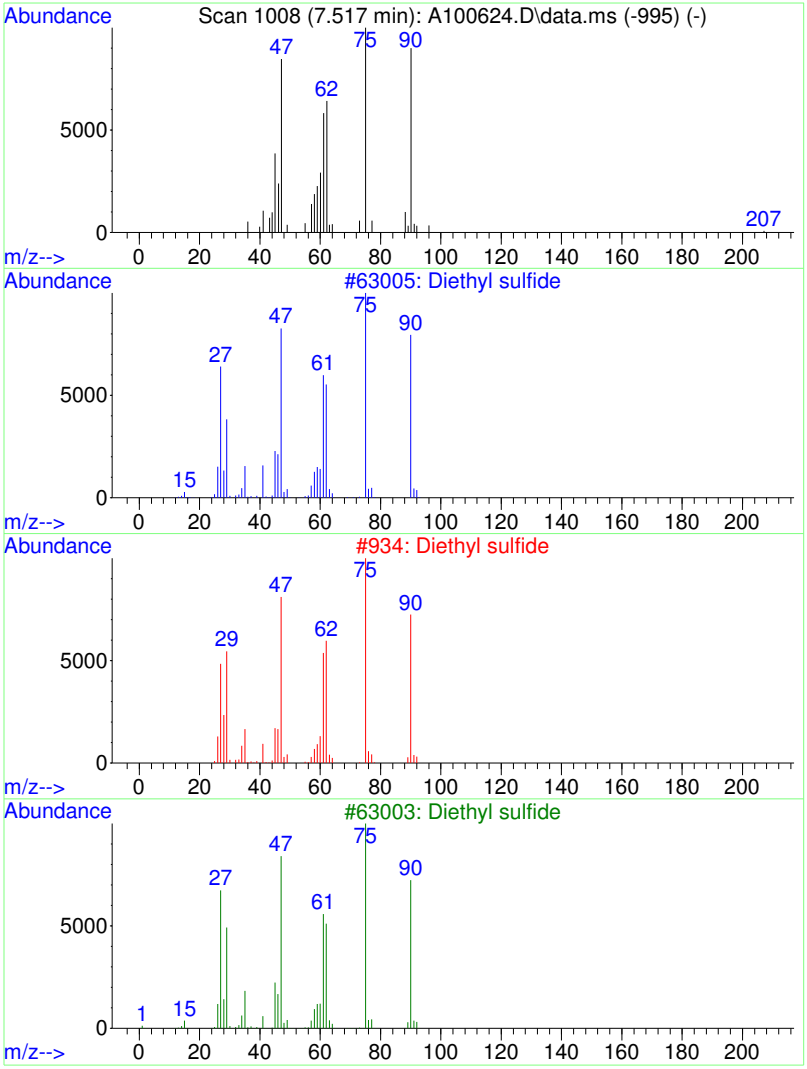
TIC Library    : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P
```

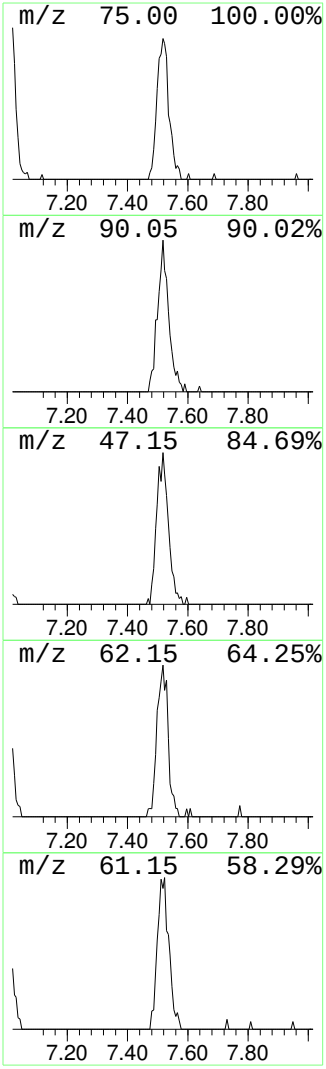
****

Peak Number 1 Diethyl sulfide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.517	5.60 ug/L	85389	fluorobenzene	7.000

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl sulfide	90	C4H10S	000352-93-2	90
2	Diethyl sulfide	90	C4H10S	000352-93-2	87
3	Diethyl sulfide	90	C4H10S	000352-93-2	87
4	Diethyl sulfide	90	C4H10S	000352-93-2	47
5	Dimethyl sulfide	62	C2H6S	000075-18-3	30





Tentatively Identified Compound (LSC) summary

Data Path : D:\msdchem\1\data\A100608\
Data File : A100624.D
Acq On : 6 Oct 2008 7:51 pm
Operator : BR
Sample : ,samp,me0809b67-16a,1,
Misc : 8260+_w
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\WTR1003.M
Quant Title : 5ml 8260_W ICAL 8260 10/03/08-MISC Included

TIC Library : C:\DATABASE\nbs75k.L
TIC Integration Parameters: RTEINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Diethyl sulfide	7.517	5.6	ug/L	85389	1	7.000	762138	50.0

INJECTION LOG(S)

Injection Log

Directory: c:\hpchem\4\data\e092608

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	e092601.d	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 08 06:04
2	2	e092602.d	1.	,CCV,CCV W 50 PPB,1,	8260_W	26 Sep 08 06:22
3	3	e092603.d	1.	,MBLK,MB-W-092608,1,	8260+_W	26 Sep 08 07:05
4	4	e092604.d	1.	,LCS,LCS-W-20 PPB,1,	8260+_W	26 Sep 08 07:35
5	5	e092605.d	1.	,SAMP,ME0809A94-15A,1,RA,	BTEX+M_W	26 Sep 08 08:29
6	6	e092606.d	1.	,SAMP,ME0809A94-17A,1,RA,	BTEX+M_W	26 Sep 08 09:00
7	7	e092607.d	1.	,SAMP,ME0809A94-10A,10,RA,	BTEX+M_W	26 Sep 08 09:31
8	8	e092608.d	1.	,SAMP,ME0809A94-13A,10,RA,	BTEX+M_W	26 Sep 08 10:01
9	9	e092609.d	1.	,SAMP,ME0809A94-14A,50,RA,	BTEX+M_W	26 Sep 08 10:32
10	10	e092610.d	1.	,SAMP,ME0809A94-16A,25,RA,	BTEX+M_W	26 Sep 08 11:03
11	11	e092611.d	1.	,SAMP,ME0809A94-18A,10,RA,	BTEX+M_W	26 Sep 08 11:33
12	12	e092612.d	1.	,MS,ME0809A94-17AMS,1,	8260+_W	26 Sep 08 12:04
13	13	e092613.d	1.	,MSD,ME0809A94-17AMSD,1,	8260+_W	26 Sep 08 12:35
14	14	e092614.d	1.	,TUNE,BFB TUNE,1,	BFB	26 Sep 08 14:31
15	15	e092615.d	1.	,CCV,CCV W 50 PPB,1,	8260_W	26 Sep 08 14:50
16	16	e092616.d	1.	,SAMP,ME0809B07-19A,1,	8260+_W	26 Sep 08 15:34
17	17	e092617.d	1.	,SAMP,ME0809B07-20A,1,	8260+_W	26 Sep 08 16:05
18	18	e092618.d	1.	,SAMP,ME0809B07-21A,1,	8260+_W	26 Sep 08 16:35
19	19	e092619.d	1.	,SAMP,ME0809B07-22A,1,	8260+_W	26 Sep 08 17:06
20	20	e092620.d	1.	,SAMP,ME0809B24-01A,1,	624+_W	26 Sep 08 17:37
21	21	e092621.d	1.	,SAMP,ME0809B24-02A,1,	624+_W	26 Sep 08 18:08
22	22	e092622.d	1.	,SAMP,ME0809B24-03A,1,	624+_W	26 Sep 08 18:38
23	23	e092623.d	1.	,SAMP,ME0809B24-04A,1,	624+_W	26 Sep 08 19:09
24	24	e092624.d	1.	,SAMP,ME0809B24-05A,1,	624+_W	26 Sep 08 19:40
25	25	e092625.d	1.	,SAMP,ME0809B24-06A,1,	624+_W	26 Sep 08 20:10
26	26	e092626.d	1.	,SAMP,ME0809B48-01H,10,	8260_W	26 Sep 08 20:41
27	27	e092627.d	1.	,SAMP,ME0809B67-01A,1,	8260+_W	26 Sep 08 21:19
28	28	e092628.d	1.	,SAMP,ME0809B67-02A,1,	8260+_W	26 Sep 08 21:49
29	29	e092629.d	1.	RINSE	8260+_W	26 Sep 08 22:20
30	30	e092630.d	1.	RINSE	8260+_W	26 Sep 08 22:51

Injection Log VOA1

Data Directory: D:\msdchem\1\data\A100308\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) A100301.D ,tune,bfb tune,1,	bfb	1	1.0	3 Oct 2008 6:53 am
2) A100302.D ,tune,bfb tune,1,	bfb	2	1.0	3 Oct 2008 7:18 am
3) A100303.D ,tune,bfb tune,1,	bfb	3	1.0	3 Oct 2008 7:46 am
4) A100304.D ,tune,bfb tune,1,	bfb	4	1.0	3 Oct 2008 8:29 am
5) A100305.D ,tune,bfb tune,1,	bfb	5	1.0	3 Oct 2008 9:09 am
6) A100306.D ,ccv,ccv-w-50 ppb,1,	8260_w	3	1.0	3 Oct 2008 9:35 am
7) A100307.D ,ICAL,ICAL-w-50 ppb,1,	8260+_w	7	1.0	3 Oct 2008 10:44 am
8) A100308.D ,ICAL,ICAL-w-20 ppb,1,	8260+_w	8	1.0	3 Oct 2008 11:16 am
9) A100309.D ,ICAL,ICAL-w-10 ppb,1,	8260+_w	9	1.0	3 Oct 2008 11:48 am
10) A100310.D ,ICAL,ICAL-w-5 ppb,1,	8260+_w	10	1.0	3 Oct 2008 12:20 pm
11) A100311.D ,ICAL,ICAL-w-70 ppb,1,	8260+_w	11	1.0	3 Oct 2008 12:52 pm
12) A100312.D ,ICAL,ICAL-w-100 ppb,1,	8260+_w	12	1.0	3 Oct 2008 1:32 pm
13) A100313.D ,ICAL,ICAL-w-200 ppb,1,	8260+_w	13	1.0	3 Oct 2008 2:05 pm
14) A100314.D ,LCS,LCS/ICv-w-50 ppb,1,	8260+_w	14	1.0	3 Oct 2008 2:48 pm
15) A100315.D ,tune,bfb tune,1,	bfb	15	1.0	3 Oct 2008 3:30 pm
16) A100316.D ,ccv,ccv-w-50 ppb,1,	8260+_w	16	1.0	3 Oct 2008 3:52 pm
17) A100317.D ,mblk,bk-w-10/03/08 ppb,1,	8260+_w	17	1.0	3 Oct 2008 4:32 pm
18) A100318.D ,SAMP,ME0810119-01A,1,	8260+_W	18	1.0	3 Oct 2008 5:09 pm
19) A100319.D ,SAMP,ME0810119-02A,1,	8260_W	19	1.0	3 Oct 2008 5:42 pm
20) A100320.D ,SAMP,ME0810119-03A,1,	8260_W	20	1.0	3 Oct 2008 6:15 pm
21) A100321.D				

```
,SAMP,ME0810119-04A,1,              8260_W                21    1.0      3 Oct 2008   6:47 pm
  ---------------------------------------------------------------------------------------------
22) A100322.D
,SAMP,ME0810119-05A,1,              8260_W                22    1.0      3 Oct 2008   7:20 pm
  ---------------------------------------------------------------------------------------------
23) A100323.D
,SAMP,ME0810119-06A,1,              8260_W                23    1.0      3 Oct 2008   7:53 pm
  ---------------------------------------------------------------------------------------------
24) A100324.D
,SAMP,ME0809B67-03A,1,              8260+_W               24    1.0      3 Oct 2008   8:26 pm
  ---------------------------------------------------------------------------------------------
25) A100325.D
,SAMP,ME0809B67-04A,1,              8260+_W               25    1.0      3 Oct 2008   8:58 pm
  ---------------------------------------------------------------------------------------------
26) A100326.D
,SAMP,ME0809B67-05A,1,              8260+_W               26    1.0      3 Oct 2008   9:32 pm
  ---------------------------------------------------------------------------------------------
27) A100327.D
,SAMP,ME0809B67-06A,1,              8260+_W               27    1.0      3 Oct 2008  10:04 pm
  ---------------------------------------------------------------------------------------------
28) A100328.D
,SAMP,ME0809B67-07A,1,              8260+_W               28    1.0      3 Oct 2008  10:38 pm
  ---------------------------------------------------------------------------------------------
29) A100329.D
,SAMP,ME0809B67-08A,1,              8260+_W               29    1.0      3 Oct 2008  11:12 pm
  ---------------------------------------------------------------------------------------------
30) A100330.D
,SAMP,ME0809B67-09A,1,              8260+_W               30    1.0      3 Oct 2008  11:46 pm
  ---------------------------------------------------------------------------------------------
31) A100331.D
,SAMP,ME0809B67-10A,1,              8260+_W               31    1.0      4 Oct 2008  12:21 am
  ---------------------------------------------------------------------------------------------
32) A100332.D
,SAMP,ME0809B67-11A,1,              8260+_W               32    1.0      4 Oct 2008  12:55 am
  ---------------------------------------------------------------------------------------------
33) A100333.D
,MS,me0810119-01AMS,1,              8260+_W               33    1.0      4 Oct 2008   1:28 am
  ---------------------------------------------------------------------------------------------
34) A100334.D
,MSD,ME0810119-01AMSD,1,            8260+_W               34    1.0      4 Oct 2008   2:00 am
  ---------------------------------------------------------------------------------------------
35) A100335.D
RINSE                               8260+_W               35    1.0      4 Oct 2008   2:34 am
  ---------------------------------------------------------------------------------------------
36) A100336.D
RINSE                               8260+_W               36    1.0      4 Oct 2008   3:07 am
  ---------------------------------------------------------------------------------------------
```

Injection Log

Directory: C:\HPCHEM\1\DATA\D100408

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	D100401.D	1.	,TUNE,BFB TUNE,1,	BFB	4 Oct 2008 07:30
2	2	D100402.D	1.	,CCV,CCV 50 PPB,1,	8260_W	4 Oct 2008 08:05
3	3	D100403.D	1.	,CCV,GRO 1000 PPB,1,	GRO_W	4 Oct 2008 08:40
4	4	D100404.D	1.	,CCV,CCV 50 PPB,1,	8260_W	4 Oct 2008 09:16
5	5	D100405.D	1.	,MBLK,MB 10/4,1,	GRO_W	4 Oct 2008 09:51
6	6	D100406.D	1.	,LCS,LCS 20 PPB,1,	8260+_W	4 Oct 2008 10:26
7	7	D100407.D	1.	,SAMP,ME0810031-01A,500,RA,	8260_5035_SB	4 Oct 2008 11:09
8	8	D100408.D	1.	,SAMP,ME0809D16-06A,1,RA,	BTEX+M_W	4 Oct 2008 11:45
9	9	D100409.D	1.	,SAMP,ME0809D22-01A,10,	GRO-IN_W	4 Oct 2008 12:20
10	10	D100410.D	1.	,SAMP,ME0809B67-05A,10,RA,	8260+_W	4 Oct 2008 12:55
11	11	D100411.D	1.	,SAMP,ME0810015-01A,1,	BTEX+M_W	4 Oct 2008 13:31
12	12	D100412.D	1.	,SAMP,ME0810015-02A,1,	BTEX+M_W	4 Oct 2008 14:06
13	13	D100413.D	1.	,SAMP,ME0810015-03A,1,	BTEX+M_W	4 Oct 2008 14:42
14	14	D100414.D	1.	,SAMP,ME0810015-04A,1,	BTEX+M_W	4 Oct 2008 15:17
15	15	D100415.D	1.	,SAMP,ME0810015-05A,1,	BTEX+M_W	4 Oct 2008 15:53
16	16	D100416.D	1.	,SAMP,ME0810015-06A,1,	GRO-IN_W	4 Oct 2008 16:28
17	17	D100417.D	1.	,SAMP,ME0810015-07A,1,	BTEX+M_W	4 Oct 2008 17:03
18	18	D100418.D	1.	,SAMP,ME0810015-08A,1,	BTEX+M_W	4 Oct 2008 17:38
19	19	D100419.D	1.	,MS,ME0809B67-05AMS,10,	8260+_W	4 Oct 2008 18:14
20	20	D100420.D	1.	,MSD,ME0809B67-05AMSD,10,	8260+_W	4 Oct 2008 18:49

Injection Log VOA1

Data Directory: D:\msdchem\1\data\A100608\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) A100601.D ,tune,bfb tune,1,	bfb	1	1.0	6 Oct 2008 6:30 am
2) A100602.D ,ccv,ccv-w-50 ppb,1,	8260_w	2	1.0	6 Oct 2008 6:52 am
3) A100603.D ,mblk,bk-w-10/06/08 ppb,1,	8260+_w	3	1.0	6 Oct 2008 7:41 am
4) A100604.D ,lcs,lcs-w-20 ppb,1,	1311_v	4	1.0	6 Oct 2008 8:13 am
5) A100605.D ,mblk,zhebk-100408,10,	1311_v	5	1.0	6 Oct 2008 9:35 am
6) A100606.D ,samp,me0810086-01a,10,	1311_v	6	1.0	6 Oct 2008 10:07 am
7) A100607.D ,samp,me0810086-02a,10,	1311_v	7	1.0	6 Oct 2008 10:39 am
8) A100608.D ,ms,me0810086-01ams,10,	8260+_w	8	1.0	6 Oct 2008 11:11 am
9) A100609.D ,msd,me0810086-01amsd,10,	8260+_w	9	1.0	6 Oct 2008 11:43 am
10) A100610.D ,samp,me0810130-01a,10,	1311_v	10	1.0	6 Oct 2008 12:15 pm
11) A100611.D ,samp,me0810149-01a,10,	1311_v	11	1.0	6 Oct 2008 12:48 pm
12) A100612.D ,samp,me0810150-01a,10,	1311_v	12	1.0	6 Oct 2008 1:22 pm
13) A100613.D ,samp,me0810151-01a,10,	1311_v	13	1.0	6 Oct 2008 1:55 pm
14) A100614.D ,tune,bfb tune,1,	bfb	14	1.0	6 Oct 2008 2:29 pm
15) A100615.D ,ccv,ccv-w-50 ppb,1,	8260_w	15	1.0	6 Oct 2008 2:51 pm
16) A100616.D ,ccv,ccv-w-50 ppb,1,	8260_w	16	1.0	6 Oct 2008 3:28 pm
17) A100617.D ,samp,me0810095-02a,1,	8260_w	17	1.0	6 Oct 2008 4:04 pm
18) A100618.D ,samp,me0809c82-01b,1,	624+_w	18	1.0	6 Oct 2008 4:37 pm
19) A100619.D ,samp,me0809c82-02b,1,	624+_w	19	1.0	6 Oct 2008 5:09 pm
20) A100620.D ,samp,me0809b67-12a,1,	8260+_w	20	1.0	6 Oct 2008 5:41 pm
21) A100621.D				

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,samp,me0809b67-13a,1,              8260+_w               21    1.0      6 Oct 2008   6:14 pm
  ---------------------------------------------------------------------------------------------
22) A100622.D
,samp,me0809b67-14a,1,              8260+_w               22    1.0      6 Oct 2008   6:46 pm
  ---------------------------------------------------------------------------------------------
23) A100623.D
,samp,me0809b67-15a,1,              8260+_w               23    1.0      6 Oct 2008   7:19 pm
  ---------------------------------------------------------------------------------------------
24) A100624.D
,samp,me0809b67-16a,1,              8260+_w               24    1.0      6 Oct 2008   7:51 pm
  ---------------------------------------------------------------------------------------------
25) A100625.D
,samp,me0810188-01b,1,              624+_w                25    1.0      6 Oct 2008   8:24 pm
  ---------------------------------------------------------------------------------------------
26) A100626.D
,samp,me0810040-02a,1000,           624+_w                26    1.0      6 Oct 2008   8:57 pm
  ---------------------------------------------------------------------------------------------
27) A100627.D
,samp,me0810074-01a,1,              624+_w                27    1.0      6 Oct 2008   9:29 pm
  ---------------------------------------------------------------------------------------------
28) A100628.D
,samp,me0810074-02a,1,              624+_w                28    1.0      6 Oct 2008  10:02 pm
  ---------------------------------------------------------------------------------------------
```

Injection Log VOA1

Data Directory: D:\msdchem\1\data\A100708\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) A100701.D ,tune,bfb tune,1,	bfb	1	1.0	7 Oct 2008 7:32 am
2) A100702.D ,ccv,ccv-w-50 ppb,1,	8260_w	2	1.0	7 Oct 2008 7:54 am
3) A100703.D ,ccv,ccv-w-50 ppb,1,	8260_w	3	1.0	7 Oct 2008 8:42 am
4) A100704.D ,mblk,bk-w-10/07/08 ppb,1,	8260+_w	4	1.0	7 Oct 2008 9:16 am
5) A100705.D ,lcs,lcs-w-20 ppb,1,	8260+_w	5	1.0	7 Oct 2008 9:48 am
6) A100706.D ,SAMP,ME0810088-01A,1,RA,	BTEX+M_W	6	1.0	7 Oct 2008 10:45 am
7) A100707.D ,SAMP,ME0810087-02A,10,RA,	624+_W	7	1.0	7 Oct 2008 11:17 am
8) A100708.D ,SAMP,ME0810120-01A,1,	624+_W	8	1.0	7 Oct 2008 11:49 am
9) A100709.D ,SAMP,ME0810129-01A,1,	624+_W	9	1.0	7 Oct 2008 12:21 pm
10) A100710.D ,SAMP,ME0810105-01A,500,	624_W	10	1.0	7 Oct 2008 12:54 pm
11) A100711.D ,MS,ME0810087-02AMS,10,	624+_W	7	1.0	7 Oct 2008 1:26 pm
12) A100712.D ,MSD,ME0810087-02AMSD,10,	624+_W	8	1.0	7 Oct 2008 1:59 pm
13) A100713.D ,tune,bfb tune,1,	bfb	13	1.0	7 Oct 2008 2:34 pm
14) A100714.D ,ccv,ccv-w-50 ppb,1,	8260_w	14	1.0	7 Oct 2008 2:56 pm
15) A100715.D ,SAMP,ME0809B67-12A,1,RA,	8260+_w	15	1.0	7 Oct 2008 3:44 pm
16) A100716.D ,SAMP,ME0809B67-13A,1,RA,	8260+_w	16	1.0	7 Oct 2008 4:16 pm
17) A100717.D ,SAMP,ME0810142-01A,1,	8260+_w	17	1.0	7 Oct 2008 4:49 pm
18) A100718.D ,SAMP,ME0810142-02A,1,	8260+_w	18	1.0	7 Oct 2008 5:22 pm
19) A100719.D ,SAMP,ME0810144-01A,1,	8260+_w	19	1.0	7 Oct 2008 5:55 pm
20) A100720.D ,SAMP,ME0810144-02A,1,	8260+_w	20	1.0	7 Oct 2008 6:28 pm
21) A100721.D				

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

MWH Americas, Inc.
175 West Jackson Blvd, Suite 1900
Chicago, IL 60604-2814
ATTN: Mr. Justin Finger

November 25, 2008

SUBJECT: ACS Monitoring Well, Data Validation

Dear Mr. Finger,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on November 6, 2008. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 19751:

SDG #	Fraction
ME0809B07, ME0809B67	Volatiles

The data validation was performed under EPA Level III and Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan, November 2001, Rev.0
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999

Please feel free to contact us if you have any questions.

Sincerely,

ERauto

Erlinda T. Rauto
Operations Manager/Senior Chemist

V:\LOGIN\MWH\ACS\19751COV.wpd

Attachment 1

RTC PARCC

LDC #19751 (MWH Americas, Inc.-Chicago IL / ACS Monitoring Well)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260B)																																	
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	ME0809B07	11/06/08	12/01/08	18	0																																
A	ME0809B07	11/06/08	12/01/08	4	0																																
B	ME0809B67	11/06/08	12/01/08	16	0																																
Total	T/LR			38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs

19751ST.wpd

ACS Monitoring Well
Data Validation Reports
LDC# 19751

Volatiles

LDC

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Monitoring Well

Collection Date: September 22 through September 24, 2008

LDC Report Date: November 19, 2008

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level III & IV

Laboratory: Microbac

Sample Delivery Group (SDG): ME0809B07

Sample Identification

ACS-GW-TB01-32
ACS-GW-EB01-32
ACS-GW-DUP01-32
ACS-GW-MW59-32**
ACS-GW-MW58-32
ACS-GW-MW28-32
ACS-GW-MW17-32**
ACS-GW-MW55-32
ACS-GW-MW54R-32
ACS-GW-EB02-32
ACS-GW-MW31-32
ACS-GW-MW08-32**
ACS-GW-MW32-32
ACS-GW-MW51-32
ACS-GW-MW33-32**
ACS-GW-MW30-32
ACS-GW-DUP02-32
ACS-GW-MW56-32
ACS-GW-MW11-32
ACS-GW-MW52-32
ACS-GW-MW53-32
ACS-GW-EB03-32
ACS-GW-MW58-32MS
ACS-GW-MW58-32MSD
ACS-GW-MW32-32MS
ACS-GW-MW32-32MSD

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 26 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
8/14/08	Bromomethane	45.62	ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32 MB-W-092608	J (all detects) UJ (all non-detects)	A
8/18/08	Methylene chloride	27.84	ACS-GW-MW32-32 ACS-GW-MW32-32MS ACS-GW-MW32-32MSD BK-9/26/08	J (all detects) UJ (all non-detects)	A

Date	Compound	%RSD	Associated Samples	Flag	A or P
8/15/08	Chloroethane	43.62	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW58-32 ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32** ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 ACS-GW-MW58-32MS ACS-GW-MW58-32MSD MB-9/25 MB-9/26	J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
8/14/08	2-Butanone	0.039 (≥0.05)	ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32 MB-W-092608	J (all detects) UJ (all non-detects)	A
8/18/08	2-Butanone	0.033 (≥0.05)	ACS-GW-MW32-32 ACS-GW-MW32-32MS ACS-GW-MW32-32MSD BK-9/26/08	J (all detects) UJ (all non-detects)	A

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
8/15/08	2-Butanone	0.030 (≥0.05)	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW58-32 ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32** ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 ACS-GW-MW58-32MS ACS-GW-MW58-32MSD MB-9/25 MB-9/26	J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
9/26/08 (E092602)	Bromomethane Carbon disulfide 1,2,4-Trichlorobenzene	34.7 29.0 26.6	MB-W-092608	J (all detects) UJ (all non-detects)	A
9/25/08 (C092502)	2-Butanone	30.0	MB-9/25	J (all detects) UJ (all non-detects)	A

Date	Compound	%D	Associated Samples	Flag	A or P
9/25/08 (C092515)	2-Butanone	26.7	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32**	J (all detects) UJ (all non-detects)	A
9/26/08 (D092602)	Chloromethane	28.8	ACS-GW-MW32-32 ACS-GW-MW32-32MS ACS-GW-MW32-32MSD BK-9/26/08	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values were within validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/26/08 (E092602)	Bromomethane 2-Butanone	0.047 (≥0.05) 0.034 (≥0.05)	MB-W-092608	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
9/26/08 (E092615)	2-Butanone	0.033 (≥0.05)	ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32	J (all detects) UJ (all non-detects)	A
9/25/08 (C092502)	Bromomethane 2-Butanone	0.047 (≥0.05) 0.021 (≥0.05)	MB-9/25	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
9/25/08 (C092515)	Acetone 2-Butanone	0.048 (≥0.05) 0.022 (≥0.05)	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32**	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/26/08 (C092602)	2-Butanone	0.025 (≥0.05)	ACS-GW-MW58-32 ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 MB-9/26	J (all detects) UJ (all non-detects)	A
9/26/08 (D092602)	2-Butanone	0.035 (≥0.05)	ACS-GW-MW32-32 ACS-GW-MW32-32MS ACS-GW-MW32-32MSD BK-9/26/08	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MB-9/26	9/26/08	Methylene chloride	15.12 ug/L	ACS-GW-MW58-32 ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32
BK-9/26/08	9/26/08	Methylene chloride	5.38 ug/L	ACS-GW-MW32-32

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
ACS-GW-MW32-32	Methylene chloride	3.8 ug/L	10UB ug/L

Sample ACS-GW-TB01-32 was identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACS-GW-TB01-32	9/22/08	Methylene chloride	9.5 ug/L	ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW58-32 ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW32-32 ACS-GW-MW51-32 ACS-GW-MW33-32** ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32

Samples ACS-GW-EB01-32, ACS-GW-EB02-32, and ACS-GW-EB03-32 were identified as equipment blanks. No volatile contaminants were found in these blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACS-GW-EB02-32	9/23/08	Chloroform	1.1 ug/L	ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW32-32 ACS-GW-MW51-32 ACS-GW-MW33-32** ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 ACS-GW-MW11-32 ACS-GW-MW52-32

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
ACS-GW-MW28-32	Methylene chloride	9.3 ug/L	10UB ug/L
ACS-GW-MW17-32**	Methylene chloride	9 ug/L	10UB ug/L

Sample	Compound	Reported Concentration	Modified Final Concentration
ACS-GW-MW55-32	Methylene chloride	8.7 ug/L	10UB ug/L
ACS-GW-MW32-32	Methylene chloride	3.8 ug/L	10UB ug/L
ACS-GW-MW51-32	Methylene chloride	9.2 ug/L	10UB ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
ACS-GW-MW58-32MS/MSD (ACS-GW-MW58-32)	Chloromethane	161 (10.8-155)	-	-	J (all detects)	A
	1,1-Dichloroethane	128 (68-119)	121 (68-119)	-	J (all detects)	
	1,2-Dichlorobenzene	125 (76.7-123)	124 (76.7-123)	-	J (all detects)	
	1,3-Dichlorobenzene	125 (69.3-116)	124 (69.3-116)	-	J (all detects)	
	1,4-Dichlorobenzene	124 (73.9-122)	122.5 (73.9-122)	-	J (all detects)	
	Chloroform	121 (71.2-120)	-	-	J (all detects)	
	Chlorobenzene	-	130 (75.6-127)	-	J (all detects)	
ACS-GW-MW32-32MS/MSD (ACS-GW-MW32-32)	Chloromethane	160 (10.8-155)	181 (10.8-155)	-	J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS-R118819	Chloromethane	141 (34.7-130)	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32** MB-9/25	J (all detects)	P
LCS-R118880	Chloromethane	148 (34.7-130)	ACS-GW-MW58-32 ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 MB-9/26	J (all detects)	P
LCS-R118885	Chloromethane	200 (34.7-130)	ACS-GW-MW32-32 BK-926/08	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIV. System Performance

The system performance was acceptable for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples ACS-GW-DUP01-32 and ACS-GW-MW54R-32 and samples ACS-GW-DUP02-32 and ACS-GW-MW53-32 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACS-GW-DUP01-32	ACS-GW-MW54R-32	
Acetone	17	15	13

Compound	Concentration (ug/L)		RPD
	ACS-GW-DUP02-32	ACS-GW-MW53-32	
Acetone	50U	8.6	200
Benzene	5.0U	1.2	200

ACS Monitoring Well
Volatiles - Data Qualification Summary - SDG ME0809B07

SDG	Sample	Compound	Flag	A or P	Reason
ME0809B07	ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32	Bromomethane	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
ME0809B07	ACS-GW-MW32-32	Methylene chloride	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
ME0809B07	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW58-32 ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32** ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32	Chloroethane	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
ME0809B07	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW58-32 ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW32-32 ACS-GW-MW51-32 ACS-GW-MW33-32** ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32	2-Butanone	J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)

SDG	Sample	Compound	Flag	A or P	Reason
ME0809B07	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32**	2-Butanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
ME0809B07	ACS-GW-MW32-32	Chloromethane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
ME0809B07	ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32 ACS-GW-MW58-32 ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 ACS-GW-MW32-32	2-Butanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
ME0809B07	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW51-32 ACS-GW-MW33-32**	Acetone 2-Butanone	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
ME0809B07	ACS-GW-MW58-32	Chloromethane 1,1-Dichloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Chloroform Chlorobenzene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)
ME0809B07	ACS-GW-MW32-32	Chloromethane	J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)

SDG	Sample	Compound	Flag	A or P	Reason
ME0809B07	ACS-GW-TB01-32 ACS-GW-EB01-32 ACS-GW-DUP01-32 ACS-GW-MW59-32** ACS-GW-MW58-32 ACS-GW-MW28-32 ACS-GW-MW17-32** ACS-GW-MW55-32 ACS-GW-MW54R-32 ACS-GW-EB02-32 ACS-GW-MW31-32 ACS-GW-MW08-32** ACS-GW-MW32-32 ACS-GW-MW51-32 ACS-GW-MW33-32** ACS-GW-MW30-32 ACS-GW-DUP02-32 ACS-GW-MW56-32 ACS-GW-MW11-32 ACS-GW-MW52-32 ACS-GW-MW53-32 ACS-GW-EB03-32	Chloromethane	J (all detects)	P	Laboratory control samples (%R)

ACS Monitoring Well
Volatiles - Laboratory Blank Data Qualification Summary - SDG ME0809B07

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
ME0809B07	ACS-GW-MW32-32	Methylene chloride	10UB ug/L	A

ACS Monitoring Well
Volatiles - Field Blank Data Qualification Summary - SDG ME0809B07

SDG	Sample	Compound	Modified Final Concentration	A or P
ME0809B07	ACS-GW-MW28-32	Methylene chloride	10UB ug/L	A
ME0809B07	ACS-GW-MW17-32**	Methylene chloride	10UB ug/L	A
ME0809B07	ACS-GW-MW55-32	Methylene chloride	10UB ug/L	A
ME0809B07	ACS-GW-MW32-32	Methylene chloride	10UB ug/L	A
ME0809B07	ACS-GW-MW51-32	Methylene chloride	10UB ug/L	A

Microbac®

ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-01
Collection Date: 09/22/08 08:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*ND*	5.8	50	UJ	µg/L	1	09/25/08 16:15
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 16:15
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 16:15
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 16:15
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 16:15
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 16:15
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 16:15
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 16:15
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 16:15
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 16:15
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 16:15
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 16:15
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 16:15
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 16:15
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 16:15
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 16:15
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 16:15
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 16:15
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 16:15
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 16:15
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 16:15
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 16:15
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 16:15
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 16:15
Methylene chloride	A	*9.5*	3.1	10	J	µg/L	1	09/25/08 16:15
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 16:15
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 16:15
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 16:15
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 16:15
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 16:15
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 16:15
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 16:15
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 16:15
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 16:15
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 16:15
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 16:15
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 16:15
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 16:15
Surr: 4-Bromofluorobenzene	S	100	0	76.9-116		%REC	1	09/25/08 16:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-01
Collection Date: 09/22/08 08:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**				Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	09/25/08 16:15
Surr: 1,2-Dichloroethane-d4	S	87.8	0	74.2-136		%REC	1	09/25/08 16:15
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 16:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-02
Collection Date: 09/22/08 10:30
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50	UJ	µg/L	1	09/25/08 16:45
Benzene	A	ND	0.8	5.0		µg/L	1	09/25/08 16:45
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/25/08 16:45
Bromoform	A	ND	0.8	5.0		µg/L	1	09/25/08 16:45
Bromomethane	A	ND	1.8	10		µg/L	1	09/25/08 16:45
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/25/08 16:45
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/25/08 16:45
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/25/08 16:45
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/25/08 16:45
Chloroethane	A	ND	2.3	10	UJ	µg/L	1	09/25/08 16:45
Chloroform	A	ND	0.9	5.0		µg/L	1	09/25/08 16:45
Chloromethane	A	ND	1	10		µg/L	1	09/25/08 16:45
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/25/08 16:45
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/25/08 16:45
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/25/08 16:45
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/25/08 16:45
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/25/08 16:45
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/25/08 16:45
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/25/08 16:45
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/25/08 16:45
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/25/08 16:45
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/25/08 16:45
2-Hexanone	A	ND	2.4	10		µg/L	1	09/25/08 16:45
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/25/08 16:45
Methylene chloride	A	ND	3.1	10		µg/L	1	09/25/08 16:45
Styrene	A	ND	0.7	5.0		µg/L	1	09/25/08 16:45
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/25/08 16:45
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/25/08 16:45
Toluene	A	ND	0.9	5.0		µg/L	1	09/25/08 16:45
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 16:45
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 16:45
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/25/08 16:45
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/25/08 16:45
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/25/08 16:45
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/25/08 16:45
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/25/08 16:45
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/25/08 16:45
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/25/08 16:45
Surr: 4-Bromofluorobenzene	S	101	0	76.9-116		%REC	1	09/25/08 16:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-02
Collection Date: 09/22/08 10:30
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/25/08 16:45
Surr: 1,2-Dichloroethane-d4	S	93.2	0	74.2-136		%REC	1	09/25/08 16:45
Surr: Toluene-d8	S	103	0	81.4-122		%REC	1	09/25/08 16:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-03
Collection Date: 09/22/08 11:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*17*	5.8	50	J J	µg/L	1	09/25/08 17:15
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:15
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 17:15
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 17:15
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 17:15
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:15
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 17:15
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 17:15
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 17:15
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:15
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 17:15
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 17:15
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:15
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:15
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 17:15
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 17:15
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 17:15
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:15
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 17:15
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 17:15
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 17:15
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:15
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 17:15
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 17:15
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 17:15
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 17:15
Surr: 4-Bromofluorobenzene	S	101	0	76.9-116		%REC	1	09/25/08 17:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-03
Collection Date: 09/22/08 11:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 17:15
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 17:15
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 17:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW59-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-04
Collection Date: 09/22/08 12:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*13*	5.8	50	J J	µg/L	1	09/25/08 17:46
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:46
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 17:46
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 17:46
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 17:46
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:46
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 17:46
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 17:46
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 17:46
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 17:46
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 17:46
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 17:46
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 17:46
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:46
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 17:46
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 17:46
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 17:46
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 17:46
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 17:46
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 17:46
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 17:46
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 17:46
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 17:46
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 17:46
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 17:46
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 17:46
Surr: 4-Bromofluorobenzene	S	102	0	76.9-116		%REC	1	09/25/08 17:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW59-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-04
Collection Date: 09/22/08 12:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**				Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	110	0	78.4-125		%REC	1	09/25/08 17:46
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 17:46
Surr: Toluene-d8	S	107	0	81.4-122		%REC	1	09/25/08 17:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW58-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-05
Collection Date: 09/22/08 12:05
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*28*	5.8	50	J	µg/L	1	09/26/08 09:01
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 09:01
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/26/08 09:01
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/26/08 09:01
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 09:01
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 09:01
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/26/08 09:01
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 09:01
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 09:01
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 09:01
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 09:01
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 09:01
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 09:01
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 09:01
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 09:01
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 09:01
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 09:01
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 09:01
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 09:01
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 09:01
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 09:01
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 09:01
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/26/08 09:01
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 09:01
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 09:01
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 09:01
Surr: 4-Bromofluorobenzene	S	99.4	0	76.9-116		%REC	1	09/26/08 09:01

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW58-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-05
Collection Date: 09/22/08 12:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**				Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	102	0	78.4-125		%REC	1	09/26/08 09:01
Surr: 1,2-Dichloroethane-d4	S	91.8	0	74.2-136		%REC	1	09/26/08 09:01
Surr: Toluene-d8	S	105	0	81.4-122		%REC	1	09/26/08 09:01

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW28-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-06
Collection Date: 09/22/08 14:35
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50	UJ	µg/L	1	09/25/08 18:15
Benzene	A	ND	0.8	5.0		µg/L	1	09/25/08 18:15
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/25/08 18:15
Bromoform	A	ND	0.8	5.0		µg/L	1	09/25/08 18:15
Bromomethane	A	ND	1.8	10		µg/L	1	09/25/08 18:15
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/25/08 18:15
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/25/08 18:15
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/25/08 18:15
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/25/08 18:15
Chloroethane	A	ND	2.3	10	UJ	µg/L	1	09/25/08 18:15
Chloroform	A	ND	0.9	5.0		µg/L	1	09/25/08 18:15
Chloromethane	A	ND	1	10		µg/L	1	09/25/08 18:15
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/25/08 18:15
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/25/08 18:15
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/25/08 18:15
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/25/08 18:15
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/25/08 18:15
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/25/08 18:15
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/25/08 18:15
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/25/08 18:15
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/25/08 18:15
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/25/08 18:15
2-Hexanone	A	ND	2.4	10		µg/L	1	09/25/08 18:15
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/25/08 18:15
Methylene chloride	A	9.3	3.1	10	J	µg/L 10UB	1	09/25/08 18:15
Styrene	A	ND	0.7	5.0		µg/L	1	09/25/08 18:15
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/25/08 18:15
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/25/08 18:15
Toluene	A	ND	0.9	5.0		µg/L	1	09/25/08 18:15
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 18:15
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 18:15
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/25/08 18:15
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/25/08 18:15
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/25/08 18:15
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/25/08 18:15
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/25/08 18:15
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/25/08 18:15
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/25/08 18:15
Surr: 4-Bromofluorobenzene	S	99.4	0	76.9-116		%REC	1	09/25/08 18:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW28-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-06
Collection Date: 09/22/08 14:35
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 18:15
Surr: 1,2-Dichloroethane-d4	S	106	0	74.2-136		%REC	1	09/25/08 18:15
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 18:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW17-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-07
Collection Date: 09/22/08 14:55
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*11*	5.8	50	J J	µg/L	1	09/25/08 18:45
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 18:45
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 18:45
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 18:45
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 18:45
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 18:45
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 18:45
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 18:45
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 18:45
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 18:45
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 18:45
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 18:45
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 18:45
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 18:45
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 18:45
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 18:45
Methylene chloride	A	*9*	3.1	10	J	µg/L 10UB	1	09/25/08 18:45
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 18:45
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 18:45
Tetrachloroethene	A	*1.7*	1.3	5.0	J	µg/L	1	09/25/08 18:45
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 18:45
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 18:45
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 18:45
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 18:45
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 18:45
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 18:45
Surr: 4-Bromofluorobenzene	S	102	0	76.9-116		%REC	1	09/25/08 18:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW17-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-07
Collection Date: 09/22/08 14:55
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 18:45
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	09/25/08 18:45
Surr: Toluene-d8	S	105	0	81.4-122		%REC	1	09/25/08 18:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW55-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-08
Collection Date: 09/22/08 16:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*11*	5.8	50	J J	µg/L	1	09/25/08 19:15
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:15
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:15
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:15
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 19:15
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 19:15
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 19:15
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 19:15
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:15
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 19:15
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:15
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 19:15
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:15
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:15
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 19:15
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 19:15
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:15
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 19:15
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 19:15
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:15
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:15
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:15
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 19:15
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 19:15
Methylene chloride	A	*8.7*	3.1	10	J	µg/L 10UB	1	09/25/08 19:15
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:15
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 19:15
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 19:15
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:15
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:15
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:15
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:15
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 19:15
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:15
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 19:15
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 19:15
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 19:15
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 19:15
Surr: 4-Bromofluorobenzene	S	99.6	0	76.9-116		%REC	1	09/25/08 19:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW55-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-08
Collection Date: 09/22/08 16:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	113	0	78.4-125		%REC	1	09/25/08 19:15
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	09/25/08 19:15
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 19:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW54R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-09
Collection Date: 09/22/08 16:30
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*15*	5.8	50	J J	µg/L	1	09/25/08 19:45
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:45
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 19:45
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 19:45
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 19:45
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 19:45
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 19:45
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 19:45
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 19:45
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 19:45
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 19:45
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 19:45
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 19:45
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:45
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 19:45
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 19:45
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 19:45
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 19:45
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 19:45
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 19:45
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 19:45
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 19:45
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 19:45
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 19:45
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 19:45
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 19:45
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/25/08 19:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW54R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-09
Collection Date: 09/22/08 16:30
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 19:45
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	09/25/08 19:45
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 19:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-10
Collection Date: 09/23/08 07:45
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50	UJ	µg/L	1	09/25/08 20:15
Benzene	A	ND	0.8	5.0		µg/L	1	09/25/08 20:15
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/25/08 20:15
Bromoform	A	ND	0.8	5.0		µg/L	1	09/25/08 20:15
Bromomethane	A	ND	1.8	10		µg/L	1	09/25/08 20:15
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/25/08 20:15
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/25/08 20:15
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/25/08 20:15
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/25/08 20:15
Chloroethane	A	ND	2.3	10	UJ	µg/L	1	09/25/08 20:15
Chloroform	A	1.1	0.9	5.0	J	µg/L	1	09/25/08 20:15
Chloromethane	A	ND	1	10		µg/L	1	09/25/08 20:15
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/25/08 20:15
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/25/08 20:15
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/25/08 20:15
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/25/08 20:15
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/25/08 20:15
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/25/08 20:15
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/25/08 20:15
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/25/08 20:15
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/25/08 20:15
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/25/08 20:15
2-Hexanone	A	ND	2.4	10		µg/L	1	09/25/08 20:15
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/25/08 20:15
Methylene chloride	A	ND	3.1	10		µg/L	1	09/25/08 20:15
Styrene	A	ND	0.7	5.0		µg/L	1	09/25/08 20:15
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/25/08 20:15
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/25/08 20:15
Toluene	A	ND	0.9	5.0		µg/L	1	09/25/08 20:15
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 20:15
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 20:15
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/25/08 20:15
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/25/08 20:15
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/25/08 20:15
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/25/08 20:15
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/25/08 20:15
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/25/08 20:15
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/25/08 20:15
Surr: 4-Bromofluorobenzene	S	101	0	76.9-116		%REC	1	09/25/08 20:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-10
Collection Date: 09/23/08 07:45
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	106	0	78.4-125		%REC	1	09/25/08 20:15
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 20:15
Surr: Toluene-d8	S	102	0	81.4-122		%REC	1	09/25/08 20:15

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW31-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-11
Collection Date: 09/23/08 08:55
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*17*	5.8	50	J J	µg/L	1	09/25/08 20:45
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 20:45
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 20:45
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 20:45
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 20:45
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 20:45
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 20:45
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 20:45
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 20:45
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 20:45
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 20:45
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 20:45
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 20:45
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 20:45
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 20:45
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 20:45
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 20:45
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 20:45
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 20:45
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 20:45
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 20:45
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 20:45
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 20:45
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 20:45
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 20:45
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 20:45
Surr: 4-Bromofluorobenzene	S	99.4	0	76.9-116		%REC	1	09/25/08 20:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW31-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-11
Collection Date: 09/23/08 08:55
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	103	0	78.4-125		%REC	1	09/25/08 20:45
Surr: 1,2-Dichloroethane-d4	S	104	0	74.2-136		%REC	1	09/25/08 20:45
Surr: Toluene-d8	S	103	0	81.4-122		%REC	1	09/25/08 20:45

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW08-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-12
Collection Date: 09/23/08 09:20
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*16*	5.8	50	J J	µg/L	1	09/25/08 21:16
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/25/08 21:16
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/25/08 21:16
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/25/08 21:16
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/25/08 21:16
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/25/08 21:16
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/25/08 21:16
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
Chloromethane	A	*ND*	1	10		µg/L	1	09/25/08 21:16
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/25/08 21:16
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/25/08 21:16
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/25/08 21:16
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/25/08 21:16
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/25/08 21:16
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 21:16
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/25/08 21:16
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/25/08 21:16
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/25/08 21:16
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/25/08 21:16
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/25/08 21:16
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/25/08 21:16
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/25/08 21:16
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/25/08 21:16
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/25/08 21:16
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/25/08 21:16
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/25/08 21:16
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/25/08 21:16
Surr: 4-Bromofluorobenzene	S	99.6	0	76.9-116		%REC	1	09/25/08 21:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW08-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-12
Collection Date: 09/23/08 09:20
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	09/25/08 21:16
Surr: 1,2-Dichloroethane-d4	S	114	0	74.2-136		%REC	1	09/25/08 21:16
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/25/08 21:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW32-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-13
Collection Date: 09/23/08 10:10
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*19*	5.8	50	J	µg/L	1	09/26/08 13:51
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 13:51
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 13:51
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 13:51
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/26/08 13:51
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/26/08 13:51
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 13:51
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 13:51
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 13:51
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/26/08 13:51
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 13:51
Chloromethane	A	*ND*	1	10	UJ	µg/L	1	09/26/08 13:51
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 13:51
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 13:51
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 13:51
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 13:51
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 13:51
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 13:51
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 13:51
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 13:51
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 13:51
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 13:51
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 13:51
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 13:51
Methylene chloride	A	*3.8*	3.1	10	J	µg/L 104BJ	1	09/26/08 13:51
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 13:51
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 13:51
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 13:51
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 13:51
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 13:51
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 13:51
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 13:51
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 13:51
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 13:51
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/26/08 13:51
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 13:51
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 13:51
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 13:51
Surr: 4-Bromofluorobenzene	S	99.5	0	76.9-116		%REC	1	09/26/08 13:51

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW32-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-13
Collection Date: 09/23/08 10:10
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	09/26/08 13:51
Surr: 1,2-Dichloroethane-d4	S	103	0	74.2-136		%REC	1	09/26/08 13:51
Surr: Toluene-d8	S	101	0	81.4-122		%REC	1	09/26/08 13:51

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW51-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-14
Collection Date: 09/23/08 10:40
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50	UJ	µg/L	1	09/25/08 21:46
Benzene	A	ND	0.8	5.0		µg/L	1	09/25/08 21:46
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/25/08 21:46
Bromoform	A	ND	0.8	5.0		µg/L	1	09/25/08 21:46
Bromomethane	A	ND	1.8	10		µg/L	1	09/25/08 21:46
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/25/08 21:46
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/25/08 21:46
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/25/08 21:46
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/25/08 21:46
Chloroethane	A	ND	2.3	10	UJ	µg/L	1	09/25/08 21:46
Chloroform	A	ND	0.9	5.0		µg/L	1	09/25/08 21:46
Chloromethane	A	ND	1	10		µg/L	1	09/25/08 21:46
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/25/08 21:46
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/25/08 21:46
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/25/08 21:46
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/25/08 21:46
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/25/08 21:46
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/25/08 21:46
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/25/08 21:46
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/25/08 21:46
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/25/08 21:46
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/25/08 21:46
2-Hexanone	A	ND	2.4	10		µg/L	1	09/25/08 21:46
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/25/08 21:46
Methylene chloride	A	9.2	3.1	10	J	µg/L 10UB	1	09/25/08 21:46
Styrene	A	ND	0.7	5.0		µg/L	1	09/25/08 21:46
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/25/08 21:46
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/25/08 21:46
Toluene	A	ND	0.9	5.0		µg/L	1	09/25/08 21:46
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 21:46
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 21:46
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/25/08 21:46
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/25/08 21:46
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/25/08 21:46
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/25/08 21:46
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/25/08 21:46
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/25/08 21:46
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/25/08 21:46
Surr: 4-Bromofluorobenzene	S	105	0	76.9-116		%REC	1	09/25/08 21:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW51-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-14
Collection Date: 09/23/08 10:40
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	123	0	78.4-125		%REC	1	09/25/08 21:46
Surr: 1,2-Dichloroethane-d4	S	123	0	74.2-136		%REC	1	09/25/08 21:46
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 21:46

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW33-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-15
Collection Date: 09/23/08 11:20
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50	UJ	µg/L	1	09/25/08 22:16
Benzene	A	4.5	0.8	5.0	J	µg/L	1	09/25/08 22:16
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/25/08 22:16
Bromoform	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
Bromomethane	A	ND	1.8	10		µg/L	1	09/25/08 22:16
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/25/08 22:16
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/25/08 22:16
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/25/08 22:16
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
Chloroethane	A	ND	2.3	10	UJ	µg/L	1	09/25/08 22:16
Chloroform	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
Chloromethane	A	ND	1	10		µg/L	1	09/25/08 22:16
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/25/08 22:16
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/25/08 22:16
cis-1,2-Dichloroethene	A	1.7	0.8	5.0	J	µg/L	1	09/25/08 22:16
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/25/08 22:16
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/25/08 22:16
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/25/08 22:16
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/25/08 22:16
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
2-Hexanone	A	ND	2.4	10		µg/L	1	09/25/08 22:16
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/25/08 22:16
Methylene chloride	A	ND	3.1	10		µg/L	1	09/25/08 22:16
Styrene	A	ND	0.7	5.0		µg/L	1	09/25/08 22:16
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/25/08 22:16
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/25/08 22:16
Toluene	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/25/08 22:16
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/25/08 22:16
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/25/08 22:16
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/25/08 22:16
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/25/08 22:16
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/25/08 22:16
Surr: 4-Bromofluorobenzene	S	99.3	0	76.9-116		%REC	1	09/25/08 22:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW33-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-15
Collection Date: 09/23/08 11:20
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/25/08 22:16
Surr: 1,2-Dichloroethane-d4	S	113	0	74.2-136		%REC	1	09/25/08 22:16
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/25/08 22:16

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW30-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-16
Collection Date: 09/23/08 11:30
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*9.8*	5.8	50	J	µg/L	1	09/26/08 10:32
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 10:32
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
Bromomethane	A	*ND*	1.8	10		µg/L	1	09/26/08 10:32
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/26/08 10:32
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 10:32
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 10:32
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
Chloroethane	A	*ND*	2.3	10	UJ	µg/L	1	09/26/08 10:32
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 10:32
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 10:32
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 10:32
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 10:32
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 10:32
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 10:32
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 10:32
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 10:32
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 10:32
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 10:32
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 10:32
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 10:32
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 10:32
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 10:32
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 10:32
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/26/08 10:32
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 10:32
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 10:32
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 10:32
Surr: 4-Bromofluorobenzene	S	97.0	0	76.9-116		%REC	1	09/26/08 10:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW30-32
Sample Description:
Sample Matrix: Aqueous

Work-Order / ID: ME0809B07-16
Collection Date: 09/23/08 11:30
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	09/26/08 10:32
Surr: 1,2-Dichloroethane-d4	S	97.2	0	74.2-136		%REC	1	09/26/08 10:32
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/26/08 10:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-17
Collection Date: 09/23/08 12:00
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	09/26/08 11:02
Benzene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:02
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/26/08 11:02
Bromoform	A	ND	0.8	5.0		µg/L	1	09/26/08 11:02
Bromomethane	A	ND	1.8	10		µg/L	1	09/26/08 11:02
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/26/08 11:02
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/26/08 11:02
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/26/08 11:02
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:02
Chloroethane	A	ND	2.3	10	UJ	µg/L	1	09/26/08 11:02
Chloroform	A	ND	0.9	5.0		µg/L	1	09/26/08 11:02
Chloromethane	A	ND	1	10		µg/L	1	09/26/08 11:02
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/26/08 11:02
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/26/08 11:02
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/26/08 11:02
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/26/08 11:02
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:02
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/26/08 11:02
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/26/08 11:02
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:02
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/26/08 11:02
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:02
2-Hexanone	A	ND	2.4	10		µg/L	1	09/26/08 11:02
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/26/08 11:02
Methylene chloride	A	ND	3.1	10		µg/L	1	09/26/08 11:02
Styrene	A	ND	0.7	5.0		µg/L	1	09/26/08 11:02
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/26/08 11:02
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/26/08 11:02
Toluene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:02
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 11:02
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 11:02
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:02
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/26/08 11:02
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/26/08 11:02
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/26/08 11:02
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/26/08 11:02
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/26/08 11:02
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/26/08 11:02
Surr: 4-Bromofluorobenzene	S	100	0	76.9-116		%REC	1	09/26/08 11:02

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-17
Collection Date: 09/23/08 12:00
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/26/08 11:02
Surr: 1,2-Dichloroethane-d4	S	100	0	74.2-136		%REC	1	09/26/08 11:02
Surr: Toluene-d8	S	104	0	81.4-122		%REC	1	09/26/08 11:02

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW56-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-18
Collection Date: 09/23/08 14:05
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	09/26/08 11:32
Benzene	A	13	0.8	5.0		µg/L	1	09/26/08 11:32
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/26/08 11:32
Bromoform	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
Bromomethane	A	ND	1.8	10		µg/L	1	09/26/08 11:32
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/26/08 11:32
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/26/08 11:32
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/26/08 11:32
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
Chloroethane	A	2.4	2.3	10	J J	µg/L	1	09/26/08 11:32
Chloroform	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
Chloromethane	A	ND	1	10		µg/L	1	09/26/08 11:32
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/26/08 11:32
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/26/08 11:32
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/26/08 11:32
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/26/08 11:32
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/26/08 11:32
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/26/08 11:32
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
2-Hexanone	A	ND	2.4	10		µg/L	1	09/26/08 11:32
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/26/08 11:32
Methylene chloride	A	ND	3.1	10		µg/L	1	09/26/08 11:32
Styrene	A	ND	0.7	5.0		µg/L	1	09/26/08 11:32
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/26/08 11:32
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/26/08 11:32
Toluene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/26/08 11:32
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/26/08 11:32
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/26/08 11:32
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/26/08 11:32
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/26/08 11:32
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/26/08 11:32
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/26/08 11:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-MW56-32	**Work Order / ID:**	ME0809B07-18
Sample Description:		**Collection Date:**	09/23/08 14:05
Sample Matrix:	Aqueous	**Date Received:**	09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	109	0	78.4-125		%REC	1	09/26/08 11:32
Surr: 1,2-Dichloroethane-d4	S	109	0	74.2-136		%REC	1	09/26/08 11:32
Surr: Toluene-d8	S	103	0	81.4-122		%REC	1	09/26/08 11:32

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW11-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-19
Collection Date: 09/23/08 14:05
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*ND*	5.8	50		µg/L	1	09/26/08 15:34
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 15:34
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 15:34
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 15:34
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	09/26/08 15:34
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/26/08 15:34
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 15:34
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 15:34
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 15:34
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/26/08 15:34
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 15:34
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 15:34
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 15:34
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 15:34
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 15:34
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 15:34
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 15:34
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 15:34
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 15:34
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 15:34
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 15:34
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 15:34
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 15:34
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 15:34
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 15:34
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 15:34
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 15:34
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 15:34
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 15:34
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 15:34
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 15:34
Trichloroethene	A	*1.3*	0.9	5.0	J	µg/L	1	09/26/08 15:34
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 15:34
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 15:34
1,2,4-Trichlorobenzene	A	*2.4*	2	5.0	J	µg/L	1	09/26/08 15:34
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 15:34
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 15:34
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 15:34
Surr: 4-Bromofluorobenzene	S	100	0	76.9-116		%REC	1	09/26/08 15:34

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW11-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-19
Collection Date: 09/23/08 14:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
Surr: Dibromofluoromethane	S	99.8	0	78.4-125		%REC	1	09/26/08 15:34
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	09/26/08 15:34
Surr: Toluene-d8	S	107	0	81.4-122		%REC	1	09/26/08 15:34

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW52-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-20
Collection Date: 09/23/08 15:05
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	09/26/08 16:05
Benzene	A	ND	0.8	5.0		µg/L	1	09/26/08 16:05
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/26/08 16:05
Bromoform	A	ND	0.8	5.0		µg/L	1	09/26/08 16:05
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	09/26/08 16:05
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/26/08 16:05
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/26/08 16:05
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/26/08 16:05
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/26/08 16:05
Chloroethane	A	ND	2.3	10		µg/L	1	09/26/08 16:05
Chloroform	A	ND	0.9	5.0		µg/L	1	09/26/08 16:05
Chloromethane	A	ND	1	10		µg/L	1	09/26/08 16:05
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/26/08 16:05
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/26/08 16:05
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/26/08 16:05
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/26/08 16:05
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/26/08 16:05
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/26/08 16:05
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/26/08 16:05
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/26/08 16:05
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/26/08 16:05
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/26/08 16:05
2-Hexanone	A	ND	2.4	10		µg/L	1	09/26/08 16:05
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/26/08 16:05
Methylene chloride	A	ND	3.1	10		µg/L	1	09/26/08 16:05
Styrene	A	ND	0.7	5.0		µg/L	1	09/26/08 16:05
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/26/08 16:05
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/26/08 16:05
Toluene	A	ND	0.9	5.0		µg/L	1	09/26/08 16:05
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 16:05
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 16:05
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/26/08 16:05
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/26/08 16:05
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/26/08 16:05
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/26/08 16:05
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/26/08 16:05
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/26/08 16:05
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/26/08 16:05
Surr: 4-Bromofluorobenzene	S	99.2	0	76.9-116		%REC	1	09/26/08 16:05

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW52-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-20
Collection Date: 09/23/08 15:05
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**				Prep Date/Time:			Analyst: **MLT**
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	09/26/08 16:05
Surr: 1,2-Dichloroethane-d4	S	109	0	74.2-136		%REC	1	09/26/08 16:05
Surr: Toluene-d8	S	106	0	81.4-122		%REC	1	09/26/08 16:05

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW53-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-21
Collection Date: 09/23/08 15:25
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*8.6*	5.8	50	J	µg/L	1	09/26/08 16:35
Benzene	A	*1.2*	0.8	5.0	J	µg/L	1	09/26/08 16:35
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 16:35
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 16:35
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	09/26/08 16:35
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/26/08 16:35
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 16:35
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 16:35
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 16:35
Chloroethane	A	*ND*	2.3	10		µg/L	1	09/26/08 16:35
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 16:35
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 16:35
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 16:35
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 16:35
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 16:35
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 16:35
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 16:35
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 16:35
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 16:35
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 16:35
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 16:35
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 16:35
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 16:35
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 16:35
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 16:35
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 16:35
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 16:35
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 16:35
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 16:35
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 16:35
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 16:35
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 16:35
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 16:35
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 16:35
1,2,4-Trichlorobenzene	A	*ND*	2	5.0		µg/L	1	09/26/08 16:35
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 16:35
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 16:35
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 16:35
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/26/08 16:35

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10/21/08

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-MW53-32	**Work Order / ID:**	ME0809B07-21
Sample Description:		**Collection Date:**	09/23/08 15:25
Sample Matrix:	Aqueous	**Date Received:**	09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/26/08 16:35
Surr: 1,2-Dichloroethane-d4	S	113	0	74.2-136		%REC	1	09/26/08 16:35
Surr: Toluene-d8	S	109	0	81.4-122		%REC	1	09/26/08 16:35

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11/21/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-22
Collection Date: 09/23/08 08:10
Date Received: 09/24/08 13:30

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	09/26/08 17:06
Benzene	A	ND	0.8	5.0		µg/L	1	09/26/08 17:06
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/26/08 17:06
Bromoform	A	ND	0.8	5.0		µg/L	1	09/26/08 17:06
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	09/26/08 17:06
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/26/08 17:06
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/26/08 17:06
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/26/08 17:06
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/26/08 17:06
Chloroethane	A	ND	2.3	10		µg/L	1	09/26/08 17:06
Chloroform	A	ND	0.9	5.0		µg/L	1	09/26/08 17:06
Chloromethane	A	ND	1	10		µg/L	1	09/26/08 17:06
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/26/08 17:06
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/26/08 17:06
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/26/08 17:06
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/26/08 17:06
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/26/08 17:06
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/26/08 17:06
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/26/08 17:06
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/26/08 17:06
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/26/08 17:06
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/26/08 17:06
2-Hexanone	A	ND	2.4	10		µg/L	1	09/26/08 17:06
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/26/08 17:06
Methylene chloride	A	ND	3.1	10		µg/L	1	09/26/08 17:06
Styrene	A	ND	0.7	5.0		µg/L	1	09/26/08 17:06
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/26/08 17:06
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/26/08 17:06
Toluene	A	ND	0.9	5.0		µg/L	1	09/26/08 17:06
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 17:06
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 17:06
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/26/08 17:06
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/26/08 17:06
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/26/08 17:06
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/26/08 17:06
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/26/08 17:06
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/26/08 17:06
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/26/08 17:06
Surr: 4-Bromofluorobenzene	S	104	0	76.9-116		%REC	1	09/26/08 17:06

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11/01/08

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ANALYTICAL RESULTS

Date: *Monday, October 13, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-EB03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B07-22
Collection Date: 09/23/08 08:10
Date Received: 09/24/08 13:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	09/26/08 17:06
Surr: 1,2-Dichloroethane-d4	S	113	0	74.2-136		%REC	1	09/26/08 17:06
Surr: Toluene-d8	S	108	0	81.4-122		%REC	1	09/26/08 17:06

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11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-TB01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-01A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C0

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituted Benzoic Acid	3.11	7.0	

FORM I TIC

11/20/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-EB01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-02A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C0

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

11/18/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-DUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-03A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.81	9.1	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW59-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-04A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.81	12.3	
	Unknown Alcohol	4.19	8.8	
	Unknown	6.70	5.7	
	Unknown	7.98	62.5	

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW58-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-05A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Alcohol	1.80	9.1	
	Unknown Alcohol	4.19	12.0	
	Unknown Alcohol	6.71	6.7	
	Unknown	7.99	21.0	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW28-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-06A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.71	17.4	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW17-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-07A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	2.13	8.5	
	Unknown	9.04	70.6	

FORM I TIC

11/12/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW55-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-08A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C0

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Acid	1.78	7.6	
	Unknown Acid	2.66	13.4	
	Unknown	9.07	50.7	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW54R-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-09A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C0

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.81	7.0	
	Unknown Alcohol	4.19	6.4	
	Unknown	8.00	52.7	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-EB02-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-10A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C0

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW31-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-11A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.75	10.7	
	Unknown	9.06	68.4	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW08-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-12A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW32-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-13A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\DATA\D092608\D09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	5.78	6.5	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW51-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-14A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	3.09	943.0	
	Unknown	8.00	49.8	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW33-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-15A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092508\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/25/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 6 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.76	18.4	
	Unknown	3.09	5.9	
	Unknown	5.86	140.8	
	Unknown Alcohol	6.70	14.8	
	Unknown	7.56	9.5	
	Unknown	8.00	77.1	

FORM I TIC

9/11/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW30-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-16A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.76	9.3	
	Unknown	8.00	54.4	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-DUP02-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-17A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C0

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	9.05	38.2	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW56-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-18A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\C092608\C09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 2 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	1.68	7.5	
	Unknown	9.07	51.0	

FORM I TIC

9/11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW11-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-19A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW52-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-20A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND	Unknown	2.88	50.0	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW53-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-21A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-EB03-32

Lab Name: Microbac Laboratories, Inc. Contract: _____

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B07

Matrix: (soil/water) water Lab Sample ID: ME0809B07-22A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\4\DATA\E092608\E09

Level: LOW Date Received: 9/24/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

9/11/08

LDC #: 19751A1

SDG #: ME0809B07

Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 11/19/08

Page: 1 of 1

Reviewer: JVG

2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/22 – 24/08
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration/ICV	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	Not reviewed for Level III validation.
XII.	Compound quantitation/CRQLs	A	Not reviewed for Level III validation.
XIII.	Tentitatively identified compounds (TICs)	A	Not reviewed for Level III validation.
XIV.	System performance	A	Not reviewed for Level III validation.
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D_1 = 3, 9 D_2 = 17, 21
XVII.	Field blanks	SW	TB = 1 EB = *2, 10, *22

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; * ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

Water

+ 1	1	ACS-GW-TB01-32	+ 1	11	ACS-GW-MW31-32	+ 1	21	ACS-GW-MW53-32 D1	− 1	31	MB 9/25 R118819
− 1	2	ACS-GW-EB01-32	+ 1	12	ACS-GW-MW08-32**	− 1	22	ACS-GW-EB03-32	− 2	32	MB-W-092608 R118879
+ 1	3	ACS-GW-DUP01-32 D1	+ 4	13	ACS-GW-MW32-32	3	23	ACS-GW-MW58-32MS	+ 3	33	MB 9/26 R118880
+ 1	4	ACS-GW-MW59-32**	+ 1	14	ACS-GW-MW51-32	3	24	ACS-GW-MW58-32MSD	+ 4	34	BK-9/26/08 R118885
+ 3	5	ACS-GW-MW58-32	+ 1	15	ACS-GW-MW33-32**	4	25	ACS-GW-MW32-32MS		35	
+ 1	6	ACS-GW-MW28-32	+ 3	16	ACS-GW-MW30-32	4	26	ACS-GW-MW32-32MSD		36	
+ 1	7	ACS-GW-MW17-32**	− 3	17	ACS-GW-DUP02-32 D1		27			37	
+ 1	8	ACS-GW-MW55-32	+ 3	18	ACS-GW-MW56-32		28			38	
+ 1	9	ACS-GW-MW54R-32 D1	+ 2	19	ACS-GW-MW11-32		29			39	
+ 1	10	ACS-GW-EB02-32	− 2	20	ACS-GW-MW52-32		30			40	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 19757A1
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: NG
2nd Reviewer: [illegible]

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) < 25% and relative response factors (RRF) > 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 19757A1
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	✓			
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	✓			
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XVII. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

LDC #: 19757A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: JVB
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? None
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: <30.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	8/14/08	ICAL - VOA5	B	45.62		19-22, MB W-092608	J/NJ A
			M		0.039		
	8/18/08	ICAL - VOA4	E	27.84		13, 25, 26, BK-9/26/08	
			M		0.033		
	8/15/08	ICAL - VOA3	D	43.62		1-12, 14, 15-18, 23, 24,	
			M		0.030	MB-9/25, MB 9/26	

VOA 3 - 4 pts. only = C, D, F
VOA 5 - = B, F
VOA 4 - = D

INICAL.1SB

LDC #: 19757 A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	9/26/08	E092602	B	34.7		MB-W-092608	J/NJ/A
			G	29.0			
			kkk	26.6			
			B		0.047		
			M		0.034		
	9/26/08	E092615	M		0.033	19-22	
	9/25/08	C092502	M	30.0		MB 9/25	
			B		0.047		
			M		0.021		
	9/25/08	C092515	M	26.7		1-4, 6-12, 14, 15,	
			F		0.048		
			M		0.022		
	9/26/08	C092602	M		0.025	5, 16-18, MB 9/26	
	9/26/08	D092602	A	28.8		13, 25, 26, BK-9/26/08	
			M		0.035		

CONCAL.1SB

LDC #: 19751A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 9/26/08
Conc. units: ug/L
Associated Samples: 5 16-18 (ND)

Compound	Blank ID	Sample Identification								
	MB 9/26									
Methylene chloride	15.12									
Acetone										
CRQL										

Blank analysis date: 9/26/08
Conc. units: ug/L
Associated Samples: 13

Compound	Blank ID	Sample Identification								
	BK-9/26/08	13								
Methylene chloride	5.38	3.8 / 10 UB								
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 19751A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: e

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L All except 1
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: Associated Samples:

Compound	Blank ID 1	Blank ID	Sample Identification							
Sampling Date	9/22/08		6	7	8	13	14			
Methylene chloride	9.5		9.3/10 UB	9/10 UB	8.7/10UB	3.8/10UB	9.2/10 UB			
Acetone										
Chloroform										
CRQL										

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: EB Associated Samples: 11 – 21 (ND)

Compound	Blank ID 10	Blank ID	Sample Identification							
Sampling Date	9/23/08									
Methylene chloride										
Acetone										
Chloroform	1.1									
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 19751 A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		23/24	A	161 (10.8-155)	( )	( )	5	J det /A
			I	128 (68-119)	121 (68-119)	( )		
			JJJ	125 (76.7-123)	124 (76.7-123)	( )		
			FFF	125 69.3-116)	124 (69.3-116)	( )		
			HHH	124 (73.9-122)	122.5 (73.9-122)	( )		
			K	121 (71.2-120)	( )	( )		
			DD	( )	130 (75.6-127)	( )		
				( )	( )	( )		
				( )	( )	( )		
		25/26	A	160 (10.8-155)	181 (10.8-155)	( )	13	
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	< 22%	61-145%	< 14%
S.	Trichloroethene	62-137%	< 24%	71-120%	< 14%
V.	Benzene	66-142%	< 21%	76-127%	< 11%
CC.	Toluene	59-139%	< 21%	76-125%	< 13%
DD.	Chlorobenzene	60-133%	< 21%	75-130%	< 13%

LDC #: 19751A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		LCS-R118819	A	141 (34.7-130)	( )	( )	1-4, 6-12, 14, 15, MB 9/25	J dets/p
				( )	( )	( )		
				( )	( )	( )		
		LCS-R118880	A	148 ( )	( )	( )	5, 16-18, MB 9/26	
				( )	( )	( )		
				( )	( )	( )		
		LCS-R118885	A	200 ( )	( )	( )	13, BK-9/26/08	
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 19751 A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: SVG
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	3	9	
F	17	15	13

Compound	Concentration (ug/L)		RPD
	17	21	
F	50U	8.6	200
V	5.0U	1.2	↓

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 19757A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
$\%RSD = 100 * (S/X)$

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of Internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (50 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/15/08	C (1st internal standard)	0.307	0.307	0.329	0.329	21.79	21.79
	VOA 3		CC (2nd internal standard)	0.804	0.804	0.777	0.777	13.18	13.17
			BB (3rd internal standard)	1.179	1.179	1.203	1.203	10.54	10.53
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19751A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	C092502	9/25/08	C (1st internal standard)	0.329	0.291	0.291	11.6	11.6
			CC (2nd internal standard)	0.777	0.826	0.826	6.3	6.3
			BB (3rd internal standard)	1.203	1.109	1.109	7.8	7.8
2	C092515	9/25/08	C (1st internal standard)	0.329	0.287	0.287	12.8	12.7
			CC (2nd internal standard)	0.777	0.768	0.768	1.2	1.1
			BB (3rd internal standard)	1.203	1.130	1.130	6.1	6.1
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19757A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 4

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	50	53.37	107	107	0
Bromofluorobenzene		50.98	102	102	
1,2-Dichloroethane-d4		52.20	104	104	
Dibromofluoromethane		54.87	110	110	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 19757 A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSDC I * 2/(MSC + MSDC) MSC = Matrix spike percent recovery MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 23/24

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-----	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	20	20	0	17.86	17.09	89.3	89.3	85.4	85.4	4.41	4.41
Trichloroethene				23.6	21.48	118	118	107	107	9.41	9.41
Benzene				23.18	21.66	116	116	108	108	6.78	6.78
Toluene				24.52	25.16	123	123	126	125	2.58	2.58
Chlorobenzene				25.35	25.97	127	127	130	130	2.46	2.47

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19751A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: OVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS-R118819

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	20	NA	17.32	NA	86.6	86.6				
Trichloroethene			22.33		112	112				
Benzene			20.88		104	104				
Toluene			23.27		116	116				
Chlorobenzene			23.77		119	119				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LCSCLC 1SB

LDC #: 19751 A1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JVC
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
RRF	=	Relative response factor of the calibration standard.
V_o	=	Volume or weight of sample pruged in milliliters (ml) or grams (g).
Df	=	Dilution factor.
%S	=	Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #7, AA:

Conc. = $\frac{(9871)(50)(\quad)(\quad)}{(1141993)(0.255)(\quad)(\quad)}$

= 1.69

≈ 1.7 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Monitoring Well

Collection Date: September 24 through September 25, 2008

LDC Report Date: November 19, 2008

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level III

Laboratory: Microbac

Sample Delivery Group (SDG): ME0809B67

Sample Identification

ACS-GW-TB02-32
ACS-GW-MW29-32
ACS-GW-MW14-32
ACS-GW-MW09R-32
ACS-GW-MW10C-32
ACS-GW-MW23-32
ACS-GW-DUP03-32
ACS-GW-MW06-32
ACS-GW-MW19-32
ACS-GW-MW15-32
ACS-GW-TB03-32
ACS-GW-MW42-32
ACS-GW-MW43-32
ACS-GW-MW45-32
ACS-GW-MW49-32
ACS-GW-MW48-32
ACS-GW-MW10C-32MS
ACS-GW-MW10C-32MSD

Introduction

This data review covers 18 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%RSD	Associated Samples	Flag	A or P
8/14/08	Bromomethane	45.62	ACS-GW-TB02-32 ACS-GW-MW29-32 MB-W-092608	J (all detects) UJ (all non-detects)	A
8/18/08	Methylene chloride	27.84	ACS-GW-MW10C-32MS ACS-GW-MW10C-32MSD BK-9/26/08	J (all detects) UJ (all non-detects)	A
10/3/08	Bromomethane 1,2,4-Trichlorobenzene	25.96 28.87	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 ACS-GW-MW42-32 ACS-GW-MW43-32 ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32 BK-W-10/03/08 BK-W-10/06/08 BK-W-10/07/08	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
8/14/08	2-Butanone	0.039 (≥0.05)	ACS-GW-TB02-32 ACS-GW-MW29-32 MB-W-092608	J (all detects) UJ (all non-detects)	A
8/18/08	2-Butanone	0.033 (≥0.05)	ACS-GW-MW10C-32MS ACS-GW-MW10C-32MSD BK-9/26/08	J (all detects) UJ (all non-detects)	A
10/3/08	2-Butanone	0.032 (≥0.05)	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 ACS-GW-MW42-32 ACS-GW-MW43-32 ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32 BK-W-10/03/08 BK-W-10/06/08 BK-W-10/07/08	J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
9/26/08 (E092602)	Bromomethane Carbon disulfide 1,2,4-Trichlorobenzene	34.7 29.0 26.6	MB-W-092608	J (all detects) UJ (all non-detects)	A

Date	Compound	%D	Associated Samples	Flag	A or P
10/3/08 (A100316)	1,2,4-Trichlorobenzene	27.1	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 BK-W-10/03/08	J (all detects) UJ (all non-detects)	A
10/6/08 (A100616)	Bromomethane Acetone 1,2,4-Trichlorobenzene	37.1 26.5 27.8	ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values were within validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/26/08 (E092602)	Bromomethane 2-Butanone	0.047 (≥0.05) 0.034 (≥0.05)	MB-W-092608	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
9/26/08 (E092615)	2-Butanone	0.033 (≥0.05)	ACS-GW-TB02-32 ACS-GW-MW29-32	J (all detects) UJ (all non-detects)	A
10/3/08 (A100316)	2-Butanone	0.033 (≥0.05)	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 BK-W-10/03/08	J (all detects) UJ (all non-detects)	A
10/4/08 (D100404)	2-Butanone	0.032 (≥0.05)	ACS-GW-MW10C-32MS ACS-GW-MW10C-32MSD MB-10/4	J (all detects) UJ (all non-detects)	A
10/6/08 (A100602)	2-Butanone	0.032 (≥0.05)	BK-W-10/06/08	J (all detects) UJ (all non-detects)	A
10/6/08 (A100616)	2-Butanone	0.040 (≥0.05)	ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32	J (all detects) UJ (all non-detects)	A

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
10/7/08 (A100703)	2-Butanone	0.035 (≥0.05)	BK-W-10/07/08	J (all detects) UJ (all non-detects)	A
10/7/08 (A100714)	2-Butanone	0.031 (≥0.05)	ACS-GW-MW42-32 ACS-GW-MW43-32	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MB-10/4	10/4/08	Benzene	1.55 ug/L	ACS-GW-MW10C-32

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks.

Samples ACS-GW-TB02-32 and ACS-GW-TB03-32 were identified as trip blanks. No volatile contaminants were found in these blanks with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACS-GW-TB02-32	9/24/08	Acetone	7.7 ug/L	ACS-GW-MW29-32 ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-MW42-32 ACS-GW-MW43-32 ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32

Sample ACS-GW-EB03-32 (from SDG ME0809B07) was identified as an equipment blank. No volatile contaminants were found in these blanks.

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
ACS-GW-MW29-32	Acetone	6.2 ug/L	50UB ug/L
ACS-GW-MW45-32	Acetone	42 ug/L	50UB ug/L
ACS-GW-MW49-32	Acetone	27 ug/L	50UB ug/L
ACS-GW-MW48-32	Acetone	18 ug/L	50UB ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within the QC limits. Since the samples were diluted out, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS-R119265	Chloromethane	143 (34.7-130)	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 BK-W-10/03/08	J (all detects)	P
LCS-R119327	Chloromethane	136 (34.7-130)	ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32 BK-W-10/06/08	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
ACS-GW-MW09R-32	1,4-Dichlorobenzene-d4	111021 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P
ACS-GW-MW10C-32	1,4-Dichlorobenzene-d4	113434 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P
ACS-GW-MW23-32	1,4-Dichlorobenzene-d4	108281 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P
ACS-GW-DUP03-32	1,4-Dichlorobenzene-d4	108266 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P
ACS-GW-MW06-32	1,4-Dichlorobenzene-d4	108779 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P
ACS-GW-MW19-32	1,4-Dichlorobenzene-d4	109345 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P
ACS-GW-MW15-32	1,4-Dichlorobenzene-d4	103307 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
ACS-GW-TB03-32	1,4-Dichlorobenzene-d4	99686 (125048-500192)	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples ACS-GW-DUP03-32 and ACS-GW-MW06-32 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACS-GW-DUP03-32	ACS-GW-MW06-32	
Benzene	170	160	6
Chloroethane	37	36	3

ACS Monitoring Well
Volatiles - Data Qualification Summary - SDG ME0809B67

SDG	Sample	Compound	Flag	A or P	Reason
ME0809B67	ACS-GW-TB02-32 ACS-GW-MW29-32	Bromomethane	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
ME0809B67	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 ACS-GW-MW42-32 ACS-GW-MW43-32 ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32	Bromomethane 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD)
ME0809B67	ACS-GW-TB02-32 ACS-GW-MW29-32 ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 ACS-GW-MW42-32 ACS-GW-MW43-32 ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32	2-Butanone	J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
ME0809B67	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32	1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
ME0809B67	ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32	Bromomethane Acetone 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)

SDG	Sample	Compound	Flag	A or P	Reason
ME0809B67	ACS-GW-TB02-32 ACS-GW-MW29-32 ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 ACS-GW-MW42-32 ACS-GW-MW43-32 ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32	2-Butanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
ME0809B67	ACS-GW-MW14-32 ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32 ACS-GW-MW45-32 ACS-GW-MW49-32 ACS-GW-MW48-32	Chloromethane	J (all detects)	P	Laboratory control samples (%R)
ME0809B67	ACS-GW-MW09R-32 ACS-GW-MW10C-32 ACS-GW-MW23-32 ACS-GW-DUP03-32 ACS-GW-MW06-32 ACS-GW-MW19-32 ACS-GW-MW15-32 ACS-GW-TB03-32	1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2,4-Trichlorobenzene	J (all detects) UJ (all non-detects)	P	Internal standards (area)

ACS Monitoring Well
Volatiles - Laboratory Blank Data Qualification Summary - SDG ME0809B67

No Sample Data Qualified in this SDG

ACS Monitoring Well
Volatiles - Field Blank Data Qualification Summary - SDG ME0809B67

SDG	Sample	Compound	Modified Final Concentration	A or P
ME0809B67	ACS-GW-MW29-32	Acetone	50UB ug/L	A
ME0809B67	ACS-GW-MW45-32	Acetone	50UB ug/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
ME0809B67	ACS-GW-MW49-32	Acetone	50UB ug/L	A
ME0809B67	ACS-GW-MW48-32	Acetone	50UB ug/L	A

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-01
Collection Date: 09/24/08 08:15
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	7.7	5.8	50	J	µg/L	1	09/26/08 21:19
Benzene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	09/26/08 21:19
Bromoform	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	09/26/08 21:19
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	09/26/08 21:19
Carbon Disulfide	A	ND	1.7	10		µg/L	1	09/26/08 21:19
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	09/26/08 21:19
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
Chloroethane	A	ND	2.3	10		µg/L	1	09/26/08 21:19
Chloroform	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
Chloromethane	A	ND	1	10		µg/L	1	09/26/08 21:19
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	09/26/08 21:19
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	09/26/08 21:19
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	09/26/08 21:19
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	09/26/08 21:19
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	09/26/08 21:19
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	09/26/08 21:19
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
2-Hexanone	A	ND	2.4	10		µg/L	1	09/26/08 21:19
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	09/26/08 21:19
Methylene chloride	A	ND	3.1	10		µg/L	1	09/26/08 21:19
Styrene	A	ND	0.7	5.0		µg/L	1	09/26/08 21:19
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	09/26/08 21:19
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	09/26/08 21:19
Toluene	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
Trichloroethene	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
Vinyl chloride	A	ND	0.9	10		µg/L	1	09/26/08 21:19
Total Xylenes	A	ND	0.9	5.0		µg/L	1	09/26/08 21:19
1,2,4-Trichlorobenzene	A	ND	2	5.0		µg/L	1	09/26/08 21:19
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	09/26/08 21:19
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	09/26/08 21:19
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	09/26/08 21:19
Surr: 4-Bromofluorobenzene	S	107	0	76.9-116		%REC	1	09/26/08 21:19

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB02-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-01
Collection Date: 09/24/08 08:15
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	99.4	0	78.4-125		%REC	1	09/26/08 21:19
Surr: 1,2-Dichloroethane-d4	S	117	0	74.2-136		%REC	1	09/26/08 21:19
Surr: Toluene-d8	S	112	0	81.4-122		%REC	1	09/26/08 21:19

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW29-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-02
Collection Date: 09/24/08 09:15
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: 50 UB Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*6.2*	5.8	50	J	µg/L	1	09/26/08 21:49
Benzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	09/26/08 21:49
Bromoform	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	09/26/08 21:49
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	09/26/08 21:49
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	09/26/08 21:49
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	09/26/08 21:49
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
Chloroethane	A	*40*	2.3	10		µg/L	1	09/26/08 21:49
Chloroform	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
Chloromethane	A	*ND*	1	10		µg/L	1	09/26/08 21:49
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	09/26/08 21:49
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	09/26/08 21:49
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	09/26/08 21:49
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	09/26/08 21:49
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	09/26/08 21:49
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 21:49
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
2-Hexanone	A	*ND*	2.4	10		µg/L	1	09/26/08 21:49
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	09/26/08 21:49
Methylene chloride	A	*ND*	3.1	10		µg/L	1	09/26/08 21:49
Styrene	A	*ND*	0.7	5.0		µg/L	1	09/26/08 21:49
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	09/26/08 21:49
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	09/26/08 21:49
Toluene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	09/26/08 21:49
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	09/26/08 21:49
1,2,4-Trichlorobenzene	A	*ND*	2	5.0	UJ	µg/L	1	09/26/08 21:49
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	09/26/08 21:49
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	09/26/08 21:49
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	09/26/08 21:49
Surr: 4-Bromofluorobenzene	S	105	0	76.9-116		%REC	1	09/26/08 21:49

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-MW29-32	**Work Order / ID:**	ME0809B67-02
Sample Description:		**Collection Date:**	09/24/08 09:15
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	09/26/08 21:49
Surr: 1,2-Dichloroethane-d4	S	120	0	74.2-136		%REC	1	09/26/08 21:49
Surr: Toluene-d8	S	111	0	81.4-122		%REC	1	09/26/08 21:49

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW14-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-03
Collection Date: 09/24/08 09:30
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 20:26
Benzene	A	ND	0.8	5.0		µg/L	1	10/03/08 20:26
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 20:26
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 20:26
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/03/08 20:26
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/03/08 20:26
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 20:26
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 20:26
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 20:26
Chloroethane	A	ND	2.3	10		µg/L	1	10/03/08 20:26
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 20:26
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 20:26
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 20:26
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 20:26
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 20:26
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 20:26
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 20:26
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 20:26
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 20:26
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 20:26
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 20:26
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 20:26
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 20:26
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 20:26
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 20:26
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 20:26
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/03/08 20:26
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 20:26
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 20:26
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 20:26
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 20:26
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 20:26
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 20:26
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 20:26
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/03/08 20:26
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 20:26
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 20:26
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 20:26
Surr: 4-Bromofluorobenzene	S	85.2	0	76.9-116		%REC	1	10/03/08 20:26

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW14-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-03
Collection Date: 09/24/08 09:30
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **NLT**
Surr: Dibromofluoromethane	S	104	0	78.4-125		%REC	1	10/03/08 20:26
Surr: 1,2-Dichloroethane-d4	S	105	0	74.2-136		%REC	1	10/03/08 20:26
Surr: Toluene-d8	S	102	0	81.4-122		%REC	1	10/03/08 20:26

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW09R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-04
Collection Date: 09/24/08 10:05
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*ND*	5.8	50		µg/L	1	10/03/08 20:58
Benzene	A	*5.8*	0.8	5.0		µg/L	1	10/03/08 20:58
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	10/03/08 20:58
Bromoform	A	*ND*	0.8	5.0		µg/L	1	10/03/08 20:58
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	10/03/08 20:58
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	10/03/08 20:58
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	10/03/08 20:58
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	10/03/08 20:58
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	10/03/08 20:58
Chloroethane	A	*ND*	2.3	10		µg/L	1	10/03/08 20:58
Chloroform	A	*ND*	0.9	5.0		µg/L	1	10/03/08 20:58
Chloromethane	A	*ND*	1	10		µg/L	1	10/03/08 20:58
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	10/03/08 20:58
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	10/03/08 20:58
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	10/03/08 20:58
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	10/03/08 20:58
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	10/03/08 20:58
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	10/03/08 20:58
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	10/03/08 20:58
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	10/03/08 20:58
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	10/03/08 20:58
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	10/03/08 20:58
2-Hexanone	A	*ND*	2.4	10		µg/L	1	10/03/08 20:58
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	10/03/08 20:58
Methylene chloride	A	*ND*	3.1	10		µg/L	1	10/03/08 20:58
Styrene	A	*ND*	0.7	5.0		µg/L	1	10/03/08 20:58
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0	UJ	µg/L	1	10/03/08 20:58
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	10/03/08 20:58
Toluene	A	*ND*	0.9	5.0		µg/L	1	10/03/08 20:58
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/03/08 20:58
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/03/08 20:58
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	10/03/08 20:58
Vinyl chloride	A	*1.1*	0.9	10	J	µg/L	1	10/03/08 20:58
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	10/03/08 20:58
1,2,4-Trichlorobenzene	A	*ND*	2	5.0	UJ	µg/L	1	10/03/08 20:58
1,2-Dichlorobenzene	A	*ND*	1	10	UJ	µg/L	1	10/03/08 20:58
1,3-Dichlorobenzene	A	*ND*	0.9	10	UJ	µg/L	1	10/03/08 20:58
1,4-Dichlorobenzene	A	*ND*	0.7	10	↓	µg/L	1	10/03/08 20:58
Surr: 4-Bromofluorobenzene	S	84.1	0	76.9-116		%REC	1	10/03/08 20:58

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW09R-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-04
Collection Date: 09/24/08 10:05
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **NLT**
Surr: Dibromofluoromethane	S	99.9	0	78.4-125		%REC	1	10/03/08 20:58
Surr: 1,2-Dichloroethane-d4	S	101	0	74.2-136		%REC	1	10/03/08 20:58
Surr: Toluene-d8	S	101	0	81.4-122		%REC	1	10/03/08 20:58

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW10C-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-05
Collection Date: 09/24/08 10:20
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 21:32
Benzene	A	340	8	50		µg/L	10	10/04/08 12:55
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 21:32
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/03/08 21:32
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/03/08 21:32
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 21:32
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 21:32
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
Chloroethane	A	280	23	100		µg/L	10	10/04/08 12:55
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 21:32
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 21:32
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 21:32
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 21:32
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 21:32
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 21:32
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 21:32
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 21:32
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 21:32
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 21:32
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 21:32
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0	UJ	µg/L	1	10/03/08 21:32
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 21:32
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 21:32
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 21:32
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/03/08 21:32
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 21:32
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 21:32
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 21:32
Surr: 4-Bromofluorobenzene	S	83.9	0	76.9-116		%REC	1	10/03/08 21:32

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW10C-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-05
Collection Date: 09/24/08 10:20
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **NLT**
Surr: Dibromofluoromethane	S	98.5	0	78.4-125		%REC	1	10/03/08 21:32
Surr: 1,2-Dichloroethane-d4	S	103	0	74.2-136		%REC	1	10/03/08 21:32
Surr: Toluene-d8	S	99.6	0	81.4-122		%REC	1	10/03/08 21:32

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW23-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-06
Collection Date: 09/24/08 11:25
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 22:04
Benzene	A	ND	0.8	5.0		µg/L	1	10/03/08 22:04
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 22:04
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 22:04
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/03/08 22:04
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/03/08 22:04
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 22:04
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 22:04
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 22:04
Chloroethane	A	ND	2.3	10		µg/L	1	10/03/08 22:04
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 22:04
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 22:04
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 22:04
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 22:04
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 22:04
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 22:04
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 22:04
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 22:04
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 22:04
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 22:04
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 22:04
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 22:04
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 22:04
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 22:04
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 22:04
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 22:04
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0	UJ	µg/L	1	10/03/08 22:04
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 22:04
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 22:04
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 22:04
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 22:04
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 22:04
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 22:04
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 22:04
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/03/08 22:04
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 22:04
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 22:04
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 22:04
Surr: 4-Bromofluorobenzene	S	83.2	0	76.9-116		%REC	1	10/03/08 22:04

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW23-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-06
Collection Date: 09/24/08 11:25
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **NLT**
Surr: Dibromofluoromethane	S	107	0	78.4-125		%REC	1	10/03/08 22:04
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	10/03/08 22:04
Surr: Toluene-d8	S	100	0	81.4-122		%REC	1	10/03/08 22:04

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-DUP03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-07
Collection Date: 09/24/08 12:00
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*ND*	5.8	50		µg/L	1	10/03/08 22:38
Benzene	A	*170*	0.8	5.0		µg/L	1	10/03/08 22:38
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	10/03/08 22:38
Bromoform	A	*ND*	0.8	5.0		µg/L	1	10/03/08 22:38
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	10/03/08 22:38
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	10/03/08 22:38
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	10/03/08 22:38
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	10/03/08 22:38
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	10/03/08 22:38
Chloroethane	A	*37*	2.3	10		µg/L	1	10/03/08 22:38
Chloroform	A	*ND*	0.9	5.0		µg/L	1	10/03/08 22:38
Chloromethane	A	*ND*	1	10		µg/L	1	10/03/08 22:38
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	10/03/08 22:38
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	10/03/08 22:38
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	10/03/08 22:38
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	10/03/08 22:38
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	10/03/08 22:38
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	10/03/08 22:38
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	10/03/08 22:38
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	10/03/08 22:38
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	10/03/08 22:38
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	10/03/08 22:38
2-Hexanone	A	*ND*	2.4	10		µg/L	1	10/03/08 22:38
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	10/03/08 22:38
Methylene chloride	A	*ND*	3.1	10		µg/L	1	10/03/08 22:38
Styrene	A	*ND*	0.7	5.0		µg/L	1	10/03/08 22:38
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0	UJ	µg/L	1	10/03/08 22:38
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	10/03/08 22:38
Toluene	A	*ND*	0.9	5.0		µg/L	1	10/03/08 22:38
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/03/08 22:38
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/03/08 22:38
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	10/03/08 22:38
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	10/03/08 22:38
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	10/03/08 22:38
1,2,4-Trichlorobenzene	A	*ND*	2	5.0	UJ	µg/L	1	10/03/08 22:38
1,2-Dichlorobenzene	A	*ND*	1	10	UJ	µg/L	1	10/03/08 22:38
1,3-Dichlorobenzene	A	*ND*	0.9	10	UJ	µg/L	1	10/03/08 22:38
1,4-Dichlorobenzene	A	*ND*	0.7	10	UJ	µg/L	1	10/03/08 22:38
Surr: 4-Bromofluorobenzene	S	80.4	0	76.9-116		%REC	1	10/03/08 22:38

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-DUP03-32	**Work Order / ID:**	ME0809B67-07
Sample Description:		**Collection Date:**	09/24/08 12:00
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	10/03/08 22:38
Surr: 1,2-Dichloroethane-d4	S	105	0	74.2-136		%REC	1	10/03/08 22:38
Surr: Toluene-d8	S	98.3	0	81.4-122		%REC	1	10/03/08 22:38

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW06-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-08
Collection Date: 09/24/08 13:45
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 23:12
Benzene	A	160	0.8	5.0		µg/L	1	10/03/08 23:12
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 23:12
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/03/08 23:12
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/03/08 23:12
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 23:12
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 23:12
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
Chloroethane	A	36	2.3	10		µg/L	1	10/03/08 23:12
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 23:12
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 23:12
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 23:12
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 23:12
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 23:12
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:12
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:12
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 23:12
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 23:12
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 23:12
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:12
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0	UJ	µg/L	1	10/03/08 23:12
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 23:12
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 23:12
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 23:12
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/03/08 23:12
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 23:12
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 23:12
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 23:12
Surr: 4-Bromofluorobenzene	S	79.8	0	76.9-116		%REC	1	10/03/08 23:12

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW06-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-08
Collection Date: 09/24/08 13:45
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **NLT**
Surr: Dibromofluoromethane	S	101	0	78.4-125		%REC	1	10/03/08 23:12
Surr: 1,2-Dichloroethane-d4	S	107	0	74.2-136		%REC	1	10/03/08 23:12
Surr: Toluene-d8	S	98.1	0	81.4-122		%REC	1	10/03/08 23:12

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW19-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-09
Collection Date: 09/24/08 14:45
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/03/08 23:46
Benzene	A	5.1	0.8	5.0		µg/L	1	10/03/08 23:46
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/03/08 23:46
Bromoform	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/03/08 23:46
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/03/08 23:46
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/03/08 23:46
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/03/08 23:46
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
Chloroethane	A	10	2.3	10		µg/L	1	10/03/08 23:46
Chloroform	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
Chloromethane	A	ND	1	10		µg/L	1	10/03/08 23:46
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/03/08 23:46
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/03/08 23:46
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/03/08 23:46
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/03/08 23:46
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/03/08 23:46
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:46
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
2-Hexanone	A	ND	2.4	10		µg/L	1	10/03/08 23:46
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/03/08 23:46
Methylene chloride	A	ND	3.1	10		µg/L	1	10/03/08 23:46
Styrene	A	ND	0.7	5.0		µg/L	1	10/03/08 23:46
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0	UJ	µg/L	1	10/03/08 23:46
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/03/08 23:46
Toluene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/03/08 23:46
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/03/08 23:46
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/03/08 23:46
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/03/08 23:46
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/03/08 23:46
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/03/08 23:46
Surr: 4-Bromofluorobenzene	S	81.8	0	76.9-116		%REC	1	10/03/08 23:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW19-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-09
Collection Date: 09/24/08 14:45
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **NLT**
Surr: Dibromofluoromethane	S	107	0	78.4-125		%REC	1	10/03/08 23:46
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	10/03/08 23:46
Surr: Toluene-d8	S	98.7	0	81.4-122		%REC	1	10/03/08 23:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW15-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-10
Collection Date: 09/24/08 15:05
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*ND*	5.8	50		µg/L	1	10/04/08 00:21
Benzene	A	*1.3*	0.8	5.0	J	µg/L	1	10/04/08 00:21
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	10/04/08 00:21
Bromoform	A	*ND*	0.8	5.0		µg/L	1	10/04/08 00:21
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	10/04/08 00:21
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	10/04/08 00:21
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	10/04/08 00:21
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	10/04/08 00:21
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	10/04/08 00:21
Chloroethane	A	*ND*	2.3	10		µg/L	1	10/04/08 00:21
Chloroform	A	*ND*	0.9	5.0		µg/L	1	10/04/08 00:21
Chloromethane	A	*ND*	1	10		µg/L	1	10/04/08 00:21
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	10/04/08 00:21
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	10/04/08 00:21
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	10/04/08 00:21
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	10/04/08 00:21
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	10/04/08 00:21
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	10/04/08 00:21
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	10/04/08 00:21
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	10/04/08 00:21
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	10/04/08 00:21
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	10/04/08 00:21
2-Hexanone	A	*ND*	2.4	10		µg/L	1	10/04/08 00:21
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	10/04/08 00:21
Methylene chloride	A	*ND*	3.1	10		µg/L	1	10/04/08 00:21
Styrene	A	*ND*	0.7	5.0		µg/L	1	10/04/08 00:21
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0	UJ	µg/L	1	10/04/08 00:21
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	10/04/08 00:21
Toluene	A	*ND*	0.9	5.0		µg/L	1	10/04/08 00:21
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/04/08 00:21
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/04/08 00:21
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	10/04/08 00:21
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	10/04/08 00:21
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	10/04/08 00:21
1,2,4-Trichlorobenzene	A	*ND*	2	5.0	UJ	µg/L	1	10/04/08 00:21
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	10/04/08 00:21
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	10/04/08 00:21
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	10/04/08 00:21
Surr: 4-Bromofluorobenzene	S	83.1	0	76.9-116		%REC	1	10/04/08 00:21

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-MW15-32	**Work Order / ID:**	ME0809B67-10
Sample Description:		**Collection Date:**	09/24/08 15:05
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	107	0	78.4-125		%REC	1	10/04/08 00:21
Surr: 1,2-Dichloroethane-d4	S	109	0	74.2-136		%REC	1	10/04/08 00:21
Surr: Toluene-d8	S	99.4	0	81.4-122		%REC	1	10/04/08 00:21

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-TB03-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-11
Collection Date: 09/24/08 08:00
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/04/08 00:55
Benzene	A	ND	0.8	5.0		µg/L	1	10/04/08 00:55
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/04/08 00:55
Bromoform	A	ND	0.8	5.0		µg/L	1	10/04/08 00:55
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/04/08 00:55
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/04/08 00:55
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/04/08 00:55
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/04/08 00:55
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/04/08 00:55
Chloroethane	A	ND	2.3	10		µg/L	1	10/04/08 00:55
Chloroform	A	ND	0.9	5.0		µg/L	1	10/04/08 00:55
Chloromethane	A	ND	1	10		µg/L	1	10/04/08 00:55
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/04/08 00:55
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/04/08 00:55
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/04/08 00:55
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/04/08 00:55
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/04/08 00:55
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/04/08 00:55
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/04/08 00:55
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/04/08 00:55
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/04/08 00:55
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/04/08 00:55
2-Hexanone	A	ND	2.4	10		µg/L	1	10/04/08 00:55
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/04/08 00:55
Methylene chloride	A	ND	3.1	10		µg/L	1	10/04/08 00:55
Styrene	A	ND	0.7	5.0		µg/L	1	10/04/08 00:55
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0	UJ	µg/L	1	10/04/08 00:55
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/04/08 00:55
Toluene	A	ND	0.9	5.0		µg/L	1	10/04/08 00:55
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/04/08 00:55
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/04/08 00:55
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/04/08 00:55
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/04/08 00:55
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/04/08 00:55
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/04/08 00:55
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/04/08 00:55
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/04/08 00:55
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/04/08 00:55
Surr: 4-Bromofluorobenzene	S	79.8	0	76.9-116		%REC	1	10/04/08 00:55

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-TB03-32	**Work Order / ID:**	ME0809B67-11
Sample Description:		**Collection Date:**	09/24/08 08:00
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **NLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	10/04/08 00:55
Surr: 1,2-Dichloroethane-d4	S	110	0	74.2-136		%REC	1	10/04/08 00:55
Surr: Toluene-d8	S	99.3	0	81.4-122		%REC	1	10/04/08 00:55

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW42-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-12
Collection Date: 09/25/08 08:45
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/07/08 15:44
Benzene	A	ND	0.8	5.0		µg/L	1	10/07/08 15:44
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/07/08 15:44
Bromoform	A	ND	0.8	5.0		µg/L	1	10/07/08 15:44
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/07/08 15:44
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/07/08 15:44
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/07/08 15:44
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/07/08 15:44
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/07/08 15:44
Chloroethane	A	ND	2.3	10		µg/L	1	10/07/08 15:44
Chloroform	A	ND	0.9	5.0		µg/L	1	10/07/08 15:44
Chloromethane	A	ND	1	10		µg/L	1	10/07/08 15:44
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/07/08 15:44
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/07/08 15:44
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/07/08 15:44
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/07/08 15:44
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/07/08 15:44
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/07/08 15:44
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/07/08 15:44
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/07/08 15:44
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/07/08 15:44
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/07/08 15:44
2-Hexanone	A	ND	2.4	10		µg/L	1	10/07/08 15:44
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/07/08 15:44
Methylene chloride	A	ND	3.1	10		µg/L	1	10/07/08 15:44
Styrene	A	ND	0.7	5.0		µg/L	1	10/07/08 15:44
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/07/08 15:44
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/07/08 15:44
Toluene	A	ND	0.9	5.0		µg/L	1	10/07/08 15:44
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/07/08 15:44
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/07/08 15:44
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/07/08 15:44
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/07/08 15:44
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/07/08 15:44
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/07/08 15:44
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/07/08 15:44
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/07/08 15:44
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/07/08 15:44
Surr: 4-Bromofluorobenzene	S	87.3	0	76.9-116		%REC	1	10/07/08 15:44

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-MW42-32	**Work Order / ID:**	ME0809B67-12
Sample Description:		**Collection Date:**	09/25/08 08:45
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	105	0	78.4-125		%REC	1	10/07/08 15:44
Surr: 1,2-Dichloroethane-d4	S	108	0	74.2-136		%REC	1	10/07/08 15:44
Surr: Toluene-d8	S	99.5	0	81.4-122		%REC	1	10/07/08 15:44

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW43-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-13
Collection Date: 09/25/08 10:00
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	ND	5.8	50		µg/L	1	10/07/08 16:16
Benzene	A	ND	0.8	5.0		µg/L	1	10/07/08 16:16
Bromodichloromethane	A	ND	0.7	5.0		µg/L	1	10/07/08 16:16
Bromoform	A	ND	0.8	5.0		µg/L	1	10/07/08 16:16
Bromomethane	A	ND	1.8	10	UJ	µg/L	1	10/07/08 16:16
2-Butanone	A	ND	3.6	10	UJ	µg/L	1	10/07/08 16:16
Carbon Disulfide	A	ND	1.7	10		µg/L	1	10/07/08 16:16
Carbon tetrachloride	A	ND	1.7	5.0		µg/L	1	10/07/08 16:16
Chlorobenzene	A	ND	0.8	5.0		µg/L	1	10/07/08 16:16
Chloroethane	A	ND	2.3	10		µg/L	1	10/07/08 16:16
Chloroform	A	ND	0.9	5.0		µg/L	1	10/07/08 16:16
Chloromethane	A	ND	1	10		µg/L	1	10/07/08 16:16
Dibromochloromethane	A	ND	0.8	5.0		µg/L	1	10/07/08 16:16
1,1-Dichloroethane	A	ND	0.8	5.0		µg/L	1	10/07/08 16:16
1,2-Dichloroethane	A	ND	1.2	5.0		µg/L	1	10/07/08 16:16
1,1-Dichloroethene	A	ND	1.7	5.0		µg/L	1	10/07/08 16:16
cis-1,2-Dichloroethene	A	ND	0.8	5.0		µg/L	1	10/07/08 16:16
trans-1,2-Dichloroethene	A	ND	1.1	5.0		µg/L	1	10/07/08 16:16
1,2-Dichloropropane	A	ND	1	5.0		µg/L	1	10/07/08 16:16
cis-1,3-Dichloropropene	A	ND	0.8	5.0		µg/L	1	10/07/08 16:16
trans-1,3-Dichloropropene	A	ND	0.7	5.0		µg/L	1	10/07/08 16:16
Ethylbenzene	A	ND	0.9	5.0		µg/L	1	10/07/08 16:16
2-Hexanone	A	ND	2.4	10		µg/L	1	10/07/08 16:16
4-Methyl-2-Pentanone	A	ND	1.7	10		µg/L	1	10/07/08 16:16
Methylene chloride	A	ND	3.1	10		µg/L	1	10/07/08 16:16
Styrene	A	ND	0.7	5.0		µg/L	1	10/07/08 16:16
1,1,2,2-Tetrachloroethane	A	ND	1.4	5.0		µg/L	1	10/07/08 16:16
Tetrachloroethene	A	ND	1.3	5.0		µg/L	1	10/07/08 16:16
Toluene	A	ND	0.9	5.0		µg/L	1	10/07/08 16:16
1,1,1-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/07/08 16:16
1,1,2-Trichloroethane	A	ND	0.9	5.0		µg/L	1	10/07/08 16:16
Trichloroethene	A	ND	0.9	5.0		µg/L	1	10/07/08 16:16
Vinyl chloride	A	ND	0.9	10		µg/L	1	10/07/08 16:16
Total Xylenes	A	ND	0.9	5.0		µg/L	1	10/07/08 16:16
1,2,4-Trichlorobenzene	A	ND	2	5.0	UJ	µg/L	1	10/07/08 16:16
1,2-Dichlorobenzene	A	ND	1	10		µg/L	1	10/07/08 16:16
1,3-Dichlorobenzene	A	ND	0.9	10		µg/L	1	10/07/08 16:16
1,4-Dichlorobenzene	A	ND	0.7	10		µg/L	1	10/07/08 16:16
Surr: 4-Bromofluorobenzene	S	81.3	0	76.9-116		%REC	1	10/07/08 16:16

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW43-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-13
Collection Date: 09/25/08 10:00
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	106	0	78.4-125		%REC	1	10/07/08 16:16
Surr: 1,2-Dichloroethane-d4	S	107	0	74.2-136		%REC	1	10/07/08 16:16
Surr: Toluene-d8	S	97.9	0	81.4-122		%REC	1	10/07/08 16:16

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW45-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-14
Collection Date: 09/25/08 11:05
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*42*	5.8	50	~~J~~ 50 UBJ	µg/L	1	10/06/08 18:46
Benzene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 18:46
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	10/06/08 18:46
Bromoform	A	*ND*	0.8	5.0		µg/L	1	10/06/08 18:46
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	10/06/08 18:46
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	10/06/08 18:46
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	10/06/08 18:46
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	10/06/08 18:46
Chlorobenzene	A	*11*	0.8	5.0		µg/L	1	10/06/08 18:46
Chloroethane	A	*ND*	2.3	10		µg/L	1	10/06/08 18:46
Chloroform	A	*ND*	0.9	5.0		µg/L	1	10/06/08 18:46
Chloromethane	A	*ND*	1	10		µg/L	1	10/06/08 18:46
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	10/06/08 18:46
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	10/06/08 18:46
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	10/06/08 18:46
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	10/06/08 18:46
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 18:46
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	10/06/08 18:46
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	10/06/08 18:46
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 18:46
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	10/06/08 18:46
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 18:46
2-Hexanone	A	*ND*	2.4	10		µg/L	1	10/06/08 18:46
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	10/06/08 18:46
Methylene chloride	A	*ND*	3.1	10		µg/L	1	10/06/08 18:46
Styrene	A	*ND*	0.7	5.0		µg/L	1	10/06/08 18:46
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	10/06/08 18:46
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	10/06/08 18:46
Toluene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 18:46
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/06/08 18:46
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/06/08 18:46
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 18:46
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	10/06/08 18:46
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	10/06/08 18:46
1,2,4-Trichlorobenzene	A	*ND*	2	5.0	UJ	µg/L	1	10/06/08 18:46
1,2-Dichlorobenzene	A	*1.2*	1	10	J	µg/L	1	10/06/08 18:46
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	10/06/08 18:46
1,4-Dichlorobenzene	A	*0.97*	0.7	10	J	µg/L	1	10/06/08 18:46
Surr: 4-Bromofluorobenzene	S	84.7	0	76.9-116		%REC	1	10/06/08 18:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-MW45-32	**Work Order / ID:**	ME0809B67-14
Sample Description:		**Collection Date:**	09/25/08 11:05
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	10/06/08 18:46
Surr: 1,2-Dichloroethane-d4	S	111	0	74.2-136		%REC	1	10/06/08 18:46
Surr: Toluene-d8	S	95.6	0	81.4-122		%REC	1	10/06/08 18:46

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW49-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-15
Collection Date: 09/25/08 13:20
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: 50uBJ Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*27*	5.8	50	J	µg/L	1	10/06/08 19:19
Benzene	A	*120*	0.8	5.0		µg/L	1	10/06/08 19:19
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	10/06/08 19:19
Bromoform	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:19
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	10/06/08 19:19
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	10/06/08 19:19
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	10/06/08 19:19
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	10/06/08 19:19
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:19
Chloroethane	A	*ND*	2.3	10		µg/L	1	10/06/08 19:19
Chloroform	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:19
Chloromethane	A	*ND*	1	10		µg/L	1	10/06/08 19:19
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:19
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:19
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	10/06/08 19:19
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	10/06/08 19:19
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:19
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	10/06/08 19:19
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	10/06/08 19:19
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:19
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	10/06/08 19:19
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:19
2-Hexanone	A	*ND*	2.4	10		µg/L	1	10/06/08 19:19
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	10/06/08 19:19
Methylene chloride	A	*ND*	3.1	10		µg/L	1	10/06/08 19:19
Styrene	A	*ND*	0.7	5.0		µg/L	1	10/06/08 19:19
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	10/06/08 19:19
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	10/06/08 19:19
Toluene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:19
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:19
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:19
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:19
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	10/06/08 19:19
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:19
1,2,4-Trichlorobenzene	A	*ND*	2	5.0	UJ	µg/L	1	10/06/08 19:19
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	10/06/08 19:19
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	10/06/08 19:19
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	10/06/08 19:19
Surr: 4-Bromofluorobenzene	S	84.0	0	76.9-116		%REC	1	10/06/08 19:19

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW49-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-15
Collection Date: 09/25/08 13:20
Date Received: 09/25/08 15:15

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**								
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	10/06/08 19:19
Surr: 1,2-Dichloroethane-d4	S	112	0	74.2-136		%REC	1	10/06/08 19:19
Surr: Toluene-d8	S	98.4	0	81.4-122		%REC	1	10/06/08 19:19

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-MW48-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809B67-16
Collection Date: 09/25/08 13:25
Date Received: 09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*18*	5.8	50	J	µg/L 50 UBJ	1	10/06/08 19:51
Benzene	A	*46*	0.8	5.0		µg/L	1	10/06/08 19:51
Bromodichloromethane	A	*ND*	0.7	5.0		µg/L	1	10/06/08 19:51
Bromoform	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:51
Bromomethane	A	*ND*	1.8	10	UJ	µg/L	1	10/06/08 19:51
2-Butanone	A	*ND*	3.6	10	UJ	µg/L	1	10/06/08 19:51
Carbon Disulfide	A	*ND*	1.7	10		µg/L	1	10/06/08 19:51
Carbon tetrachloride	A	*ND*	1.7	5.0		µg/L	1	10/06/08 19:51
Chlorobenzene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:51
Chloroethane	A	*ND*	2.3	10		µg/L	1	10/06/08 19:51
Chloroform	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:51
Chloromethane	A	*ND*	1	10		µg/L	1	10/06/08 19:51
Dibromochloromethane	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:51
1,1-Dichloroethane	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:51
1,2-Dichloroethane	A	*ND*	1.2	5.0		µg/L	1	10/06/08 19:51
1,1-Dichloroethene	A	*ND*	1.7	5.0		µg/L	1	10/06/08 19:51
cis-1,2-Dichloroethene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:51
trans-1,2-Dichloroethene	A	*ND*	1.1	5.0		µg/L	1	10/06/08 19:51
1,2-Dichloropropane	A	*ND*	1	5.0		µg/L	1	10/06/08 19:51
cis-1,3-Dichloropropene	A	*ND*	0.8	5.0		µg/L	1	10/06/08 19:51
trans-1,3-Dichloropropene	A	*ND*	0.7	5.0		µg/L	1	10/06/08 19:51
Ethylbenzene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:51
2-Hexanone	A	*ND*	2.4	10		µg/L	1	10/06/08 19:51
4-Methyl-2-Pentanone	A	*ND*	1.7	10		µg/L	1	10/06/08 19:51
Methylene chloride	A	*ND*	3.1	10		µg/L	1	10/06/08 19:51
Styrene	A	*ND*	0.7	5.0		µg/L	1	10/06/08 19:51
1,1,2,2-Tetrachloroethane	A	*ND*	1.4	5.0		µg/L	1	10/06/08 19:51
Tetrachloroethene	A	*ND*	1.3	5.0		µg/L	1	10/06/08 19:51
Toluene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:51
1,1,1-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:51
1,1,2-Trichloroethane	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:51
Trichloroethene	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:51
Vinyl chloride	A	*ND*	0.9	10		µg/L	1	10/06/08 19:51
Total Xylenes	A	*ND*	0.9	5.0		µg/L	1	10/06/08 19:51
1,2,4-Trichlorobenzene	A	*ND*	2	5.0	UJ	µg/L	1	10/06/08 19:51
1,2-Dichlorobenzene	A	*ND*	1	10		µg/L	1	10/06/08 19:51
1,3-Dichlorobenzene	A	*ND*	0.9	10		µg/L	1	10/06/08 19:51
1,4-Dichlorobenzene	A	*ND*	0.7	10		µg/L	1	10/06/08 19:51
Surr: 4-Bromofluorobenzene	S	81.4	0	76.9-116		%REC	1	10/06/08 19:51

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ANALYTICAL RESULTS

Date: *Wednesday, October 15, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-MW48-32	**Work Order / ID:**	ME0809B67-16
Sample Description:		**Collection Date:**	09/25/08 13:25
Sample Matrix:	Aqueous	**Date Received:**	09/25/08 15:15

VOLATILE ORGANICS Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Surr: Dibromofluoromethane	S	108	0	78.4-125		%REC	1	10/06/08 19:51
Surr: 1,2-Dichloroethane-d4	S	111	0	74.2-136		%REC	1	10/06/08 19:51
Surr: Toluene-d8	S	98.7	0	81.4-122		%REC	1	10/06/08 19:51

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Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-TB02-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-01A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\E092608/E09

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW29-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-02A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\3\DATA\E092608/E09

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

10/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW14-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-3A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

11/18/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW09R-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-04A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 10/3/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	6.86		

FORM I TIC

11/10/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW10C-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-05A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 9/26/2008

% Moisture: not dec. Date Analyzed: 10/3/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.00	273.5	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW23-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-06A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 9/25/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	29.0	

FORM I TIC

10/31/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-DUP03-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-7A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	19.4	

FORM I TIC

10/31/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW06-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-8A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	19.5	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW19-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-09A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Ether	3.01	7.0	

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW15-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-10A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 10/4/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs detected				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-TB03-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-11A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100308\A100:

Level: LOW Date Received: 10/3/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW42-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-12A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100708\A100

Level: LOW Date Received: 10/7/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

9/11/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW43-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-13A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100708\A100

Level: LOW Date Received: 10/7/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICS detected				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW45-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-14A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100608\A100

Level: LOW Date Received: 10/6/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

11/7/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW49-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-15A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100608\A100

Level: LOW Date Received: 10/6/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
0 TICs Detected				

FORM I TIC

11/21/08

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-MW48-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809B67

Matrix: (soil/water) water Lab Sample ID: ME0809B67-16A

Sample wt/vol: (g/mL) Lab File ID: C:\HPCHEM\1\data\A100608\A100

Level: LOW Date Received: 10/6/2008

% Moisture: not dec. Date Analyzed: 9/26/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 1 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Sulfide	7.52	5.6	

FORM I TIC

11/8/08

LDC #: 19751B1

SDG #: ME0809B67

Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 11/18/08

Page: 1 of 1

Reviewer: JVC

2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/24 - 25/08
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration/~~ICV~~	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	SW	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentitatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 7, 8
XVII.	Field blanks	SW	TB = 1, 11* EB* = ACS-GW-EB03-32 (from ME0809B07)

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

* ND = No compounds detected D = Duplicate
R = Rinsate
FB = Field blank

TB = Trip blank
EB = Equipment blank

Validated Samples:

Water

+ 1	ACS-GW-TB02-32	− 11	ACS-GW-TB03-32	− 21 1	MB-W-092608	R11 31	8879
+ 2 1	ACS-GW-MW29-32	− 12 5	ACS-GW-MW42-32	− 22	BK-W-10/03/08	R11 32	9265
− 3	ACS-GW-MW14-32	− 13 5	ACS-GW-MW43-32	+ 23 3	MB 10/4	R11 33	9297 (V, D)
+ 4	ACS-GW-MW09R-32	+ 14 4	ACS-GW-MW45-32	− 24 4	BK-W-10/06/08	R11 34	9327
+ 5 3/n	ACS-GW-MW10C-32	+ 15 4	ACS-GW-MW49-32	− 25 5	BK-W-10/07/08	R11 35	9387
− 6	ACS-GW-MW23-32	+ 16 4	ACS-GW-MW48-32	26		36	
+ 7	ACS-GW-DUP03-32	17 3	ACS-GW-MW10C-32MS	27		37	
+ 8	ACS-GW-MW06-32	18 3	ACS-GW-MW10C-32MSD	28		38	
+ 9	ACS-GW-MW19-32	19		29		39	
+ 10	ACS-GW-MW15-32	20		30		40	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 19751 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? None
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: <30.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	8/14/08	ICAL-VOA5	B	45.62		1, 2, MB-W-082608	J/UJ/A
			M		0.039		
	8/18/08	ICAL-VOA4	E	27.84		17, 18, MB 10/4	
			M		0.033		
	10/03/08	ICAL-VOA1	B	25.96		3-16, BK-W-10/03/08,	
			kkk	28.87		BK-W-10/06/08,	
			M		0.032	BK-W-10/07/08	

INICAL.1SB

LDC #: 19757 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	9/26/08	E092602	B	34.7		MB-W-092608	J/UJ/A
			G	29.0			
			KKK	26.6			
			B		0.047		
			M		0.034		
	9/26/08	E092615	M		0.033	1, 2	
	10/03/08	A100316	KKK	27.1		3-11, Bk-W-10/03/08	
			M		0.033		
	10/04/08	D100404	M		0.032	17, 18, MB-10/4	
	10/06/08	A100602	M		0.032	Bk-W-10/06/08	
	10/06/08	A100616	B	37.1		14-16	
			F	26.5			
			KKK	27.8			
			M		0.040		
	10/07/08	A100703	M		0.035	Bk-W-10/07/08	
	10/07/08	A100714	M		0.031	12, 13	

CONCAL.1SB

LDC #: 19751 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 10/04/08
Conc. units: ug/L
Associated Samples: 5

Compound	Blank ID	Sample Identification								
	MB 10/4	5 (10x)								
Methylene chloride	~~8.68~~									
Acetone	~~6.73~~									
V	1.55	340								
CRQL										

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

(MB10/4 – #5 Reported only V, D)

BLANKS2.1SB

LDC #: 19751 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Y/ N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?
Blank units: ug /L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other:_____ Associated Samples: All except 1, 11

Compound	Blank ID 1	Blank ID	Sample Identification							
Sampling Date	9/24/08		2	14	15	16				
Methylene chloride										
Acetone	7.7		6.2/50 UB	42/50 UB	27/50 UB	18/50 UB				
~~Chloroform~~ (~~[illegible]~~)	(77)									
CRQL										

Blank units:_____ **Associated sample units:**_____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other:_____ Associated Samples:_____

Compound	Blank ID	Blank ID	Sample Identification							
Sampling Date										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 19751B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		17/18 (10X)	A	163 (10.8-155)	170 (10.8-155)	( )	5	No qual
			FFF	120 (69.3-116)	( )	( )	↓	↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	< 22%	61-145%	< 14%
S.	Trichloroethene	62-137%	< 24%	71-120%	< 14%
V.	Benzene	66-142%	< 21%	76-127%	< 11%
CC.	Toluene	59-139%	< 21%	76-125%	< 13%
DD.	Chlorobenzene	60-133%	< 21%	75-130%	< 13%

LDC #: 19751B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: R

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		LCS-R119265	A	143 (34.7-130)	( )	( )	3-11, BK-W-10/03/08	J detects/P
				( )	( )	( )		
				( )	( )	( )		
		LCS-R119327	A	136 ( )	( )	( )	14-16, BK-W-10/16/08	
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC #: 19257 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Internal Standards

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all internal standard area counts within -50 to +100% of the associated calibration standard?

Y N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	Area (Limits)	RT (Limits)	Qualifications
		4	4DCB	111021 (125048 - 500192)		J/UJ/P
		5		113434		
		6		108281		
		7		108266		
		8		108779		
		9		109345		
		10		103307		
		11		99686		
						(final BB, FFF, HHH, JJJ, KKK)

(BCM) = Bromochloromethane
(DFB) = 1,4-Difluorobenzene
(CBZ) = Chlorobenzene-d5
(PFB) = Pentafluorobenzene
(4DCB) = 1,4-Dichlorobenzene-d4
(2DCB) = 1,2-Dichlorobenzene-d4
(FBZ) = Fluorobenzene

LDC #: 19751 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: OVC
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	7	8	
V	170	160	6
D	37	36	3

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Project #19751
November 25, 2008

MWH Americas, Inc.
175 West Jackson Blvd, Suite 1900
Chicago, IL 60604-2814
ATTN: Mr. Justin Finger

SUBJECT: ACS Monitoring Well, Data Validation

Dear Mr. Finger,

SUBJECT: Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS Monitoring Well Project

Dear Mr Finger,

Enclosed is the Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS Monitoring Well Project.

We appreciate this opportunity to support MWH Americas, Inc. in the performance of this project. Please feel free to call me at (760) 634-0437 if you have any questions.

Sincerely,

Erlinda T. Rauto
Operations Manager/Senior Chemist

V:\LOGIN\MWH\ACS\19751COVP.wpd

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS SUMMARY REPORT

American Chemical Service

11/25/08

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Glossary

CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
DQO	Data Quality Objectives
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD	Matrix Spike / Matrix Spike Duplicate
PARCC	Precision,Accuracy,Representativeness,Comparability, Completeness
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
RRF	Relative Response Factor
RL	Reporting Limit
SDG	Sample Delivery Group
ug/Kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS SUMMARY REPORT
American Chemical Service

1.0 INTRODUCTION

Remedial design/ remedial action was conducted at the American Chemical Service, Inc. NPL Site in Griffith, Indiana. This part of the site investigation included the collection and analyses of 38 monitoring well samples including quality control (QC) samples, re-analysis and dilutions. The analyses were performed by the following methods:

Volatile Organic Compounds by EPA SW 846 Method 8260B

Analytical services were provided by Microbac who performed analyses on the groundwater samples. The samples were grouped into sample delivery groups (SDGs) of up to 20 field samples received by the laboratory. The environmental samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I in Appendix A is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, and matrix. All shaded samples in Table I in Appendix A were reviewed under EPA Level 4 guidelines.

Approximately ten percent of the analytical data were validated according to EPA Level 4 data validation procedures and ninety percent of the analytical data were validated according to EPA Level 3 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *The Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste.*

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, and comparability (PARCC) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCC summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCC criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 4 presents a summary of the PARCC criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCC criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors in sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC

requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks, equipment rinsate blanks, field duplicates, method blanks, laboratory control samples (LCSs), surrogate spikes and matrix spike/matrix spike duplicates (MS/MSDs).

Before conducting the PARCC evaluation, the analytical data were validated according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001, and the Functional Guidelines for Organic Data Review (USEPA 1999) and EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste. Samples not meeting the project procedures manual and the Functional Guideline acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J — Estimated The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.

R — Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.

UB — Analyte was not detected at or above the indicated concentration due to blank contamination. The "UB" flag is used to qualify any result detected in an environmental sample at a concentration less than 10 times the value of the concentration in any associated blank for common laboratory contaminants and less than 5 times the concentration in any associated blank for all other contaminants

B — Analyte was positively detected in a sample and in an associated blank. The "B" flag is used to to qualify any result detected in an environmental sample at a concentration greater than 10 times the value of the concentration in any associated blank for common laboratory contaminants and greater than 5 times the concentration in any associated blank for all other contaminants

UJ — Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, internal standard, or other spike recovery.

Once the data are reviewed and qualified according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001 and the functional guidelines, the data set is then evaluated using PARCC criteria. PARCC criteria provide an evaluation of overall data usability. The following is a discussion of PARCC criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where D1 and D2 are the reported concentrations for sample and duplicate analyses. Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. Non-aqueous LCSs are prepared using solid media approved by the American Society for Testing and Materials (ASTM) for their homogeneity. The LCS measures laboratory efficiency in recovering target analytes from either a solid or aqueous matrix in the absence of matrix interferences.

Laboratory and field sampling precision are further evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the reporting limit or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, MS/MSD, and standard, for volatile organic (VOC) and bis-2-chloroethyl ether analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blank samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, field blanks and trip blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis.

Contaminants found in both the environmental sample and a blank sample are assumed to be laboratory artifacts if the concentration in the environmental sample is less than 10 times the blank value for common laboratory contaminants; methylene chloride, acetone and 2-butanone or 5 times the blank value for other laboratory contaminants.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedances can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCC criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 95 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:
%C = percent completeness
T = total number of sample results
R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the FSP or QAPP, with the number determined above.

The following sections present a review of QC data for each analytical method.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of 38 groundwater samples samples were analyzed for volatile organic compounds (VOC) by EPA SW 846 Method 8260B. All volatile data were assessed to be valid since none of the 1444 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Relative response factor (RRF), percent relative standard deviation (%RSD), and percent difference (%D) are the three major parameters used to measure the effectiveness of instrument calibration. RRF is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The relative response factors for acetone and 2-butanone were above the criteria for acceptance of 0.05 in the initial calibration and/or the continuing calibration standards. Fifty one results were qualified detected estimated (J) and non-detected estimated (UJ). The details regarding the qualification of results are provided in the data validation reports.

Fifty six VOC results were qualified detected estimated (J) and non-detected estimated (UJ). The percent difference between the initial calibration mean relative response factors and the continuing calibration relative response factors for acetone, bromomethane, chloromethane, chloroethane and 1,2,4-trichlorobenzene were outside the acceptance criteria of 30 and 25 percent. The affected samples were identified in the data validation reports.

2.1.2 Surrogates

No data were qualified based on surrogate nonconformances. The recoveries were evaluated against the acceptance criteria.

2.1.3 MS/MSD Samples

No data were qualified due to high MS/MSD percent recoveries since all the compounds were non detected. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

2.1.4 LCS Samples

No data were qualified due to high LCS percent recoveries since all the compounds were non detected. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

2.1.5 Internal Standards

As a result of internal standard area counts exceeding acceptance criteria forty VOC results were qualified detected estimated (J) and non-detected estimated (UJ).

2.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

2.1.7 Compound Quantitation and Target Identification

All compound quantitation and target identification was found to be acceptable.

2.2 Representativeness

2.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

2.2.2 Blanks

Method blanks and trip blanks were collected and analyzed to evaluate representativeness. The concentration for an individual target compounds in any of the two types of QA/QC blanks were used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results for organic compounds based on the following criteria. The validation qualifier codes used in the blank summary tables are described below.

> Results Below the RL If a sample result for the blank contaminant was less than the RL and less than 10 times the blank value for common contaminants or 5 times the blank

value for other contaminants, the sample result was amended as a non-detected at the RL for the target compound and qualified with UB

Results Above the RL If a sample result for the blank contaminant was greater than the sample RL and less than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the sample result for the blank contaminant was amended as a non-detect at the concentration reported in the sample results and qualified with UB.

If a sample result for the blank contaminant was greater than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the result was not amended and qualified with B.

2.2.2.1 Method Blanks

As a result of method blank contamination, one methylene chloride was qualified as non-detected (UB). The details regarding the qualification of results are provided in the data validation reports.

2.2.2.2 Trip Blanks

As a result of trip blank contamination, acetone and methylene chloride were qualified as non-detected (UB). The details regarding the qualification of results are provided in the data validation reports.

2.2.2.3 Field Blanks

No QC issues were associated with the field blanks for this analysis.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target compounds detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

2.4 Completeness

The completeness level attained for volatile organic field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical method for volatile analyses throughout the project. No systematic variances in analytical performance were noted according to the laboratory SOW.

4.0 SUMMARY OF PARCC CRITERIA

The validation reports present the PARCC results for all SDGs. Each PARCC criterion is discussed in detail in the following sections.

4.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as MS/MSD, LCS, and surrogates. The precision and accuracy of the data set were considered acceptable after integration of qualification of estimated results as specifically noted in the data validation reports.

4.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after qualification for blank contamination.

4.3 Comparability

Sampling frequency requirements were met in obtaining duplicates and necessary field blanks. The laboratory used standard analytical methods for their analyses. The analytical results were reported in correct standard units. Holding times, sample preservation, and sample integrity were within QC criteria. The overall comparability is considered acceptable.

4.4 Completeness

Of the 1444 total analytes reported, none of the sample results were rejected. The completeness for all SDGs is as follows:

Parameter/Method	Total Analytes	No. of Rejects	%Completeness
Volatiles	1444	0	100
Total	**1444**	**0**	**100**

The completeness percentage based on rejected data met the 95 percent DQO goal.

Microbac

LEVEL IV
QA/QC DATA PACKAGE

CLIENT:	MWH, Inc.
PROJECT:	GW - SemiAnnual / ACS
LAB WORKORDER:	ME0809C97
DATE PACKAGE ISSUED:	10/10/2008

250 West 84th Drive, Merrillville, IN TEL.219.769.8378 FAX 219.769.1664

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CLIENT: MWH, Inc.

PROJECT: GW - SemiAnnual / ACS

LAB WORKORDER: ME0809C97

CHAIN-OF-CUSTODY: 86612

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CLIENT: **MWH, Inc.**

PROJECT: **GW - SemiAnnual / ACS**

LAB WORKORDER: **ME0809C97**

CHAIN-OF-CUSTODY: **86612**

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Case Narrative
Wet Chemistry Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809C97

Five groundwater samples were received on 09/30/08 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for Cyanide using SW-846 Method 9012B.

The samples were collected on 09/29/08. The samples were prepared and analyzed on 10/03/08. All samples were prepared and analyzed within the prescribed maximum allowable holding times without exception.

The required instrument calibration and quality control tests were performed and the acceptance criteria met without exception.

The batch quality control tests were performed and the acceptance criteria met without exception.

Matrix evaluation was performed on the sample ACS-GW-PWT-32. The accuracy and precision criteria were met.

This Case Narrative was prepared by Allyl McCarron, QC Assistant.

Case Narrative
Metals Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809C97

Five groundwater samples were received on 09/30/08 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for the following analytes.

ANALYTE	METHOD
Various ICP Metals	SW-846 3010A/6020A
Mercury	SW-846 7470A

The samples were collected on 09/29/08. The samples were prepared on 10/01/08 and 10/06/08 then analyzed on 10/03/08 and 10/06/08. All samples were analyzed within the prescribed maximum allowable holding time without exception. All digested samples were analyzed using a minimum dilution of 5. The appropriate dilution is noted on the instrument printout in the format of *Sample ID, dilution* (e.g. ME -01A, 5).

The required instrument calibrations and quality control tests were performed and the acceptance criteria met without exception.

The batch quality control tests were performed and the acceptance criteria met without exception.

Internal standards are added to all QC and environmental samples. The appropriate internal standard intensity recovery for each analyte meets the acceptance criteria.

Matrix evaluation was performed on the following client-submitted samples. The accuracy and precision criteria were met as noted.

SAMPLE ID	QC TYPE	ANALYTE / EVALUATION
ACS-GW-PWT-32	MS/MSD	ICP Metals. Accuracy and precision criteria met without exception.
ACS-GW-PWT-32	MS/MSD	Mercury. Accuracy and precision criteria met.

This Case Narrative was prepared by Allyl McCarron, QC Assistant.

Case Narrative
Pesticides / PCB Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809C97

Five groundwater samples were received on 09/30/08 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for Chlorinated Pesticides using SW-846 Method 3510/8081A and Polychlorinated Biphenyls using SW-846 Method 3510/8082.

The samples were collected on 09/29/08. The samples were extracted on 10/03/08 then analyzed on 10/03/08 and 10/06/08. All samples were prepared and analyzed within the prescribed maximum allowable holding times without exception.

The required instrument calibrations and quality control tests were performed and the acceptance criteria met without exception. For PCB analysis, multi-point calibration curves were established for Aroclor 1016 and 1260. Single-point CCV standards were used to quantitate the other Aroclors. Aroclor identification was performed by pattern matching a minimum of three peaks per Aroclor.

The batch quality control tests were performed and the acceptance criteria met without exception.

Surrogate compounds are spiked into each sample to evaluate the extraction and analysis efficiency. One of the two surrogate compounds is required to meet the acceptance criteria. All environmental samples yielded acceptable surrogate recovery.

Matrix evaluation was performed on the sample ACS-GW-PWT-32. The accuracy and precision criteria were met without exception.

This Case Narrative was prepared by Allyl McCarron, QC Assistant.

Case Narrative
SVOA Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809C97

Five groundwater samples were received on 09/30/08 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for Semi-volatile Organic Analytes using SW-846 Method 3510A/8270C.

The samples were collected on 09/29/08. The samples were extracted on 10/03/08 then analyzed on 10/04/08. All samples were extracted and analyzed within the prescribed maximum allowable holding times without exception.

The required instrument calibration was performed and the acceptance criteria met. The grand mean average approach was used to assess linearity.

Prior to analysis, the resultant mass spectra for DFTPP met all method criteria, and all samples were analyzed within 12-hour analytical sequences.

Prior to analysis, a CCV standard was analyzed and the acceptance criteria met for all CCCs and SPCCs.

The batch quality control tests were performed and the acceptance criteria met without exception.

Three acid surrogate compounds and three base/neutral surrogate compounds are spiked into each sample to evaluate the extraction and analysis efficiency. One surrogate per fraction (acid versus base/neutral) is allowed to be outside of the acceptance criteria. All samples yielded acceptable surrogate recovery.

Internal standards are spiked into each CCV standard and environmental sample. All internal standard responses met the criteria established for the CCVs and were adequate for all environmental samples in the best technical judgment of the analyst.

Matrix evaluation was performed on the sample ACS-GW-PWT-32. The accuracy and precision criteria were met without exception.

This Case Narrative was prepared by Allyl McCarron, QC Assistant.

Case Narrative
VOA Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0809C97

Six groundwater samples were received on 09/30/08 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for Volatile Organic Analytes using SW-846 Method 8260B. To achieve lower reporting limits these samples were analyzed using a 25-ml sample size.

The samples were collected on 09/29/08. The samples were analyzed on 10/01/08 through 10/02/08. All samples were analyzed within the prescribed maximum allowable holding time without exception.

The required instrument calibration was performed and the acceptance criteria met. The grand mean average approach was used to assess linearity.

Prior to analysis, the resultant mass spectra for BFB met all method criteria, and all samples were analyzed within 12-hour analytical sequences.

Prior to analysis, a CCV standard was analyzed and the acceptance criteria met for all CCCs and SPCCs.

The batch quality control tests were performed and the acceptance criteria met without exception.

Surrogate compounds are spiked into each sample to evaluate analysis efficiency. All samples yielded acceptable surrogate recovery.

Internal standards are spiked into each CCV standard and environmental sample. All internal standard responses met the criteria established for the CCVs. The internal standard responses in the environmental samples were evaluated and deemed adequate.

Matrix evaluation was performed on the sample ACS-GW-PWT-32. The accuracy criteria were met with the exception of Chloromethane and Vinyl Chloride. Precision criteria were met without exception.

This Case Narrative was prepared by Allyl McCarron, QC Assistant.

October 07, 2008

Justin Finger
MWH, Inc.
175 West Jackson Boulevard, Suite 1900
Chicago, IL 60604

Work Order No.: ME0809C97

RE: GW - SemiAnnual / ACS

Dear Justin Finger:

Microbac Laboratories, Inc. received 6 samples on 9/30/2008 10:25:00 AM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Ronald J. Misiunas
Client Services Manager

Enclosures

WORK ORDER SAMPLE SUMMARY

Date: *Tuesday, October 07, 2008*

CLIENT: MWH, Inc.
Project: GW - SemiAnnual / ACS
Lab Order: ME0809C97

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME0809C97-01A	ACS-GW-RESTN01-32		9/29/2008 9:00:00 AM	9/30/2008
ME0809C97-02A	ACS-GW-RESDUP01-3		9/29/2008 10:00:00 AM	9/30/2008
ME0809C97-02B	ACS-GW-RESDUP01-3		9/29/2008 10:00:00 AM	9/30/2008
ME0809C97-02C	ACS-GW-RESDUP01-3		9/29/2008 10:00:00 AM	9/30/2008
ME0809C97-02D	ACS-GW-RESDUP01-3		9/29/2008 10:00:00 AM	9/30/2008
ME0809C97-03A	ACS-GW-PWB-32		9/29/2008 10:25:00 AM	9/30/2008
ME0809C97-03B	ACS-GW-PWB-32		9/29/2008 10:25:00 AM	9/30/2008
ME0809C97-03C	ACS-GW-PWB-32		9/29/2008 10:25:00 AM	9/30/2008
ME0809C97-03D	ACS-GW-PWB-32		9/29/2008 10:25:00 AM	9/30/2008
ME0809C97-04A	ACS-GW-PWC-32		9/29/2008 11:30:00 AM	9/30/2008
ME0809C97-04B	ACS-GW-PWC-32		9/29/2008 11:30:00 AM	9/30/2008
ME0809C97-04C	ACS-GW-PWC-32		9/29/2008 11:30:00 AM	9/30/2008
ME0809C97-04D	ACS-GW-PWC-32		9/29/2008 11:30:00 AM	9/30/2008
ME0809C97-05A	ACS-GW-PWT-32		9/29/2008 12:30:00 PM	9/30/2008
ME0809C97-05B	ACS-GW-PWT-32		9/29/2008 12:30:00 PM	9/30/2008
ME0809C97-05C	ACS-GW-PWT-32		9/29/2008 12:30:00 PM	9/30/2008
ME0809C97-05D	ACS-GW-PWT-32		9/29/2008 12:30:00 PM	9/30/2008
ME0809C97-06A	ACS-GW-PWD-32		9/29/2008 1:30:00 PM	9/30/2008
ME0809C97-06B	ACS-GW-PWD-32		9/29/2008 1:30:00 PM	9/30/2008
ME0809C97-06C	ACS-GW-PWD-32		9/29/2008 1:30:00 PM	9/30/2008
ME0809C97-06D	ACS-GW-PWD-32		9/29/2008 1:30:00 PM	9/30/2008

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESTN01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-01
Collection Date: 09/29/08 09:00
Date Received: 09/30/08 10:25

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	***4.8***	2	5.0	J	µg/L	1	10/01/08 22:30
Benzene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
Bromodichloromethane	A	***ND***	0.5	1.0		µg/L	1	10/01/08 22:30
Bromoform	A	***ND***	0.4	1.0		µg/L	1	10/01/08 22:30
Bromomethane	A	***ND***	0.6	2.0		µg/L	1	10/01/08 22:30
2-Butanone	A	***ND***	1.5	2.0		µg/L	1	10/01/08 22:30
Carbon Disulfide	A	***ND***	0.4	2.0		µg/L	1	10/01/08 22:30
Carbon tetrachloride	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
Chlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 22:30
Chloroethane	A	***ND***	0.8	2.0		µg/L	1	10/01/08 22:30
Chloroform	A	***ND***	0.7	1.0		µg/L	1	10/01/08 22:30
Chloromethane	A	***ND***	0.3	2.0		µg/L	1	10/01/08 22:30
Dibromochloromethane	A	***ND***	0.6	1.0		µg/L	1	10/01/08 22:30
1,1-Dichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
1,2-Dichloroethane	A	***ND***	0.4	1.0		µg/L	1	10/01/08 22:30
1,1-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 22:30
cis-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 22:30
trans-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 22:30
1,2-Dichloropropane	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
trans-1,3-Dichloropropene	A	***ND***	0.6	1.0		µg/L	1	10/01/08 22:30
cis-1,3-Dichloropropene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
Ethylbenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 22:30
2-Hexanone	A	***ND***	1.1	2.0		µg/L	1	10/01/08 22:30
4-Methyl-2-Pentanone	A	***ND***	0.8	1.0		µg/L	1	10/01/08 22:30
Methylene chloride	A	***0.83***	0.7	2.0	Jb	µg/L	1	10/01/08 22:30
Styrene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 22:30
1,1,2,2-Tetrachloroethane	A	***ND***	0.7	1.0		µg/L	1	10/01/08 22:30
Tetrachloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 22:30
Toluene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
1,1,1-Trichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
1,1,2-Trichloroethane	A	***ND***	0.7	1.0		µg/L	1	10/01/08 22:30
Trichloroethene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
Vinyl chloride	A	***ND***	0.4	2.0		µg/L	1	10/01/08 22:30
Total Xylenes	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
1,2,4-Trichlorobenzene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 22:30
1,2-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 22:30
1,3-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 22:30
1,4-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 22:30
Surr: 4-Bromofluorobenzene	S	100	0	75.2-115		%REC	1	10/01/08 22:30

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESTN01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-01
Collection Date: 09/29/08 09:00
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**		Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	99.7	0	92.7-119		%REC	1	10/01/08 22:30
Surr: 1,2-Dichloroethane-d4	S	118	0	88.2-132		%REC	1	10/01/08 22:30
Surr: Toluene-d8	S	110	0	89.3-116		%REC	1	10/01/08 22:30

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**								
4,4´-DDD	A	ND	0.035	1.0		µg/L	1	10/03/08 18:59
4,4´-DDE	A	ND	0.016	1.0		µg/L	1	10/03/08 18:59
4,4´-DDT	A	ND	0.016	1.0		µg/L	1	10/03/08 18:59
Aldrin	A	ND	0.016	0.052		µg/L	1	10/03/08 18:59
Alpha-BHC	A	ND	0.011	0.052		µg/L	1	10/03/08 18:59
alpha-Chlordane	A	ND	10	10		µg/L	1	10/06/08 12:44
Beta-BHC	A	ND	0.001	0.21		µg/L	1	10/03/08 18:59
delta-BHC	A	0.18	0.016	1.0	Jb	µg/L	1	10/03/08 18:59
Dieldrin	A	ND	0.011	0.052		µg/L	1	10/03/08 18:59
Endosulfan I	A	ND	0.014	1.0		µg/L	1	10/03/08 18:59
Endosulfan II	A	ND	0.014	1.0		µg/L	1	10/03/08 18:59
Endosulfan Sulfate	A	ND	0.016	1.0		µg/L	1	10/03/08 18:59
Endrin	A	ND	0.014	1.0		µg/L	1	10/03/08 18:59
Endrin Aldehyde	A	0.01	0.001	1.0	Jb	µg/L	1	10/03/08 18:59
Endrin Ketone	A	ND	0.029	1.0		µg/L	1	10/03/08 18:59
Gamma-BHC	A	ND	0.011	0.10		µg/L	1	10/03/08 18:59
gamma-Chlordane	A	ND	10	10		µg/L	1	10/06/08 12:44
Heptachlor	A	ND	0.014	0.21		µg/L	1	10/03/08 18:59
Heptachlor Epoxide	A	ND	0.016	0.10		µg/L	1	10/03/08 18:59
Methoxychlor	A	ND	0.19	1.0		µg/L	1	10/03/08 18:59
Toxaphene	A	ND	0.68	2.1		µg/L	1	10/03/08 18:59
Aroclor 1016	A	ND	0.11	0.52		µg/L	1	10/03/08 18:59
Aroclor 1221	A	ND	0.52	0.52		µg/L	1	10/03/08 18:59
Aroclor 1232	A	ND	0.52	0.52		µg/L	1	10/03/08 18:59
Aroclor 1242	A	ND	0.1	0.52		µg/L	1	10/03/08 18:59
Aroclor 1248	A	ND	0.15	0.52		µg/L	1	10/03/08 18:59
Aroclor 1254	A	ND	0.17	0.52		µg/L	1	10/03/08 18:59
Aroclor 1260	A	ND	0.11	0.52		µg/L	1	10/03/08 18:59
Surr: Tetrachloro-m-xylene	S	100	0	45.2-114		%REC	1	10/03/08 18:59
Surr: Decachlorobiphenyl	S	85.0	0	11.6-136		%REC	1	10/03/08 18:59
TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**								
Aluminum	A	ND	4.3	200		µg/L	5	10/03/08 11:54
Antimony	A	0.58	0.038	6.0	J	µg/L	5	10/03/08 11:54
Arsenic	A	2.5	0.31	10	J	µg/L	5	10/03/08 11:54
Barium	A	130	0.058	2.0		µg/L	5	10/03/08 11:54
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 11:54
Cadmium	A	0.078	0.0044	2.0	J	µg/L	5	10/03/08 11:54

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**								
Calcium	A	***83000***	18	500	b	µg/L	5	10/03/08 11:54
Chromium	A	***3.7***	0.83	4.0	J	µg/L	5	10/03/08 11:54
Cobalt	A	***0.25***	0.0019	3.0	J	µg/L	5	10/03/08 11:54
Copper	A	***6.4***	0.088	10	J	µg/L	5	10/03/08 11:54
Iron	A	***2400***	21	50		µg/L	5	10/03/08 11:54
Lead	A	***0.59***	0.12	7.5	J	µg/L	5	10/03/08 11:54
Magnesium	A	***48000***	1.7	500		µg/L	5	10/03/08 11:54
Manganese	A	***34***	0.074	2.0		µg/L	5	10/03/08 11:54
Nickel	A	***ND***	0.031	10		µg/L	5	10/03/08 11:54
Potassium	A	***2200***	4	500		µg/L	5	10/03/08 11:54
Selenium	A	***ND***	0.043	5.0		µg/L	5	10/03/08 11:54
Silver	A	***0.033***	0.0025	10	J	µg/L	5	10/03/08 11:54
Sodium	A	***16000***	4.5	500		µg/L	5	10/03/08 11:54
Thallium	A	***3.3***	0.0065	2.0		µg/L	5	10/03/08 11:54
Vanadium	A	***ND***	1.1	8.0		µg/L	5	10/03/08 11:54
Zinc	A	***11***	3.8	20	J	µg/L	5	10/03/08 11:54
TOTAL METALS Method: **SW7470A** Prep Date/Time: **10/06/08 08:05** Analyst: **SAA**								
Mercury	A	***ND***	0.03	0.20		µg/L	1	10/06/08 10:53
SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**								
4-Bromophenyl phenyl ether	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Bis(2-ethylhexyl)phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 01:26
Acenaphthene	A	***ND***	0.82	10		µg/L	1	10/04/08 01:26
Acenaphthylene	A	***ND***	0.72	10		µg/L	1	10/04/08 01:26
Anthracene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Benzo[a]anthracene	A	***ND***	0.82	10		µg/L	1	10/04/08 01:26
Benzo[a]pyrene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Benzo[b]fluoranthene	A	***ND***	1.6	10		µg/L	1	10/04/08 01:26
Benzo[g,h,i]perylene	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Benzo[k]fluoranthene	A	***ND***	2.3	10		µg/L	1	10/04/08 01:26
Bis(2-chloroethoxy)methane	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Bis(2-chloroethyl)ether	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
2,2´-oxybis(1-chloropropane)	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Butyl benzyl phthalate	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Carbazole	A	***ND***	1.2	10		µg/L	1	10/04/08 01:26
4-Chloro-3-methylphenol	A	***ND***	1.2	21		µg/L	1	10/04/08 01:26
4-Chloroaniline	A	***ND***	1	21		µg/L	1	10/04/08 01:26

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
2-Chlorophenol	A	***ND***	0.72	10		µg/L	1	10/04/08 01:26
4-Chlorophenyl phenyl ether	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Chrysene	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Dibenz[a,h]anthracene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Dibenzofuran	A	***ND***	0.82	10		µg/L	1	10/04/08 01:26
3,3´-Dichlorobenzidine	A	***ND***	0.72	52		µg/L	1	10/04/08 01:26
2,4-Dichlorophenol	A	***ND***	0.72	10		µg/L	1	10/04/08 01:26
Diethyl phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 01:26
Dimethyl phthalate	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
2,4-Dimethylphenol	A	***ND***	0.82	10		µg/L	1	10/04/08 01:26
Di-n-butyl phthalate	A	***ND***	1.2	10		µg/L	1	10/04/08 01:26
Di-n-octyl phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 01:26
4,6-Dinitro-2-methylphenol	A	***ND***	1.1	52		µg/L	1	10/04/08 01:26
2,4-Dinitrophenol	A	***ND***	9.7	52		µg/L	1	10/04/08 01:26
2,4-Dinitrotoluene	A	***ND***	0.82	10		µg/L	1	10/04/08 01:26
2,6-Dinitrotoluene	A	***ND***	1.1	10		µg/L	1	10/04/08 01:26
Fluoranthene	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Fluorene	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Hexachlorobenzene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Hexachlorobutadiene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Hexachlorocyclopentadiene	A	***ND***	0.62	10		µg/L	1	10/04/08 01:26
Hexachloroethane	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Indeno[1,2,3cd]pyrene	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Isophorone	A	***ND***	1	10		µg/L	1	10/04/08 01:26
2-Methylnaphthalene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
2-Methylphenol	A	***ND***	0.72	10		µg/L	1	10/04/08 01:26
3/4-Methylphenol	A	***ND***	0.82	10		µg/L	1	10/04/08 01:26
2-Nitroaniline	A	***ND***	1	52		µg/L	1	10/04/08 01:26
3-Nitroaniline	A	***ND***	1.3	52		µg/L	1	10/04/08 01:26
4-Nitroaniline	A	***ND***	1.8	52		µg/L	1	10/04/08 01:26
2-Nitrophenol	A	***ND***	1	10		µg/L	1	10/04/08 01:26
4-Nitrophenol	A	***ND***	4.4	52		µg/L	1	10/04/08 01:26
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg/L	1	10/04/08 01:26
N-Nitrosodiphenylamine	A	***ND***	0.72	10		µg/L	1	10/04/08 01:26
Naphthalene	A	***ND***	0.72	10		µg/L	1	10/04/08 01:26
Nitrobenzene	A	***ND***	1	10		µg/L	1	10/04/08 01:26
Pentachlorophenol	A	***ND***	1.3	52		µg/L	1	10/04/08 01:26
Phenanthrene	A	***ND***	0.82	10		µg/L	1	10/04/08 01:26

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	***39***	0.41	10		µg/L	1	10/04/08 01:26
Pyrene	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
2,4,5-Trichlorophenol	A	***ND***	1.5	10		µg/L	1	10/04/08 01:26
2,4,6-Trichlorophenol	A	***ND***	0.93	10		µg/L	1	10/04/08 01:26
Surr: Nitrobenzene-d5	S	49.5	0	10-121		%REC	1	10/04/08 01:26
Surr: 2-Fluorobiphenyl	S	57.5	0	10-109		%REC	1	10/04/08 01:26
Surr: Terphenyl-d14	S	50.6	0	10-130		%REC	1	10/04/08 01:26
Surr: Phenol-d5	S	20.6	0	10-100		%REC	1	10/04/08 01:26
Surr: 2-Fluorophenol	S	29.6	0	10-84.7		%REC	1	10/04/08 01:26
Surr: 2,4,6-Tribromophenol	S	51.2	0	10-120		%REC	1	10/04/08 01:26

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	***4.3***	2	5.0	J	µg/L	1	10/02/08 00:34
Benzene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
Bromodichloromethane	A	***ND***	0.5	1.0		µg/L	1	10/02/08 00:34
Bromoform	A	***ND***	0.4	1.0		µg/L	1	10/02/08 00:34
Bromomethane	A	***ND***	0.6	2.0		µg/L	1	10/02/08 00:34
2-Butanone	A	***ND***	1.5	2.0		µg/L	1	10/02/08 00:34
Carbon Disulfide	A	***ND***	0.4	2.0		µg/L	1	10/02/08 00:34
Carbon tetrachloride	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
Chlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 00:34
Chloroethane	A	***ND***	0.8	2.0		µg/L	1	10/02/08 00:34
Chloroform	A	***ND***	0.7	1.0		µg/L	1	10/02/08 00:34
Chloromethane	A	***ND***	0.3	2.0		µg/L	1	10/02/08 00:34
Dibromochloromethane	A	***ND***	0.6	1.0		µg/L	1	10/02/08 00:34
1,1-Dichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
1,2-Dichloroethane	A	***ND***	0.4	1.0		µg/L	1	10/02/08 00:34
1,1-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 00:34
cis-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 00:34
trans-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 00:34
1,2-Dichloropropane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
trans-1,3-Dichloropropene	A	***ND***	0.6	1.0		µg/L	1	10/02/08 00:34
cis-1,3-Dichloropropene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
Ethylbenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 00:34
2-Hexanone	A	***ND***	1.1	2.0		µg/L	1	10/02/08 00:34
4-Methyl-2-Pentanone	A	***ND***	0.8	1.0		µg/L	1	10/02/08 00:34
Methylene chloride	A	***ND***	0.7	2.0		µg/L	1	10/02/08 00:34
Styrene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 00:34

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32 — **Work Order / ID:** ME0809C97-02
Sample Description: — **Collection Date:** 09/29/08 10:00
Sample Matrix: Aqueous — **Date Received:** 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**								
1,1,2,2-Tetrachloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 00:34
Tetrachloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 00:34
Toluene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
1,1,1-Trichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
1,1,2-Trichloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 00:34
Trichloroethene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
Vinyl chloride	A	***ND***	0.4	2.0		µg/L	1	10/02/08 00:34
Total Xylenes	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
1,2,4-Trichlorobenzene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 00:34
1,2-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 00:34
1,3-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 00:34
1,4-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 00:34
Surr: 4-Bromofluorobenzene	S	102	0	75.2-115		%REC	1	10/02/08 00:34
Surr: Dibromofluoromethane	S	101	0	92.7-119		%REC	1	10/02/08 00:34
Surr: 1,2-Dichloroethane-d4	S	117	0	88.2-132		%REC	1	10/02/08 00:34
Surr: Toluene-d8	S	107	0	89.3-116		%REC	1	10/02/08 00:34
TOTAL CYANIDE Method: **SW-9012B** Prep Date/Time: **10/03/08 09:55** Analyst: **RPL**								
Cyanide, Total	A	***ND***	5	5.0		µg/L	1	10/03/08 15:35

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**								
4,4´-DDD	A	ND	0.037	1.1		µg/L	1	10/03/08 19:24
4,4´-DDE	A	ND	0.017	1.1		µg/L	1	10/03/08 19:24
4,4´-DDT	A	ND	0.017	1.1		µg/L	1	10/03/08 19:24
Aldrin	A	ND	0.017	0.054		µg/L	1	10/03/08 19:24
Alpha-BHC	A	ND	0.012	0.054		µg/L	1	10/03/08 19:24
alpha-Chlordane	A	ND	11	11		µg/L	1	10/06/08 13:08
Beta-BHC	A	ND	0.0011	0.22		µg/L	1	10/03/08 19:24
delta-BHC	A	0.16	0.017	1.1	Jb	µg/L	1	10/03/08 19:24
Dieldrin	A	ND	0.012	0.054		µg/L	1	10/03/08 19:24
Endosulfan I	A	ND	0.015	1.1		µg/L	1	10/03/08 19:24
Endosulfan II	A	ND	0.015	1.1		µg/L	1	10/03/08 19:24
Endosulfan Sulfate	A	ND	0.017	1.1		µg/L	1	10/03/08 19:24
Endrin	A	ND	0.015	1.1		µg/L	1	10/03/08 19:24
Endrin Aldehyde	A	0.022	0.0011	1.1	Jb	µg/L	1	10/03/08 19:24
Endrin Ketone	A	ND	0.03	1.1		µg/L	1	10/03/08 19:24
Gamma-BHC	A	ND	0.012	0.11		µg/L	1	10/03/08 19:24
gamma-Chlordane	A	ND	11	11		µg/L	1	10/06/08 13:08
Heptachlor	A	ND	0.015	0.22		µg/L	1	10/03/08 19:24
Heptachlor Epoxide	A	ND	0.017	0.11		µg/L	1	10/03/08 19:24
Methoxychlor	A	ND	0.2	1.1		µg/L	1	10/03/08 19:24
Toxaphene	A	ND	0.71	2.2		µg/L	1	10/03/08 19:24
Aroclor 1016	A	ND	0.12	0.54		µg/L	1	10/03/08 19:24
Aroclor 1221	A	ND	0.54	0.54		µg/L	1	10/03/08 19:24
Aroclor 1232	A	ND	0.54	0.54		µg/L	1	10/03/08 19:24
Aroclor 1242	A	ND	0.11	0.54		µg/L	1	10/03/08 19:24
Aroclor 1248	A	ND	0.15	0.54		µg/L	1	10/03/08 19:24
Aroclor 1254	A	ND	0.18	0.54		µg/L	1	10/03/08 19:24
Aroclor 1260	A	ND	0.12	0.54		µg/L	1	10/03/08 19:24
Surr: Tetrachloro-m-xylene	S	95.0	0	45.2-114		%REC	1	10/03/08 19:24
Surr: Decachlorobiphenyl	S	75.0	0	11.6-136		%REC	1	10/03/08 19:24
TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**								
Aluminum	A	5.9	4.3	200	J	µg/L	5	10/03/08 12:00
Antimony	A	0.043	0.038	6.0	J	µg/L	5	10/03/08 12:00
Arsenic	A	ND	0.31	10		µg/L	5	10/03/08 12:00
Barium	A	120	0.058	2.0		µg/L	5	10/03/08 12:00
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 12:00
Cadmium	A	0.025	0.0044	2.0	J	µg/L	5	10/03/08 12:00

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**								
Calcium	A	***77000***	18	500	b	µg/L	5	10/03/08 12:00
Chromium	A	***2.8***	0.83	4.0	J	µg/L	5	10/03/08 12:00
Cobalt	A	***0.2***	0.0019	3.0	J	µg/L	5	10/03/08 12:00
Copper	A	***12***	0.088	10		µg/L	5	10/03/08 12:00
Iron	A	***2600***	21	50		µg/L	5	10/03/08 12:00
Lead	A	***1.1***	0.12	7.5	J	µg/L	5	10/03/08 12:00
Magnesium	A	***38000***	1.7	500		µg/L	5	10/03/08 12:00
Manganese	A	***58***	0.074	2.0		µg/L	5	10/03/08 12:00
Nickel	A	***ND***	0.031	10		µg/L	5	10/03/08 12:00
Potassium	A	***1600***	4	500		µg/L	5	10/03/08 12:00
Selenium	A	***ND***	0.043	5.0		µg/L	5	10/03/08 12:00
Silver	A	***ND***	0.0025	10		µg/L	5	10/03/08 12:00
Sodium	A	***22000***	4.5	500		µg/L	5	10/03/08 12:00
Thallium	A	***0.75***	0.0065	2.0	J	µg/L	5	10/03/08 12:00
Vanadium	A	***ND***	1.1	8.0		µg/L	5	10/03/08 12:00
Zinc	A	***14***	3.8	20	J	µg/L	5	10/03/08 12:00
TOTAL METALS Method: **SW7470A** Prep Date/Time: **10/06/08 08:05** Analyst: **SAA**								
Mercury	A	***ND***	0.03	0.20		µg/L	1	10/06/08 10:54
SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**								
4-Bromophenyl phenyl ether	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Bis(2-ethylhexyl)phthalate	A	***ND***	1.2	11		µg/L	1	10/04/08 01:52
Acenaphthene	A	***ND***	0.87	11		µg/L	1	10/04/08 01:52
Acenaphthylene	A	***ND***	0.76	11		µg/L	1	10/04/08 01:52
Anthracene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Benzo[a]anthracene	A	***ND***	0.87	11		µg/L	1	10/04/08 01:52
Benzo[a]pyrene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Benzo[b]fluoranthene	A	***ND***	1.7	11		µg/L	1	10/04/08 01:52
Benzo[g,h,i]perylene	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Benzo[k]fluoranthene	A	***ND***	2.4	11		µg/L	1	10/04/08 01:52
Bis(2-chloroethoxy)methane	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Bis(2-chloroethyl)ether	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
2,2´-oxybis(1-chloropropane)	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Butyl benzyl phthalate	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Carbazole	A	***ND***	1.3	11		µg/L	1	10/04/08 01:52
4-Chloro-3-methylphenol	A	***ND***	1.3	22		µg/L	1	10/04/08 01:52
4-Chloroaniline	A	***ND***	1.1	22		µg/L	1	10/04/08 01:52

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32 — **Work Order / ID:** ME0809C97-03
Sample Description: — **Collection Date:** 09/29/08 10:25
Sample Matrix: Aqueous — **Date Received:** 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
2-Chlorophenol	A	***ND***	0.76	11		µg/L	1	10/04/08 01:52
4-Chlorophenyl phenyl ether	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Chrysene	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Dibenz[a,h]anthracene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Dibenzofuran	A	***ND***	0.87	11		µg/L	1	10/04/08 01:52
3,3´-Dichlorobenzidine	A	***ND***	0.76	54		µg/L	1	10/04/08 01:52
2,4-Dichlorophenol	A	***ND***	0.76	11		µg/L	1	10/04/08 01:52
Diethyl phthalate	A	***ND***	1.2	11		µg/L	1	10/04/08 01:52
Dimethyl phthalate	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
2,4-Dimethylphenol	A	***ND***	0.87	11		µg/L	1	10/04/08 01:52
Di-n-butyl phthalate	A	***23***	1.3	11		µg/L	1	10/04/08 01:52
Di-n-octyl phthalate	A	***ND***	1.2	11		µg/L	1	10/04/08 01:52
4,6-Dinitro-2-methylphenol	A	***ND***	1.2	54		µg/L	1	10/04/08 01:52
2,4-Dinitrophenol	A	***ND***	10	54		µg/L	1	10/04/08 01:52
2,4-Dinitrotoluene	A	***ND***	0.87	11		µg/L	1	10/04/08 01:52
2,6-Dinitrotoluene	A	***ND***	1.2	11		µg/L	1	10/04/08 01:52
Fluoranthene	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Fluorene	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Hexachlorobenzene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Hexachlorobutadiene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Hexachlorocyclopentadiene	A	***ND***	0.65	11		µg/L	1	10/04/08 01:52
Hexachloroethane	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Indeno[1,2,3cd]pyrene	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Isophorone	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
2-Methylnaphthalene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
2-Methylphenol	A	***ND***	0.76	11		µg/L	1	10/04/08 01:52
3/4-Methylphenol	A	***ND***	0.87	11		µg/L	1	10/04/08 01:52
2-Nitroaniline	A	***ND***	1.1	54		µg/L	1	10/04/08 01:52
3-Nitroaniline	A	***ND***	1.4	54		µg/L	1	10/04/08 01:52
4-Nitroaniline	A	***ND***	1.8	54		µg/L	1	10/04/08 01:52
2-Nitrophenol	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
4-Nitrophenol	A	***ND***	4.7	54		µg/L	1	10/04/08 01:52
N-Nitrosodi-n-propylamine	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
N-Nitrosodiphenylamine	A	***ND***	0.76	11		µg/L	1	10/04/08 01:52
Naphthalene	A	***ND***	0.76	11		µg/L	1	10/04/08 01:52
Nitrobenzene	A	***ND***	1.1	11		µg/L	1	10/04/08 01:52
Pentachlorophenol	A	***ND***	1.4	54		µg/L	1	10/04/08 01:52
Phenanthrene	A	***ND***	0.87	11		µg/L	1	10/04/08 01:52

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Microbac®

ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	***ND***	0.43	11		µg/L	1	10/04/08 01:52
Pyrene	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
2,4,5-Trichlorophenol	A	***ND***	1.6	11		µg/L	1	10/04/08 01:52
2,4,6-Trichlorophenol	A	***ND***	0.98	11		µg/L	1	10/04/08 01:52
Surr: Nitrobenzene-d5	S	57.5	0	10-121		%REC	1	10/04/08 01:52
Surr: 2-Fluorobiphenyl	S	55.8	0	10-109		%REC	1	10/04/08 01:52
Surr: Terphenyl-d14	S	58.2	0	10-130		%REC	1	10/04/08 01:52
Surr: Phenol-d5	S	23.4	0	10-100		%REC	1	10/04/08 01:52
Surr: 2-Fluorophenol	S	34.9	0	10-84.7		%REC	1	10/04/08 01:52
Surr: 2,4,6-Tribromophenol	S	62.1	0	10-120		%REC	1	10/04/08 01:52

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	***2.5***	2	5.0	J	µg/L	1	10/02/08 01:05
Benzene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
Bromodichloromethane	A	***ND***	0.5	1.0		µg/L	1	10/02/08 01:05
Bromoform	A	***ND***	0.4	1.0		µg/L	1	10/02/08 01:05
Bromomethane	A	***ND***	0.6	2.0		µg/L	1	10/02/08 01:05
2-Butanone	A	***ND***	1.5	2.0		µg/L	1	10/02/08 01:05
Carbon Disulfide	A	***ND***	0.4	2.0		µg/L	1	10/02/08 01:05
Carbon tetrachloride	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
Chlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:05
Chloroethane	A	***ND***	0.8	2.0		µg/L	1	10/02/08 01:05
Chloroform	A	***ND***	0.7	1.0		µg/L	1	10/02/08 01:05
Chloromethane	A	***ND***	0.3	2.0		µg/L	1	10/02/08 01:05
Dibromochloromethane	A	***ND***	0.6	1.0		µg/L	1	10/02/08 01:05
1,1-Dichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
1,2-Dichloroethane	A	***ND***	0.4	1.0		µg/L	1	10/02/08 01:05
1,1-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 01:05
cis-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 01:05
trans-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 01:05
1,2-Dichloropropane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
trans-1,3-Dichloropropene	A	***ND***	0.6	1.0		µg/L	1	10/02/08 01:05
cis-1,3-Dichloropropene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
Ethylbenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:05
2-Hexanone	A	***ND***	1.1	2.0		µg/L	1	10/02/08 01:05
4-Methyl-2-Pentanone	A	***ND***	0.8	1.0		µg/L	1	10/02/08 01:05
Methylene chloride	A	***ND***	0.7	2.0		µg/L	1	10/02/08 01:05
Styrene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:05

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
1,1,2,2-Tetrachloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 01:05
Tetrachloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 01:05
Toluene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
1,1,1-Trichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
1,1,2-Trichloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 01:05
Trichloroethene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
Vinyl chloride	A	***ND***	0.4	2.0		µg/L	1	10/02/08 01:05
Total Xylenes	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
1,2,4-Trichlorobenzene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:05
1,2-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:05
1,3-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:05
1,4-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:05
Surr: 4-Bromofluorobenzene	S	98.4	0	75.2-115		%REC	1	10/02/08 01:05
Surr: Dibromofluoromethane	S	100	0	92.7-119		%REC	1	10/02/08 01:05
Surr: 1,2-Dichloroethane-d4	S	119	0	88.2-132		%REC	1	10/02/08 01:05
Surr: Toluene-d8	S	106	0	89.3-116		%REC	1	10/02/08 01:05
TOTAL CYANIDE	Method:	**SW-9012B**		Prep Date/Time: **10/03/08 09:55**			Analyst:	**RPL**
Cyanide, Total	A	***ND***	5	5.0		µg/L	1	10/03/08 15:36

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
PESTICIDES/PCBS	Method:	**SW8081A/8082**			Prep Date/Time:	**10/03/08 13:30**	Analyst:	**JLW**
4,4´-DDD	A	***ND***	0.037	1.1		µg/L	1	10/03/08 19:48
4,4´-DDE	A	***ND***	0.017	1.1		µg/L	1	10/03/08 19:48
4,4´-DDT	A	***ND***	0.017	1.1		µg/L	1	10/03/08 19:48
Aldrin	A	***ND***	0.017	0.054		µg/L	1	10/03/08 19:48
Alpha-BHC	A	***ND***	0.012	0.054		µg/L	1	10/03/08 19:48
alpha-Chlordane	A	***ND***	11	11		µg/L	1	10/06/08 13:32
Beta-BHC	A	***ND***	0.0011	0.22		µg/L	1	10/03/08 19:48
delta-BHC	A	***0.16***	0.017	1.1	Jb	µg/L	1	10/03/08 19:48
Dieldrin	A	***ND***	0.012	0.054		µg/L	1	10/03/08 19:48
Endosulfan I	A	***ND***	0.015	1.1		µg/L	1	10/03/08 19:48
Endosulfan II	A	***ND***	0.015	1.1		µg/L	1	10/03/08 19:48
Endosulfan Sulfate	A	***ND***	0.017	1.1		µg/L	1	10/03/08 19:48
Endrin	A	***ND***	0.015	1.1		µg/L	1	10/03/08 19:48
Endrin Aldehyde	A	***ND***	0.0011	1.1		µg/L	1	10/03/08 19:48
Endrin Ketone	A	***ND***	0.03	1.1		µg/L	1	10/03/08 19:48
Gamma-BHC	A	***ND***	0.012	0.11		µg/L	1	10/03/08 19:48
gamma-Chlordane	A	***ND***	11	11		µg/L	1	10/06/08 13:32
Heptachlor	A	***ND***	0.015	0.22		µg/L	1	10/03/08 19:48
Heptachlor Epoxide	A	***ND***	0.017	0.11		µg/L	1	10/03/08 19:48
Methoxychlor	A	***ND***	0.2	1.1		µg/L	1	10/03/08 19:48
Toxaphene	A	***ND***	0.71	2.2		µg/L	1	10/03/08 19:48
Aroclor 1016	A	***ND***	0.12	0.54		µg/L	1	10/03/08 19:48
Aroclor 1221	A	***ND***	0.54	0.54		µg/L	1	10/03/08 19:48
Aroclor 1232	A	***ND***	0.54	0.54		µg/L	1	10/03/08 19:48
Aroclor 1242	A	***ND***	0.11	0.54		µg/L	1	10/03/08 19:48
Aroclor 1248	A	***ND***	0.15	0.54		µg/L	1	10/03/08 19:48
Aroclor 1254	A	***ND***	0.18	0.54		µg/L	1	10/03/08 19:48
Aroclor 1260	A	***ND***	0.12	0.54		µg/L	1	10/03/08 19:48
Surr: Tetrachloro-m-xylene	S	100	0	45.2-114		%REC	1	10/03/08 19:48
Surr: Decachlorobiphenyl	S	75.0	0	11.6-136		%REC	1	10/03/08 19:48
TOTAL METALS	Method:	**SW6020A**			Prep Date/Time:	**10/01/08 07:20**	Analyst:	**SAA**
Aluminum	A	***ND***	4.3	200		µg/L	5	10/03/08 12:06
Antimony	A	***ND***	0.038	6.0		µg/L	5	10/03/08 12:06
Arsenic	A	***ND***	0.31	10		µg/L	5	10/03/08 12:06
Barium	A	***140***	0.058	2.0		µg/L	5	10/03/08 12:06
Beryllium	A	***ND***	0.96	1.0		µg/L	5	10/03/08 12:06
Cadmium	A	***0.058***	0.0044	2.0	J	µg/L	5	10/03/08 12:06

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Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**								
Calcium	A	***81000***	18	500	b	µg/L	5	10/03/08 12:06
Chromium	A	***3.1***	0.83	4.0	J	µg/L	5	10/03/08 12:06
Cobalt	A	***0.21***	0.0019	3.0	J	µg/L	5	10/03/08 12:06
Copper	A	***1.7***	0.088	10	J	µg/L	5	10/03/08 12:06
Iron	A	***2400***	21	50		µg/L	5	10/03/08 12:06
Lead	A	***ND***	0.12	7.5		µg/L	5	10/03/08 12:06
Magnesium	A	***46000***	1.7	500		µg/L	5	10/03/08 12:06
Manganese	A	***34***	0.074	2.0		µg/L	5	10/03/08 12:06
Nickel	A	***ND***	0.031	10		µg/L	5	10/03/08 12:06
Potassium	A	***2100***	4	500		µg/L	5	10/03/08 12:06
Selenium	A	***ND***	0.043	5.0		µg/L	5	10/03/08 12:06
Silver	A	***ND***	0.0025	10		µg/L	5	10/03/08 12:06
Sodium	A	***15000***	4.5	500		µg/L	5	10/03/08 12:06
Thallium	A	***0.36***	0.0065	2.0	J	µg/L	5	10/03/08 12:06
Vanadium	A	***2.7***	1.1	8.0	J	µg/L	5	10/03/08 12:06
Zinc	A	***12***	3.8	20	J	µg/L	5	10/03/08 12:06
TOTAL METALS Method: **SW7470A** Prep Date/Time: **10/06/08 08:05** Analyst: **SAA**								
Mercury	A	***ND***	0.03	0.20		µg/L	1	10/06/08 10:56
SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**								
4-Bromophenyl phenyl ether	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Bis(2-ethylhexyl)phthalate	A	***ND***	1.2	11		µg/L	1	10/04/08 02:18
Acenaphthene	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
Acenaphthylene	A	***ND***	0.74	11		µg/L	1	10/04/08 02:18
Anthracene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Benzo[a]anthracene	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
Benzo[a]pyrene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Benzo[b]fluoranthene	A	***ND***	1.7	11		µg/L	1	10/04/08 02:18
Benzo[g,h,i]perylene	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Benzo[k]fluoranthene	A	***ND***	2.3	11		µg/L	1	10/04/08 02:18
Bis(2-chloroethoxy)methane	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Bis(2-chloroethyl)ether	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
2,2´-oxybis(1-chloropropane)	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Butyl benzyl phthalate	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Carbazole	A	***ND***	1.3	11		µg/L	1	10/04/08 02:18
4-Chloro-3-methylphenol	A	***ND***	1.3	21		µg/L	1	10/04/08 02:18
4-Chloroaniline	A	***ND***	1.1	21		µg/L	1	10/04/08 02:18

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
2-Chlorophenol	A	***ND***	0.74	11		µg/L	1	10/04/08 02:18
4-Chlorophenyl phenyl ether	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Chrysene	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Dibenz[a,h]anthracene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Dibenzofuran	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
3,3´-Dichlorobenzidine	A	***ND***	0.74	53		µg/L	1	10/04/08 02:18
2,4-Dichlorophenol	A	***ND***	0.74	11		µg/L	1	10/04/08 02:18
Diethyl phthalate	A	***ND***	1.2	11		µg/L	1	10/04/08 02:18
Dimethyl phthalate	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
2,4-Dimethylphenol	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
Di-n-butyl phthalate	A	***ND***	1.3	11		µg/L	1	10/04/08 02:18
Di-n-octyl phthalate	A	***ND***	1.2	11		µg/L	1	10/04/08 02:18
4,6-Dinitro-2-methylphenol	A	***ND***	1.2	53		µg/L	1	10/04/08 02:18
2,4-Dinitrophenol	A	***ND***	10	53		µg/L	1	10/04/08 02:18
2,4-Dinitrotoluene	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
2,6-Dinitrotoluene	A	***ND***	1.2	11		µg/L	1	10/04/08 02:18
Fluoranthene	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Fluorene	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Hexachlorobenzene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Hexachlorobutadiene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Hexachlorocyclopentadiene	A	***ND***	0.64	11		µg/L	1	10/04/08 02:18
Hexachloroethane	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Indeno[1,2,3cd]pyrene	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Isophorone	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
2-Methylnaphthalene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
2-Methylphenol	A	***ND***	0.74	11		µg/L	1	10/04/08 02:18
3/4-Methylphenol	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
2-Nitroaniline	A	***ND***	1.1	53		µg/L	1	10/04/08 02:18
3-Nitroaniline	A	***ND***	1.4	53		µg/L	1	10/04/08 02:18
4-Nitroaniline	A	***ND***	1.8	53		µg/L	1	10/04/08 02:18
2-Nitrophenol	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
4-Nitrophenol	A	***ND***	4.6	53		µg/L	1	10/04/08 02:18
N-Nitrosodi-n-propylamine	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
N-Nitrosodiphenylamine	A	***ND***	0.74	11		µg/L	1	10/04/08 02:18
Naphthalene	A	***ND***	0.74	11		µg/L	1	10/04/08 02:18
Nitrobenzene	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Pentachlorophenol	A	***ND***	1.4	53		µg/L	1	10/04/08 02:18
Phenanthrene	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	*4*	0.43	11	J	µg/L	1	10/04/08 02:18
Pyrene	A	*ND*	0.96	11		µg/L	1	10/04/08 02:18
2,4,5-Trichlorophenol	A	*ND*	1.6	11		µg/L	1	10/04/08 02:18
2,4,6-Trichlorophenol	A	*ND*	0.96	11		µg/L	1	10/04/08 02:18
Surr: Nitrobenzene-d5	S	50.4	0	10-121		%REC	1	10/04/08 02:18
Surr: 2-Fluorobiphenyl	S	54.0	0	10-109		%REC	1	10/04/08 02:18
Surr: Terphenyl-d14	S	56.9	0	10-130		%REC	1	10/04/08 02:18
Surr: Phenol-d5	S	20.2	0	10-100		%REC	1	10/04/08 02:18
Surr: 2-Fluorophenol	S	30.0	0	10-84.7		%REC	1	10/04/08 02:18
Surr: 2,4,6-Tribromophenol	S	59.5	0	10-120		%REC	1	10/04/08 02:18

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	*4*	2	5.0	J	µg/L	1	10/02/08 01:36
Benzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
Bromodichloromethane	A	*ND*	0.5	1.0		µg/L	1	10/02/08 01:36
Bromoform	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36
Bromomethane	A	*ND*	0.6	2.0		µg/L	1	10/02/08 01:36
2-Butanone	A	*ND*	1.5	2.0		µg/L	1	10/02/08 01:36
Carbon Disulfide	A	*ND*	0.4	2.0		µg/L	1	10/02/08 01:36
Carbon tetrachloride	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
Chlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36
Chloroethane	A	*ND*	0.8	2.0		µg/L	1	10/02/08 01:36
Chloroform	A	*ND*	0.7	1.0		µg/L	1	10/02/08 01:36
Chloromethane	A	*ND*	0.3	2.0		µg/L	1	10/02/08 01:36
Dibromochloromethane	A	*ND*	0.6	1.0		µg/L	1	10/02/08 01:36
1,1-Dichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
1,2-Dichloroethane	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36
1,1-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36
cis-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36
trans-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36
1,2-Dichloropropane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
trans-1,3-Dichloropropene	A	*ND*	0.6	1.0		µg/L	1	10/02/08 01:36
cis-1,3-Dichloropropene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
Ethylbenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36
2-Hexanone	A	*ND*	1.1	2.0		µg/L	1	10/02/08 01:36
4-Methyl-2-Pentanone	A	*ND*	0.8	1.0		µg/L	1	10/02/08 01:36
Methylene chloride	A	*ND*	0.7	2.0		µg/L	1	10/02/08 01:36
Styrene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
1,1,2,2-Tetrachloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 01:36
Tetrachloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 01:36
Toluene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:36
1,1,1-Trichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:36
1,1,2-Trichloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 01:36
Trichloroethene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:36
Vinyl chloride	A	***ND***	0.4	2.0		µg/L	1	10/02/08 01:36
Total Xylenes	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:36
1,2,4-Trichlorobenzene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 01:36
1,2-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:36
1,3-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:36
1,4-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 01:36
Surr: 4-Bromofluorobenzene	S	102	0	75.2-115		%REC	1	10/02/08 01:36
Surr: Dibromofluoromethane	S	98.5	0	92.7-119		%REC	1	10/02/08 01:36
Surr: 1,2-Dichloroethane-d4	S	119	0	88.2-132		%REC	1	10/02/08 01:36
Surr: Toluene-d8	S	109	0	89.3-116		%REC	1	10/02/08 01:36
TOTAL CYANIDE	Method:	**SW-9012B**			Prep Date/Time: **10/03/08 09:55**			Analyst: **RPL**
Cyanide, Total	A	***ND***	5	5.0		µg/L	1	10/03/08 15:40

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
4,4´-DDD	A	ND	0.035	1.0		µg/L	1	10/03/08 20:12
4,4´-DDE	A	ND	0.016	1.0		µg/L	1	10/03/08 20:12
4,4´-DDT	A	ND	0.016	1.0		µg/L	1	10/03/08 20:12
Aldrin	A	ND	0.016	0.051		µg/L	1	10/03/08 20:12
Alpha-BHC	A	ND	0.011	0.051		µg/L	1	10/03/08 20:12
alpha-Chlordane	A	ND	10	10		µg/L	1	10/06/08 13:56
Beta-BHC	A	ND	0.001	0.20		µg/L	1	10/03/08 20:12
delta-BHC	A	0.14	0.016	1.0	Jb	µg/L	1	10/03/08 20:12
Dieldrin	A	ND	0.011	0.051		µg/L	1	10/03/08 20:12
Endosulfan I	A	ND	0.014	1.0		µg/L	1	10/03/08 20:12
Endosulfan II	A	ND	0.014	1.0		µg/L	1	10/03/08 20:12
Endosulfan Sulfate	A	ND	0.016	1.0		µg/L	1	10/03/08 20:12
Endrin	A	ND	0.014	1.0		µg/L	1	10/03/08 20:12
Endrin Aldehyde	A	ND	0.001	1.0		µg/L	1	10/03/08 20:12
Endrin Ketone	A	ND	0.029	1.0		µg/L	1	10/03/08 20:12
Gamma-BHC	A	ND	0.011	0.10		µg/L	1	10/03/08 20:12
gamma-Chlordane	A	ND	10	10		µg/L	1	10/06/08 13:56
Heptachlor	A	ND	0.014	0.20		µg/L	1	10/03/08 20:12
Heptachlor Epoxide	A	ND	0.016	0.10		µg/L	1	10/03/08 20:12
Methoxychlor	A	ND	0.19	1.0		µg/L	1	10/03/08 20:12
Toxaphene	A	ND	0.67	2.0		µg/L	1	10/03/08 20:12
Aroclor 1016	A	ND	0.11	0.51		µg/L	1	10/03/08 20:12
Aroclor 1221	A	ND	0.51	0.51		µg/L	1	10/03/08 20:12
Aroclor 1232	A	ND	0.51	0.51		µg/L	1	10/03/08 20:12
Aroclor 1242	A	ND	0.1	0.51		µg/L	1	10/03/08 20:12
Aroclor 1248	A	ND	0.14	0.51		µg/L	1	10/03/08 20:12
Aroclor 1254	A	ND	0.17	0.51		µg/L	1	10/03/08 20:12
Aroclor 1260	A	ND	0.11	0.51		µg/L	1	10/03/08 20:12
Surr: Tetrachloro-m-xylene	S	100	0	45.2-114		%REC	1	10/03/08 20:12
Surr: Decachlorobiphenyl	S	90.0	0	11.6-136		%REC	1	10/03/08 20:12

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Aluminum	A	ND	4.3	200		µg/L	5	10/03/08 12:12
Antimony	A	ND	0.038	6.0		µg/L	5	10/03/08 12:12
Arsenic	A	1	0.31	10	J	µg/L	5	10/03/08 12:12
Barium	A	140	0.058	2.0		µg/L	5	10/03/08 12:12
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 12:12
Cadmium	A	0.01	0.0044	2.0	J	µg/L	5	10/03/08 12:12

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**								
Calcium	A	***86000***	18	500	b	µg/L	5	10/03/08 12:12
Chromium	A	***2.6***	0.83	4.0	J	µg/L	5	10/03/08 12:12
Cobalt	A	***0.23***	0.0019	3.0	J	µg/L	5	10/03/08 12:12
Copper	A	***0.19***	0.088	10	J	µg/L	5	10/03/08 12:12
Iron	A	***2400***	21	50		µg/L	5	10/03/08 12:12
Lead	A	***ND***	0.12	7.5		µg/L	5	10/03/08 12:12
Magnesium	A	***48000***	1.7	500		µg/L	5	10/03/08 12:12
Manganese	A	***36***	0.074	2.0		µg/L	5	10/03/08 12:12
Nickel	A	***ND***	0.031	10		µg/L	5	10/03/08 12:12
Potassium	A	***2400***	4	500		µg/L	5	10/03/08 12:12
Selenium	A	***ND***	0.043	5.0		µg/L	5	10/03/08 12:12
Silver	A	***ND***	0.0025	10		µg/L	5	10/03/08 12:12
Sodium	A	***18000***	4.5	500		µg/L	5	10/03/08 12:12
Thallium	A	***0.18***	0.0065	2.0	J	µg/L	5	10/03/08 12:12
Vanadium	A	***2.2***	1.1	8.0	J	µg/L	5	10/03/08 12:12
Zinc	A	***11***	3.8	20	J	µg/L	5	10/03/08 12:12
TOTAL METALS Method: **SW7470A** Prep Date/Time: **10/06/08 08:05** Analyst: **SAA**								
Mercury	A	***ND***	0.03	0.20		µg/L	1	10/06/08 10:57
SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**								
4-Bromophenyl phenyl ether	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Bis(2-ethylhexyl)phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 02:43
Acenaphthene	A	***ND***	0.82	10		µg/L	1	10/04/08 02:43
Acenaphthylene	A	***ND***	0.72	10		µg/L	1	10/04/08 02:43
Anthracene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Benzo[a]anthracene	A	***ND***	0.82	10		µg/L	1	10/04/08 02:43
Benzo[a]pyrene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Benzo[b]fluoranthene	A	***ND***	1.6	10		µg/L	1	10/04/08 02:43
Benzo[g,h,i]perylene	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Benzo[k]fluoranthene	A	***ND***	2.3	10		µg/L	1	10/04/08 02:43
Bis(2-chloroethoxy)methane	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Bis(2-chloroethyl)ether	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
2,2´-oxybis(1-chloropropane)	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Butyl benzyl phthalate	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Carbazole	A	***ND***	1.2	10		µg/L	1	10/04/08 02:43
4-Chloro-3-methylphenol	A	***ND***	1.2	21		µg/L	1	10/04/08 02:43
4-Chloroaniline	A	***ND***	1	21		µg/L	1	10/04/08 02:43

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
2-Chlorophenol	A	***ND***	0.72	10		µg/L	1	10/04/08 02:43
4-Chlorophenyl phenyl ether	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Chrysene	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Dibenz[a,h]anthracene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Dibenzofuran	A	***ND***	0.82	10		µg/L	1	10/04/08 02:43
3,3´-Dichlorobenzidine	A	***ND***	0.72	52		µg/L	1	10/04/08 02:43
2,4-Dichlorophenol	A	***ND***	0.72	10		µg/L	1	10/04/08 02:43
Diethyl phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 02:43
Dimethyl phthalate	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
2,4-Dimethylphenol	A	***ND***	0.82	10		µg/L	1	10/04/08 02:43
Di-n-butyl phthalate	A	***ND***	1.2	10		µg/L	1	10/04/08 02:43
Di-n-octyl phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 02:43
4,6-Dinitro-2-methylphenol	A	***ND***	1.1	52		µg/L	1	10/04/08 02:43
2,4-Dinitrophenol	A	***ND***	9.7	52		µg/L	1	10/04/08 02:43
2,4-Dinitrotoluene	A	***ND***	0.82	10		µg/L	1	10/04/08 02:43
2,6-Dinitrotoluene	A	***ND***	1.1	10		µg/L	1	10/04/08 02:43
Fluoranthene	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Fluorene	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Hexachlorobenzene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Hexachlorobutadiene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Hexachlorocyclopentadiene	A	***ND***	0.62	10		µg/L	1	10/04/08 02:43
Hexachloroethane	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Indeno[1,2,3cd]pyrene	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Isophorone	A	***ND***	1	10		µg/L	1	10/04/08 02:43
2-Methylnaphthalene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
2-Methylphenol	A	***ND***	0.72	10		µg/L	1	10/04/08 02:43
3/4-Methylphenol	A	***ND***	0.82	10		µg/L	1	10/04/08 02:43
2-Nitroaniline	A	***ND***	1	52		µg/L	1	10/04/08 02:43
3-Nitroaniline	A	***ND***	1.3	52		µg/L	1	10/04/08 02:43
4-Nitroaniline	A	***ND***	1.8	52		µg/L	1	10/04/08 02:43
2-Nitrophenol	A	***ND***	1	10		µg/L	1	10/04/08 02:43
4-Nitrophenol	A	***ND***	4.4	52		µg/L	1	10/04/08 02:43
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg/L	1	10/04/08 02:43
N-Nitrosodiphenylamine	A	***ND***	0.72	10		µg/L	1	10/04/08 02:43
Naphthalene	A	***ND***	0.72	10		µg/L	1	10/04/08 02:43
Nitrobenzene	A	***ND***	1	10		µg/L	1	10/04/08 02:43
Pentachlorophenol	A	***ND***	1.3	52		µg/L	1	10/04/08 02:43
Phenanthrene	A	***ND***	0.82	10		µg/L	1	10/04/08 02:43

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	***ND***	0.41	10		µg/L	1	10/04/08 02:43
Pyrene	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
2,4,5-Trichlorophenol	A	***ND***	1.5	10		µg/L	1	10/04/08 02:43
2,4,6-Trichlorophenol	A	***ND***	0.93	10		µg/L	1	10/04/08 02:43
Surr: Nitrobenzene-d5	S	50.0	0	10-121		%REC	1	10/04/08 02:43
Surr: 2-Fluorobiphenyl	S	57.2	0	10-109		%REC	1	10/04/08 02:43
Surr: Terphenyl-d14	S	56.2	0	10-130		%REC	1	10/04/08 02:43
Surr: Phenol-d5	S	22.0	0	10-100		%REC	1	10/04/08 02:43
Surr: 2-Fluorophenol	S	32.8	0	10-84.7		%REC	1	10/04/08 02:43
Surr: 2,4,6-Tribromophenol	S	57.4	0	10-120		%REC	1	10/04/08 02:43

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	***ND***	2	5.0		µg/L	1	10/01/08 23:01
Benzene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
Bromodichloromethane	A	***ND***	0.5	1.0		µg/L	1	10/01/08 23:01
Bromoform	A	***ND***	0.4	1.0		µg/L	1	10/01/08 23:01
Bromomethane	A	***ND***	0.6	2.0		µg/L	1	10/01/08 23:01
2-Butanone	A	***ND***	1.5	2.0		µg/L	1	10/01/08 23:01
Carbon Disulfide	A	***ND***	0.4	2.0		µg/L	1	10/01/08 23:01
Carbon tetrachloride	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
Chlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 23:01
Chloroethane	A	***ND***	0.8	2.0		µg/L	1	10/01/08 23:01
Chloroform	A	***ND***	0.7	1.0		µg/L	1	10/01/08 23:01
Chloromethane	A	***ND***	0.3	2.0		µg/L	1	10/01/08 23:01
Dibromochloromethane	A	***ND***	0.6	1.0		µg/L	1	10/01/08 23:01
1,1-Dichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
1,2-Dichloroethane	A	***ND***	0.4	1.0		µg/L	1	10/01/08 23:01
1,1-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 23:01
cis-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 23:01
trans-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 23:01
1,2-Dichloropropane	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
trans-1,3-Dichloropropene	A	***ND***	0.6	1.0		µg/L	1	10/01/08 23:01
cis-1,3-Dichloropropene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
Ethylbenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 23:01
2-Hexanone	A	***ND***	1.1	2.0		µg/L	1	10/01/08 23:01
4-Methyl-2-Pentanone	A	***ND***	0.8	1.0		µg/L	1	10/01/08 23:01
Methylene chloride	A	***ND***	0.7	2.0		µg/L	1	10/01/08 23:01
Styrene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 23:01

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
1,1,2,2-Tetrachloroethane	A	***ND***	0.7	1.0		µg/L	1	10/01/08 23:01
Tetrachloroethene	A	***ND***	0.4	1.0		µg/L	1	10/01/08 23:01
Toluene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
1,1,1-Trichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
1,1,2-Trichloroethane	A	***ND***	0.7	1.0		µg/L	1	10/01/08 23:01
Trichloroethene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
Vinyl chloride	A	***ND***	0.4	2.0		µg/L	1	10/01/08 23:01
Total Xylenes	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
1,2,4-Trichlorobenzene	A	***ND***	0.3	1.0		µg/L	1	10/01/08 23:01
1,2-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 23:01
1,3-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 23:01
1,4-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/01/08 23:01
Surr: 4-Bromofluorobenzene	S	103	0	75.2-115		%REC	1	10/01/08 23:01
Surr: Dibromofluoromethane	S	102	0	92.7-119		%REC	1	10/01/08 23:01
Surr: 1,2-Dichloroethane-d4	S	120	0	88.2-132		%REC	1	10/01/08 23:01
Surr: Toluene-d8	S	106	0	89.3-116		%REC	1	10/01/08 23:01
TOTAL CYANIDE	Method:	**SW-9012B**		Prep Date/Time: **10/03/08 09:55**			Analyst:	**RPL**
Cyanide, Total	A	***ND***	5	5.0		µg/L	1	10/03/08 15:47

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
4,4´-DDD	A	***ND***	0.035	1.0		µg/L	1	10/03/08 22:13
4,4´-DDE	A	***ND***	0.017	1.0		µg/L	1	10/03/08 22:13
4,4´-DDT	A	***ND***	0.017	1.0		µg/L	1	10/03/08 22:13
Aldrin	A	***ND***	0.017	0.052		µg/L	1	10/03/08 22:13
Alpha-BHC	A	***ND***	0.011	0.052		µg/L	1	10/03/08 22:13
alpha-Chlordane	A	***ND***	10	10		µg/L	1	10/06/08 14:20
Beta-BHC	A	***ND***	0.001	0.21		µg/L	1	10/03/08 22:13
delta-BHC	A	***0.15***	0.017	1.0	Jb	µg/L	1	10/03/08 22:13
Dieldrin	A	***ND***	0.011	0.052		µg/L	1	10/03/08 22:13
Endosulfan I	A	***ND***	0.015	1.0		µg/L	1	10/03/08 22:13
Endosulfan II	A	***ND***	0.015	1.0		µg/L	1	10/03/08 22:13
Endosulfan Sulfate	A	***ND***	0.017	1.0		µg/L	1	10/03/08 22:13
Endrin	A	***ND***	0.015	1.0		µg/L	1	10/03/08 22:13
Endrin Aldehyde	A	***0.01***	0.001	1.0	Jb	µg/L	1	10/03/08 22:13
Endrin Ketone	A	***ND***	0.029	1.0		µg/L	1	10/03/08 22:13
Gamma-BHC	A	***ND***	0.011	0.10		µg/L	1	10/03/08 22:13
gamma-Chlordane	A	***ND***	10	10		µg/L	1	10/06/08 14:20
Heptachlor	A	***ND***	0.015	0.21		µg/L	1	10/03/08 22:13
Heptachlor Epoxide	A	***ND***	0.017	0.10		µg/L	1	10/03/08 22:13
Methoxychlor	A	***ND***	0.2	1.0		µg/L	1	10/03/08 22:13
Toxaphene	A	***ND***	0.69	2.1		µg/L	1	10/03/08 22:13
Aroclor 1016	A	***ND***	0.11	0.52		µg/L	1	10/03/08 22:13
Aroclor 1221	A	***ND***	0.52	0.52		µg/L	1	10/03/08 22:13
Aroclor 1232	A	***ND***	0.52	0.52		µg/L	1	10/03/08 22:13
Aroclor 1242	A	***ND***	0.1	0.52		µg/L	1	10/03/08 22:13
Aroclor 1248	A	***ND***	0.15	0.52		µg/L	1	10/03/08 22:13
Aroclor 1254	A	***ND***	0.18	0.52		µg/L	1	10/03/08 22:13
Aroclor 1260	A	***ND***	0.11	0.52		µg/L	1	10/03/08 22:13
Surr: Tetrachloro-m-xylene	S	95.0	0	45.2-114		%REC	1	10/03/08 22:13
Surr: Decachlorobiphenyl	S	95.0	0	11.6-136		%REC	1	10/03/08 22:13

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Aluminum	A	***ND***	4.3	200		µg/L	5	10/03/08 12:30
Antimony	A	***0.15***	0.038	6.0	J	µg/L	5	10/03/08 12:30
Arsenic	A	***1.2***	0.31	10	J	µg/L	5	10/03/08 12:30
Barium	A	***130***	0.058	2.0		µg/L	5	10/03/08 12:30
Beryllium	A	***ND***	0.96	1.0		µg/L	5	10/03/08 12:30
Cadmium	A	***0.0067***	0.0044	2.0	J	µg/L	5	10/03/08 12:30

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**								
Calcium	A	***88000***	18	500	b	µg/L	5	10/03/08 12:30
Chromium	A	***4.4***	0.83	4.0		µg/L	5	10/03/08 12:30
Cobalt	A	***0.22***	0.0019	3.0	J	µg/L	5	10/03/08 12:30
Copper	A	***1.7***	0.088	10	J	µg/L	5	10/03/08 12:30
Iron	A	***2400***	21	50		µg/L	5	10/03/08 12:30
Lead	A	***0.29***	0.12	7.5	J	µg/L	5	10/03/08 12:30
Magnesium	A	***43000***	1.7	500		µg/L	5	10/03/08 12:30
Manganese	A	***33***	0.074	2.0		µg/L	5	10/03/08 12:30
Nickel	A	***ND***	0.031	10		µg/L	5	10/03/08 12:30
Potassium	A	***2200***	4	500		µg/L	5	10/03/08 12:30
Selenium	A	***ND***	0.043	5.0		µg/L	5	10/03/08 12:30
Silver	A	***ND***	0.0025	10		µg/L	5	10/03/08 12:30
Sodium	A	***21000***	4.5	500		µg/L	5	10/03/08 12:30
Thallium	A	***3.4***	0.0065	2.0		µg/L	5	10/03/08 12:30
Vanadium	A	***ND***	1.1	8.0		µg/L	5	10/03/08 12:30
Zinc	A	***25***	3.8	20		µg/L	5	10/03/08 12:30
TOTAL METALS Method: **SW7470A** Prep Date/Time: **10/06/08 08:05** Analyst: **SAA**								
Mercury	A	***ND***	0.03	0.20		µg/L	1	10/06/08 11:01
SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**								
4-Bromophenyl phenyl ether	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Bis(2-ethylhexyl)phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 04:00
Acenaphthene	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00
Acenaphthylene	A	***ND***	0.71	10		µg/L	1	10/04/08 04:00
Anthracene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Benzo[a]anthracene	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00
Benzo[a]pyrene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Benzo[b]fluoranthene	A	***ND***	1.6	10		µg/L	1	10/04/08 04:00
Benzo[g,h,i]perylene	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Benzo[k]fluoranthene	A	***ND***	2.2	10		µg/L	1	10/04/08 04:00
Bis(2-chloroethoxy)methane	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Bis(2-chloroethyl)ether	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
2,2´-oxybis(1-chloropropane)	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Butyl benzyl phthalate	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Carbazole	A	***ND***	1.2	10		µg/L	1	10/04/08 04:00
4-Chloro-3-methylphenol	A	***ND***	1.2	20		µg/L	1	10/04/08 04:00
4-Chloroaniline	A	***ND***	1	20		µg/L	1	10/04/08 04:00

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
2-Chlorophenol	A	***ND***	0.71	10		µg/L	1	10/04/08 04:00
4-Chlorophenyl phenyl ether	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Chrysene	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Dibenz[a,h]anthracene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Dibenzofuran	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00
3,3´-Dichlorobenzidine	A	***ND***	0.71	51		µg/L	1	10/04/08 04:00
2,4-Dichlorophenol	A	***ND***	0.71	10		µg/L	1	10/04/08 04:00
Diethyl phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 04:00
Dimethyl phthalate	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
2,4-Dimethylphenol	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00
Di-n-butyl phthalate	A	***ND***	1.2	10		µg/L	1	10/04/08 04:00
Di-n-octyl phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 04:00
4,6-Dinitro-2-methylphenol	A	***ND***	1.1	51		µg/L	1	10/04/08 04:00
2,4-Dinitrophenol	A	***ND***	9.5	51		µg/L	1	10/04/08 04:00
2,4-Dinitrotoluene	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00
2,6-Dinitrotoluene	A	***ND***	1.1	10		µg/L	1	10/04/08 04:00
Fluoranthene	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Fluorene	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Hexachlorobenzene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Hexachlorobutadiene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Hexachlorocyclopentadiene	A	***ND***	0.61	10		µg/L	1	10/04/08 04:00
Hexachloroethane	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Indeno[1,2,3cd]pyrene	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Isophorone	A	***ND***	1	10		µg/L	1	10/04/08 04:00
2-Methylnaphthalene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
2-Methylphenol	A	***ND***	0.71	10		µg/L	1	10/04/08 04:00
3/4-Methylphenol	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00
2-Nitroaniline	A	***ND***	1	51		µg/L	1	10/04/08 04:00
3-Nitroaniline	A	***ND***	1.3	51		µg/L	1	10/04/08 04:00
4-Nitroaniline	A	***ND***	1.7	51		µg/L	1	10/04/08 04:00
2-Nitrophenol	A	***ND***	1	10		µg/L	1	10/04/08 04:00
4-Nitrophenol	A	***ND***	4.3	51		µg/L	1	10/04/08 04:00
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg/L	1	10/04/08 04:00
N-Nitrosodiphenylamine	A	***ND***	0.71	10		µg/L	1	10/04/08 04:00
Naphthalene	A	***ND***	0.71	10		µg/L	1	10/04/08 04:00
Nitrobenzene	A	***ND***	1	10		µg/L	1	10/04/08 04:00
Pentachlorophenol	A	***ND***	1.3	51		µg/L	1	10/04/08 04:00
Phenanthrene	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	***2.6***	0.4	10	J	µg/L	1	10/04/08 04:00
Pyrene	A	***1.3***	0.91	10	J	µg/L	1	10/04/08 04:00
2,4,5-Trichlorophenol	A	***ND***	1.5	10		µg/L	1	10/04/08 04:00
2,4,6-Trichlorophenol	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00
Surr: Nitrobenzene-d5	S	53.0	0	10-121		%REC	1	10/04/08 04:00
Surr: 2-Fluorobiphenyl	S	59.2	0	10-109		%REC	1	10/04/08 04:00
Surr: Terphenyl-d14	S	53.5	0	10-130		%REC	1	10/04/08 04:00
Surr: Phenol-d5	S	22.0	0	10-100		%REC	1	10/04/08 04:00
Surr: 2-Fluorophenol	S	32.9	0	10-84.7		%REC	1	10/04/08 04:00
Surr: 2,4,6-Tribromophenol	S	61.4	0	10-120		%REC	1	10/04/08 04:00

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	***ND***	2	5.0		µg/L	1	10/02/08 02:07
Benzene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
Bromodichloromethane	A	***ND***	0.5	1.0		µg/L	1	10/02/08 02:07
Bromoform	A	***ND***	0.4	1.0		µg/L	1	10/02/08 02:07
Bromomethane	A	***ND***	0.6	2.0		µg/L	1	10/02/08 02:07
2-Butanone	A	***ND***	1.5	2.0		µg/L	1	10/02/08 02:07
Carbon Disulfide	A	***ND***	0.4	2.0		µg/L	1	10/02/08 02:07
Carbon tetrachloride	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
Chlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 02:07
Chloroethane	A	***ND***	0.8	2.0		µg/L	1	10/02/08 02:07
Chloroform	A	***ND***	0.7	1.0		µg/L	1	10/02/08 02:07
Chloromethane	A	***ND***	0.3	2.0		µg/L	1	10/02/08 02:07
Dibromochloromethane	A	***ND***	0.6	1.0		µg/L	1	10/02/08 02:07
1,1-Dichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
1,2-Dichloroethane	A	***ND***	0.4	1.0		µg/L	1	10/02/08 02:07
1,1-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 02:07
cis-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 02:07
trans-1,2-Dichloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 02:07
1,2-Dichloropropane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
trans-1,3-Dichloropropene	A	***ND***	0.6	1.0		µg/L	1	10/02/08 02:07
cis-1,3-Dichloropropene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
Ethylbenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 02:07
2-Hexanone	A	***ND***	1.1	2.0		µg/L	1	10/02/08 02:07
4-Methyl-2-Pentanone	A	***ND***	0.8	1.0		µg/L	1	10/02/08 02:07
Methylene chloride	A	***ND***	0.7	2.0		µg/L	1	10/02/08 02:07
Styrene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 02:07

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**			Prep Date/Time:			Analyst: **MLT**
1,1,2,2-Tetrachloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 02:07
Tetrachloroethene	A	***ND***	0.4	1.0		µg/L	1	10/02/08 02:07
Toluene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
1,1,1-Trichloroethane	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
1,1,2-Trichloroethane	A	***ND***	0.7	1.0		µg/L	1	10/02/08 02:07
Trichloroethene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
Vinyl chloride	A	***ND***	0.4	2.0		µg/L	1	10/02/08 02:07
Total Xylenes	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
1,2,4-Trichlorobenzene	A	***ND***	0.3	1.0		µg/L	1	10/02/08 02:07
1,2-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 02:07
1,3-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 02:07
1,4-Dichlorobenzene	A	***ND***	0.2	1.0		µg/L	1	10/02/08 02:07
Surr: 4-Bromofluorobenzene	S	103	0	75.2-115		%REC	1	10/02/08 02:07
Surr: Dibromofluoromethane	S	103	0	92.7-119		%REC	1	10/02/08 02:07
Surr: 1,2-Dichloroethane-d4	S	122	0	88.2-132		%REC	1	10/02/08 02:07
Surr: Toluene-d8	S	109	0	89.3-116		%REC	1	10/02/08 02:07
TOTAL CYANIDE	Method:	**SW-9012B**			Prep Date/Time: **10/06/08 08:30**			Analyst: **RPL**
Cyanide, Total	A	***ND***	5	5.0		µg/L	1	10/06/08 15:46

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Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESDUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-02B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100316.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 9 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Alcohol	2.66	2.4	
	Unknown Alcohol	3.42	11.3	
	Substituted Furan	3.55	1.6	
	Unknown Alcohol	4.12	1.9	
	Unknown Alcohol	4.21	2.2	
	Unknown Alcohol	4.50	0.6	
	Unknown Acid	4.89	1.5	
	Unknown	5.40	0.6	
	Unknown Acid	9.32	0.7	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-03B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100317.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Amine	3.55	1.6	
	Unknown	6.39	4.9	
	Unknown	9.63	61.7	
	Unknown Phthalate	9.85	71.5	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWC-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-04B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100318.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituted Furan	3.55	2.2	
	Unknown	4.40	1.0	
	Unknown	5.52	0.5	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWT-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-05B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100319.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Amine	3.55	1.8	
	Unknown	4.40	1.7	
	Unknown	5.15	0.6	
	Unknown	9.16	1.6	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWD-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-06B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100322.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 5 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituteed Furan	3.55	1.1	
	Unknown	3.86	0.7	
	Unknown acid	4.09	1.3	
	Unknown	9.17	1.9	
	Unknown	12.35	1.0	

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESTB01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-01A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100127.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESDUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-02A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100131.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-03A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100132.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWC-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-04A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100133.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWT-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-05A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100128.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWD-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-06A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100134.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	N/A	=	Not Applicable			
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	=	Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	=	Nanograms per Liter (ppt)

U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL
D	=	Surrogate recoveries are not calculated due to sample dilution
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate

DF = Dilution Factor RL = Reporting Limit ST = Sample Type MDL = Method Detection Limit

SAMPLE TYPES

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)

Baltimore Division - Baltimore, MD
Camp Hill Division - Camp Hill, PA
Camp Hill Division (SC) - Pittston, PA
Chicagoland Division - Merrillville, IN
Chicagoland Division (SC) - Indianapolis, IN
Corona Division - Corona, CA
Erie Division - Erie, PA
Fayetteville Division - Fayetteville, NC
Hauser Division - Boulder, CO
Kentucky Division - Louisville, KY
Kentucky Division (Sat) - Evansville, IN
Kentucky Division (Sat) - Lexington, KY
Kentucky Division (Sat) - Paducah, KY
Knoxville Division - Maryville, TN
Massachusetts Division - Marlborough, MA
Microbac Corporate Office - Wexford, PA
Microbac NY - Cortland Office - Cortland, NY
Microbac NY - Waverly Office - Waverly, NY
New Castle Division - New Castle, PA
Pittsburgh Division - Warrendale, PA
Richmond Division - Richmond, VA
South Carolina Division - New Ellenton, SC
South Jersey Division - Turnersville, NJ
Southern Headquarters - Poquoson, VA
Southern Testing Division - Wilson, NC
Southern Testing Division (Sat) - Greensboro, NC
Venice Division - Venice, FL

Microbac®

COOLER INSPECTION

Date: Tuesday, October 07, 2008

Client Name: ***MWH, Inc.***

Date / Time Received: ***9/30/2008 10:25:00 AM***

Work Order Number ***ME0809C97***

Received by: KRS

Checklist completed by KRS | 9/30/2008 10:57:18 AM

Reviewed by RJM | 10/1/2008 2:12:53 PM

Carrier name: Microbac

After-Hour Arrival?	Yes ☐	No ☑	
Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody included sufficient client identification?	Yes ☑	No ☐	
Chain of custody included sufficient sample collector information?	Yes ☑	No ☐	
Chain of custody included a sample description?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Chain of custody identified the appropriate matrix?	Yes ☑	No ☐	
Chain of custody included date of collection?	Yes ☑	No ☐	
Chain of custody included time of collection?	Yes ☑	No ☐	
Chain of custody identified the appropriate number of containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
If samples are preserved, are the preservatives identified?	Yes ☑	No ☐	
Samples properly preserved?	Yes ☑	No ☐	

If No, adjusted by? _____ Date/Time _____

Chain of custody included the requested analyses?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Samples received on ice?	Yes ☑	No ☐

Container/Temp Blank temperatures	Cooler	Temp
	1	1 ºC

VOA vials for aqueous samples have zero headspace? No VOA vials submitted ☐ Yes ☑ No ☐

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

General Comments:

Sample ID	Client Sample ID	Comments
ME0809C97-01A	ACS-GW-RESTN01-32	
ME0809C97-02A	ACS-GW-RESDUP01-32	
ME0809C97-02B	ACS-GW-RESDUP01-32	
ME0809C97-02C	ACS-GW-RESDUP01-32	
ME0809C97-02D	ACS-GW-RESDUP01-32	
ME0809C97-03A	ACS-GW-PWB-32	
ME0809C97-03B	ACS-GW-PWB-32	
ME0809C97-03C	ACS-GW-PWB-32	
ME0809C97-03D	ACS-GW-PWB-32	
ME0809C97-04A	ACS-GW-PWC-32	
ME0809C97-04B	ACS-GW-PWC-32	
ME0809C97-04C	ACS-GW-PWC-32	

Sample ID	Client Sample ID	Comments
ME0809C97-04D	ACS-GW-PWC-32	
ME0809C97-05A	ACS-GW-PWT-32	
ME0809C97-05B	ACS-GW-PWT-32	
ME0809C97-05C	ACS-GW-PWT-32	
ME0809C97-05D	ACS-GW-PWT-32	
ME0809C97-06A	ACS-GW-PWD-32	
ME0809C97-06B	ACS-GW-PWD-32	
ME0809C97-06C	ACS-GW-PWD-32	
ME0809C97-06D	ACS-GW-PWD-32	

ME0809C97 MONT. WATSON-IL-CHICAG 10/7
GW - SemiAnnual / ACS
Justin Finger

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Microbac®

Samples Submitted to:
[X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 86612

Instructions on back

Client Name: MWM	Project: ACS RESIDENTIAL	Turnaround Time	Report Type
Address: 175 W. JACKSON BLVD, SUITE 1900	Location: GRIFFITH, IN	[ ] Routine (7 working days)	[ ] Results Only [ ] Level II
City, State, Zip: CHICAGO, IL 60604	PO #: 4050577.03010601	[X] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: JUSTIN FINGER	Compliance Monitoring? [X] Yes(1) [ ] No	10/6/08 (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #: (312) 831-3447	(1)Agency/Program: SUPERFUND		[ ] EDD

Sampled by (PRINT): JUSTIN FINGER Sampler Signature: [signature] Sampler Phone #: (312) 831-3447

Send Report via: [X] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address): JUSTIN.E.FINGER@MWHGLOBAL.COM

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses / Preservative Types **	VOCs (LOW)	SVOCs (LOW)	PEST/PCB (LOW)	METALS (LOW)	CYANIDE (LOW)				For Lab Use Only
																	G809C97
ACS-GW-RESTB01-32	GW	X			9/29/08	0900	1	3	X								01A
ACS-GW-RESDUP01-32	GW	X			9/29/08	1000	8	3,4,1,4	X	X	X	X	X				02A-D
ACS-GW-PWB-32	GW	X			9/29/08	1025	8	3,4,1,4	X	X	X	X	X				03
ACS-GW-PWC-32	GW	X			9/29/08	1130	8	3,4,1,4	X	X	X	X	X				04
ACS-GW-PWT-32 (MS/MSD)	GW	X			9/29/08	1230	24	3,4,1,4	X	X	X	X	X				05
ACS-GW-PWD-32	GW	X			9/29/08	1330	8	3,4,1,4	X	X	X	X	X				06

Possible Hazard Identification: [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition: [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
RUN SAMPLES ON LOW LEVEL MACHINE	[signature]	9/29/08 1500	[signature]	9/30/08 1000
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Sample temperature upon receipt in degrees C = 1	Relinquished By (signature) [signature]	Date/Time 9/30/08 1025	Received for Lab By (signature) [signature]	Date/Time 9/30/08 1025

rev. 11/04/04

Page 1 of 1

Microbac Laboratories, Inc.

Date: *09-Oct-08*

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65956

Sample ID: **PB1003** SampType: **MBLK** TestCode: **CN_TEPA** Units: **mg/L** Prep Date: **10/3/2008 9:55:00 AM** Run ID: **LACHAT-2_081003C**
Client ID: **ZZZZZ** Batch ID: **65956** TestNo: **4500-CN E_1** Analysis Date: **10/3/2008 3:23:51 PM** SeqNo: **1900342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0	0.0050									

Sample ID: **ICV** SampType: **ICV** TestCode: **CN_TEPA** Units: **mg/L** Prep Date: Run ID: **LACHAT-2_081003C**
Client ID: **ZZZZZ** Batch ID: **65956** TestNo: **4500-CN E_1** Analysis Date: **10/3/2008 3:20:56 PM** SeqNo: **1900340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
nide, Total	0.1017	0.0050	0.1	0	102	85	115	0	0		

mple ID: **ICB** SampType: **ICB** TestCode: **CN_TEPA** Units: **mg/L** Prep Date: Run ID: **LACHAT-2_081003C**
ent ID: **ZZZZZ** Batch ID: **65956** TestNo: **4500-CN E_1** Analysis Date: **10/3/2008 3:22:24 PM** SeqNo: **1900341**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
nide, Total	0	0.0050	0.005	0	0	-100	100	0	0		

mple ID: **LCS1003** SampType: **LCS** TestCode: **CN_TW** Units: **mg/L** Prep Date: **10/3/2008 9:55:00 AM** Run ID: **LACHAT-2_081003C**
ent ID: **ZZZZZ** Batch ID: **65956** TestNo: **SW-9012B** Analysis Date: **10/3/2008 3:45:51 PM** SeqNo: **1900364**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.1924	0.0050	0.2	0	96.2	90	110	0	0		

Sample ID: **ME0809C97-05DMS** SampType: **MS** TestCode: **CN_TW** Units: **mg/L** Prep Date: **10/3/2008 9:55:00 AM** Run ID: **LACHAT-2_081003C**
Client ID: **ACS-GW-PWT-32** Batch ID: **65956** TestNo: **SW-9012B** Analysis Date: **10/3/2008 3:48:46 PM** SeqNo: **1900366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.1889	0.0050	0.2	0	94.4	64.9	138	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
H - Analyte was prepared and/or analyzed outside of the analytical method holding time
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
b - Analyte detected below reporting limit in the Method Blank

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65956

Sample ID: **ME0809C97-05DMS** SampType: **MSD** TestCode: **CN_TW** Units: **mg/L** Prep Date: **10/3/2008 9:55:00 AM** Run ID: **LACHAT-2_081003C**
Client ID: **ACS-GW-PWT-32** Batch ID: **65956** TestNo: **SW-9012B** Analysis Date: **10/3/2008 3:50:13 PM** SeqNo: **1900367**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.1893	0.0050	0.2	0	94.7	64.9	138	0.1889	0.237	20	

Sample ID: **CCB** SampType: **CCB** TestCode: **CN_TW** Units: **mg/L** Prep Date: Run ID: **LACHAT-2_081003C**
Client ID: **ZZZZZ** Batch ID: **65956** TestNo: **SW-9012B** Analysis Date: **10/3/2008 3:39:26 PM** SeqNo: **1900353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	ND	0.0050	0.005	0	0	-100	100	0	0		

nple ID: **CCB** SampType: **CCB** TestCode: **CN_TW** Units: **mg/L** Prep Date: Run ID: **LACHAT-2_081003C**
ent ID: **ZZZZZ** Batch ID: **65956** TestNo: **SW-9012B** Analysis Date: **10/3/2008 4:00:12 PM** SeqNo: **1900374**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
nide, Total	ND	0.0050	0.005	0	0	-100	100	0	0		

nple ID: **CCV** SampType: **CCV** TestCode: **CN_TW** Units: **mg/L** Prep Date: Run ID: **LACHAT-2_081003C**
ent ID: **ZZZZZ** Batch ID: **65956** TestNo: **SW-9012B** Analysis Date: **10/3/2008 3:38:03 PM** SeqNo: **1900352**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.2008	0.0050	0.2	0	100	85	115	0	0		

Sample ID: **CCV** SampType: **CCV** TestCode: **CN_TW** Units: **mg/L** Prep Date: Run ID: **LACHAT-2_081003C**
Client ID: **ZZZZZ** Batch ID: **65956** TestNo: **SW-9012B** Analysis Date: **10/3/2008 3:58:48 PM** SeqNo: **1900373**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	0.2004	0.0050	0.2	0	100	85	115	0	0		

Qualifiers:
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Microbac Laboratories, Inc.

Date: *09-Oct-08*

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **MB081001-6** SampType: **MBLK** TestCode: **6020W** Units: **mg/L** Prep Date: **10/1/2008 7:20:00 AM** Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 11:42:00 AM** SeqNo: **1900170**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.20									
Antimony	0.0001422	0.0060									J
Arsenic	0.000325	0.010									J
Barium	0.00007475	0.0020									J
Beryllium	ND	0.0010									
Cadmium	0.0000128	0.0020									J
ium	0.1519	0.50									J
omium	0.003856	0.0040									J
alt	ND	0.0030									
per	ND	0.010									
	ND	0.050									
d	ND	0.0075									
nesium	0.007973	0.50									J
ganese	0.0002171	0.0020									J
el	ND	0.010									
ssium	ND	0.50									
nium	ND	0.0050									
Silver	ND	0.010									
Sodium	0.006922	0.50									J
Thallium	ND	0.0020									
Vanadium	ND	0.0080									
Zinc	ND	0.020									

Sample ID: **LCS081001-6** SampType: **LCS** TestCode: **6020W** Units: **mg/L** Prep Date: **10/1/2008 7:20:00 AM** Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 11:48:00 AM** SeqNo: **1900171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2.038	0.20	2	0	102	85	115	0	0		
Antimony	2.054	0.0060	2	0	103	85	115	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **LCS081001-6** SampType: **LCS** TestCode: **6020W** Units: **mg/L** Prep Date: **10/1/2008 7:20:00 AM** Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 11:48:00 AM** SeqNo: **1900171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.02	0.010	2	0	101	85	115	0	0		
Barium	2.159	0.0020	2.2	0	98.1	85	115	0	0		
Beryllium	0.2087	0.0010	0.2	0	104	85	115	0	0		
Cadmium	0.2053	0.0020	0.2	0	103	85	115	0	0		
Calcium	21.02	0.50	20	0	105	85	115	0	0		b
Chromium	2.112	0.0040	2	0	106	85	115	0	0		
Cobalt	0.2068	0.0030	0.2	0	103	85	115	0	0		
per	0.194	0.010	0.2	0	97	85	115	0	0		
	2.193	0.050	2	0	110	85	115	0	0		
d	1.834	0.0075	2	0	91.7	85	115	0	0		
nesium	20.19	0.50	20	0	101	85	115	0	0		
ganese	0.2062	0.0020	0.2	0	103	85	115	0	0		
el	2.006	0.010	2	0	100	85	115	0	0		
ssium	19.88	0.50	20	0	99.4	85	115	0	0		
nium	2.016	0.0050	2	0	101	85	115	0	0		
er	0.1896	0.010	0.2	0	94.8	85	115	0	0		
ium	20.57	0.50	20	0	103	85	115	0	0		
llium	1.916	0.0020	2	0	95.8	85	115	0	0		
Vanadium	2.07	0.0080	2	0	103	85	115	0	0		
Zinc	1.909	0.020	2	0	95.5	85	115	0	0		

Sample ID: **ME0809c97-05CMS** SampType: **MS** TestCode: **6020W** Units: **mg/L** Prep Date: **10/1/2008 7:20:00 AM** Run ID: **ICPMS-1_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 12:18:00 PM** SeqNo: **1900176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2.029	0.20	2	0	101	70	130	0	0		
Antimony	2.053	0.0060	2	0	103	70	130	0	0		
Arsenic	2.043	0.010	2	0	102	70	130	0	0		
Barium	2.245	0.0020	2.2	0.1444	95.5	70	130	0	0		
Beryllium	0.2047	0.0010	0.2	0	102	70	130	0	0		
Cadmium	0.1995	0.0020	0.2	0	99.7	70	130	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **ME0809c97-05CMS** SampType: **MS** TestCode: **6020W** Units: **mg/L** Prep Date: **10/1/2008 7:20:00 AM** Run ID: **ICPMS-1_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 12:18:00 PM** SeqNo: **1900176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	109.8	0.50	20	85.69	120	70	130	0	0		b
Chromium	2.161	0.0040	2	0	108	70	130	0	0		
Cobalt	0.2064	0.0030	0.2	0	103	70	130	0	0		
Copper	0.1946	0.010	0.2	0	97.3	70	130	0	0		
Iron	4.655	0.050	2	2.385	113	70	130	0	0		
Lead	1.761	0.0075	2	0	88	70	130	0	0		
Magnesium	72.26	0.50	20	48.33	120	70	130	0	0		
ganese	0.2504	0.0020	0.2	0.03569	107	70	130	0	0		
el	1.932	0.010	2	0	96.6	70	130	0	0		
ssium	23.46	0.50	20	2.379	105	70	130	0	0		
nium	2.055	0.0050	2	0	103	70	130	0	0		
er	0.184	0.010	0.2	0	92	70	130	0	0		
ium	38.61	0.50	20	18.46	101	70	130	0	0		
llium	1.817	0.0020	2	0	90.8	70	130	0	0		
adium	2.005	0.0080	2	0	100	70	130	0	0		
	1.879	0.020	2	0	94	70	130	0	0		

nple ID: **ME0809c97-05CMS** SampType: **MSD** TestCode: **6020W** Units: **mg/L** Prep Date: **10/1/2008 7:20:00 AM** Run ID: **ICPMS-1_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 12:24:00 PM** SeqNo: **1900177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.967	0.20	2	0	98.4	70	130	2.029	3.11	20	
Antimony	2.172	0.0060	2	0	109	70	130	2.053	5.61	20	
Arsenic	2.03	0.010	2	0	101	70	130	2.043	0.638	20	
Barium	2.289	0.0020	2.2	0.1444	97.5	70	130	2.245	1.93	20	
Beryllium	0.1951	0.0010	0.2	0	97.5	70	130	0.2047	4.84	20	
Cadmium	0.2042	0.0020	0.2	0	102	70	130	0.1995	2.33	20	
Calcium	110.5	0.50	20	85.69	124	70	130	109.8	0.636	20	b
Chromium	2.048	0.0040	2	0	102	70	130	2.161	5.38	20	
Cobalt	0.2029	0.0030	0.2	0	101	70	130	0.2064	1.75	20	
Copper	0.1948	0.010	0.2	0	97.4	70	130	0.1946	0.122	20	

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **ME0809c97-05CMS** SampType: **MSD** TestCode: **6020W** Units: **mg/L** Prep Date: **10/1/2008 7:20:00 AM** Run ID: **ICPMS-1_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 12:24:00 PM** SeqNo: **1900177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	4.848	0.050	2	2.385	123	70	130	4.655	4.07	20	
Lead	1.792	0.0075	2	0	89.6	70	130	1.761	1.73	20	
Magnesium	69.71	0.50	20	48.33	107	70	130	72.26	3.60	20	
Manganese	0.2437	0.0020	0.2	0.03569	104	70	130	0.2504	2.72	20	
Nickel	1.926	0.010	2	0	96.3	70	130	1.932	0.306	20	
Potassium	22.53	0.50	20	2.379	101	70	130	23.46	4.05	20	
Selenium	1.995	0.0050	2	0	99.7	70	130	2.055	2.99	20	
er	0.1872	0.010	0.2	0	93.6	70	130	0.184	1.74	20	
ium	40.37	0.50	20	18.46	110	70	130	38.61	4.45	20	
llium	1.898	0.0020	2	0	94.9	70	130	1.817	4.37	20	
adium	2.1	0.0080	2	0	105	70	130	2.005	4.61	20	
:	1.916	0.020	2	0	95.8	70	130	1.879	1.91	20	

nple ID: **ICV** SampType: **ICV** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
ent ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 10:47:00 AM** SeqNo: **1900164**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ninum	0.02475	0.20	0.025	0	99	90	110	0	0		J
Antimony	0.02538	0.0060	0.025	0	102	90	110	0	0		
Arsenic	0.02516	0.010	0.025	0	101	90	110	0	0		
Barium	0.02456	0.0020	0.025	0	98.2	90	110	0	0		
Beryllium	0.0249	0.0010	0.025	0	99.6	90	110	0	0		
Cadmium	0.02387	0.0020	0.025	0	95.5	90	110	0	0		
Calcium	1.983	0.50	2.025	0	97.9	90	110	0	0		
Chromium	0.02701	0.0030	0.025	0	108	90	110	0	0		
Cobalt	0.02674	0.0030	0.025	0	107	90	110	0	0		
Copper	0.02569	0.010	0.025	0	103	90	110	0	0		
Iron	1.935	0.050	2.025	0	95.5	90	110	0	0		
Lead	0.02358	0.0075	0.025	0	94.3	90	110	0	0		
Magnesium	2.057	0.50	2.025	0	102	90	110	0	0		
Manganese	0.02707	0.0020	0.025	0	108	90	110	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **ICV** SampType: **ICV** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 10:47:00 AM** SeqNo: **1900164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	0.02445	0.010	0.025	0	97.8	90	110	0	0		
Potassium	2.037	0.50	2.025	0	101	90	110	0	0		
Selenium	0.02508	0.0050	0.025	0	100	90	110	0	0		
Silver	0.02348	0.010	0.025	0	93.9	90	110	0	0		
Sodium	1.93	0.50	2.025	0	95.3	90	110	0	0		
Thallium	0.02569	0.0020	0.025	0	103	90	110	0	0		
Vanadium	0.02553	0.0080	0.025	0	102	90	110	0	0		
	0.0252	0.020	0.025	0	101	90	110	0	0		

nple ID: **CCB** SampType: **CCB** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
ent ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 11:20:00 AM** SeqNo: **1900169**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ninum	ND	0.20	0	0	0	0	0	0	0		
mony	0.0002094	0.0060	0	0	0	0	0	0	0		J
enic	ND	0.010	0	0	0	0	0	0	0		
um	ND	0.0020	0	0	0	0	0	0	0		
llium	ND	0.0010	0	0	0	0	0	0	0		
Cadmium	ND	0.0020	0	0	0	0	0	0	0		
Calcium	0.02293	0.50	0	0	0	0	0	0	0		J
Chromium	ND	0.0030	0	0	0	0	0	0	0		
Cobalt	ND	0.0030	0	0	0	0	0	0	0		
Copper	ND	0.010	0	0	0	0	0	0	0		
Iron	ND	0.050	0	0	0	0	0	0	0		
Lead	ND	0.0075	0	0	0	0	0	0	0		
Magnesium	ND	0.50	0	0	0	0	0	0	0		
Manganese	0.00007573	0.0020	0	0	0	0	0	0	0		J
Nickel	ND	0.010	0	0	0	0	0	0	0		
Potassium	ND	0.50	0	0	0	0	0	0	0		
Selenium	ND	0.0050	0	0	0	0	0	0	0		
Silver	ND	0.010	0	0	0	0	0	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **CCB** SampType: **CCB** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 11:20:00 AM** SeqNo: **1900169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	0.50	0	0	0	0	0	0	0		
Thallium	0.00001055	0.0020	0	0	0	0	0	0	0		J
Vanadium	ND	0.0080	0	0	0	0	0	0	0		
Zinc	ND	0.020	0	0	0	0	0	0	0		

Sample ID: **CCB** SampType: **CCB** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 1:06:00 PM** SeqNo: **1900182**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ninum	ND	0.20	0	0	0	0	0	0	0		
mony	0.0002154	0.0060	0	0	0	0	0	0	0		J
enic	ND	0.010	0	0	0	0	0	0	0		
um	ND	0.0020	0	0	0	0	0	0	0		
llium	ND	0.0010	0	0	0	0	0	0	0		
mium	ND	0.0020	0	0	0	0	0	0	0		
ium	0.02239	0.50	0	0	0	0	0	0	0		J
omium	ND	0.0030	0	0	0	0	0	0	0		
alt	ND	0.0030	0	0	0	0	0	0	0		
Copper	ND	0.010	0	0	0	0	0	0	0		
Iron	ND	0.050	0	0	0	0	0	0	0		
Lead	ND	0.0075	0	0	0	0	0	0	0		
Magnesium	ND	0.50	0	0	0	0	0	0	0		
Manganese	ND	0.0020	0	0	0	0	0	0	0		
Nickel	ND	0.010	0	0	0	0	0	0	0		
Potassium	ND	0.50	0	0	0	0	0	0	0		
Selenium	ND	0.0050	0	0	0	0	0	0	0		
Silver	ND	0.010	0	0	0	0	0	0	0		
Sodium	ND	0.50	0	0	0	0	0	0	0		
Thallium	0.00007558	0.0020	0	0	0	0	0	0	0		J
Vanadium	ND	0.0080	0	0	0	0	0	0	0		
Zinc	ND	0.020	0	0	0	0	0	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **CCV** SampType: **CCV** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 11:14:00 AM** SeqNo: **1900168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.05224	0.20	0.05	0	104	90	110	0	0		J
Antimony	0.05077	0.0060	0.05	0	102	90	110	0	0		
Arsenic	0.04934	0.010	0.05	0	98.7	90	110	0	0		
Barium	0.04952	0.0020	0.05	0	99	90	110	0	0		
Beryllium	0.05381	0.0010	0.05	0	108	90	110	0	0		
Cadmium	0.04902	0.0020	0.05	0	98	90	110	0	0		
Calcium	4.11	0.50	4.05	0	101	90	110	0	0		
[illegible]mium	0.05353	0.0030	0.05	0	107	90	110	0	0		
[illegible]alt	0.05386	0.0030	0.05	0	108	90	110	0	0		
[illegible]per	0.04987	0.010	0.05	0	99.7	90	110	0	0		
[illegible]	3.937	0.050	4.05	0	97.2	90	110	0	0		
[illegible]	0.05065	0.0075	0.05	0	101	90	110	0	0		
[illegible]nesium	4.117	0.50	4.05	0	102	90	110	0	0		
[illegible]ganese	0.05288	0.0020	0.05	0	106	90	110	0	0		
[illegible]el	0.04999	0.010	0.05	0	100	90	110	0	0		
[illegible]ssium	4.066	0.50	4.05	0	100	90	110	0	0		
[illegible]nium	0.04944	0.0050	0.05	0	98.9	90	110	0	0		
[illegible]r	0.04712	0.010	0.05	0	94.2	90	110	0	0		
Sodium	4.086	0.50	4.05	0	101	90	110	0	0		
Thallium	0.05468	0.0020	0.05	0	109	90	110	0	0		
Vanadium	0.05055	0.0080	0.05	0	101	90	110	0	0		
Zinc	0.04944	0.020	0.05	0	98.9	90	110	0	0		

Sample ID: **CCV** SampType: **CCV** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 12:59:00 PM** SeqNo: **1900181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.05009	0.20	0.05	0	100	90	110	0	0		J
Antimony	0.05002	0.0060	0.05	0	100	90	110	0	0		
Arsenic	0.05041	0.010	0.05	0	101	90	110	0	0		
Barium	0.05147	0.0020	0.05	0	103	90	110	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: CCV | SampType: CCV | TestCode: 6020W | Units: mg/L | Prep Date: | Run ID: ICPMS-1_081003A
Client ID: ZZZZZ | Batch ID: 65865 | TestNo: SW6020A | Analysis Date: 10/3/2008 12:59:00 PM | SeqNo: 1900181

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.04751	0.0010	0.05	0	95	90	110	0	0		
Cadmium	0.04961	0.0020	0.05	0	99.2	90	110	0	0		
Calcium	4.131	0.50	4.05	0	102	90	110	0	0		
Chromium	0.05437	0.0030	0.05	0	109	90	110	0	0		
Cobalt	0.05367	0.0030	0.05	0	107	90	110	0	0		
Copper	0.05053	0.010	0.05	0	101	90	110	0	0		
Iron	4.139	0.050	4.05	0	102	90	110	0	0		
d	0.04858	0.0075	0.05	0	97.2	90	110	0	0		
nesium	4.062	0.50	4.05	0	100	90	110	0	0		
ganese	0.05317	0.0020	0.05	0	106	90	110	0	0		
el	0.04982	0.010	0.05	0	99.6	90	110	0	0		
ssium	4.12	0.50	4.05	0	102	90	110	0	0		
nium	0.05101	0.0050	0.05	0	102	90	110	0	0		
er	0.04643	0.010	0.05	0	92.9	90	110	0	0		
ium	3.819	0.50	4.05	0	94.3	90	110	0	0		
llium	0.05198	0.0020	0.05	0	104	90	110	0	0		
adium	0.04928	0.0080	0.05	0	98.6	90	110	0	0		
	0.04948	0.020	0.05	0	99	90	110	0	0		

Sample ID: ICB | SampType: ICB | TestCode: 6020W | Units: mg/L | Prep Date: | Run ID: ICPMS-1_081003A
Client ID: ZZZZZ | Batch ID: 65865 | TestNo: SW6020A | Analysis Date: 10/3/2008 10:53:00 AM | SeqNo: 1900165

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.20	0	0	0	0	0	0	0		
Antimony	0.0001472	0.0060	0	0	0	0	0	0	0		J
Arsenic	ND	0.010	0	0	0	0	0	0	0		
Barium	ND	0.0020	0	0	0	0	0	0	0		
Beryllium	ND	0.0010	0	0	0	0	0	0	0		
Cadmium	0.00000521	0.0020	0	0	0	0	0	0	0		J
Calcium	ND	0.50	0	0	0	0	0	0	0		
Chromium	ND	0.0030	0	0	0	0	0	0	0		

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b - Analyte detected below reporting limit in the Method Blank

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65865

Sample ID: **ICB** SampType: **ICB** TestCode: **6020W** Units: **mg/L** Prep Date: Run ID: **ICPMS-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65865** TestNo: **SW6020A** Analysis Date: **10/3/2008 10:53:00 AM** SeqNo: **1900165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cobalt	ND	0.0030	0	0	0	0	0	0	0		
Copper	ND	0.010	0	0	0	0	0	0	0		
Iron	ND	0.050	0	0	0	0	0	0	0		
Lead	ND	0.0075	0	0	0	0	0	0	0		
Magnesium	ND	0.50	0	0	0	0	0	0	0		
Manganese	ND	0.0020	0	0	0	0	0	0	0		
Nickel	ND	0.010	0	0	0	0	0	0	0		
assium	ND	0.50	0	0	0	0	0	0	0		
enium	ND	0.0050	0	0	0	0	0	0	0		
er	ND	0.010	0	0	0	0	0	0	0		
lium	ND	0.50	0	0	0	0	0	0	0		
llium	0.00000707	0.0020	0	0	0	0	0	0	0		J
adium	ND	0.0080	0	0	0	0	0	0	0		
	ND	0.020	0	0	0	0	0	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66005

Sample ID: **ME0809C97-05CMS** SampType: **MS** TestCode: **HG_W** Units: **mg/L** Prep Date: **10/6/2008 8:05:00 AM** Run ID: **CVAA_081006A**
Client ID: **ACS-GW-PWT-32** Batch ID: **66005** TestNo: **SW7470A** Analysis Date: **10/6/2008 10:59:00 AM** SeqNo: **1901223**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00184	0.00020	0.002	0	92	75	125	0	0		

Sample ID: **ME0809C97-05CMS** SampType: **MSD** TestCode: **HG_W** Units: **mg/L** Prep Date: **10/6/2008 8:05:00 AM** Run ID: **CVAA_081006A**
Client ID: **ACS-GW-PWT-32** Batch ID: **66005** TestNo: **SW7470A** Analysis Date: **10/6/2008 11:00:00 AM** SeqNo: **1901224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00188	0.00020	0.002	0	94	75	125	0.00184	2.15	20	

mple ID: **ICV** SampType: **ICV** TestCode: **HG_W** Units: **mg/L** Prep Date: Run ID: **CVAA_081006A**
ent ID: **ZZZZZ** Batch ID: **66005** TestNo: **SW7470A** Analysis Date: **10/6/2008 10:47:00 AM** SeqNo: **1901215**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
rcury	0.000909	0.00020	0.001	0	90.9	90	110	0	0		

mple ID: **ICB** SampType: **ICB** TestCode: **HG_W** Units: **mg/L** Prep Date: Run ID: **CVAA_081006A**
ent ID: **ZZZZZ** Batch ID: **66005** TestNo: **SW7470A** Analysis Date: **10/6/2008 10:49:00 AM** SeqNo: **1901216**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0	0	0	0	0	0	0		

Sample ID: **MB081006-3** SampType: **MBLK** TestCode: **Hg_WW** Units: **mg/L** Prep Date: **10/6/2008 8:05:00 AM** Run ID: **CVAA_081006A**
Client ID: **ZZZZZ** Batch ID: **66005** TestNo: **E245.1r3.0** Analysis Date: **10/6/2008 10:50:00 AM** SeqNo: **1901217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0	0.00020									

Sample ID: **LCS081006-3** SampType: **LCS** TestCode: **Hg_WW** Units: **mg/L** Prep Date: **10/6/2008 8:05:00 AM** Run ID: **CVAA_081006A**
Client ID: **ZZZZZ** Batch ID: **66005** TestNo: **E245.1r3.0** Analysis Date: **10/6/2008 10:52:00 AM** SeqNo: **1901218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00179	0.00020	0.002	0	89.5	80	120	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66005

Sample ID: **CCB** SampType: **CCB** TestCode: **Hg_WW** Units: **mg/L** Prep Date: Run ID: **CVAA_081006A**
Client ID: **ZZZZZ** Batch ID: **66005** TestNo: **E245.1r3.0** Analysis Date: **10/6/2008 11:06:00 AM** SeqNo: **1901228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0	0.00020	0	0	0			0	0		

Sample ID: **CCV** SampType: **CCV** TestCode: **Hg_WW** Units: **mg/L** Prep Date: Run ID: **CVAA_081006A**
Client ID: **ZZZZZ** Batch ID: **66005** TestNo: **E245.1r3.0** Analysis Date: **10/6/2008 11:04:00 AM** SeqNo: **1901227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00509	0.00020	0.005	0	102	80	120	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65988

Sample ID: **bk-4-100308** SampType: **mblk** TestCode: **8081-82_w** Units: **µg/L** Prep Date: **10/3/2008 1:30:00 PM** Run ID: **ECD-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65988** TestNo: **SW8081A/808** Analysis Date: **10/3/2008 5:47:00 PM** SeqNo: **1900918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	0	1.0									
4,4'-DDE	0	1.0									
4,4'-DDT	0	1.0									
Aldrin	0	0.050									
Alpha-BHC	0	0.050									
Beta-BHC	0	0.20									
delta-BHC	0.15	1.0									J
drin	0	0.050									
osulfan I	0	1.0									
osulfan II	0	1.0									
osulfan Sulfate	0	1.0									
rin	0	1.0									
rin Aldehyde	0.05	1.0									J
rin Ketone	0	1.0									
nma-BHC	0	0.10									
tachlor	0	0.20									
tachlor Epoxide	0	0.10									
hoxychlor	0	1.0									
Toxaphene	0	2.0									
Aroclor 1016	0	0.50									
Aroclor 1221	0	0.50									
Aroclor 1232	0	0.50									
Aroclor 1242	0	0.50									
Aroclor 1248	0	0.50									
Aroclor 1254	0	0.50									
Aroclor 1260	0	0.50									
Surr: Tetrachloro-m-xylene	0.19	0	0.2	0	95	45.2	114	0	0		
Surr: Decachlorobiphenyl	0.19	0	0.2	0	95	11.6	136	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65988

Sample ID: **Ics-4a-100308** SampType: **Ics** TestCode: **8081-82_w** Units: **µg/L** Prep Date: **10/3/2008 1:30:00 PM** Run ID: **ECD-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65988** TestNo: **SW8081A/808** Analysis Date: **10/3/2008 6:11:00 PM** SeqNo: **1900919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	5.264	0.50	5	0	105	59.1	127	0	0		
Aroclor 1260	5.16	0.50	5	0	103	62.9	117	0	0		
Surr: Tetrachloro-m-xylene	0.18	0	0.2	0	90	45.2	114	0	0		
Surr: Decachlorobiphenyl	0.21	0	0.2	0	105	11.6	136	0	0		

Sample ID: **Ics-4b-100308** SampType: **Ics** TestCode: **8081-82_w** Units: **µg/L** Prep Date: **10/3/2008 1:30:00 PM** Run ID: **ECD-1_081003A**
Client ID: **ZZZZZ** Batch ID: **65988** TestNo: **SW8081A/808** Analysis Date: **10/3/2008 6:35:00 PM** SeqNo: **1900920**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
-DDD	0.41	1.0	0.5	0	82	52.5	109	0	0		J
-DDE	0.4	1.0	0.5	0	80	46.3	111	0	0		J
-DDT	0.43	1.0	0.5	0	86	34.3	117	0	0		J
in	0.39	0.050	0.5	0	78	22.4	110	0	0		
ıa-BHC	0.36	0.050	0.5	0	72	31.5	134	0	0		
a-BHC	0.44	0.20	0.5	0	88	72	108	0	0		
a-BHC	0.27	1.0	0.5	0	54	20.2	71.5	0	0		Jb
drin	0.42	0.050	0.5	0	84	47.7	109	0	0		
osulfan I	0.5	1.0	0.5	0	100	60.8	138	0	0		J
Endosulfan II	0.48	1.0	0.5	0	96	69.7	107	0	0		J
Endosulfan Sulfate	0.39	1.0	0.5	0	78	46.9	104	0	0		J
Endrin	0.47	1.0	0.5	0	94	54.1	112	0	0		J
Endrin Aldehyde	0.45	1.0	0.5	0	90	66.3	99.7	0	0		Jb
Endrin Ketone	0.42	1.0	0.5	0	84	52.3	111	0	0		J
Gamma-BHC	0.39	0.10	0.5	0	78	45	122	0	0		
Heptachlor	0.43	0.20	0.5	0	86	35.7	106	0	0		
Heptachlor Epoxide	0.46	0.10	0.5	0	92	56.6	128	0	0		
Methoxychlor	0.41	1.0	0.5	0	82	36.6	124	0	0		J
Surr: Tetrachloro-m-xylene	0.18	0	0.2	0	90	45.2	114	0	0		
Surr: Decachlorobiphenyl	0.19	0	0.2	0	95	11.6	136	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65988

Sample ID: **me0809c97-05bms2** SampType: **ms** TestCode: **8081-82_w+** Units: **µg/L** Prep Date: **10/3/2008 1:30:00 PM** Run ID: **ECD-1_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65988** TestNo: **SW8081A/808** Analysis Date: **10/3/2008 9:25:00 PM** SeqNo: **1900927**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	1	2.1	1.042	0	96	10	193.1	0	0		J
Aldrin	0.9167	0.10	1.042	0	88	10	156.1	0	0		
Dieldrin	0.9583	0.10	1.042	0	92	27.59	144.7	0	0		
Endrin	1.083	2.1	1.042	0	104	32.82	135.2	0	0		J
Gamma-BHC	0.875	0.21	1.042	0	84	20.69	135.6	0	0		
Heptachlor	1	0.42	1.042	0	96	24.23	123.9	0	0		
Surr: Tetrachloro-m-xylene	0.4375	0	0.4167	0	105	45.2	114	0	0		
urr: Decachlorobiphenyl	0.3958	0	0.4167	0	95	11.6	136	0	0		

nple ID: **me0809c97-05bms1** SampType: **ms** TestCode: **8081-82_w+** Units: **µg/L** Prep Date: **10/3/2008 1:30:00 PM** Run ID: **ECD-1_081003A**
ent ID: **ACS-GW-PWT-32** Batch ID: **65988** TestNo: **SW8081A/808** Analysis Date: **10/3/2008 8:36:00 PM** SeqNo: **1900944**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
clor 1016	9.992	0.98	9.804	0	102	52.8	123	0	0		
clor 1260	9.792	0.98	9.804	0	99.9	51.6	135	0	0		
urr: Tetrachloro-m-xylene	0.451	0	0.3922	0	115	45.2	114	0	0		S
urr: Decachlorobiphenyl	0.549	0	0.3922	0	140	11.6	136	0	0		S

ample ID: **me0809c97-05bmsd** SampType: **msd** TestCode: **8081-82_w+** Units: **µg/L** Prep Date: **10/3/2008 1:30:00 PM** Run ID: **ECD-1_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65988** TestNo: **SW8081A/808** Analysis Date: **10/3/2008 9:49:00 PM** SeqNo: **1900928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	0.94	2.0	1	0	94	10	193.1	1	0	15.33	J
Aldrin	0.88	0.10	1	0	88	10	156.1	0.9167	4.08	32.02	
Dieldrin	0.92	0.10	1	0	92	27.59	144.7	0.9583	4.08	14.94	
Endrin	1.04	2.0	1	0	104	32.82	135.2	1.083	0	22.72	J
Gamma-BHC	0.84	0.20	1	0	84	20.69	135.6	0.875	4.08	22.69	
Heptachlor	0.94	0.40	1	0	94	24.23	123.9	1	6.19	23.63	
Surr: Tetrachloro-m-xylene	0.52	0	0.4	0	130	45.2	114	0	0	0	S
Surr: Decachlorobiphenyl	0.58	0	0.4	0	145	11.6	136	0	0	0	S

Qualifiers:
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B - Analyte detected above reporting limit in the Method Blank
b - Analyte detected below reporting limit in the Method Blank

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65988

Sample ID: **me0809c97-05bmsd** SampType: **msd** TestCode: **8081-82_w+** Units: **µg/L** Prep Date: **10/3/2008 1:30:00 PM** Run ID: **ECD-1_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65988** TestNo: **SW8081A/808** Analysis Date: **10/3/2008 9:00:00 PM** SeqNo: **1900945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	11.21	1.0	10.42	0	108	52.8	123	9.992	11.5	44.9	
Aroclor 1260	10.96	1.0	10.42	0	105	51.6	135	9.792	11.2	41.4	
Surr: Tetrachloro-m-xylene	0.6458	0	0.4167	0	155	45.2	114	0	0	0	S
Surr: Decachlorobiphenyl	0.7292	0	0.4167	0	175	11.6	136	0	0	0	S

Qualifiers:
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R - RPD outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
b - Analyte detected below reporting limit in the Method Blank

Microbac Laboratories, Inc.

Date: *09-Oct-08*

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65965

Sample ID: **bk-2-100308** SampType: **mblk** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
Client ID: **ZZZZZ** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/3/2008 9:01:00 PM** SeqNo: **1900752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Bromophenyl phenyl ether	ND	10									
Bis(2-ethylhexyl)phthalate	ND	10									
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Anthracene	ND	10									
Benzo[a]anthracene	ND	10									
zo[a]pyrene	ND	10									
zo[b]fluoranthene	ND	10									
zo[g,h,i]perylene	ND	10									
zo[k]fluoranthene	ND	10									
2-chloroethoxy)methane	ND	10									
2-chloroethyl)ether	ND	10									
/l benzyl phthalate	ND	10									
bazole	ND	10									
hloro-3-methylphenol	ND	20									
hloroaniline	ND	20									
hloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	10									
Chrysene	ND	10									
Dibenz[a,h]anthracene	ND	10									
Dibenzofuran	ND	10									
3,3'-Dichlorobenzidine	ND	50									
2,4-Dichlorophenol	ND	10									
Diethyl phthalate	ND	10									
Dimethyl phthalate	ND	10									
2,4-Dimethylphenol	ND	10									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	10									

Qualifiers:
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b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65965

Sample ID: **bk-2-100308** SampType: **mblk** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
Client ID: **ZZZZZ** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/3/2008 9:01:00 PM** SeqNo: **1900752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	ND	50									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	10									
2,6-Dinitrotoluene	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
achlorobutadiene	ND	10									
achlorocyclopentadiene	ND	10									
achloroethane	ND	10									
ɛno[1,2,3cd]pyrene	ND	10									
horone	ND	10									
ethylnaphthalene	ND	10									
ethylphenol	ND	10									
Methylphenol	ND	10									
itroaniline	ND	50									
itroaniline	ND	50									
itroaniline	ND	50									
2-Nitrophenol	ND	10									
4-Nitrophenol	ND	50									
N-Nitrosodi-n-propylamine	ND	10									
N-Nitrosodiphenylamine	ND	10									
Naphthalene	ND	10									
Nitrobenzene	ND	10									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	10									
Surr: Nitrobenzene-d5	61.62	0	100	0	61.6	10	121	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65965

Sample ID: **bk-2-100308** SampType: **mblk** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
Client ID: **ZZZZZ** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/3/2008 9:01:00 PM** SeqNo: **1900752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	65.96	0	100	0	66	10	109	0	0		
Surr: Terphenyl-d14	79.17	0	100	0	79.2	10	130	0	0		
Surr: Phenol-d5	38.19	0	150	0	25.5	10	100	0	0		
Surr: 2-Fluorophenol	55.54	0	150	0	37	10	84.7	0	0		
Surr: 2,4,6-Tribromophenol	101.8	0	150	0	67.8	10	120	0	0		

Sample ID: **lcs-2-100308** SampType: **lcs** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
ent ID: **ZZZZZ** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/3/2008 9:27:00 PM** SeqNo: **1900753**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
naphthene	66.28	10	100	0	66.3	28.6	88.6	0	0		
loro-3-methylphenol	71.53	20	100	0	71.5	27.2	97.7	0	0		
lorophenol	61.83	10	100	0	61.8	31.3	81.3	0	0		
Dinitrotoluene	76.38	10	100	0	76.4	23.5	95.4	0	0		
trophenol	24.1	50	100	0	24.1	5	56.2	0	0		J
itrosodi-n-propylamine	78.86	10	100	0	78.9	15.9	119	0	0		
tachlorophenol	77.29	50	100	0	77.3	5	114	0	0		
nol	28.32	10	100	0	28.3	5	46.7	0	0		
Pyrene	76.05	10	100	0	76	25.3	103	0	0		
Surr: Nitrobenzene-d5	57.32	0	100	0	57.3	10	121	0	0		
Surr: 2-Fluorobiphenyl	63.43	0	100	0	63.4	10	109	0	0		
Surr: Terphenyl-d14	75.16	0	100	0	75.2	10	130	0	0		
Surr: Phenol-d5	37.92	0	150	0	25.3	10	100	0	0		
Surr: 2-Fluorophenol	54.09	0	150	0	36.1	10	84.7	0	0		
Surr: 2,4,6-Tribromophenol	104	0	150	0	69.4	10	120	0	0		

Sample ID: **me0809c97-05bms** SampType: **ms** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/4/2008 3:09:00 AM** SeqNo: **1901374**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	137.7	20	204.1	0	67.5	14.5	96.6	0	0		

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65965

Sample ID: **me0809c97-05bms** SampType: **ms** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/4/2008 3:09:00 AM** SeqNo: **1901374**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	151	41	204.1	0	74	9.03	111	0	0		
2-Chlorophenol	129.4	20	204.1	0	63.4	5	106	0	0		
2,4-Dinitrotoluene	154	20	204.1	0	75.5	18.7	96.2	0	0		
4-Nitrophenol	80.33	20	204.1	0	39.4	5	95.2	0	0		
N-Nitrosodi-n-propylamine	158.9	20	204.1	0	77.9	6.65	116	0	0		
Pentachlorophenol	152.3	100	204.1	0	74.6	5	135	0	0		
Phenol	90.47	20	204.1	0	44.3	5	70.4	0	0		
ene	150.7	20	204.1	0	73.8	14.3	107	0	0		
urr: Nitrobenzene-d5	121.8	0	204.1	0	59.7	10	121	0	0		
urr: 2-Fluorobiphenyl	140.7	0	204.1	0	68.9	10	109	0	0		
urr: Terphenyl-d14	150.7	0	204.1	0	73.8	10	130	0	0		
urr: Phenol-d5	115.8	0	306.1	0	37.8	10	100	0	0		
urr: 2-Fluorophenol	141.4	0	306.1	0	46.2	10	84.7	0	0		
urr: 2,4,6-Tribromophenol	214.3	0	306.1	0	70	10	120	0	0		

nple ID: **me0809c97-05bmsd** SampType: **msd** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
nt ID: **ACS-GW-PWT-32** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/4/2008 3:35:00 AM** SeqNo: **1901375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	131.8	20	200	0	65.9	14.5	96.6	137.7	4.33	41.3	
4-Chloro-3-methylphenol	148	40	200	0	74	9.03	111	151	2.05	43.6	
2-Chlorophenol	112.6	20	200	0	56.3	5	106	129.4	13.8	44.3	
2,4-Dinitrotoluene	154.5	20	200	0	77.3	18.7	96.2	154	0.363	36.5	
4-Nitrophenol	77.84	20	200	0	38.9	5	95.2	80.33	3.14	16.6	
N-Nitrosodi-n-propylamine	140.5	20	200	0	70.2	6.65	116	158.9	12.3	42.7	
Pentachlorophenol	144.9	100	200	0	72.4	5	135	152.3	5.01	29.2	
Phenol	82.28	20	200	0	41.1	5	70.4	90.47	9.48	55	
Pyrene	139	20	200	0	69.5	14.3	107	150.7	8.07	37.7	
Surr: Nitrobenzene-d5	110.6	0	200	0	55.3	10	121	0	0	0	
Surr: 2-Fluorobiphenyl	137.3	0	200	0	68.7	10	109	0	0	0	
Surr: Terphenyl-d14	143.8	0	200	0	71.9	10	130	0	0	0	

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 65965

Sample ID: **me0809c97-05bmsd** SampType: **msd** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/3/2008 7:36:00 AM** Run ID: **SVOA-4_081003A**
Client ID: **ACS-GW-PWT-32** Batch ID: **65965** TestNo: **SW8270C** Analysis Date: **10/4/2008 3:35:00 AM** SeqNo: **1901375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Phenol-d5	104.6	0	300	0	34.9	10	100	0	0	0	
Surr: 2-Fluorophenol	126.8	0	300	0	42.3	10	84.7	0	0	0	
Surr: 2,4,6-Tribromophenol	197.2	0	300	0	65.7	10	120	0	0	0	

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b - Analyte detected below reporting limit in the Method Blank
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119083

Sample ID: **MBLK-W25-10/01** SampType: **MBLK** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
Client ID: **ZZZZZ** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/1/2008 8:31:00 AM** SeqNo: **1899246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	5.0									
Benzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	2.0									
Carbon Disulfide	ND	2.0									
bon tetrachloride	ND	1.0									
orobenzene	ND	1.0									
oroethane	ND	2.0									
oroform	ND	1.0									
romethane	ND	2.0									
romochloromethane	ND	1.0									
Dichloroethane	ND	1.0									
Dichloroethane	ND	1.0									
Dichloroethene	ND	1.0									
1,2-Dichloroethene	ND	1.0									
s-1,2-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
Ethylbenzene	ND	1.0									
2-Hexanone	ND	2.0									
4-Methyl-2-Pentanone	ND	1.0									
Methylene chloride	1.17	2.0									J
Styrene	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									

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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119083

Sample ID: **MBLK-W25-10/01** SampType: **MBLK** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
Client ID: **ZZZZZ** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/1/2008 8:31:00 AM** SeqNo: **1899246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	1.0									
Vinyl chloride	ND	2.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Total Xylenes	ND	1.0									
urr: 4-Bromofluorobenzene	9.95	0	10	0	99.5	75.2	115	0	0		
urr: Dibromofluoromethane	10.47	0	10	0	105	92.7	119	0	0		
urr: 1,2-Dichloroethane-d4	11.62	0	10	0	116	88.2	132	0	0		
urr: Toluene-d8	11.05	0	10	0	110	89.3	116	0	0		

nple ID: **LCS-W25-10 PPB** SampType: **LCS** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
nt ID: **ZZZZZ** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/1/2008 9:51:00 AM** SeqNo: **1899249**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
zene	8.74	1.0	10	0	87.4	75.4	121	0	0		
nodichloromethane	11.1	1.0	10	0	111	69.4	121	0	0		
Bromoform	12.16	1.0	10	0	122	60	131	0	0		
Carbon tetrachloride	8.13	1.0	10	0	81.3	65.5	134	0	0		
Chlorobenzene	10.54	1.0	10	0	105	81.1	120	0	0		
Chloroform	11.08	1.0	10	0	111	74.1	123	0	0		
Chloromethane	7.23	2.0	10	0	72.3	22.5	147	0	0		
Dibromochloromethane	12.04	1.0	10	0	120	68.6	123	0	0		
1,1-Dichloroethane	9.27	1.0	10	0	92.7	77	132	0	0		
1,2-Dichloroethane	12.22	1.0	10	0	122	68	127	0	0		
1,1-Dichloroethene	6.88	1.0	10	0	68.8	47.5	153	0	0		
trans-1,2-Dichloroethene	8.4	1.0	10	0	84	64.5	143	0	0		
1,2-Dichloropropane	8.62	1.0	10	0	86.2	74.4	126	0	0		
trans-1,3-Dichloropropene	12.81	1.0	10	0	128	71.8	131	0	0		
cis-1,3-Dichloropropene	11.49	1.0	10	0	115	69.1	126	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119083

Sample ID: **LCS-W25-10 PPB** SampType: **LCS** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
Client ID: **ZZZZZ** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/1/2008 9:51:00 AM** SeqNo: **1899249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	10.54	1.0	10	0	105	73.6	125	0	0		
Methylene chloride	10.57	2.0	10	0	106	37.6	136	0	0		b
1,1,2,2-Tetrachloroethane	9.67	1.0	10	0	96.7	69.8	123	0	0		
Tetrachloroethene	8.56	1.0	10	0	85.6	70.1	134	0	0		
Toluene	10.57	1.0	10	0	106	76.4	123	0	0		
1,1,1-Trichloroethane	8.97	1.0	10	0	89.7	70.8	131	0	0		
1,1,2-Trichloroethane	11.11	1.0	10	0	111	67.6	127	0	0		
ıloroethene	8.37	1.0	10	0	83.7	69.9	127	0	0		
ı chloride	4.7	2.0	10	0	47	37.1	149	0	0		
urr: 4-Bromofluorobenzene	11.27	0	10	0	113	75.2	115	0	0		
urr: Dibromofluoromethane	10.37	0	10	0	104	92.7	119	0	0		
urr: 1,2-Dichloroethane-d4	11.52	0	10	0	115	88.2	132	0	0		
urr: Toluene-d8	11.41	0	10	0	114	89.3	116	0	0		

nple ID: **ME0809C97-05AMS** SampType: **MS** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
ent ID: **ACS-GW-PWT-32** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/1/2008 11:32:00 PM** SeqNo: **1899264**

alyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	9.78	1.0	10	0	97.8	60.6	130	0	0		
Bromodichloromethane	11.54	1.0	10	0	115	65.8	126	0	0		
Bromoform	12.85	1.0	10	0	128	40.5	146	0	0		
Bromomethane	ND	2.0	10	0	0	0	243	0	0		
Carbon tetrachloride	12.99	1.0	10	0	130	47.2	149	0	0		
Chlorobenzene	11.09	1.0	10	0	111	75.6	127	0	0		
Chloroethane	ND	2.0	10	0	0	0	357	0	0		
Chloroform	12.47	1.0	10	0	125	71.2	120	0	0		S
Chloromethane	ND	2.0	10	0	0	10.8	155	0	0		S
Dibromochloromethane	11.47	1.0	10	0	115	60.1	136	0	0		
1,1-Dichloroethane	10.55	1.0	10	0	106	68	119	0	0		
1,2-Dichloroethane	12.64	1.0	10	0	126	67.7	133	0	0		
1,1-Dichloroethene	10.09	1.0	10	0	101	50.1	125	0	0		

Qualifiers:
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CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119083

Sample ID: **ME0809C97-05AMS** SampType: **MS** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
Client ID: **ACS-GW-PWT-32** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/1/2008 11:32:00 PM** SeqNo: **1899264**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	10.11	1.0	10	0	101	56.9	132	0	0		
1,2-Dichloropropane	8.69	1.0	10	0	86.9	71.4	125	0	0		
trans-1,3-Dichloropropene	12.81	1.0	10	0	128	69.9	130	0	0		
cis-1,3-Dichloropropene	10.85	1.0	10	0	108	66.9	134	0	0		
Ethylbenzene	12.37	1.0	10	0	124	60.6	144	0	0		
Methylene chloride	7.03	2.0	10	0	70.3	55.4	130	0	0		b
1,1,2,2-Tetrachloroethane	9.21	1.0	10	0	92.1	46.8	168	0	0		
rachloroethene	11.78	1.0	10	0	118	60.1	144	0	0		
uene	11.72	1.0	10	0	117	69.7	130	0	0		
,1-Trichloroethane	13.17	1.0	10	0	132	63	136	0	0		
,2-Trichloroethane	10.92	1.0	10	0	109	40.6	165	0	0		
chloroethene	10.69	1.0	10	0	107	48.6	139	0	0		
yl chloride	ND	2.0	10	0	0	33	151	0	0		S
Surr: 4-Bromofluorobenzene	11.48	0	10	0	115	75.2	115	0	0		
Surr: Dibromofluoromethane	10.03	0	10	0	100	92.7	119	0	0		
Surr: 1,2-Dichloroethane-d4	11.98	0	10	0	120	88.2	132	0	0		
Surr: Toluene-d8	10.77	0	10	0	108	89.3	116	0	0		

Sample ID: **ME0809C97-05AMS** SampType: **MSD** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
Client ID: **ACS-GW-PWT-32** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/2/2008 12:03:00 AM** SeqNo: **1899265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	9.48	1.0	10	0	94.8	60.6	130	9.78	3.12	23.7	
Bromodichloromethane	11.18	1.0	10	0	112	65.8	126	11.54	3.17	28.4	
Bromoform	12.26	1.0	10	0	123	40.5	146	12.85	4.70	28.8	
Bromomethane	ND	2.0	10	0	0	0	243	0	0	52.8	
Carbon tetrachloride	12.57	1.0	10	0	126	47.2	149	12.99	3.29	31.1	
Chlorobenzene	10.91	1.0	10	0	109	75.6	127	11.09	1.64	23	
Chloroethane	ND	2.0	10	0	0	0	357	0	0	29.3	
Chloroform	11.76	1.0	10	0	118	71.2	120	12.47	5.86	25	
Chloromethane	ND	2.0	10	0	0	10.8	155	0	0	90.9	S

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0809C97
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: R119083

Sample ID: **ME0809C97-05AMS** SampType: **MSD** TestCode: **8260+_W25** Units: **µg/L** Prep Date: Run ID: **VOA-5_081001A**
Client ID: **ACS-GW-PWT-32** Batch ID: **R119083** TestNo: **SW8260B** Analysis Date: **10/2/2008 12:03:00 AM** SeqNo: **1899265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	11.31	1.0	10	0	113	60.1	136	11.47	1.40	27.1	
1,1-Dichloroethane	10.22	1.0	10	0	102	68	119	10.55	3.18	14.2	
1,2-Dichloroethane	12.02	1.0	10	0	120	67.7	133	12.64	5.03	23.3	
1,1-Dichloroethene	10.15	1.0	10	0	102	50.1	125	10.09	0.593	31	
trans-1,2-Dichloroethene	10.13	1.0	10	0	101	56.9	132	10.11	0.198	66.1	
1,2-Dichloropropane	8.55	1.0	10	0	85.5	71.4	125	8.69	1.62	26	
trans-1,3-Dichloropropene	12.47	1.0	10	0	125	69.9	130	12.81	2.69	27.9	
cis-1,3-Dichloropropene	10.71	1.0	10	0	107	66.9	134	10.85	1.30	28.7	
ylbenzene	12.05	1.0	10	0	120	60.6	144	12.37	2.62	25.2	
thylene chloride	6.97	2.0	10	0	69.7	55.4	130	7.03	0.857	28.7	b
,2,2-Tetrachloroethane	9.21	1.0	10	0	92.1	46.8	168	9.21	0	22.3	
trachloroethene	11.59	1.0	10	0	116	60.1	144	11.78	1.63	29.7	
luene	11.78	1.0	10	0	118	69.7	130	11.72	0.511	25.4	
,1-Trichloroethane	12.91	1.0	10	0	129	63	136	13.17	1.99	29	
,2-Trichloroethane	10.19	1.0	10	0	102	40.6	165	10.92	6.92	25.9	
chloroethene	10.52	1.0	10	0	105	48.6	139	10.69	1.60	26.9	
yl chloride	ND	2.0	10	0	0	33	151	0	0	31.2	S
Surr: 4-Bromofluorobenzene	11.39	0	10	0	114	75.2	115	0	0	0	
Surr: Dibromofluoromethane	10.25	0	10	0	103	92.7	119	0	0	0	
Surr: 1,2-Dichloroethane-d4	11.51	0	10	0	115	88.2	132	0	0	0	
Surr: Toluene-d8	10.73	0	10	0	107	89.3	116	0	0	0	

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

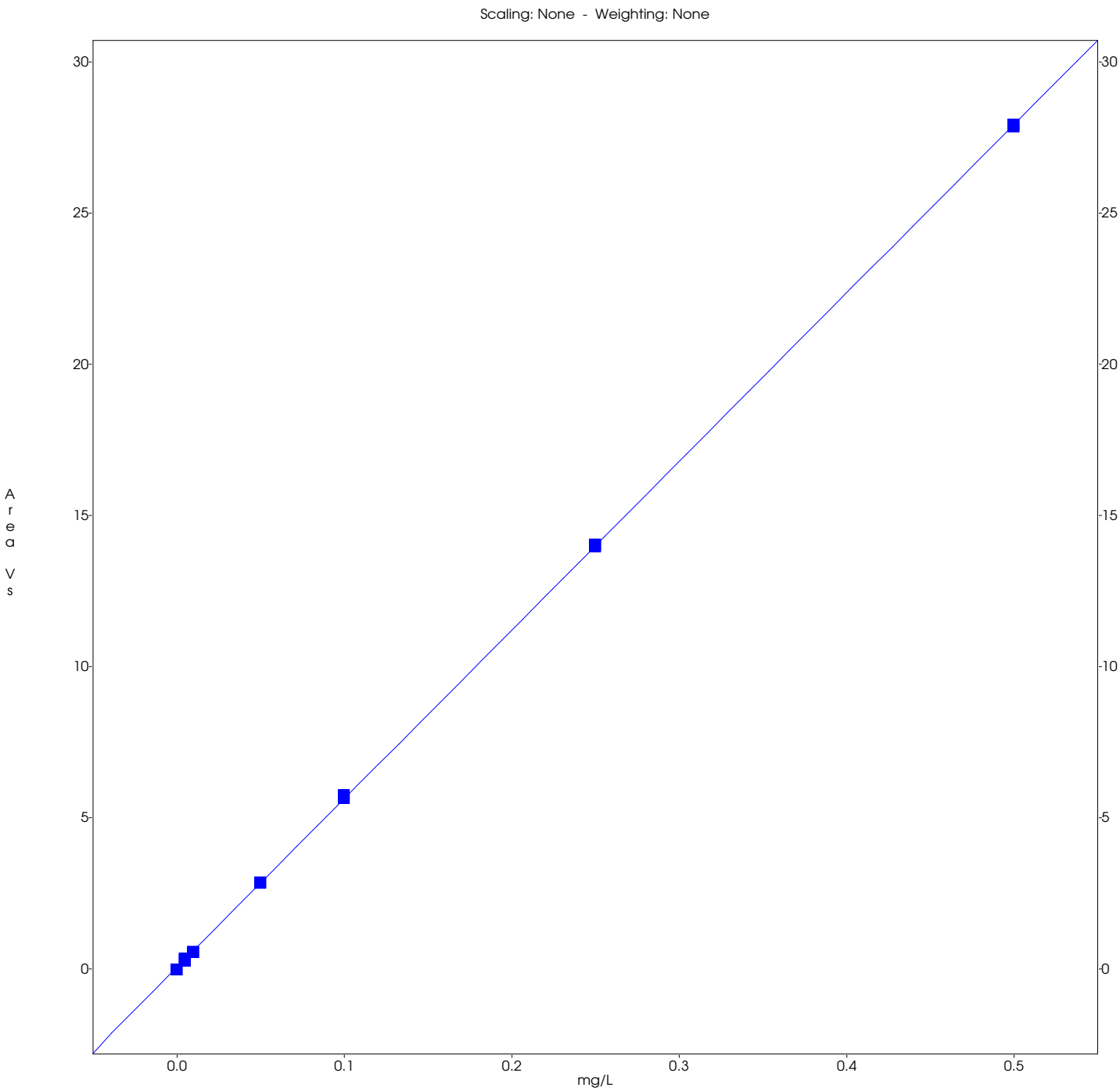
INORGANIC DATA

CYANIDE
RAW DATA

cyanide

Lvl	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	27908552	0.500	27874738	27942364				47818.8	0.2	0.1
2	14024770	0.250	13990167	14059374				48936.7	0.3	-0.2
3	5715648	0.100	5753789	5677507				53939.5	0.9	-1.5
4	2867283	0.050	2869753	2864812				3493.8	0.1	-0.9
5	572580	0.010	574604	570556				2862.4	0.5	7.1
6	325397	0.005	352172	298622				37865.6	11.6	2.9
7	0	0.000	0	0				0.0	0.0	

1st Order Poly
Conc = 1.793e-008 Area - 9.797e-004
r = 1.0000



Printed: Friday, October 03, 2008 - 03:43 PM

OPERATOR: LINGENFELTER
ACQ. TIME: Oct 3, 2008 15:08:39
DATA FILENAME: C:\OMNION\DATA\10038CN.FDT
METHOD FILENAME:
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jul 28, 2008 17:35:22
Modified: Oct 3, 2008 14:44:09
cyanide
DATA DESCRIPTION:
Created: Oct 3, 2008 15:08:39
Modified: Oct 3, 2008 15:08:39 Method - Ch. 2 (cyanide)

METHOD DESCRIPTION:
Created: Jun 29, 2000 11:13:39
Modified: Oct 2, 2008 15:47:56
Cyanide

ANALYTE DATA:

Analyte Name:	cyanide
Concentration Units:	mg/L
Chemistry:	Direct
Inject to Peak Start (s):	25.0
Peak Base Width (s):	26.550
% Width Tolerance:	100.000
Threshold:	5970.000
Autodilution Trigger:	On
QuikChem Method:	10-204-00-1-A

CALIBRATION DATA:
Levels:

1 : 0.500	2 : 0.250	3 : 0.100	4 : 0.050
5 : 0.010	6 : 0.005	7 : 0.000	

Calibration Rep Handling:	Average
Calibration Fit Type:	1st Order Poly
Force Though Zero:	No
Weighting Method:	None
Concentration Scaling:	None

SAMPLER TIMING:

Method Cycle Period:	45.0
Min. Probe in Wash Period:	5.0
Probe in Sample Period:	25.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:

Method Cycle Period:	45.0
Sample Reaches 1st Valve:	25.0
Valve:	On
Load Time:	0.0
Load Period:	22.0
Inject Period:	23.0

OPERATOR: LINGENFELTER
ACQ. TIME: Oct 3, 2008 15:08:39
DATA FILENAME: C:\OMNION\DATA\10038CN.FDT
METHOD FILENAME:
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jul 28, 2008 17:35:22
Modified: Oct 3, 2008 14:44:09
cyanide
DATA DESCRIPTION:
Created: Oct 3, 2008 15:08:39
Modified: Oct 3, 2008 15:08:39

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 30

Cup	Sample ID	# of Reps	cyanide (mg/L)	Man Dil Factor
1	ICV	2	0.1017	1.0
2	ICB	2	-0.0010	1.0
3	PB1003	2	-0.0010	1.0
4	LCS1003	2	0.1609	1.0
5	0810054-02A	2	0.6209	10.0
6	0810110-02A	2	0.7622	10.0
7	0810110-07A	2	-0.0002	1.0
8	0810110-09A	2	-0.0010	1.0
9	0809B99-01B	2	-0.0010	1.0
10	0809B30-01A	2	-0.0010	1.0
11	0809C97-02D	2	-0.0010	1.0
12	0809C97-03D	2	-0.0010	1.0
13	CCV	2	0.2008	1.0
14	CCB	2	-0.0004	1.0
15	0809C97-04D	2	-0.0010	1.0

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 31 to 60

Cup	Sample ID	# of Reps	cyanide (uv-s)	Man Dil Factor

NO SAMPLE INFO FOR THE SELECTED CUP RANGE

INSTRUMENT: Flow Injection Analysis (Lachat 2)
TRAY: CN.TRA METHOD: CYANIDE.MET DATAFILE: 10038CN.FDT
DATE/TIME: Fri Oct 03 15:08:40 2008 OPERATOR: LINGENFELTER

*** Begin Calibration ***
Cup# 1 Sample: CAL STD 0.500 Type: CalStd Level: 1 Rep# 1/2
Ch 2: cyanide Peak Area = 27942364.0 µv-s
Cup# 1 Sample: CAL STD 0.500 Type: CalStd Level: 1 Rep# 2/2
Ch 2: cyanide Peak Area = 27874738.0 µv-s
Cup# 1 Sample: CAL STD 0.500 Type: CalStd Avg 2 Reps
Ch 2: cyanide Peak Area = 27908552.0 µv-s
Cup# 2 Sample: CAL STD 0.250 Type: CalStd Level: 2 Rep# 1/2
Ch 2: cyanide Peak Area = 14059374.0 µv-s
Cup# 2 Sample: CAL STD 0.250 Type: CalStd Level: 2 Rep# 2/2
Ch 2: cyanide Peak Area = 13990167.0 µv-s
Cup# 2 Sample: CAL STD 0.250 Type: CalStd Avg 2 Reps
Ch 2: cyanide Peak Area = 14024770.0 µv-s
Cup# 3 Sample: CAL STD 0.100 Type: CalStd Level: 3 Rep# 1/2
Ch 2: cyanide Peak Area = 5677507.0 µv-s
Cup# 3 Sample: CAL STD 0.100 Type: CalStd Level: 3 Rep# 2/2
Ch 2: cyanide Peak Area = 5753789.0 µv-s
Cup# 3 Sample: CAL STD 0.100 Type: CalStd Avg 2 Reps
Ch 2: cyanide Peak Area = 5715648.0 µv-s
Cup# 4 Sample: CAL STD 0.050 Type: CalStd Level: 4 Rep# 1/2
Ch 2: cyanide Peak Area = 2864812.0 µv-s
Cup# 4 Sample: CAL STD 0.050 Type: CalStd Level: 4 Rep# 2/2
Ch 2: cyanide Peak Area = 2869753.0 µv-s
Cup# 4 Sample: CAL STD 0.050 Type: CalStd Avg 2 Reps
Ch 2: cyanide Peak Area = 2867282.5 µv-s
Cup# 5 Sample: CAL STD 0.010 Type: CalStd Level: 5 Rep# 1/2
Ch 2: cyanide Peak Area = 570556.0 µv-s
Cup# 5 Sample: CAL STD 0.010 Type: CalStd Level: 5 Rep# 2/2
Ch 2: cyanide Peak Area = 574604.0 µv-s
Cup# 5 Sample: CAL STD 0.010 Type: CalStd Avg 2 Reps
Ch 2: cyanide Peak Area = 572580.0 µv-s
Cup# 6 Sample: CAL STD 0.005 Type: CalStd Level: 6 Rep# 1/2
Ch 2: cyanide Peak Area = 298622.0 µv-s
Cup# 6 Sample: CAL STD 0.005 Type: CalStd Level: 6 Rep# 2/2
Ch 2: cyanide Peak Area = 352172.0 µv-s
Cup# 6 Sample: CAL STD 0.005 Type: CalStd Avg 2 Reps
Ch 2: cyanide Peak Area = 325397.0 µv-s
Cup# 7 Sample: CAL STD 0.000 Type: CalStd Level: 7 Rep# 1/2
Ch 2: cyanide Peak Area = 0.0 µv-s
Cup# 7 Sample: CAL STD 0.000 Type: CalStd Level: 7 Rep# 2/2
Ch 2: cyanide Peak Area = 0.0 µv-s
Cup# 7 Sample: CAL STD 0.000 Type: CalStd Avg 2 Reps
Ch 2: cyanide Peak Area = 0.0 µv-s
*** Updated Calibration ***
Ch 2: cyanide
** 1st Order Poly Calibration **
C(0) = 1.793e-008
C(1) = -0.000979663
r = 1.0000
*** End Calibration Block ***
*** Calibration Passed ***
Cup# 1 Sample: ICV Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1012 mg/L
Cup# 1 Sample: ICV Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.1022 mg/L
Cup# 1 Sample: ICV Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.1017 mg/L
Cup# 2 Sample: ICB Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 2 Sample: ICB Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 2 Sample: ICB Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L

Cup# 3 Sample: PB1003 Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 3 Sample: PB1003 Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 3 Sample: PB1003 Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 4 Sample: LCS1003 Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1611 mg/L
Cup# 4 Sample: LCS1003 Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.1607 mg/L
Cup# 4 Sample: LCS1003 Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.1609 mg/L
Cup# 5 Sample: 0810054-02A Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0625 mg/L
Cup# 5 Sample: 0810054-02A Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0617 mg/L
Cup# 5 Sample: 0810054-02A Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0621 mg/L
Cup# 6 Sample: 0810110-02A Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0761 mg/L
Cup# 6 Sample: 0810110-02A Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0764 mg/L
Cup# 6 Sample: 0810110-02A Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0762 mg/L
Cup# 7 Sample: 0810110-07A Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0007 mg/L
Cup# 7 Sample: 0810110-07A Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 7 Sample: 0810110-07A Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0002 mg/L
Cup# 8 Sample: 0810110-09A Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 8 Sample: 0810110-09A Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 8 Sample: 0810110-09A Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 9 Sample: 0809B99-01B Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 9 Sample: 0809B99-01B Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 9 Sample: 0809B99-01B Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 10 Sample: 0809B30-01A Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 10 Sample: 0809B30-01A Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 10 Sample: 0809B30-01A Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 11 Sample: 0809C97-02D Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 11 Sample: 0809C97-02D Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 11 Sample: 0809C97-02D Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 12 Sample: 0809C97-03D Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 12 Sample: 0809C97-03D Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 12 Sample: 0809C97-03D Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 13 Sample: CCV Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1999 mg/L
Cup# 13 Sample: CCV Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.2017 mg/L
Cup# 13 Sample: CCV Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.2008 mg/L
Cup# 14 Sample: CCB Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0001 mg/L

Cup# 14 Sample: CCB Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 14 Sample: CCB Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0004 mg/L
Cup# 15 Sample: 0809C97-04D Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 15 Sample: 0809C97-04D Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 15 Sample: 0809C97-04D Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
******* Tray Run Stopped by User *******

OPERATOR: LINGENFELTER
ACQ. TIME: Oct 3, 2008 15:45:08
DATA FILENAME: C:\OMNION\DATA\10038CNA.FDT
METHOD FILENAME:
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jul 28, 2008 17:35:22
Modified: Oct 3, 2008 15:44:37
cyanide
DATA DESCRIPTION:
Created: Oct 3, 2008 15:45:08
Modified: Oct 3, 2008 15:45:08 Method - Ch. 2 (cyanide)

METHOD DESCRIPTION:
Created: Jun 29, 2000 11:13:39
Modified: Oct 2, 2008 15:47:56
Cyanide

ANALYTE DATA:
Analyte Name: cyanide
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 25.0
Peak Base Width (s): 26.550
% Width Tolerance: 100.000
Threshold: 5970.000
Autodilution Trigger: On
QuikChem Method: 10-204-00-1-A

CALIBRATION DATA:
Levels:
1 : 0.500 2 : 0.250 3 : 0.100 4 : 0.050
5 : 0.010 6 : 0.005 7 : 0.000
Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

SAMPLER TIMING:
Method Cycle Period: 45.0
Min. Probe in Wash Period: 5.0
Probe in Sample Period: 25.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:
Method Cycle Period: 45.0
Sample Reaches 1st Valve: 25.0
Valve: On
Load Time: 0.0
Load Period: 22.0
Inject Period: 23.0

OPERATOR: LINGENFELTER
ACQ. TIME: Oct 3, 2008 15:45:08
DATA FILENAME: C:\OMNION\DATA\10038CNA.FDT
METHOD FILENAME:
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jul 28, 2008 17:35:22
Modified: Oct 3, 2008 15:44:37
cyanide
DATA DESCRIPTION:
Created: Oct 3, 2008 15:45:08
Modified: Oct 3, 2008 15:45:08

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 30

Cup	Sample ID	# of Reps	cyanide (mg/L)	Man Dil Factor
13	CCV	2	0.2004	1.0
14	CCB	2	-0.0004	1.0
16	0809C97-05D	2	0.0015	1.0
17	0809C97-05DMS	2	0.1889	1.0
18	0809C97-05DMSD	2	0.1893	1.0
19	PB1003	2	0.4561	1.0
20	LCS1003	2	0.0547	~~1.0~~ 1
21	0810030-01A	2	0.1630	1.0
22	0809C54-01A	2	0.0115	1.0
23	0810027-01A	2	-0.0010	1.0
24	0810025-01A	2	0.0084	1.0
25	0810066-01A	2	-0.0010	1.0
26	0810066-02A	2	0.0017	1.0
27	0810066-02AMS	2	0.0120	~~1.0~~ 2
28	0810066-02AMSD	2	0.0495	~~1.0~~ 3
29	LCS1003	2	0.1924	1.0

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 31 to 60

Cup	Sample ID	# of Reps	cyanide (mg/L)	Man Dil Factor
35	CCV	2	0.2050	1.0
36	CCB	2	-0.0004	1.0

INSTRUMENT: Flow Injection Analysis (Lachat 2)
TRAY: CN.TRA METHOD: CYANIDE.MET DATAFILE: 10038CNA.FDT
DATE/TIME: Fri Oct 03 15:45:08 2008 OPERATOR: LINGENFELTER

Cup# 29 Sample: LCS1003 Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1921 mg/L
Cup# 29 Sample: LCS1003 Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.1928 mg/L
Cup# 29 Sample: LCS1003 Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.1924 mg/L
Cup# 16 Sample: 0809C97-05D Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0019 mg/L
Cup# 16 Sample: 0809C97-05D Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0011 mg/L
Cup# 16 Sample: 0809C97-05D Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0015 mg/L
Cup# 17 Sample: 0809C97-05DMS Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1888 mg/L
Cup# 17 Sample: 0809C97-05DMS Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.1889 mg/L
Cup# 17 Sample: 0809C97-05DMS Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.1889 mg/L
Cup# 18 Sample: 0809C97-05DMSD Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1890 mg/L
Cup# 18 Sample: 0809C97-05DMSD Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.1896 mg/L
Cup# 18 Sample: 0809C97-05DMSD Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.1893 mg/L
Cup# 19 Sample: PB1003 Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.4562 mg/L
Cup# 19 Sample: PB1003 Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.4560 mg/L
Cup# 19 Sample: PB1003 Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.4561 mg/L
Cup# 20 Sample: LCS1003 Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0563 mg/L
Cup# 20 Sample: LCS1003 Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0531 mg/L
Cup# 20 Sample: LCS1003 Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0547 mg/L
Cup# 21 Sample: 0810030-01A Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1627 mg/L
Cup# 21 Sample: 0810030-01A Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.1633 mg/L
Cup# 21 Sample: 0810030-01A Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.1630 mg/L
Cup# 22 Sample: 0809C54-01A Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0116 mg/L
Cup# 22 Sample: 0809C54-01A Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0113 mg/L
Cup# 22 Sample: 0809C54-01A Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0115 mg/L
Cup# 23 Sample: 0810027-01A Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 23 Sample: 0810027-01A Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 23 Sample: 0810027-01A Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 13 Sample: CCV Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.2003 mg/L
Cup# 13 Sample: CCV Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.2006 mg/L
Cup# 13 Sample: CCV Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.2004 mg/L
Cup# 14 Sample: CCB Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0003 mg/L
Cup# 14 Sample: CCB Type: Unknown Rep# 2/2

Ch 2: cyanide = -0.0010 mg/L
Cup# 14 Sample: CCB Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0004 mg/L
Cup# 24 Sample: 0810025-01A Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0085 mg/L
Cup# 24 Sample: 0810025-01A Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0083 mg/L
Cup# 24 Sample: 0810025-01A Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0084 mg/L
Cup# 25 Sample: 0810066-01A Type: Unknown Rep# 1/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 25 Sample: 0810066-01A Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 25 Sample: 0810066-01A Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0010 mg/L
Cup# 26 Sample: 0810066-02A Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0016 mg/L
Cup# 26 Sample: 0810066-02A Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0018 mg/L
Cup# 26 Sample: 0810066-02A Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0017 mg/L
Cup# 27 Sample: 0810066-02AMS Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0121 mg/L
Cup# 27 Sample: 0810066-02AMS Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0119 mg/L
Cup# 27 Sample: 0810066-02AMS Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0120 mg/L
Cup# 28 Sample: 0810066-02AMSD Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0496 mg/L
Cup# 28 Sample: 0810066-02AMSD Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.0495 mg/L
Cup# 28 Sample: 0810066-02AMSD Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.0495 mg/L
Cup# 35 Sample: CCV Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.2050 mg/L
Cup# 35 Sample: CCV Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.2051 mg/L
Cup# 35 Sample: CCV Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.2050 mg/L
Cup# 36 Sample: CCB Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0002 mg/L
Cup# 36 Sample: CCB Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 36 Sample: CCB Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0004 mg/L
******* Tray Run Complete *******

OPERATOR: LINGENFELTER
ACQ. TIME: Oct 3, 2008 16:43:29
DATA FILENAME: C:\OMNION\DATA\10038CNB.FDT
METHOD FILENAME:
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jul 28, 2008 17:35:22
Modified: Oct 3, 2008 15:44:37
cyanide
DATA DESCRIPTION:
Created: Oct 3, 2008 16:43:29
Modified: Oct 3, 2008 16:43:29 Method - Ch. 2 (cyanide)

METHOD DESCRIPTION:
Created: Jun 29, 2000 11:13:39
Modified: Oct 2, 2008 15:47:56
Cyanide

ANALYTE DATA:
Analyte Name: cyanide
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 25.0
Peak Base Width (s): 26.550
% Width Tolerance: 100.000
Threshold: 5970.000
Autodilution Trigger: On
QuikChem Method: 10-204-00-1-A

CALIBRATION DATA:
Levels:
1 : 0.500 2 : 0.250 3 : 0.100 4 : 0.050
5 : 0.010 6 : 0.005 7 : 0.000
Calibration Rep Handling: Average
Calibration Fit Type: 1st Order Poly
Force Though Zero: No
Weighting Method: None
Concentration Scaling: None

SAMPLER TIMING:
Method Cycle Period: 45.0
Min. Probe in Wash Period: 5.0
Probe in Sample Period: 25.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:
Method Cycle Period: 45.0
Sample Reaches 1st Valve: 25.0
Valve: On
Load Time: 0.0
Load Period: 22.0
Inject Period: 23.0

OPERATOR: LINGENFELTER
ACQ. TIME: Oct 3, 2008 16:43:29
DATA FILENAME: C:\OMNION\DATA\10038CNB.FDT
METHOD FILENAME:
TRAY FILENAME:

TRAY DESCRIPTION:
Created: Jul 28, 2008 17:35:22
Modified: Oct 3, 2008 15:44:37
cyanide
DATA DESCRIPTION:
Created: Oct 3, 2008 16:43:29
Modified: Oct 3, 2008 16:43:29

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 1 to 30

Cup	Sample ID	# of Reps	cyanide (mg/L)	Man Dil Factor
30	PDS 4	2	0.2020	1.0

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 -- Cup Range: 31 to 60

Cup	Sample ID	# of Reps	cyanide (mg/L)	Man Dil Factor
35	CCV	2	0.1946	1.0
36	CCB	2	-0.0003	1.0

INSTRUMENT: Flow Injection Analysis (Lachat 2)
TRAY: CN.TRA METHOD: CYANIDE.MET DATAFILE: 10038CNB.FDT
DATE/TIME: Fri Oct 03 16:43:29 2008 OPERATOR: LINGENFELTER

Cup# 30 Sample: PDS Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.2028 mg/L
Cup# 30 Sample: PDS Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.2012 mg/L
Cup# 30 Sample: PDS Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.2020 mg/L
Cup# 35 Sample: CCV Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.1940 mg/L
Cup# 35 Sample: CCV Type: Unknown Rep# 2/2
Ch 2: cyanide = 0.1953 mg/L
Cup# 35 Sample: CCV Type: Unknown Avg 2 Reps
Ch 2: cyanide = 0.1946 mg/L
Cup# 36 Sample: CCB Type: Unknown Rep# 1/2
Ch 2: cyanide = 0.0004 mg/L
Cup# 36 Sample: CCB Type: Unknown Rep# 2/2
Ch 2: cyanide = -0.0010 mg/L
Cup# 36 Sample: CCB Type: Unknown Avg 2 Reps
Ch 2: cyanide = -0.0003 mg/L
******* Tray Run Complete *******

Summary of Comments

Number of Comments: 4

1: wetchem3: StrikeOut: October 03, 2008 17:16 page 8: "1.0-DILUTED 1:100"
2: wetchem3: StrikeOut: October 03, 2008 17:16 page 8: "1.0-DILUTED 1:100"
3: wetchem3: StrikeOut: October 03, 2008 17:16 page 8: "1.0-DILUTED 1:100"
4: wetchem3: Highlight: October 03, 2008 17:17 page 12: "PDS-ON SAMPLE 0810066-01A"

CYANIDE DISTILLATION LOG(S)

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **65956** Prep Code: **CNPR_W** Technician: **Sarah Arcella**

Prep Start Date: **10/3/2008 9:55:00 AM**
Prep End Date: **10/3/2008 9:55:00 AM**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
LCS1003				50	0	0	50	1	10/3/2008	10/3/2008
ME0809B30-01A	Solid			50	0	0	50	1	10/3/2008	10/3/2008
ME0809B99-01B	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0809C97-02D	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0809C97-03D	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0809C97-04D	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0809C97-05D	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0809C97-05DM	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0809C97-05DM	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0810054-02A	Aqueous			0.5	0	0	50	100	10/3/2008	10/3/2008
ME0810110-02A	Aqueous			0.5	0	0	50	100	10/3/2008	10/3/2008
ME0810110-07A	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
ME0810110-09A	Aqueous			50	0	0	50	1	10/3/2008	10/3/2008
PB1003				50	0	0	50	1	10/3/2008	10/3/2008

ICP
DATA

RAW DATA

Method 6020 - Summary Report

Sample ID: 0

Sample Date/Time: Friday, October 03, 2008 10:02:31
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\0.001
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	67.834	11.755				ug/L
	B	11	3554.155	3.383				ug/L
	Al	27	4402.496	7.684				ug/L
>	Sc	45	775746.353	5.170				ug/L
	Ti	47	828.720	4.288				ug/L
	V	51	1918.523	119.930				ug/L
	Cr	52	14420.471	4.303				ug/L
	Mn	55	1253.176	4.309				ug/L
	Co	59	146.003	3.559				ug/L
	Ni	60	4575.206	1.255				ug/L
	Cu	63	225.339	2.524				ug/L
	Cu	65	186.336	6.363				ug/L
	Zn	66	510.517	1.037				ug/L
	Zn	68	1804.878	1.704				ug/L
>	Ge	72	173993.764	1.640				ug/L
	As	75	112.341	91.845				ug/L
	Se	82	144.440	3.043				ug/L
	Sr	88	137.336	11.147				ug/L
	Mo	95	99.501	2.303				ug/L
	Mo	98	111.046	2.225				ug/L
	Ag	107	52.667	3.953				ug/L
	Cd	111	31.300	24.883				ug/L
	Cd	114	47.840	7.396				ug/L
>	In	115	220861.600	10.707				ug/L
	Sn	118	142.669	13.157				ug/L
	Sb	121	269.341	10.412				ug/L
	Sb	123	247.258	11.710				ug/L
	Ba	135	49.833	6.528				ug/L
	Ba	137	64.334	13.220				ug/L
>	Tb	159	319922.494	5.952				ug/L
	Hg	202	45.600	9.283				ug/L
	Tl	205	191.004	6.560				ug/L
	Pb	208	193.669	7.820				ug/L
	Na	23	14553.243	3.316				ug/L

|	Mg	24	1298.123	3.162	ug/L
|	K	39	713508.095	0.314	ug/L
|	Ca	43	929.056	3.265	ug/L
|	Fe	54	25028.318	3.290	ug/L
|	Fe	57	6521.764	1.198	ug/L
|>	Sc-1	45	775746.353	5.170	ug/L
	Kr	83	209.672	5.055	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72					
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159					
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45					
	Kr	83					

Method 6020 - Summary Report

Sample ID: .2

Sample Date/Time: Friday, October 03, 2008 10:08:53
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\.2.002
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	257.338	2.764	0.000	0.20000	1.38	ug/L
	B	11	3795.436	0.871	0.000			ug/L
	Al	27	6452.328	5.369	0.002			ug/L
>	Sc	45	808349.148	2.711	808349.148			ug/L
	Ti	47	998.742	2.758	0.000	0.20000	32.74	ug/L
	V	51	6439.503	121.256	0.005	0.20000	175.29	ug/L
	Cr	52	17504.046	3.276	0.003	0.20000	23.56	ug/L
	Mn	55	3754.290	4.709	0.003	0.20000	7.22	ug/L
	Co	59	1857.910	7.259	0.002	0.20000	5.12	ug/L
	Ni	60	4791.308	2.560	0.000	0.20000	179.98	ug/L
	Cu	63	1019.411	4.220	0.005	0.20000	3.30	ug/L
	Cu	65	549.520	4.238	0.002	0.20000	3.12	ug/L
	Zn	66	908.387	4.137	0.002	0.20000	17.50	ug/L
	Zn	68	2256.831	2.528	0.003	0.20000	31.93	ug/L
>	Ge	72	175584.668	4.283	175584.668			ug/L
	As	75	368.535	69.543	0.001	0.20000	101.25	ug/L
	Se	82	164.049	6.929	0.000	0.20000	95.71	ug/L
	Sr	88	3325.419	2.641	0.018	0.20000	2.98	ug/L
	Mo	95	581.355	4.969	0.003	0.20000	5.39	ug/L
	Mo	98	867.928	4.807	0.004	0.20000	7.21	ug/L
	Ag	107	1433.148	1.308	0.006	0.20000	6.33	ug/L
	Cd	111	378.954	4.854	0.002	0.20000	9.56	ug/L
	Cd	114	822.185	1.676	0.003	0.20000	7.55	ug/L
>	In	115	223230.008	7.101	223230.008			ug/L
	Sn	118	1150.765	9.572	0.005	0.20000	19.25	ug/L
	Sb	121	1473.489	2.829	0.005	0.20000	6.39	ug/L
	Sb	123	1091.790	3.858	0.004	0.20000	5.55	ug/L
	Ba	135	346.174	1.388	0.001	0.20000	2.44	ug/L
	Ba	137	587.695	1.427	0.002	0.20000	1.68	ug/L
>	Tb	159	323398.932	2.119	323398.932			ug/L
	Hg	202	89.934	1.578	0.000	0.04000	5.52	ug/L
	Tl	205	3627.892	1.979	0.011	0.20000	4.27	ug/L
	Pb	208	4981.342	4.000	0.015	0.20000	5.56	ug/L
	Na	23	25727.628	5.470	0.013			ug/L

|	Mg	24	4325.472	51.231	0.004	ug/L
|	K	39	715453.876	0.950	-0.034	ug/L
|	Ca	43	1074.409	5.555	0.000	ug/L
|	Fe	54	26149.124	5.671	0.000	ug/L
|	Fe	57	7011.529	2.967	0.000	ug/L
|>	Sc-1	45	808349.148	2.711	808349.148	ug/L
	Kr	83	193.004	4.943	-16.667	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72					
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159					
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45					
	Kr	83					

Method 6020 - Summary Report

Sample ID: 1

Sample Date/Time: Friday, October 03, 2008 10:15:15
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\1.003
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	980.563	3.138	0.001	0.99937	9.15	ug/L
	B	11	4710.278	5.228	0.001	1.00000	10.09	ug/L
	Al	27	16914.192	5.963	0.015	1.00000	16.45	ug/L
>	Sc	45	804229.680	6.090	804229.680			ug/L
	Ti	47	1419.479	5.474	0.001	0.99268	29.32	ug/L
	V	51	14416.573	32.787	0.016	0.97295	41.66	ug/L
	Cr	52	23192.186	3.020	0.010	0.98141	9.10	ug/L
	Mn	55	12644.234	5.430	0.014	0.99718	1.48	ug/L
	Co	59	8626.930	5.160	0.011	1.00001	2.50	ug/L
	Ni	60	5844.978	1.904	0.001	1.03555	32.78	ug/L
	Cu	63	4059.779	2.403	0.022	0.99933	4.43	ug/L
	Cu	65	1992.091	2.241	0.010	1.00053	2.99	ug/L
	Zn	66	1697.687	0.781	0.007	0.97613	2.59	ug/L
	Zn	68	2779.002	1.495	0.006	0.95587	6.39	ug/L
>	Ge	72	173098.438	2.132	173098.438			ug/L
	As	75	1403.447	7.097	0.007	1.00001	7.80	ug/L
	Se	82	277.139	3.047	0.001	1.01189	5.17	ug/L
	Sr	88	15196.505	4.918	0.087	0.99831	3.20	ug/L
	Mo	95	2462.728	2.972	0.014	0.99989	4.53	ug/L
	Mo	98	3894.565	0.949	0.022	1.00055	1.43	ug/L
	Ag	107	6846.452	5.011	0.032	1.00080	0.88	ug/L
	Cd	111	1671.390	5.594	0.008	0.99918	3.44	ug/L
	Cd	114	3971.387	3.709	0.018	1.00197	7.96	ug/L
>	In	115	214604.435	4.356	214604.435			ug/L
	Sn	118	4960.983	2.067	0.022	0.99956	2.98	ug/L
	Sb	121	6003.405	4.381	0.027	0.99977	8.89	ug/L
	Sb	123	4452.462	5.082	0.020	1.00142	2.76	ug/L
	Ba	135	1501.147	2.357	0.004	0.99795	3.66	ug/L
	Ba	137	2507.101	6.356	0.007	0.99609	12.15	ug/L
>	Tb	159	334084.420	5.257	334084.420			ug/L
	Hg	202	456.347	0.512	0.001	0.20350	5.42	ug/L
	Tl	205	17333.697	3.518	0.051	0.99865	3.63	ug/L
	Pb	208	24080.346	1.544	0.072	0.99868	4.14	ug/L
	Na	23	22087.601	4.763	0.009			ug/L

|	Mg	24	5666.480	4.958	0.005	ug/L
|	K	39	698069.786	1.854	-0.050	ug/L
|	Ca	43	1097.745	3.101	0.000	ug/L
|	Fe	54	25314.421	1.614	-0.001	ug/L
|	Fe	57	6547.953	0.771	-0.000	ug/L
|>	Sc-1	45	804229.680	6.090	804229.680	ug/L
	Kr	83	213.338	3.326	3.667	ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72					
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159					
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45					
	Kr	83					

Method 6020 - Summary Report

Sample ID: 20

Sample Date/Time: Friday, October 03, 2008 10:21:35
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\20.004
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	18312.944	1.800	0.023	20.00144	8.60	ug/L
	B	11	25235.161	0.875	0.028	20.00399	11.22	ug/L
	Al	27	127110.472	1.685	0.157	19.95204	10.56	ug/L
>	Sc	45	784264.848	9.152	784264.848			ug/L
	Ti	47	13250.538	1.888	0.016	20.00561	10.31	ug/L
	V	51	170664.649	3.224	0.217	19.97494	10.74	ug/L
	Cr	52	154638.393	2.759	0.179	19.99126	7.32	ug/L
	Mn	55	222279.170	4.556	0.283	19.99995	6.59	ug/L
	Co	59	160741.065	3.121	0.206	19.99864	6.05	ug/L
	Ni	60	39061.613	3.231	0.044	20.02049	13.38	ug/L
	Cu	63	76396.148	3.048	0.446	20.00022	5.04	ug/L
	Cu	65	36680.789	2.648	0.214	20.00132	10.38	ug/L
	Zn	66	23983.672	1.827	0.137	19.99871	6.24	ug/L
	Zn	68	19235.190	1.461	0.102	19.99163	10.01	ug/L
>	Ge	72	171396.588	8.192	171396.588			ug/L
	As	75	24376.260	2.909	0.142	19.99750	10.64	ug/L
	Se	82	2887.268	2.728	0.016	20.00281	10.95	ug/L
	Sr	88	302408.382	3.148	1.774	20.00091	10.58	ug/L
	Mo	95	46858.045	3.133	0.274	20.00022	10.80	ug/L
	Mo	98	75046.384	5.288	0.440	20.00038	12.87	ug/L
	Ag	107	138166.560	2.987	0.639	20.00048	3.70	ug/L
	Cd	111	33426.638	2.145	0.155	20.00052	6.60	ug/L
	Cd	114	77613.540	1.684	0.359	19.99898	5.18	ug/L
>	In	115	216468.003	4.618	216468.003			ug/L
	Sn	118	100513.956	6.573	0.465	20.00170	10.96	ug/L
	Sb	121	110377.446	1.279	0.509	19.99722	4.09	ug/L
	Sb	123	85143.136	3.285	0.392	20.00005	1.52	ug/L
	Ba	135	28445.523	2.709	0.089	20.00096	0.64	ug/L
	Ba	137	50677.736	6.808	0.158	20.00359	8.34	ug/L
>	Tb	159	320198.027	2.109	320198.027			ug/L
	Hg	202	4011.379	1.719	0.012	2.00057	3.85	ug/L
	Tl	205	346881.394	2.136	1.083	20.00264	3.89	ug/L
	Pb	208	475332.400	0.283	1.484	20.00178	2.38	ug/L
	Na	23	160999.737	5.307	0.188	20.00000	15.05	ug/L

|	Mg	24	91332.998	4.580	0.115	20.00000	4.74	ug/L
|	K	39	845664.212	1.807	0.163	20.00000	47.04	ug/L
|	Ca	43	1560.825	3.237	0.001	20.00000	23.61	ug/L
|	Fe	54	38050.999	7.530	0.017	20.00000	46.91	ug/L
|	Fe	57	10966.316	3.103	0.006	20.00000	29.08	ug/L
|>	Sc-1	45	784264.848	9.152	784264.848			ug/L
	Kr	83	196.004	6.633	-13.667			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72					
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159					
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45					
	Kr	83					

Method 6020 - Summary Report

Sample ID: 100

Sample Date/Time: Friday, October 03, 2008 10:27:56
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\100.005
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	90290.078	1.732	0.115	99.94982	6.00	ug/L
	B	11	109398.299	3.730	0.135	99.89258	0.99	ug/L
	Al	27	583373.967	3.650	0.741	99.75102	8.01	ug/L
>	Sc	45	783252.400	4.628	783252.400			ug/L
	Ti	47	59931.208	1.868	0.076	99.79463	5.77	ug/L
	V	51	780627.162	2.624	0.996	99.66170	6.88	ug/L
	Cr	52	653396.564	4.145	0.816	99.61652	1.37	ug/L
	Mn	55	1044253.784	5.069	1.332	99.76197	1.61	ug/L
	Co	59	765550.958	5.595	0.977	99.80058	1.94	ug/L
	Ni	60	167394.873	2.403	0.208	99.76196	6.72	ug/L
	Cu	63	356645.274	5.869	2.111	99.78727	4.46	ug/L
	Cu	65	176980.341	3.452	1.048	99.91773	4.96	ug/L
	Zn	66	111668.452	2.817	0.659	99.83287	1.30	ug/L
	Zn	68	83331.462	0.921	0.484	99.77187	2.44	ug/L
>	Ge	72	168738.247	1.532	168738.247			ug/L
	As	75	117821.999	1.886	0.698	99.92032	2.07	ug/L
	Se	82	13062.050	2.189	0.077	99.80223	3.74	ug/L
	Sr	88	1429767.805	4.842	8.478	99.82277	6.24	ug/L
	Mo	95	226180.834	0.655	1.340	99.90778	1.65	ug/L
	Mo	98	366534.240	4.185	2.173	99.94919	5.68	ug/L
	Ag	107	661192.427	0.419	3.165	99.96653	2.71	ug/L
	Cd	111	159656.545	3.821	0.765	99.95818	6.00	ug/L
	Cd	114	364895.080	3.347	1.746	99.89309	1.95	ug/L
>	In	115	208979.715	2.974	208979.715			ug/L
	Sn	118	479292.520	6.914	2.296	99.94960	8.93	ug/L
	Sb	121	530239.061	2.492	2.537	99.98529	3.24	ug/L
	Sb	123	420363.983	0.137	2.012	100.09529	2.89	ug/L
	Ba	135	137892.101	1.391	0.464	100.17467	8.00	ug/L
	Ba	137	244079.029	4.833	0.823	100.15106	11.15	ug/L
>	Tb	159	297967.314	7.112	297967.314			ug/L
	Hg	202	9615.740	1.340	0.032	5.02783	8.23	ug/L
	Tl	205	1549121.219	1.578	5.220	99.85556	8.70	ug/L
	Pb	208	2230210.507	0.439	7.510	100.04572	7.34	ug/L
	Na	23	712932.709	4.616	0.894	99.79694	9.16	ug/L

|	Mg	24	428789.969	5.905	0.546	99.78965	2.28	ug/L
|	K	39	1391758.015	1.253	0.859	100.19267	6.98	ug/L
|	Ca	43	3502.797	1.398	0.003	99.14789	8.01	ug/L
|	Fe	54	85060.079	7.784	0.077	99.65426	17.08	ug/L
|	Fe	57	29071.541	3.440	0.029	100.05595	10.00	ug/L
|>	Sc-1	45	783252.400	4.628	783252.400			ug/L
	Kr	83	189.671	5.121	-20.001			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72					
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159					
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45					
	Kr	83					

Method 6020 - Summary Report

Sample ID: 1000

Sample Date/Time: Friday, October 03, 2008 10:34:17
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\1000.006
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	68.334	6.599	0.000	0.00102	768.18	ug/L
	B	11	4677.448	16.583	0.001	1.06313	40.22	ug/L
	Al	27	5190.249	5.037	0.001	0.14186	54.52	ug/L
>	Sc	45	773702.401	6.696	773702.401			ug/L
	Ti	47	864.391	9.394	0.000	0.07223	290.69	ug/L
	V	51	355.478	1592.356	-0.002	-0.17028	416.71	ug/L
	Cr	52	16577.950	3.577	0.003	0.35124	36.19	ug/L
	Mn	55	1705.349	5.105	0.001	0.04465	33.78	ug/L
	Co	59	367.679	18.240	0.000	0.02949	33.78	ug/L
	Ni	60	3984.096	2.526	-0.001	-0.35411	28.12	ug/L
	Cu	63	273.674	17.280	0.000	0.01604	102.86	ug/L
	Cu	65	196.503	13.835	0.000	0.00969	206.22	ug/L
	Zn	66	784.873	3.685	0.002	0.26249	12.77	ug/L
	Zn	68	2233.991	1.287	0.003	0.60034	17.69	ug/L
>	Ge	72	168341.332	3.833	168341.332			ug/L
	As	75	302.285	28.394	0.001	0.16306	39.66	ug/L
	Se	82	138.081	2.604	-0.000	-0.01149	526.63	ug/L
	Sr	88	306.009	28.279	0.001	0.01228	56.74	ug/L
	Mo	95	157.835	10.838	0.000	0.02742	32.69	ug/L
	Mo	98	187.383	8.776	0.000	0.02189	21.39	ug/L
	Ag	107	87.001	30.649	0.000	0.00508	71.83	ug/L
	Cd	111	37.839	23.991	0.000	0.00425	124.53	ug/L
	Cd	114	58.135	58.490	0.000	0.00281	308.97	ug/L
>	In	115	217160.074	3.411	217160.074			ug/L
	Sn	118	218.672	9.780	0.000	0.01581	34.06	ug/L
	Sb	121	1914.264	20.716	0.008	0.30122	28.30	ug/L
	Sb	123	1453.077	25.632	0.006	0.27930	34.92	ug/L
	Ba	135	61.167	18.138	0.000	0.00733	89.71	ug/L
	Ba	137	79.668	26.637	0.000	0.00566	138.42	ug/L
>	Tb	159	321769.503	4.375	321769.503			ug/L
	Hg	202	176.535	9.377	0.000	0.06333	11.76	ug/L
	Tl	205	337.678	30.671	0.000	0.00860	67.84	ug/L
	Pb	208	543.680	28.734	0.001	0.01442	43.13	ug/L
	Na	23	6702151.154	1.974	8.666	999.65314	6.02	ug/L

|	Mg	24	4271403.245	3.747	5.531	1000.11755	5.95	ug/L
|	K	39	8064463.798	5.894	9.526	1001.03099	8.43	ug/L
|	Ca	43	15315.738	2.469	0.019	992.07896	6.15	ug/L
|	Fe	54	550132.018	1.683	0.680	998.64526	5.29	ug/L
|	Fe	57	226566.841	4.046	0.285	999.91137	8.38	ug/L
|>	Sc-1	45	773702.401	6.696	773702.401			ug/L
	Kr	83	174.337	11.187	-35.335			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72					
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159					
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45					
	Kr	83					

Method 6020 - Summary Report

Sample ID: 10000

Sample Date/Time: Friday, October 03, 2008 10:40:40
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\10000.007
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	62.000	5.036	-0.000	-0.00424	53.70	ug/L
	B	11	3581.000	2.170	0.000	0.13958	69.66	ug/L
	Al	27	6580.999	4.576	0.003	0.41685	17.79	ug/L
>	Sc	45	750822.326	1.840	750822.326			ug/L
	Ti	47	907.063	2.985	0.000	0.18554	41.09	ug/L
	V	51	-207.294	3245.352	-0.003	-0.26509	334.73	ug/L
	Cr	52	15917.196	1.052	0.003	0.31906	8.13	ug/L
	Mn	55	4270.426	2.681	0.004	0.30515	3.75	ug/L
	Co	59	1455.487	10.109	0.002	0.17861	9.25	ug/L
	Ni	60	3956.044	4.346	-0.001	-0.30146	30.70	ug/L
	Cu	63	483.687	3.400	0.001	0.06649	7.63	ug/L
	Cu	65	242.504	2.789	0.000	0.02710	22.74	ug/L
	Zn	66	1091.744	0.675	0.003	0.47961	4.02	ug/L
	Zn	68	2311.181	2.445	0.003	0.52417	20.72	ug/L
>	Ge	72	179053.703	1.970	179053.703			ug/L
	As	75	240.621	78.906	0.001	0.09900	149.73	ug/L
	Se	82	137.332	5.019	-0.000	-0.08253	45.16	ug/L
	Sr	88	1085.421	5.349	0.005	0.06207	4.89	ug/L
	Mo	95	187.502	3.946	0.000	0.03550	13.06	ug/L
	Mo	98	241.396	7.289	0.001	0.03262	10.21	ug/L
	Ag	107	80.335	8.003	0.000	0.00487	38.58	ug/L
	Cd	111	27.600	29.265	-0.000	-0.00090	608.26	ug/L
	Cd	114	45.076	5.234	0.000	0.00020	795.91	ug/L
>	In	115	206135.099	7.990	206135.099			ug/L
	Sn	118	196.004	12.786	0.000	0.01348	46.63	ug/L
	Sb	121	1045.082	5.700	0.004	0.15274	14.07	ug/L
	Sb	123	825.505	10.456	0.003	0.14478	20.31	ug/L
	Ba	135	68.167	4.993	0.000	0.01573	27.69	ug/L
	Ba	137	97.668	3.291	0.000	0.01532	1.34	ug/L
>	Tb	159	298742.707	3.777	298742.707			ug/L
	Hg	202	140.535	7.696	0.000	0.05104	6.13	ug/L
	Tl	205	178.337	10.526	-0.000	-0.00001	12484.05	ug/L
	Pb	208	2433.172	2.032	0.008	0.10051	3.44	ug/L
	Na	23	69124836.882	3.108	92.034	10005.81465	1.44	ug/L

|	Mg	24	42732915.557	0.934	56.920	10002.84210	0.98	ug/L
|	K	39	72312728.926	2.014	95.391	10000.23674	0.72	ug/L
|	Ca	43	141865.749	4.457	0.188	9999.97405	6.22	ug/L
|	Fe	54	5118569.583	2.025	6.786	9999.60695	2.48	ug/L
|	Fe	57	2143480.255	4.125	2.848	9999.78756	5.25	ug/L
|>	Sc-1	45	750822.326	1.840	750822.326			ug/L
	Kr	83	176.670	10.319	-33.001			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72					
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159					
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45					
	Kr	83					

Method 6020 - Summary Report

Sample ID: ICV

Sample Date/Time: Friday, October 03, 2008 10:47:27
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\ICV.008
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	23240.055	0.742	0.029	24.90091	7.06	ug/L
	B	11	31282.723	4.248	0.034	25.26276	4.91	ug/L
	Al	27	152395.393	7.428	0.184	24.75382	13.85	ug/L
>	Sc	45	808288.934	6.330	808288.934			ug/L
	Ti	47	16318.165	6.249	0.019	25.38004	13.02	ug/L
	V	51	207833.880	4.730	0.255	25.53035	6.95	ug/L
	Cr	52	193687.889	5.241	0.221	27.00930	2.71	ug/L
	Mn	55	293256.575	6.161	0.361	27.06913	2.64	ug/L
	Co	59	211486.452	3.712	0.262	26.73950	3.07	ug/L
	Ni	60	45857.871	2.104	0.051	24.44645	9.10	ug/L
	Cu	63	95927.726	5.073	0.543	25.68505	4.88	ug/L
	Cu	65	45106.195	4.389	0.255	24.31752	4.68	ug/L
	Zn	66	30310.961	2.561	0.169	25.64826	3.42	ug/L
	Zn	68	23321.466	0.293	0.122	25.19569	3.34	ug/L
>	Ge	72	176120.198	2.927	176120.198			ug/L
	As	75	31045.666	2.543	0.176	25.15729	1.63	ug/L
	Se	82	3536.336	3.034	0.019	25.08383	3.17	ug/L
	Sr	88	399520.928	5.976	2.268	26.70485	5.65	ug/L
	Mo	95	60051.869	3.678	0.340	25.37489	0.88	ug/L
	Mo	98	96165.629	4.329	0.546	25.09812	4.80	ug/L
	Ag	107	162507.775	3.297	0.744	23.48437	8.12	ug/L
	Cd	111	39918.866	3.821	0.183	23.87019	8.46	ug/L
	Cd	114	97768.255	6.126	0.446	25.53322	4.83	ug/L
>	In	115	219049.629	4.972	219049.629			ug/L
	Sn	118	120201.926	6.430	0.550	23.95042	11.54	ug/L
	Sb	121	141169.328	3.990	0.644	25.38239	5.43	ug/L
	Sb	123	106696.859	3.416	0.487	24.24811	8.30	ug/L
	Ba	135	37672.367	1.342	0.114	24.56059	9.03	ug/L
	Ba	137	63393.362	7.309	0.192	23.40751	15.97	ug/L
>	Tb	159	332150.920	8.554	332150.920			ug/L
	Hg	202	2576.165	1.665	0.008	1.19392	10.46	ug/L
	Tl	205	443795.012	4.699	1.343	25.68525	10.21	ug/L
	Pb	208	585127.480	2.319	1.770	23.58181	9.31	ug/L
	Na	23	14314877.670	2.853	17.752	1929.94020	8.48	ug/L

|	Mg	24	9448910.847	3.735	11.705	2057.05118	4.14	ug/L
|	K	39	16444614.485	6.266	19.434	2037.31265	3.71	ug/L
|	Ca	43	30965.753	3.524	0.037	1982.81275	9.57	ug/L
|	Fe	54	1083095.033	3.092	1.313	1934.87726	9.72	ug/L
|	Fe	57	451732.917	4.308	0.553	1940.82217	10.22	ug/L
|>	Sc-1	45	808288.934	6.330	808288.934			ug/L
	Kr	83	169.004	2.959	-40.668			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	99.604				
	B	11	101.051				
	Al	27	99.015				
>	Sc	45		104.195			
	Ti	47	101.520				
	V	51	102.121				
	Cr	52	108.037				
	Mn	55	108.277				
	Co	59	106.958				
	Ni	60	97.786				
	Cu	63	102.740				
	Cu	65	97.270				
	Zn	66	102.593				
	Zn	68	100.783				
>	Ge	72		101.222			
	As	75	100.629				
	Se	82	100.335				
	Sr	88	106.819				
	Mo	95	101.500				
	Mo	98	100.392				
	Ag	107	93.937				
	Cd	111	95.481				
	Cd	114	102.133				
>	In	115		99.180			
	Sn	118	95.802				
	Sb	121	101.530				
	Sb	123	96.992				
	Ba	135	98.242				
	Ba	137	93.630				
>	Tb	159		103.822			
	Hg	202	95.513				
	Tl	205	102.741				
	Pb	208	94.327				
	Na	23	95.306				
	Mg	24	101.583				
	K	39	100.608				
	Ca	43	97.917				
	Fe	54	95.549				
	Fe	57	95.843				
>	Sc-1	45		104.195			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ICB

Sample Date/Time: Friday, October 03, 2008 10:53:46
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\ICB.009
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	60.834	6.844	-0.000	-0.00844	68.42	ug/L
	B	11	3852.802	7.632	0.000	0.24944	125.80	ug/L
	Al	27	3801.998	4.884	-0.001	-0.10968	52.80	ug/L
>	Sc	45	784407.335	5.611	784407.335			ug/L
	Ti	47	828.053	1.579	-0.000	-0.01357	630.84	ug/L
	V	51	882.418	641.255	-0.002	-0.16049	445.32	ug/L
	Cr	52	16497.868	1.446	0.002	0.30241	36.55	ug/L
	Mn	55	1215.797	4.814	-0.000	-0.00485	58.41	ug/L
	Co	59	152.336	3.616	0.000	0.00068	262.58	ug/L
	Ni	60	3332.734	0.960	-0.002	-0.78624	13.01	ug/L
	Cu	63	199.671	13.810	-0.000	-0.00377	273.61	ug/L
	Cu	65	179.835	5.219	0.000	0.00197	497.96	ug/L
	Zn	66	454.180	3.006	-0.000	-0.02748	82.12	ug/L
	Zn	68	2050.940	0.389	0.002	0.42492	30.08	ug/L
>	Ge	72	165236.251	5.022	165236.251			ug/L
	As	75	73.947	348.334	-0.000	-0.02855	804.89	ug/L
	Se	82	139.870	4.715	0.000	0.02217	235.75	ug/L
	Sr	88	174.004	3.589	0.000	0.00313	27.10	ug/L
	Mo	95	102.501	9.113	0.000	0.00358	79.18	ug/L
	Mo	98	119.043	8.777	0.000	0.00376	47.20	ug/L
	Ag	107	54.667	28.418	0.000	0.00055	461.27	ug/L
	Cd	111	38.860	20.963	0.000	0.00521	108.14	ug/L
	Cd	114	42.715	6.325	-0.000	-0.00100	102.62	ug/L
>	In	115	214864.556	2.577	214864.556			ug/L
	Sn	118	147.336	9.039	0.000	0.00177	178.13	ug/L
	Sb	121	1067.420	19.410	0.004	0.14721	22.88	ug/L
	Sb	123	845.896	16.370	0.003	0.13979	19.88	ug/L
	Ba	135	48.500	5.455	-0.000	-0.00031	994.67	ug/L
	Ba	137	53.667	7.055	-0.000	-0.00370	51.85	ug/L
>	Tb	159	315072.095	4.331	315072.095			ug/L
	Hg	202	111.401	5.600	0.000	0.03298	12.89	ug/L
	Tl	205	304.676	10.612	0.000	0.00707	25.38	ug/L
	Pb	208	292.672	15.841	0.000	0.00436	54.95	ug/L
	Na	23	13870.651	4.624	-0.001	-0.11379	109.51	ug/L

|	Mg	24	1437.489	27.389	0.000	0.02875	318.82	ug/L
|	K	39	703933.134	0.198	-0.020	-2.14400	249.99	ug/L
|	Ca	43	1129.083	1.895	0.000	12.97831	23.32	ug/L
|	Fe	54	25763.461	3.835	0.001	1.00270	419.16	ug/L
|	Fe	57	6300.746	0.769	-0.000	-1.25062	138.52	ug/L
|>	Sc-1	45	784407.335	5.611	784407.335			ug/L
	Kr	83	176.337	8.205	-33.334			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		101.116			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		94.967			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		97.285			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.484			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		101.116			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ICSA

Sample Date/Time: Friday, October 03, 2008 11:00:04
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\ICSA.010
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	52.167	7.445	-0.000	-0.01063	69.69	ug/L
	B	11	4047.232	2.673	0.001	0.91787	30.35	ug/L
	Al	27	252118658.201	3.499	362.580	48812.87544	5.90	ug/L
>	Sc	45	697107.884	7.377	697107.884			ug/L
	Ti	47	634538.626	4.073	0.911	1202.77144	4.25	ug/L
	V	51	1255.573	588.074	-0.001	-0.07780	1338.25	ug/L
	Cr	52	18745.364	0.857	0.008	1.02554	23.65	ug/L
	Mn	55	24402.305	1.732	0.034	2.51201	8.65	ug/L
	Co	59	7180.094	5.093	0.010	1.03420	2.99	ug/L
	Ni	60	3357.335	7.547	-0.001	-0.51559	27.69	ug/L
	Cu	63	4163.168	2.644	0.024	1.11404	3.38	ug/L
	Cu	65	4255.679	5.089	0.024	2.32119	6.09	ug/L
	Zn	66	3509.135	4.952	0.018	2.72927	2.03	ug/L
	Zn	68	2051.107	2.309	0.002	0.39058	42.49	ug/L
>	Ge	72	167623.160	5.910	167623.160			ug/L
	As	75	391.386	116.202	0.002	0.25661	159.62	ug/L
	Se	82	165.875	0.971	0.000	0.21112	41.26	ug/L
	Sr	88	6066.122	5.054	0.035	0.41698	1.18	ug/L
	Mo	95	2173520.464	0.903	12.993	968.66399	5.21	ug/L
	Mo	98	3607004.451	1.796	21.565	991.96848	5.75	ug/L
	Ag	107	180.004	4.194	0.001	0.02087	11.25	ug/L
	Cd	111	379.439	29.531	0.002	0.22714	27.52	ug/L
	Cd	114	5659.555	7.131	0.028	1.60664	11.50	ug/L
>	In	115	200784.348	6.548	200784.348			ug/L
	Sn	118	183.671	3.625	0.000	0.01184	29.51	ug/L
	Sb	121	908.063	10.068	0.003	0.13093	19.13	ug/L
	Sb	123	679.592	11.869	0.002	0.11298	18.49	ug/L
	Ba	135	822.877	1.582	0.003	0.56541	4.75	ug/L
	Ba	137	1380.471	5.853	0.004	0.54312	10.24	ug/L
>	Tb	159	296858.371	5.713	296858.371			ug/L
	Hg	202	108.467	4.427	0.000	0.03477	2.74	ug/L
	Tl	205	231.672	5.634	0.000	0.00351	11.00	ug/L
	Pb	208	1497.739	2.260	0.004	0.05935	9.25	ug/L
	Na	23	314381585.058	7.021	453.980	49356.09487	13.74	ug/L

|	Mg	24	191217949.548	3.524	274.907	48311.11540	4.96	ug/L
|	K	39	328525857.123	4.985	471.102	49387.52662	4.26	ug/L
|	Ca	43	663587.836	1.144	0.955	50807.87965	8.34	ug/L
|	Fe	54	24243437.586	7.133	34.987	51553.74901	14.14	ug/L
|	Fe	57	10181239.552	1.518	14.659	51473.82406	8.64	ug/L
|>	Sc-1	45	697107.884	7.377	697107.884			ug/L
	Kr	83	256.340	9.144	46.669			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27	97.626				
>	Sc	45		89.863			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		96.339			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		90.910			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.791			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23	98.712				
	Mg	24	96.622				
	K	39	98.775				
	Ca	43	101.616				
	Fe	54	103.107				
	Fe	57	102.948				
>	Sc-1	45		89.863			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Friday, October 03, 2008 11:06:23
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\ICSAB.011
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	59.167	3.518	-0.000	-0.00413	35.99	ug/L
	B	11	3547.819	4.066	0.000	0.27753	35.56	ug/L
	Al	27	250598659.751	2.518	350.353	47166.77214	4.01	ug/L
>	Sc	45	715572.083	1.750	715572.083			ug/L
	Ti	47	615087.702	5.251	0.859	1134.53702	6.95	ug/L
	V	51	139923.404	4.408	0.193	19.31992	5.15	ug/L
	Cr	52	77825.838	2.658	0.090	11.00977	1.45	ug/L
	Mn	55	120943.575	3.256	0.167	12.54173	2.62	ug/L
	Co	59	144589.841	3.624	0.202	20.61991	2.91	ug/L
	Ni	60	30740.340	0.651	0.037	17.75831	1.62	ug/L
	Cu	63	34201.254	3.137	0.194	9.17406	3.83	ug/L
	Cu	65	18348.196	1.988	0.104	9.88896	2.22	ug/L
	Zn	66	13256.247	1.346	0.073	11.03137	0.55	ug/L
	Zn	68	8738.632	3.723	0.040	8.16004	5.00	ug/L
>	Ge	72	175051.436	1.050	175051.436			ug/L
	As	75	11451.160	7.229	0.065	9.28026	8.04	ug/L
	Se	82	1385.379	2.659	0.007	9.23018	3.62	ug/L
	Sr	88	5778.228	2.201	0.032	0.37936	1.59	ug/L
	Mo	95	2115802.348	5.927	12.087	901.10880	5.94	ug/L
	Mo	98	3466800.061	2.544	19.805	911.04087	2.78	ug/L
	Ag	107	54391.950	3.045	0.275	8.68602	2.97	ug/L
	Cd	111	7496.905	3.164	0.038	4.94283	4.19	ug/L
	Cd	114	22087.806	5.150	0.112	6.40335	11.16	ug/L
>	In	115	197806.780	5.699	197806.780			ug/L
	Sn	118	254.340	5.280	0.001	0.02803	18.85	ug/L
	Sb	121	616.698	7.768	0.002	0.07498	13.38	ug/L
	Sb	123	494.236	6.163	0.001	0.06870	8.43	ug/L
	Ba	135	860.215	1.636	0.003	0.59561	5.72	ug/L
	Ba	137	1534.502	2.193	0.005	0.60807	3.27	ug/L
>	Tb	159	295369.724	4.158	295369.724			ug/L
	Hg	202	2380.235	1.406	0.008	1.23505	3.37	ug/L
	Tl	205	170.670	13.366	-0.000	-0.00039	306.39	ug/L
	Pb	208	9625.100	1.986	0.032	0.42631	2.54	ug/L
	Na	23	309103970.001	6.787	431.721	46936.12454	5.15	ug/L

|	Mg	24	192886147.737	1.291	269.569	47372.96485	0.56	ug/L
|	K	39	331519896.644	3.128	462.310	48465.82116	1.58	ug/L
|	Ca	43	649440.873	3.464	0.906	48232.44321	2.04	ug/L
|	Fe	54	23586252.101	6.648	32.912	48496.05162	4.98	ug/L
|	Fe	57	9938409.450	4.138	13.881	48742.45235	3.94	ug/L
|>	Sc-1	45	715572.083	1.750	715572.083			ug/L
	Kr	83	258.007	15.402	48.335			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27	94.334				
>	Sc	45		92.243			
	Ti	47	113.454				
	V	51	96.600				
	Cr	52	110.098				
	Mn	55	125.417				
	Co	59	103.100				
	Ni	60	88.792				
	Cu	63	91.741				
	Cu	65	98.890				
	Zn	66	110.314				
	Zn	68	81.600				
>	Ge	72		100.608			
	As	75	92.803				
	Se	82	92.302				
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107	86.860				
	Cd	111	98.857				
	Cd	114	128.067				
>	In	115		89.561			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.325			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23	93.872				
	Mg	24	94.746				
	K	39	96.932				
	Ca	43	96.465				
	Fe	54	96.992				
	Fe	57	97.485				
>	Sc-1	45		92.243			
	Kr	83					

Method 6020 - Summary Report

Sample ID: CCV

Sample Date/Time: Friday, October 03, 2008 11:14:39
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\CCV.012
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	45157.816	4.200	0.062	53.80685	5.69	ug/L
	B	11	53690.777	5.593	0.069	51.21738	2.53	ug/L
	Al	27	285621.295	6.069	0.388	52.23506	8.20	ug/L
>	Sc	45	726603.743	3.802	726603.743			ug/L
	Ti	47	29568.769	4.769	0.040	52.36041	5.34	ug/L
	V	51	369160.477	6.575	0.505	50.54997	3.49	ug/L
	Cr	52	331847.258	1.965	0.438	53.53010	2.48	ug/L
	Mn	55	514047.449	4.878	0.706	52.88416	2.99	ug/L
	Co	59	383011.754	1.260	0.527	53.86285	2.77	ug/L
	Ni	60	80030.976	1.605	0.104	49.99402	4.43	ug/L
	Cu	63	172583.067	3.037	1.055	49.86859	5.26	ug/L
	Cu	65	83020.344	1.628	0.507	48.30633	0.91	ug/L
	Zn	66	53983.630	1.646	0.327	49.60385	1.12	ug/L
	Zn	68	40851.874	1.568	0.240	49.44013	3.63	ug/L
>	Ge	72	163485.403	2.456	163485.403			ug/L
	As	75	56406.919	1.126	0.345	49.34072	2.62	ug/L
	Se	82	6337.705	1.017	0.038	49.43794	2.32	ug/L
	Sr	88	752008.271	7.300	4.596	54.11396	5.09	ug/L
	Mo	95	108775.077	2.805	0.665	49.57790	3.39	ug/L
	Mo	98	175558.107	0.359	1.074	49.38932	2.74	ug/L
	Ag	107	300221.824	6.316	1.492	47.11803	4.02	ug/L
	Cd	111	75384.836	1.962	0.375	49.01848	3.77	ug/L
	Cd	114	179284.615	4.529	0.893	51.10704	8.89	ug/L
>	In	115	201177.865	4.513	201177.865			ug/L
	Sn	118	228221.186	3.452	1.136	49.45978	7.50	ug/L
	Sb	121	258670.844	5.282	1.288	50.76543	9.70	ug/L
	Sb	123	200988.826	5.633	0.998	49.65496	3.01	ug/L
	Ba	135	67401.591	2.101	0.230	49.51664	3.71	ug/L
	Ba	137	118544.466	2.927	0.404	49.12857	4.56	ug/L
>	Tb	159	293679.618	3.756	293679.618			ug/L
	Hg	202	4783.287	2.094	0.016	2.51941	4.77	ug/L
	Tl	205	839830.011	5.779	2.858	54.68123	3.57	ug/L
	Pb	208	1116392.890	4.320	3.802	50.64605	3.76	ug/L
	Na	23	27319985.836	5.477	37.584	4086.10431	4.16	ug/L

|	Mg	24	17009798.148	1.042	23.427	4116.89999	3.15	ug/L
|	K	39	28850493.203	4.369	38.784	4065.90512	1.82	ug/L
|	Ca	43	56960.286	3.531	0.077	4109.76689	2.66	ug/L
|	Fe	54	1965037.474	6.008	2.672	3937.03090	4.23	ug/L
|	Fe	57	832483.881	1.981	1.138	3997.56389	4.33	ug/L
|>	Sc-1	45	726603.743	3.802	726603.743			ug/L
	Kr	83	169.337	4.472	-40.335			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9	107.614				
	B	11	102.435				
	Al	27	104.470				
>	Sc	45		93.665			
	Ti	47	104.721				
	V	51	101.100				
	Cr	52	107.060				
	Mn	55	105.768				
	Co	59	107.726				
	Ni	60	99.988				
	Cu	63	99.737				
	Cu	65	96.613				
	Zn	66	99.208				
	Zn	68	98.880				
>	Ge	72		93.960			
	As	75	98.681				
	Se	82	98.876				
	Sr	88	108.228				
	Mo	95	99.156				
	Mo	98	98.779				
	Ag	107	94.236				
	Cd	111	98.037				
	Cd	114	102.214				
>	In	115		91.088			
	Sn	118	98.920				
	Sb	121	101.531				
	Sb	123	99.310				
	Ba	135	99.033				
	Ba	137	98.257				
>	Tb	159		91.797			
	Hg	202	100.776				
	Tl	205	109.362				
	Pb	208	101.292				
	Na	23	100.891				
	Mg	24	101.652				
	K	39	100.393				
	Ca	43	101.476				
	Fe	54	97.211				
	Fe	57	98.705				
>	Sc-1	45		93.665			
	Kr	83					

Method 6020 - Summary Report

Sample ID: CCB

Sample Date/Time: Friday, October 03, 2008 11:20:54
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\CCB.013
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	57.667	7.272	-0.000	-0.00701	103.71	ug/L
	B	11	4032.726	5.704	0.001	0.70464	25.33	ug/L
	Al	27	6955.560	17.015	0.004	0.53707	60.87	ug/L
>	Sc	45	730106.678	8.582	730106.678			ug/L
	Ti	47	867.058	8.365	0.000	0.16337	100.31	ug/L
	V	51	4296.225	99.471	0.003	0.31007	178.67	ug/L
	Cr	52	15207.661	4.315	0.002	0.28023	43.44	ug/L
	Mn	55	1913.073	5.118	0.001	0.07573	11.45	ug/L
	Co	59	134.669	10.510	-0.000	-0.00031	737.45	ug/L
	Ni	60	2076.320	2.650	-0.003	-1.45711	7.41	ug/L
	Cu	63	190.338	3.728	-0.000	-0.00580	11.14	ug/L
	Cu	65	157.835	4.839	-0.000	-0.00923	83.31	ug/L
	Zn	66	442.346	1.933	-0.000	-0.03159	23.31	ug/L
	Zn	68	1686.518	2.304	0.000	0.00475	1830.26	ug/L
>	Ge	72	162354.334	3.563	162354.334			ug/L
	As	75	329.224	16.782	0.001	0.19768	22.37	ug/L
	Se	82	128.202	6.547	-0.000	-0.05058	199.86	ug/L
	Sr	88	180.004	7.093	0.000	0.00379	36.19	ug/L
	Mo	95	177.502	6.497	0.001	0.03894	15.25	ug/L
	Mo	98	245.964	7.898	0.001	0.04043	16.48	ug/L
	Ag	107	46.334	10.200	-0.000	-0.00036	221.49	ug/L
	Cd	111	24.960	17.997	-0.000	-0.00254	113.87	ug/L
	Cd	114	38.093	14.040	-0.000	-0.00172	88.27	ug/L
>	In	115	204200.393	1.022	204200.393			ug/L
	Sn	118	145.670	6.945	0.000	0.00292	64.84	ug/L
	Sb	121	1333.466	23.186	0.005	0.20943	28.77	ug/L
	Sb	123	1093.586	21.547	0.004	0.21088	27.42	ug/L
	Ba	135	65.167	7.685	0.000	0.01217	46.51	ug/L
	Ba	137	86.001	6.042	0.000	0.00957	35.07	ug/L
>	Tb	159	308299.659	5.036	308299.659			ug/L
	Hg	202	123.001	9.268	0.000	0.04002	13.95	ug/L
	Tl	205	355.012	29.056	0.001	0.01055	55.38	ug/L
	Pb	208	394.341	4.321	0.001	0.00900	11.81	ug/L
	Na	23	17741.014	7.103	0.006	0.62597	66.52	ug/L

|	Mg	24	5472.405	23.337	0.006	1.03992	35.72	ug/L
|	K	39	619094.631	0.486	-0.068	-7.09961	105.73	ug/L
|	Ca	43	1184.258	1.951	0.000	22.92856	26.03	ug/L
|	Fe	54	23249.122	3.008	-0.000	-0.33014	1547.29	ug/L
|	Fe	57	5847.556	1.841	-0.000	-1.23030	239.61	ug/L
|>	Sc-1	45	730106.678	8.582	730106.678			ug/L
	Kr	83	165.003	12.257	-44.668			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		94.117			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		93.310			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		92.456			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.367			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		94.117			
	Kr	83					

Method 6020 - Summary Report

Sample ID: MB081001-6,5

Sample Date/Time: Friday, October 03, 2008 11:42:29
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\MB081001-6,5.014
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	58.000	9.791	-0.000	-0.00599	121.71	ug/L
	B	11	3730.072	4.719	0.001	0.43751	24.33	ug/L
	Al	27	6296.424	12.766	0.003	0.41704	48.85	ug/L
>	Sc	45	721375.422	5.512	721375.422			ug/L
	Ti	47	845.389	11.684	0.000	0.14281	157.90	ug/L
	V	51	-1981.966	249.020	-0.005	-0.53065	127.62	ug/L
	Cr	52	17959.254	5.125	0.006	0.77126	10.95	ug/L
	Mn	55	1581.893	4.984	0.001	0.04342	18.11	ug/L
	Co	59	123.002	13.310	-0.000	-0.00186	77.41	ug/L
	Ni	60	2065.593	2.746	-0.003	-1.45036	6.79	ug/L
	Cu	63	150.670	4.662	-0.000	-0.01782	15.30	ug/L
	Cu	65	153.168	5.751	-0.000	-0.01298	67.24	ug/L
	Zn	66	908.387	2.715	0.003	0.39475	14.53	ug/L
	Zn	68	2223.488	2.206	0.003	0.65580	24.00	ug/L
>	Ge	72	164322.526	4.322	164322.526			ug/L
	As	75	185.137	105.231	0.000	0.06501	251.82	ug/L
	Se	82	128.350	4.827	-0.000	-0.06391	36.09	ug/L
	Sr	88	233.673	9.041	0.001	0.00747	22.81	ug/L
	Mo	95	96.501	8.655	0.000	0.00117	328.80	ug/L
	Mo	98	104.961	11.317	-0.000	-0.00003	7288.54	ug/L
	Ag	107	42.334	11.653	-0.000	-0.00082	103.27	ug/L
	Cd	111	32.103	16.969	0.000	0.00256	159.21	ug/L
	Cd	114	40.762	10.325	-0.000	-0.00067	245.91	ug/L
>	In	115	199626.149	3.929	199626.149			ug/L
	Sn	118	158.003	14.803	0.000	0.00625	60.13	ug/L
	Sb	121	388.681	20.325	0.001	0.02843	45.87	ug/L
	Sb	123	310.504	12.546	0.000	0.02155	32.32	ug/L
	Ba	135	66.667	6.928	0.000	0.01495	19.07	ug/L
	Ba	137	91.335	3.845	0.000	0.01307	11.90	ug/L
>	Tb	159	296075.994	1.026	296075.994			ug/L
	Hg	202	82.800	1.917	0.000	0.02137	1.84	ug/L
	Tl	205	165.337	7.010	-0.000	-0.00073	115.93	ug/L
	Pb	208	279.005	16.394	0.000	0.00448	42.95	ug/L
	Na	23	22671.354	6.738	0.013	1.38448	21.58	ug/L

|	Mg	24	7737.015	13.770	0.009	1.59464	17.80	ug/L
|	K	39	634978.714	1.006	-0.038	-3.94380	139.70	ug/L
|	Ca	43	1273.939	2.681	0.001	30.37207	12.30	ug/L
|	Fe	54	25207.273	7.148	0.003	4.07905	121.85	ug/L
|	Fe	57	6112.595	1.507	0.000	0.29035	551.48	ug/L
|>	Sc-1	45	721375.422	5.512	721375.422			ug/L
	Kr	83	204.005	4.727	-5.667			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		92.991			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		94.442			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		90.385			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		92.546			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		92.991			
	Kr	83					

Method 6020 - Summary Report

Sample ID: LCS081001-6,5

Sample Date/Time: Friday, October 03, 2008 11:48:28
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\LCS081001-6,5.015
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	34166.022	5.424	0.048	41.73853	6.18	ug/L
	B	11	377677.906	5.344	0.529	390.86737	4.18	ug/L
	Al	27	2140439.600	8.934	3.028	407.65230	13.14	ug/L
>	Sc	45	708536.740	5.357	708536.740			ug/L
	Ti	47	218999.464	9.042	0.309	407.97651	12.07	ug/L
	V	51	2923183.393	7.674	4.138	413.99084	11.70	ug/L
	Cr	52	2463273.701	5.561	3.459	422.42478	3.93	ug/L
	Mn	55	390819.386	4.324	0.550	41.23560	3.63	ug/L
	Co	59	286671.257	3.889	0.405	41.35779	4.73	ug/L
	Ni	60	595864.399	4.679	0.838	401.28908	9.12	ug/L
	Cu	63	130278.198	5.232	0.821	38.79874	7.04	ug/L
	Cu	65	63799.046	4.798	0.402	38.28290	6.99	ug/L
	Zn	66	401470.390	3.567	2.530	383.38798	4.54	ug/L
	Zn	68	294868.796	4.931	1.851	381.87759	7.12	ug/L
>	Ge	72	158574.294	2.106	158574.294			ug/L
	As	75	446917.965	6.567	2.821	404.03567	8.73	ug/L
	Se	82	49159.404	5.837	0.310	403.23548	8.05	ug/L
	Sr	88	561648.373	5.339	3.545	41.73802	7.46	ug/L
	Mo	95	834056.513	5.375	5.264	392.49009	7.46	ug/L
	Mo	98	1343212.229	5.642	8.479	390.03343	7.77	ug/L
	Ag	107	230396.402	2.762	1.201	37.92899	5.91	ug/L
	Cd	111	60130.147	5.597	0.314	41.05515	10.92	ug/L
	Cd	114	136994.266	2.985	0.714	40.83987	5.19	ug/L
>	In	115	192355.121	7.702	192355.121			ug/L
	Sn	118	1710125.460	8.032	8.946	389.40649	13.51	ug/L
	Sb	121	2001815.553	5.176	10.427	410.89377	5.38	ug/L
	Sb	123	1534206.469	5.007	8.008	398.49575	9.41	ug/L
	Ba	135	573498.959	3.578	2.001	431.73481	4.73	ug/L
	Ba	137	987550.390	7.592	3.455	420.29483	11.55	ug/L
>	Tb	159	287030.837	6.352	287030.837			ug/L
	Hg	202	79.134	2.104	0.000	0.02085	11.12	ug/L
	Tl	205	5736761.454	4.002	20.034	383.24728	6.77	ug/L
	Pb	208	7891430.722	4.381	27.539	366.85611	5.36	ug/L
	Na	23	26707312.207	8.988	37.834	4113.29474	13.16	ug/L

|	Mg	24	16269659.660	5.852	22.976	4037.68120	5.22	ug/L
|	K	39	27548035.487	8.700	37.934	3976.81447	5.47	ug/L
|	Ca	43	56615.368	8.333	0.079	4203.83235	12.14	ug/L
|	Fe	54	232673.991	8.774	0.298	438.62387	14.93	ug/L
|	Fe	57	94660.244	7.601	0.126	441.22835	12.16	ug/L
|>	Sc-1	45	708536.740	5.357	708536.740			ug/L
	Kr	83	203.005	6.772	-6.667			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		91.336			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		91.138			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		87.093			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		89.719			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		91.336			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ME0809c97-02C,5

Sample Date/Time: Friday, October 03, 2008 11:54:29
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\ME0809c97-02C,5.016
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	68.667	10.930	0.000	0.00590	150.40	ug/L
	B	11	44073.386	8.849	0.056	41.30575	8.32	ug/L
	Al	27	7522.056	12.615	0.005	0.62876	32.97	ug/L
>	Sc	45	728884.096	3.650	728884.096			ug/L
	Ti	47	1260.783	1.282	0.001	0.87574	11.34	ug/L
	V	51	1608.785	198.157	-0.000	-0.01796	2460.00	ug/L
	Cr	52	17957.013	3.210	0.006	0.73938	10.22	ug/L
	Mn	55	67238.289	5.199	0.091	6.78955	3.21	ug/L
	Co	59	495.688	8.983	0.000	0.05016	7.93	ug/L
	Ni	60	3048.407	2.343	-0.002	-0.81994	11.10	ug/L
	Cu	63	4520.374	3.932	0.027	1.27657	5.97	ug/L
	Cu	65	2336.522	5.745	0.014	1.29081	3.95	ug/L
	Zn	66	1898.568	4.061	0.009	1.35772	8.73	ug/L
	Zn	68	3378.909	3.541	0.011	2.22625	11.71	ug/L
>	Ge	72	159822.109	2.802	159822.109			ug/L
	As	75	662.106	31.668	0.004	0.50412	39.75	ug/L
	Se	82	132.030	0.846	-0.000	-0.00456	830.32	ug/L
	Sr	88	2424284.805	5.098	15.163	178.54031	2.90	ug/L
	Mo	95	4373.913	5.827	0.027	2.00046	8.25	ug/L
	Mo	98	7043.350	3.471	0.043	1.99850	3.84	ug/L
	Ag	107	86.668	8.660	0.000	0.00653	23.52	ug/L
	Cd	111	50.874	15.872	0.000	0.01566	39.68	ug/L
	Cd	114	76.051	8.117	0.000	0.00989	11.57	ug/L
>	In	115	195243.652	6.546	195243.652			ug/L
	Sn	118	743.710	7.268	0.003	0.13833	13.56	ug/L
	Sb	121	810.051	4.626	0.003	0.11599	12.62	ug/L
	Sb	123	646.542	5.636	0.002	0.10946	11.88	ug/L
	Ba	135	37098.754	1.200	0.124	26.85348	1.71	ug/L
	Ba	137	63657.507	3.614	0.214	26.01209	5.90	ug/L
>	Tb	159	297737.329	2.377	297737.329			ug/L
	Hg	202	79.000	5.986	0.000	0.01916	14.65	ug/L
	Tl	205	10385.332	34.519	0.034	0.65687	35.46	ug/L
	Pb	208	2831.567	1.448	0.009	0.11867	2.97	ug/L
	Na	23	20811961.453	3.880	28.543	3103.15933	3.23	ug/L

|	Mg	24	39791772.878	2.456	54.629	9600.22032	3.60	ug/L
|	K	39	3795139.876	4.707	4.286	449.34784	2.65	ug/L
|	Ca	43	226777.197	1.440	0.310	16509.59612	3.81	ug/L
|	Fe	54	264897.083	4.350	0.331	488.23914	4.85	ug/L
|	Fe	57	121135.025	4.051	0.158	555.10725	7.97	ug/L
|>	Sc-1	45	728884.096	3.650	728884.096			ug/L
	Kr	83	179.004	4.573	-30.668			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		93.959			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		91.855			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		88.401			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		93.065			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		93.959			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ME0809c97-03C,5

Sample Date/Time: Friday, October 03, 2008 12:00:30
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\ME0809c97-03C,5.017
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	64.667	3.892	-0.000	-0.00447	30.53	ug/L
	B	11	37115.886	8.128	0.043	31.51382	7.28	ug/L
	Al	27	11277.015	10.093	0.009	1.17092	19.28	ug/L
>	Sc	45	785711.841	2.150	785711.841			ug/L
	Ti	47	1247.780	3.825	0.001	0.68688	12.70	ug/L
	V	51	459.168	567.040	-0.002	-0.19119	175.24	ug/L
	Cr	52	18172.351	2.322	0.005	0.55446	7.76	ug/L
	Mn	55	122730.750	6.247	0.155	11.57768	4.80	ug/L
	Co	59	455.685	4.780	0.000	0.04007	10.08	ug/L
	Ni	60	2016.535	1.047	-0.003	-1.59570	1.23	ug/L
	Cu	63	8706.028	7.159	0.050	2.37350	12.00	ug/L
	Cu	65	4317.378	2.146	0.024	2.32716	5.15	ug/L
	Zn	66	2651.124	3.018	0.013	1.92865	8.49	ug/L
	Zn	68	3971.192	1.422	0.013	2.70197	13.24	ug/L
>	Ge	72	169770.978	6.835	169770.978			ug/L
	As	75	110.518	189.485	0.000	0.00396	4493.45	ug/L
	Se	82	122.143	5.983	-0.000	-0.14235	46.91	ug/L
	Sr	88	1554154.038	7.871	9.151	107.74895	2.75	ug/L
	Mo	95	2979.745	5.085	0.017	1.27088	9.79	ug/L
	Mo	98	4672.836	5.114	0.027	1.23859	5.02	ug/L
	Ag	107	51.667	12.887	0.000	0.00023	288.83	ug/L
	Cd	111	37.669	7.823	0.000	0.00493	9.77	ug/L
	Cd	114	47.714	7.693	0.000	0.00061	56.21	ug/L
>	In	115	209791.470	5.787	209791.470			ug/L
	Sn	118	321.343	10.426	0.001	0.03870	20.10	ug/L
	Sb	121	300.676	6.795	0.000	0.00857	61.94	ug/L
	Sb	123	261.848	11.474	0.000	0.00630	73.88	ug/L
	Ba	135	34768.982	3.972	0.110	23.64441	0.96	ug/L
	Ba	137	60603.221	5.593	0.191	23.27564	7.07	ug/L
>	Tb	159	316858.065	4.704	316858.065			ug/L
	Hg	202	71.800	0.279	0.000	0.01316	13.07	ug/L
	Tl	205	2684.835	14.611	0.008	0.15021	10.72	ug/L
	Pb	208	5494.819	4.328	0.017	0.22307	3.71	ug/L
	Na	23	31482965.980	5.768	40.032	4352.18334	3.74	ug/L

|	Mg	24	34132717.168	6.455	43.440	7633.99570	6.09	ug/L
|	K	39	3071742.460	2.988	2.990	313.42027	2.56	ug/L
|	Ca	43	228359.955	3.553	0.289	15407.07855	3.54	ug/L
|	Fe	54	303411.308	2.126	0.354	521.52821	1.83	ug/L
|	Fe	57	137831.927	3.889	0.167	586.71226	4.94	ug/L
|>	Sc-1	45	785711.841	2.150	785711.841			ug/L
	Kr	83	169.004	1.775	-40.668			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		101.285			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		97.573			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		94.988			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.042			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		101.285			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ME0809c97-04C,5

Sample Date/Time: Friday, October 03, 2008 12:06:30
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\ME0809c97-04C,5.018
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	60.667	7.433	-0.000	-0.00598	73.85	ug/L
	B	11	39363.955	4.891	0.048	35.26593	5.30	ug/L
	Al	27	8285.605	11.683	0.005	0.71938	27.19	ug/L
>	Sc	45	752906.600	1.686	752906.600			ug/L
	Ti	47	1316.459	5.929	0.001	0.90006	19.28	ug/L
	V	51	5931.207	117.766	0.005	0.53534	172.67	ug/L
	Cr	52	17857.352	0.756	0.005	0.62706	11.13	ug/L
	Mn	55	68810.212	3.554	0.090	6.72702	3.62	ug/L
	Co	59	451.351	5.122	0.000	0.04206	9.83	ug/L
	Ni	60	2977.011	1.673	-0.002	-0.93119	1.43	ug/L
	Cu	63	1403.809	4.053	0.007	0.34841	4.76	ug/L
	Cu	65	942.725	5.564	0.005	0.45250	5.41	ug/L
	Zn	66	1972.754	6.065	0.009	1.39957	4.26	ug/L
	Zn	68	3520.139	2.879	0.011	2.34884	12.53	ug/L
>	Ge	72	162060.205	4.123	162060.205			ug/L
	As	75	-4.775	4412.677	-0.001	-0.09939	188.28	ug/L
	Se	82	123.578	2.277	-0.000	-0.08746	28.16	ug/L
	Sr	88	2611227.945	4.041	16.118	189.78451	3.14	ug/L
	Mo	95	4122.605	2.956	0.025	1.85633	5.57	ug/L
	Mo	98	6704.077	3.920	0.041	1.87391	1.95	ug/L
	Ag	107	46.001	4.348	0.000	0.00004	339.38	ug/L
	Cd	111	43.677	31.649	0.000	0.01151	90.81	ug/L
	Cd	114	49.237	16.675	0.000	0.00222	80.43	ug/L
>	In	115	192065.595	5.543	192065.595			ug/L
	Sn	118	190.004	14.849	0.000	0.01500	42.38	ug/L
	Sb	121	262.007	10.012	0.000	0.00578	98.62	ug/L
	Sb	123	260.000	9.322	0.000	0.01157	24.53	ug/L
	Ba	135	38124.599	5.498	0.132	28.43935	5.27	ug/L
	Ba	137	65620.152	5.018	0.227	27.60623	3.77	ug/L
>	Tb	159	288903.232	2.704	288903.232			ug/L
	Hg	202	69.934	6.359	0.000	0.01553	16.64	ug/L
	Tl	205	1265.451	9.987	0.004	0.07230	9.56	ug/L
	Pb	208	694.685	2.098	0.002	0.02399	5.39	ug/L
	Na	23	21049062.228	4.389	27.930	3036.49401	2.75	ug/L

|	Mg	24	39305821.675	5.527	52.212	9175.56170	5.66	ug/L
|	K	39	3703584.363	6.482	4.000	419.33965	8.08	ug/L
|	Ca	43	230857.577	7.247	0.305	16248.04917	6.10	ug/L
|	Fe	54	271035.866	5.980	0.328	482.65125	4.80	ug/L
|	Fe	57	125559.383	3.762	0.158	556.11323	3.83	ug/L
|>	Sc-1	45	752906.600	1.686	752906.600			ug/L
	Kr	83	171.004	8.733	-38.668			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		97.056			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		93.141			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		86.962			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		90.304			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		97.056			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ME0809c97-05C,5

Sample Date/Time: Friday, October 03, 2008 12:12:31
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\ME0809c97-05C,5.019
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	64.334	2.498	-0.000	-0.00541	103.23	ug/L
	B	11	42973.392	4.896	0.050	36.73209	10.74	ug/L
	Al	27	7289.224	8.749	0.004	0.47228	24.06	ug/L
>	Sc	45	794746.446	5.818	794746.446			ug/L
	Ti	47	1273.785	2.066	0.001	0.71075	19.06	ug/L
	V	51	5432.216	92.447	0.004	0.43724	148.31	ug/L
	Cr	52	18154.788	3.437	0.004	0.52700	40.16	ug/L
	Mn	55	76735.879	9.440	0.095	7.13846	12.75	ug/L
	Co	59	499.355	11.514	0.000	0.04532	22.75	ug/L
	Ni	60	1562.071	3.352	-0.004	-1.88129	3.84	ug/L
	Cu	63	362.679	4.432	0.001	0.03730	19.86	ug/L
	Cu	65	496.683	8.167	0.002	0.16971	13.19	ug/L
	Zn	66	1972.420	4.617	0.008	1.27239	8.81	ug/L
	Zn	68	3584.669	4.167	0.010	2.11730	20.61	ug/L
>	Ge	72	174533.300	7.289	174533.300			ug/L
	As	75	339.424	88.865	0.001	0.19964	140.43	ug/L
	Se	82	126.527	1.339	-0.000	-0.13419	43.91	ug/L
	Sr	88	2627086.246	6.971	15.089	177.67516	8.16	ug/L
	Mo	95	4666.252	6.292	0.026	1.96050	11.73	ug/L
	Mo	98	7677.071	5.515	0.044	2.00265	10.26	ug/L
	Ag	107	34.667	6.005	-0.000	-0.00220	28.27	ug/L
	Cd	111	32.560	23.715	0.000	0.00199	195.53	ug/L
	Cd	114	58.232	13.422	0.000	0.00384	69.49	ug/L
>	In	115	206105.570	5.384	206105.570			ug/L
	Sn	118	165.337	14.125	0.000	0.00686	74.84	ug/L
	Sb	121	235.006	7.082	-0.000	-0.00313	60.86	ug/L
	Sb	123	225.132	4.136	-0.000	-0.00124	308.55	ug/L
	Ba	135	40813.626	6.531	0.134	28.88170	5.50	ug/L
	Ba	137	70389.029	7.136	0.231	28.07471	3.73	ug/L
>	Tb	159	304537.849	3.830	304537.849			ug/L
	Hg	202	65.067	1.853	0.000	0.01112	13.12	ug/L
	Tl	205	763.379	4.839	0.002	0.03652	1.71	ug/L
	Pb	208	663.351	9.434	0.002	0.02091	8.17	ug/L
	Na	23	26898037.900	4.418	33.955	3691.57639	9.94	ug/L

|	Mg	24	43618973.277	7.771	55.004	9666.16610	9.67	ug/L
|	K	39	4327869.812	4.474	4.540	475.89704	9.37	ug/L
|	Ca	43	255897.690	4.537	0.322	17138.94656	9.96	ug/L
|	Fe	54	281674.407	6.287	0.324	477.07646	12.96	ug/L
|	Fe	57	132547.984	6.276	0.159	558.60445	11.88	ug/L
|>	Sc-1	45	794746.446	5.818	794746.446			ug/L
	Kr	83	166.337	11.156	-43.335			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		102.449			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		100.310			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		93.319			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		95.191			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		102.449			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ME0809c97-05CMS,5

Sample Date/Time: Friday, October 03, 2008 12:18:33
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\ME0809c97-05CMS,5.020
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	36021.270	4.784	0.047	40.94697	5.33	ug/L
	B	11	446630.279	5.098	0.583	431.33953	8.61	ug/L
	Al	27	2297984.053	4.310	3.015	405.88079	3.79	ug/L
>	Sc	45	761129.837	4.159	761129.837			ug/L
	Ti	47	233518.514	3.666	0.306	404.23911	5.86	ug/L
	V	51	3042037.486	9.625	4.009	401.08551	13.81	ug/L
	Cr	52	2707280.358	4.510	3.540	432.29501	4.24	ug/L
	Mn	55	510114.200	5.092	0.669	50.08789	2.47	ug/L
	Co	59	307665.272	7.511	0.404	41.28974	7.11	ug/L
	Ni	60	617261.699	5.160	0.807	386.38555	7.87	ug/L
	Cu	63	140458.917	6.420	0.824	38.92081	7.41	ug/L
	Cu	65	68433.610	4.389	0.401	38.22161	7.05	ug/L
	Zn	66	442856.249	3.927	2.597	393.61708	5.12	ug/L
	Zn	68	311417.996	3.986	1.822	375.89338	9.61	ug/L
>	Ge	72	170599.356	6.222	170599.356			ug/L
	As	75	485271.301	5.660	2.853	408.55992	9.20	ug/L
	Se	82	53803.657	4.226	0.316	411.04827	8.45	ug/L
	Sr	88	3261352.060	5.265	19.139	225.36077	4.82	ug/L
	Mo	95	916119.029	4.523	5.388	401.67962	9.13	ug/L
	Mo	98	1472448.888	4.421	8.656	398.17144	8.28	ug/L
	Ag	107	240065.819	7.920	1.165	36.79347	4.64	ug/L
	Cd	111	62794.765	5.145	0.305	39.89917	6.04	ug/L
	Cd	114	150934.855	7.004	0.733	41.94095	5.64	ug/L
>	In	115	205842.971	4.086	205842.971			ug/L
	Sn	118	1786457.209	5.931	8.697	378.56858	9.06	ug/L
	Sb	121	2142472.242	6.788	10.421	410.65248	8.11	ug/L
	Sb	123	1661592.310	6.510	8.071	401.62610	5.02	ug/L
	Ba	135	648635.685	5.796	2.081	448.97982	7.57	ug/L
	Ba	137	1097798.109	5.616	3.516	427.81893	2.58	ug/L
>	Tb	159	312268.951	5.797	312268.951			ug/L
	Hg	202	63.267	7.470	0.000	0.00936	12.28	ug/L
	Tl	205	5926229.734	4.129	18.994	363.35613	3.11	ug/L
	Pb	208	8243004.180	4.199	26.437	352.16633	5.32	ug/L
	Na	23	53936833.974	7.075	71.031	7722.37956	10.49	ug/L

|	Mg	24	62623949.178	6.905	82.240	14452.59967	4.24	ug/L
|	K	39	34787339.050	7.279	44.755	4691.85252	4.20	ug/L
|	Ca	43	314298.501	4.154	0.412	21951.39310	7.12	ug/L
|	Fe	54	503669.503	9.540	0.632	931.03164	14.16	ug/L
|	Fe	57	228876.580	4.202	0.293	1028.23502	7.39	ug/L
|>	Sc-1	45	761129.837	4.159	761129.837			ug/L
	Kr	83	219.672	8.020	10.000			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		98.116			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		98.049			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		93.200			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		97.608			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		98.116			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ME0809c97-05CMSD,5

Sample Date/Time: Friday, October 03, 2008 12:24:34
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac ll.mth
Dataset File: C:\Elandata\DataSet\100308\ME0809c97-05CMSD,5.021
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	35106.179	4.018	0.045	39.01318	5.11	ug/L
	B	11	443692.470	3.732	0.567	419.04460	8.79	ug/L
	Al	27	2277626.204	4.099	2.922	393.43662	5.25	ug/L
>	Sc	45	779706.882	7.784	779706.882			ug/L
	Ti	47	234319.021	5.305	0.300	395.98696	3.34	ug/L
	V	51	3255825.335	10.903	4.198	419.99989	14.97	ug/L
	Cr	52	2624320.290	5.402	3.355	409.65689	6.03	ug/L
	Mn	55	507069.547	4.139	0.651	48.74336	6.46	ug/L
	Co	59	308757.201	3.669	0.397	40.57174	7.46	ug/L
	Ni	60	629252.414	4.191	0.804	385.20692	8.00	ug/L
	Cu	63	143602.815	3.976	0.825	38.96817	12.44	ug/L
	Cu	65	68578.806	3.846	0.392	37.40253	9.41	ug/L
	Zn	66	434998.856	3.876	2.490	377.40144	7.68	ug/L
	Zn	68	324733.583	4.843	1.857	383.14221	12.70	ug/L
>	Ge	72	175310.936	10.020	175310.936			ug/L
	As	75	493304.403	5.255	2.835	405.96220	12.11	ug/L
	Se	82	53463.458	4.900	0.306	398.95144	11.20	ug/L
	Sr	88	3361712.160	5.106	19.240	226.54296	5.28	ug/L
	Mo	95	927165.752	6.007	5.323	396.82146	11.19	ug/L
	Mo	98	1480546.075	5.668	8.509	391.41190	12.33	ug/L
	Ag	107	239527.472	6.047	1.185	37.43902	3.06	ug/L
	Cd	111	63043.650	4.281	0.312	40.83924	5.86	ug/L
	Cd	114	152701.141	8.046	0.755	43.21270	4.81	ug/L
>	In	115	202130.596	6.808	202130.596			ug/L
	Sn	118	1844699.489	2.657	9.154	398.48804	7.31	ug/L
	Sb	121	2221590.332	3.533	11.022	434.34668	7.27	ug/L
	Sb	123	1661833.622	5.636	8.230	409.50946	4.51	ug/L
	Ba	135	653454.095	5.186	2.122	457.72193	6.82	ug/L
	Ba	137	1148759.201	6.012	3.724	453.05445	1.96	ug/L
>	Tb	159	308314.723	4.037	308314.723			ug/L
	Hg	202	81.600	4.828	0.000	0.01903	1.83	ug/L
	Tl	205	6124144.355	7.946	19.842	379.57587	3.93	ug/L
	Pb	208	8292305.401	4.086	26.898	358.31231	1.90	ug/L
	Na	23	57577767.851	7.020	74.266	8074.11039	12.57	ug/L

|	Mg	24	61803488.176	7.422	79.334	13941.83365	4.81	ug/L
|	K	39	34143289.930	3.103	42.977	4505.40969	4.78	ug/L
|	Ca	43	323041.207	5.481	0.415	22091.34200	10.33	ug/L
|	Fe	54	534535.367	10.663	0.658	969.69182	16.42	ug/L
|	Fe	57	229512.858	3.948	0.287	1009.00166	9.93	ug/L
|>	Sc-1	45	779706.882	7.784	779706.882			ug/L
	Kr	83	231.672	6.320	22.001			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		100.511			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		100.757			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		91.519			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		96.372			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		100.511			
	Kr	83					

Method 6020 - Summary Report

Sample ID: ME0809c97-06C,5

Sample Date/Time: Friday, October 03, 2008 12:30:36
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\ME0809c97-06C,5.022
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	61.667	12.829	-0.000	-0.00562	172.87	ug/L
	B	11	43901.236	7.638	0.053	39.28823	12.15	ug/L
	Al	27	8683.002	11.879	0.006	0.77120	26.75	ug/L
>	Sc	45	763133.931	6.216	763133.931			ug/L
	Ti	47	1377.137	6.616	0.001	0.97368	12.34	ug/L
	V	51	-2299.642	201.320	-0.005	-0.54976	114.53	ug/L
	Cr	52	19650.684	2.416	0.007	0.88033	17.60	ug/L
	Mn	55	68703.094	2.534	0.089	6.63486	4.14	ug/L
	Co	59	472.019	2.578	0.000	0.04405	5.13	ug/L
	Ni	60	1531.320	6.503	-0.004	-1.85968	6.12	ug/L
	Cu	63	1446.484	4.516	0.007	0.33841	4.24	ug/L
	Cu	65	1017.901	3.910	0.005	0.46578	8.07	ug/L
	Zn	66	4747.799	2.681	0.025	3.76630	6.54	ug/L
	Zn	68	5862.901	2.644	0.024	4.94744	11.81	ug/L
>	Ge	72	171392.590	8.048	171392.590			ug/L
	As	75	403.134	35.988	0.002	0.24411	47.32	ug/L
	Se	82	140.926	2.612	-0.000	-0.00444	2468.92	ug/L
	Sr	88	2695931.248	1.924	15.782	185.82795	6.29	ug/L
	Mo	95	4601.877	2.385	0.026	1.96988	10.19	ug/L
	Mo	98	7284.819	4.748	0.042	1.93580	10.45	ug/L
	Ag	107	53.334	2.864	0.000	0.00023	263.31	ug/L
	Cd	111	32.863	18.666	0.000	0.00134	343.71	ug/L
	Cd	114	52.387	13.975	0.000	0.00137	127.94	ug/L
>	In	115	217664.373	4.815	217664.373			ug/L
	Sn	118	532.358	27.231	0.002	0.07917	42.52	ug/L
	Sb	121	429.350	10.100	0.001	0.03000	37.80	ug/L
	Sb	123	396.183	12.042	0.001	0.03517	39.23	ug/L
	Ba	135	37840.577	3.239	0.118	25.49324	3.55	ug/L
	Ba	137	66974.601	5.749	0.209	25.44557	4.77	ug/L
>	Tb	159	319843.099	1.483	319843.099			ug/L
	Hg	202	69.467	6.478	0.000	0.01163	16.75	ug/L
	Tl	205	11702.755	35.419	0.036	0.68710	34.86	ug/L
	Pb	208	1606.081	1.483	0.004	0.05883	1.97	ug/L
	Na	23	28841219.186	9.055	37.980	4129.10597	14.10	ug/L

|	Mg	24	37106156.192	3.752	48.675	8553.99982	3.04	ug/L
|	K	39	3956166.006	4.374	4.272	447.86859	6.34	ug/L
|	Ca	43	253327.188	1.852	0.332	17649.12878	6.48	ug/L
|	Fe	54	271772.132	4.979	0.325	479.57423	11.86	ug/L
|	Fe	57	123603.723	3.389	0.154	541.35732	9.60	ug/L
|>	Sc-1	45	763133.931	6.216	763133.931			ug/L
	Kr	83	183.671	10.812	-26.001			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		98.374			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		98.505			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		98.552			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		99.975			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		98.374			
	Kr	83					

Method 6020 - Summary Report

Sample ID: CCV

Sample Date/Time: Friday, October 03, 2008 12:59:19
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\CCV.026
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	45101.367	1.992	0.055	47.50885	6.23	ug/L
	B	11	56582.946	5.634	0.064	47.45619	1.50	ug/L
	Al	27	309657.187	7.017	0.372	50.08848	11.22	ug/L
>	Sc	45	822397.437	4.336	822397.437			ug/L
	Ti	47	33087.401	3.648	0.039	51.82470	7.61	ug/L
	V	51	407012.938	3.795	0.493	49.27745	2.29	ug/L
	Cr	52	381220.485	2.452	0.445	54.37093	2.70	ug/L
	Mn	55	585013.251	5.148	0.710	53.17234	2.45	ug/L
	Co	59	432097.273	4.273	0.525	53.66804	3.06	ug/L
	Ni	60	90171.815	3.243	0.104	49.81579	7.87	ug/L
	Cu	63	194336.420	6.485	1.069	50.53092	13.39	ug/L
	Cu	65	93878.965	2.553	0.514	48.99617	4.46	ug/L
	Zn	66	61378.626	1.857	0.334	50.68820	8.65	ug/L
	Zn	68	45529.189	1.245	0.240	49.48235	8.29	ug/L
>	Ge	72	182583.760	6.444	182583.760			ug/L
	As	75	64184.340	1.946	0.352	50.41468	7.66	ug/L
	Se	82	7278.949	0.833	0.039	51.01328	7.30	ug/L
	Sr	88	840299.777	4.702	4.605	54.22381	1.85	ug/L
	Mo	95	119206.797	1.042	0.654	48.79494	7.72	ug/L
	Mo	98	200008.104	2.041	1.097	50.46050	4.65	ug/L
	Ag	107	334160.044	4.767	1.470	46.43007	0.44	ug/L
	Cd	111	86246.605	3.879	0.379	49.61108	1.53	ug/L
	Cd	114	197308.215	3.926	0.871	49.81149	9.19	ug/L
>	In	115	227282.397	5.092	227282.397			ug/L
	Sn	118	251506.900	2.725	1.107	48.18220	2.47	ug/L
	Sb	121	287957.874	2.951	1.269	50.01961	8.21	ug/L
	Sb	123	222098.532	4.028	0.976	48.58793	1.13	ug/L
	Ba	135	75370.113	0.390	0.239	51.46584	5.16	ug/L
	Ba	137	130386.470	1.118	0.413	50.24415	6.45	ug/L
>	Tb	159	316339.606	5.638	316339.606			ug/L
	Hg	202	5077.542	0.657	0.016	2.48496	5.55	ug/L
	Tl	205	859510.441	5.043	2.717	51.97757	1.03	ug/L
	Pb	208	1151532.928	0.154	3.647	48.58185	5.40	ug/L
	Na	23	28884818.296	2.278	35.124	3818.68493	2.02	ug/L

|	Mg	24	18980042.453	1.603	23.116	4062.27870	5.78	ug/L
|	K	39	33065974.626	4.150	39.296	4119.57174	2.44	ug/L
|	Ca	43	64678.794	3.186	0.078	4130.56195	7.27	ug/L
|	Fe	54	2335634.075	2.753	2.809	4139.25269	1.76	ug/L
|	Fe	57	960687.114	3.527	1.162	4081.19567	7.57	ug/L
|>	Sc-1	45	822397.437	4.336	822397.437			ug/L
	Kr	83	180.671	1.779	-29.001			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		106.014			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		104.937			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		102.907			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		98.880			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		106.014			
	Kr	83					

Method 6020 - Summary Report

Sample ID: CCB

Sample Date/Time: Friday, October 03, 2008 13:06:03
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID: 6020W
Method File: C:\elandata\Method\epa 6020 microbac II.mth
Dataset File: C:\Elandata\DataSet\100308\CCB.027
Sample Prep Volume (mL):
Initial Sample Quantity (mg):
Aliquot Volume (mL):
Diluted To Volume (mL):

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Net Intens. Mean	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	60.167	3.460	-0.000	-0.01139	12.08	ug/L
	B	11	4747.970	7.151	0.001	0.95161	39.78	ug/L
	Al	27	5487.058	1.594	0.001	0.14835	11.62	ug/L
>	Sc	45	809734.603	1.544	809734.603			ug/L
	Ti	47	861.390	5.257	-0.000	-0.00629	946.65	ug/L
	V	51	1580.849	412.929	-0.001	-0.05381	1497.23	ug/L
	Cr	52	17817.689	0.842	0.003	0.41728	6.56	ug/L
	Mn	55	1489.427	5.389	0.000	0.01673	32.06	ug/L
	Co	59	155.670	13.541	0.000	0.00041	638.17	ug/L
	Ni	60	1294.667	2.056	-0.004	-2.05948	0.65	ug/L
	Cu	63	184.004	12.286	-0.000	-0.01156	36.38	ug/L
	Cu	65	151.168	4.405	-0.000	-0.01949	34.29	ug/L
	Zn	66	474.515	4.553	-0.000	-0.03338	11.60	ug/L
	Zn	68	2100.120	1.529	0.002	0.34018	23.79	ug/L
>	Ge	72	174822.451	3.870	174822.451			ug/L
	As	75	193.987	17.274	0.000	0.06722	48.15	ug/L
	Se	82	136.811	3.203	-0.000	-0.06109	78.75	ug/L
	Sr	88	202.671	10.870	0.000	0.00434	26.83	ug/L
	Mo	95	122.668	7.748	0.000	0.00981	57.61	ug/L
	Mo	98	164.878	6.272	0.000	0.01402	14.24	ug/L
	Ag	107	45.334	18.368	-0.000	-0.00089	110.63	ug/L
	Cd	111	26.100	40.095	-0.000	-0.00230	314.34	ug/L
	Cd	114	46.035	11.278	-0.000	-0.00016	348.08	ug/L
>	In	115	215003.674	7.310	215003.674			ug/L
	Sn	118	172.670	11.646	0.000	0.00710	85.23	ug/L
	Sb	121	1428.484	19.348	0.005	0.21536	27.95	ug/L
	Sb	123	1143.280	20.817	0.004	0.20987	29.02	ug/L
	Ba	135	62.834	5.178	0.000	0.00846	27.04	ug/L
	Ba	137	90.001	8.012	0.000	0.00951	28.71	ug/L
>	Tb	159	322276.741	0.358	322276.741			ug/L
	Hg	202	132.068	5.023	0.000	0.04167	8.15	ug/L
	Tl	205	1465.489	13.071	0.004	0.07558	15.24	ug/L
	Pb	208	248.337	11.839	0.000	0.00220	55.31	ug/L
	Na	23	15592.317	6.268	0.001	0.05450	259.49	ug/L

|	Mg	24	3804.315	7.042	0.003	0.53167	11.01	ug/L
|	K	39	727856.628	0.770	-0.021	-2.17934	52.65	ug/L
|	Ca	43	1310.278	1.263	0.000	22.39465	7.49	ug/L
|	Fe	54	27466.745	5.103	0.002	2.46853	128.46	ug/L
|	Fe	57	6562.131	0.484	-0.000	-1.06078	30.92	ug/L
|>	Sc-1	45	809734.603	1.544	809734.603			ug/L
	Kr	83	202.671	4.942	-7.000			ug/L

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
	Be	9					
	B	11					
	Al	27					
>	Sc	45		104.381			
	Ti	47					
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	68					
>	Ge	72		100.476			
	As	75					
	Se	82					
	Sr	88					
	Mo	95					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		97.348			
	Sn	118					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
>	Tb	159		100.736			
	Hg	202					
	Tl	205					
	Pb	208					
	Na	23					
	Mg	24					
	K	39					
	Ca	43					
	Fe	54					
	Fe	57					
>	Sc-1	45		104.381			
	Kr	83					

DIGESTION LOG(S)

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **65865** Prep Code: **3010** Technician: **Amanda Couch**

Prep Start Date: **10/1/2008 7:20:00 AM**
Prep End Date: **10/1/2008 10:20:00 A**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
LCS081001-6				50	0	0	50	1	10/1/2008	10/1/2008
MB081001-6				50	0	0	50	1	10/1/2008	10/1/2008
ME0809B84-01A	Liquid			1	0	0	50	50	10/1/2008	10/1/2008
ME0809C78-01A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C78-05A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C78-05AM	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C78-05AM	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C78-06A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C78-08A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C85-09A	Aqueous			1	0	0	50	50	10/1/2008	10/1/2008
ME0809C97-02C	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C97-03C	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C97-04C	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C97-05C	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C97-05CM	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C97-05CM	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809C97-06C	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809D15-01C	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809D18-01A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809D18-02A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809D18-03A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809D18-04A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **65865** Prep Code: **3010** Technician: **Amanda Couch**

Prep Start Date: **10/1/2008 7:20:00 AM**
Prep End Date: **10/1/2008 10:20:00 A**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
ME0809D19-01A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809D22-01D	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008
ME0809D30-01A	Aqueous			50	0	0	50	1	10/1/2008	10/1/2008

MERCURY DATA

RAW DATA

CETAC Hg Analysis Report

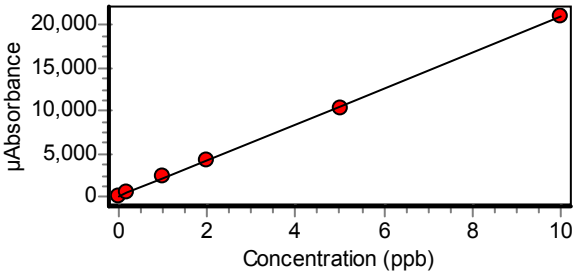
Analyst: mercury2
Worksheet file: C:\Program Files\QuickTrace\Worksheets\HG100608.wsz
Date Started: 10/6/2008 10:17:00 AM
Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
Calibration Blank					STD	10/06/08 10:39:28 am	0.000	103	1.44	
Replicates	102.6	101.7	103.5	105.2						
Standard #1					STD	10/06/08 10:40:51 am	0.200	516	0.70	
Replicates	512.0	513.6	516.7	520.1						
Standard #2					STD	10/06/08 10:42:14 am	1.000	2392	0.39	
Replicates	2380.1	2391.4	2396.3	2402.0						
Standard #3					STD	10/06/08 10:43:38 am	2.000	4206	0.40	
Replicates	4183.0	4204.4	4217.7	4220.2						
Standard #4					STD	10/06/08 10:45:03 am	5.000	10251	0.47	
Replicates	10186.9	10241.8	10276.2	10298.3						
Standard #5					STD	10/06/08 10:46:29 am	10.000	20985	0.43	
Replicates	20856.8	20987.0	21041.4	21056.6						

Calibration

Equation: A = 103.268 + 2077.342C
R2: 0.99958
SEE: 197.1276
Flags:



ICV					ICV	10/06/08 10:47:55 am	0.909	1991	0.49	
Replicates	1977.2	1989.5	1996.5	1999.0						
% Recovery	90.85									
ICB					ICB	10/06/08 10:49:22 am	-0.040	19	14.42	
Replicates	21.1	21.4	19.2	15.3						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
MB081006-3					UNK	10/06/08 10:50:44 am	-0.037	26	10.92	
	Replicates	22.3	26.4	25.5	29.1					
LCS081006-3					UNK	10/06/08 10:52:06 am	1.790	3823	0.60	
	Replicates	3790.7	3822.8	3838.6	3839.9					
ME0809C97-02C					UNK	10/06/08 10:53:29 am	-0.042	16	12.60	
	Replicates	17.2	15.6	12.8	16.6					
ME0809C97-03C					UNK	10/06/08 10:54:52 am	-0.040	20	11.82	
	Replicates	21.8	21.7	19.7	16.7					
ME0809C97-04C					UNK	10/06/08 10:56:15 am	-0.044	11	17.10	
	Replicates	13.6	12.5	9.4	10.1					
ME0809C97-05C					UNK	10/06/08 10:57:39 am	-0.047	5	46.11	
	Replicates	6.3	6.9	3.0	2.7					
ME0809C97-05CMS					UNK	10/06/08 10:59:03 am	1.840	3932	0.26	
	Replicates	3921.7	3944.1	3936.7	3926.6					
ME0809C97-05CMSD					UNK	10/06/08 11:00:27 am	1.880	4019	0.30	
	Replicates	4004.3	4030.2	4026.8	4014.3					
ME0809C97-06C					UNK	10/06/08 11:01:52 am	-0.053	-8	22.01	
	Replicates	-8.1	-8.5	-9.5	-5.5					
ME0810060-01A					UNK	10/06/08 11:03:17 am	-0.034	33	11.47	
	Replicates	37.0	34.5	28.0	33.4					
CCV					CCV	10/06/08 11:04:44 am	5.090	10678	0.54	
	Replicates	10598.1	10671.9	10712.1	10727.9					
	% Recovery	101.81								
CCB					CCB	10/06/08 11:06:12 am	-0.050	0	891.26	
	Replicates	4.7	3.0	-1.3	-4.6					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ME0810072-01A					UNK	10/06/08 11:07:38 am	-0.033	35	4.38	
Replicates	33.7	36.4	35.1	33.0						
ME0810073-01A					UNK	10/06/08 11:09:03 am	-0.036	28	13.00	
Replicates	30.5	30.8	25.1	23.9						
ME0810116-01A					UNK	10/06/08 11:10:26 am	-0.029	42	7.65	
Replicates	37.7	43.7	42.1	45.1						
ME0810156-01D					UNK	10/06/08 11:11:49 am	-0.021	60	3.38	
Replicates	59.4	62.3	59.1	57.4						
MB081006-1					UNK	10/06/08 11:13:12 am	-0.016	69	3.66	
Replicates	72.0	66.2	68.7	70.8						
LCS081006-1:20					UNK	10/06/08 11:14:35 am	4.540	9524	1.14	
Replicates	9378.3	9510.3	9580.7	9627.8						
ME0809C59-01A:5					UNK	10/06/08 11:15:59 am	0.231	583	0.54	
Replicates	579.9	582.3	581.1	587.1						
ME0809C59-07A:5					UNK	10/06/08 11:17:23 am	6.670	13953	1.04	
Replicates	14103.9	14026.8	13911.6	13771.1						
ME0809C59-09A:5					UNK	10/06/08 11:18:47 am	1.320	2845	0.85	
Replicates	2813.5	2840.7	2857.8	2869.4						
ME0810049-01A					UNK	10/06/08 11:20:12 am	0.869	1909	0.72	
Replicates	1889.2	1910.6	1916.5	1919.6						
CCV					CCV	10/06/08 11:21:40 am	5.350	11208	0.80	
Replicates	11090.7	11191.1	11256.1	11295.4						
% Recovery	106.92									
CCB					CCB	10/06/08 11:23:08 am	-0.049	1	250.76	
Replicates	1.8	3.5	1.1	-2.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ME0810049-02A					UNK	10/06/08 11:24:33 am	0.674	1504	0.55	
Replicates	1494.7	1502.6	1504.5	1514.9						
ME0810049-03A					UNK	10/06/08 11:25:59 am	0.534	1213	0.62	
Replicates	1202.4	1213.1	1215.8	1219.9						
ME0810050-01A					UNK	10/06/08 11:27:25 am	5.910	12389	0.43	
Replicates	12314.3	12388.5	12423.3	12431.4						
ME0810050-02A					UNK	10/06/08 11:28:51 am	1.030	2243	0.57	
Replicates	2226.0	2240.1	2248.5	2255.8						
ME0810050-03A					UNK	10/06/08 11:30:14 am	1.400	3014	0.48	
Replicates	2993.7	3014.0	3022.4	3026.4						
ME0810050-04A					UNK	10/06/08 11:31:38 am	1.970	4185	0.29	
Replicates	4169.0	4184.6	4190.4	4197.3						
ME0810050-05A					UNK	10/06/08 11:33:01 am	1.390	2998	0.57	
Replicates	2974.6	2997.1	3011.6	3009.4						
ME0810050-06A					UNK	10/06/08 11:34:25 am	1.650	3521	0.82	
Replicates	3480.7	3518.7	3539.1	3544.8						
ME0810050-07A					UNK	10/06/08 11:35:49 am	1.360	2935	0.50	
Replicates	2918.5	2928.5	2940.8	2952.3						
ME0810050-08A					UNK	10/06/08 11:37:14 am	1.140	2461	0.92	
Replicates	2432.0	2455.7	2473.5	2484.0						
CCV					CCV	10/06/08 11:38:41 am	5.500	11534	0.55	
Replicates	11446.2	11531.5	11573.3	11586.7						
% Recovery	110.06									
CCB					CCB	10/06/08 11:40:10 am	-0.036	29	15.39	
Replicates	26.8	34.3	31.3	24.3						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ME0810050-09A					UNK	10/06/08 11:41:35 am	0.645	1443	0.71	
Replicates	1429.0	1442.6	1450.8	1450.6						
ME0810050-10A					UNK	10/06/08 11:43:00 am	1.500	3228	0.71	
Replicates	3196.1	3226.3	3241.7	3247.6						
ME0810050-11A					UNK	10/06/08 11:44:26 am	2.230	4739	0.75	
Replicates	4692.5	4735.2	4752.4	4777.1						
ME0810050-12A					UNK	10/06/08 11:45:52 am	1.010	2209	0.90	
Replicates	2182.0	2206.8	2218.7	2227.8						
ME0810050-12AMS					UNK	10/06/08 11:47:18 am	3.080	6511	0.96	
Replicates	6425.5	6504.7	6545.1	6568.7						
ME0810050-12AMSD					UNK	10/06/08 11:48:45 am	3.520	7408	0.79	
Replicates	7328.0	7402.1	7441.4	7461.1						
MB081006-2					UNK	10/06/08 11:50:08 am	-0.046	9	43.44	
Replicates	13.1	9.3	4.0	8.1						
LCS081006-2					UNK	10/06/08 11:51:32 am	1.940	4142	0.27	
Replicates	4127.8	4139.0	4145.2	4154.1						
ME0810032-01A					UNK	10/06/08 11:52:56 am	-0.039	22	24.34	
Replicates	29.1	18.3	17.5	22.3						
ME0810032-02A					UNK	10/06/08 11:54:20 am	-0.026	49	3.28	
Replicates	48.2	50.8	49.6	47.1						
CCV					CCV	10/06/08 11:55:48 am	5.570	11684	0.75	
Replicates	11560.8	11681.1	11739.5	11753.1						
% Recovery	111.49									
CCB					CCB	10/06/08 11:57:16 am	-0.045	10	32.92	
Replicates	12.9	11.6	10.1	5.4						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ME0810032-03A					UNK	10/06/08 11:58:41 am	-0.032	38	2.27	
Replicates	37.2	39.1	37.4	38.0						
ME0810032-04A					UNK	10/06/08 12:00:06 pm	-0.027	46	7.93	
Replicates	50.5	48.1	42.8	43.6						
ME0810032-05A					UNK	10/06/08 12:01:31 pm	-0.029	44	13.31	
Replicates	50.9	45.0	37.3	41.1						
ME0810032-06A					UNK	10/06/08 12:02:56 pm	-0.029	42	3.66	
Replicates	40.8	40.8	43.1	43.7						
ME0810032-07A					UNK	10/06/08 12:04:22 pm	-0.017	69	3.20	
Replicates	71.8	68.1	67.6	66.9						
ME0810032-07AMS					UNK	10/06/08 12:05:49 pm	2.000	4261	0.52	
Replicates	4229.1	4269.7	4280.8	4265.1						
ME0810032-07AMSD					UNK	10/06/08 12:07:15 pm	2.000	4265	0.53	
Replicates	4232.5	4266.3	4277.4	4282.5						
ME0810032-08A					UNK	10/06/08 12:08:42 pm	-0.022	57	3.26	
Replicates	57.7	54.8	58.7	55.5						
ME0810032-09A					UNK	10/06/08 12:10:06 pm	-0.031	38	6.59	
Replicates	35.0	37.1	39.1	40.8						
ME0810032-10A					UNK	10/06/08 12:11:30 pm	-0.031	38	5.12	
Replicates	37.8	40.5	38.1	35.7						
CCV					CCV	10/06/08 12:12:57 pm	5.500	11527	0.52	
Replicates	11441.8	11527.1	11563.6	11575.7						
% Recovery	109.98									
CCB					CCB	10/06/08 12:14:25 pm	-0.035	31	20.81	
Replicates	36.6	35.7	25.7	24.6						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ME0810032-10AMS					UNK	10/06/08 12:15:50 pm	2.010	4282	0.77	
Replicates	4243.1	4271.1	4295.9	4319.9						
ME0810032-10AMSD					UNK	10/06/08 12:17:14 pm	2.020	4301	0.77	
Replicates	4256.8	4294.0	4321.5	4331.1						
ME0810032-11A					UNK	10/06/08 12:18:39 pm	-0.024	54	2.78	
Replicates	55.7	52.7	53.8	52.5						
ME0810032-12A					UNK	10/06/08 12:20:04 pm	-0.027	47	1.59	
Replicates	47.7	47.5	46.4	46.2						
ME0810075-01C					UNK	10/06/08 12:21:30 pm	-0.029	42	2.93	
Replicates	42.2	40.8	43.7	41.8						
ME0810075-02C					UNK	10/06/08 12:22:56 pm	-0.032	37	1.84	
Replicates	36.8	35.9	36.2	37.4						
ME0810075-03C					UNK	10/06/08 12:24:22 pm	-0.022	57	4.84	
Replicates	57.1	58.5	58.0	52.5						
ME0810075-04C					UNK	10/06/08 12:25:49 pm	-0.030	41	2.35	
Replicates	40.8	41.9	39.6	40.4						
ME0810075-04CMS					UNK	10/06/08 12:27:16 pm	2.120	4500	0.55	
Replicates	4463.6	4504.6	4518.0	4512.4						
ME0810075-04CMSD					UNK	10/06/08 12:28:43 pm	2.070	4402	0.54	
Replicates	4368.7	4401.2	4418.2	4419.8						
CCV					CCV	10/06/08 12:30:11 pm	5.620	11777	0.51	
Replicates	11698.3	11765.2	11809.0	11835.8						
% Recovery	112.39									
CCB					CCB	10/06/08 12:31:39 pm	-0.050	-1	326.96	
Replicates	1.1	0.8	-0.9	-3.6						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
MB081006-4					UNK	10/06/08 12:33:03 pm	-0.029	42	3.32	
Replicates	42.5	42.6	43.6	40.3						
LCS081006-4					UNK	10/06/08 12:34:27 pm	2.220	4714	0.62	
Replicates	4671.3	4718.2	4732.9	4734.0						
ME0810130-01A					UNK	10/06/08 12:35:52 pm	-0.022	58	1.05	
Replicates	58.4	57.2	58.2	58.6						
ME0810130-01AMS					UNK	10/06/08 12:37:17 pm	2.190	4657	0.06	
Replicates	4656.6	4658.5	4660.1	4654.1						
ME0810130-01AMSD					UNK	10/06/08 12:38:43 pm	2.210	4694	0.35	
Replicates	4674.8	4685.7	4701.1	4712.4						
ME0809C91-01A					UNK	10/06/08 12:40:08 pm	0.380	893	0.91	
Replicates	899.8	899.0	888.1	883.5						
ME0809259-06A					UNK	10/06/08 12:45:49 pm	1.140	2476	0.53	
Replicates	2460.2	2473.1	2480.7	2491.2						
ME0810050-12APDS					UNK	10/06/08 12:47:15 pm	3.130	6601	1.00	
Replicates	6513.0	6590.4	6637.9	6662.3						
CCV					ICB	10/06/08 12:48:43 pm	5.620	11776	0.54	Z
Replicates	11687.3	11771.8	11814.7	11828.5						
CCB					CCB	10/06/08 12:51:01 pm	-0.037	25	9.62	
Replicates	28.1	25.8	25.1	22.2						

DIGESTION LOG(S)

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **66005** Prep Code: **HGPREP_W** Technician: **Amanda Couch**

Prep Start Date: **10/6/2008 8:05:00 AM**
Prep End Date: **10/6/2008 10:05:00 A**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
LCS081006-3				25	0	0	25	1	10/6/2008	10/6/2008
MB081006-3				25	0	0	25	1	10/6/2008	10/6/2008
ME0809C97-02C	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0809C97-03C	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0809C97-04C	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0809C97-05C	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0809C97-05CM	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0809C97-05CM	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0809C97-06C	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0810060-01A REPREP	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0810072-01A REPREP	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0810073-01A REPREP	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0810116-01A	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008
ME0810156-01D	Aqueous			25	0	0	25	1	10/6/2008	10/6/2008

PCB/PESTICIDE RAW DATA

METHOD BLANK RAW DATA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100307.D Vial: 7
Acq On : 3 Oct 2008 17:47 Operator: jw
Sample : ,mblk,bk-4-100308,1, Inst : ECD1
Misc : 8081-82_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:28 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

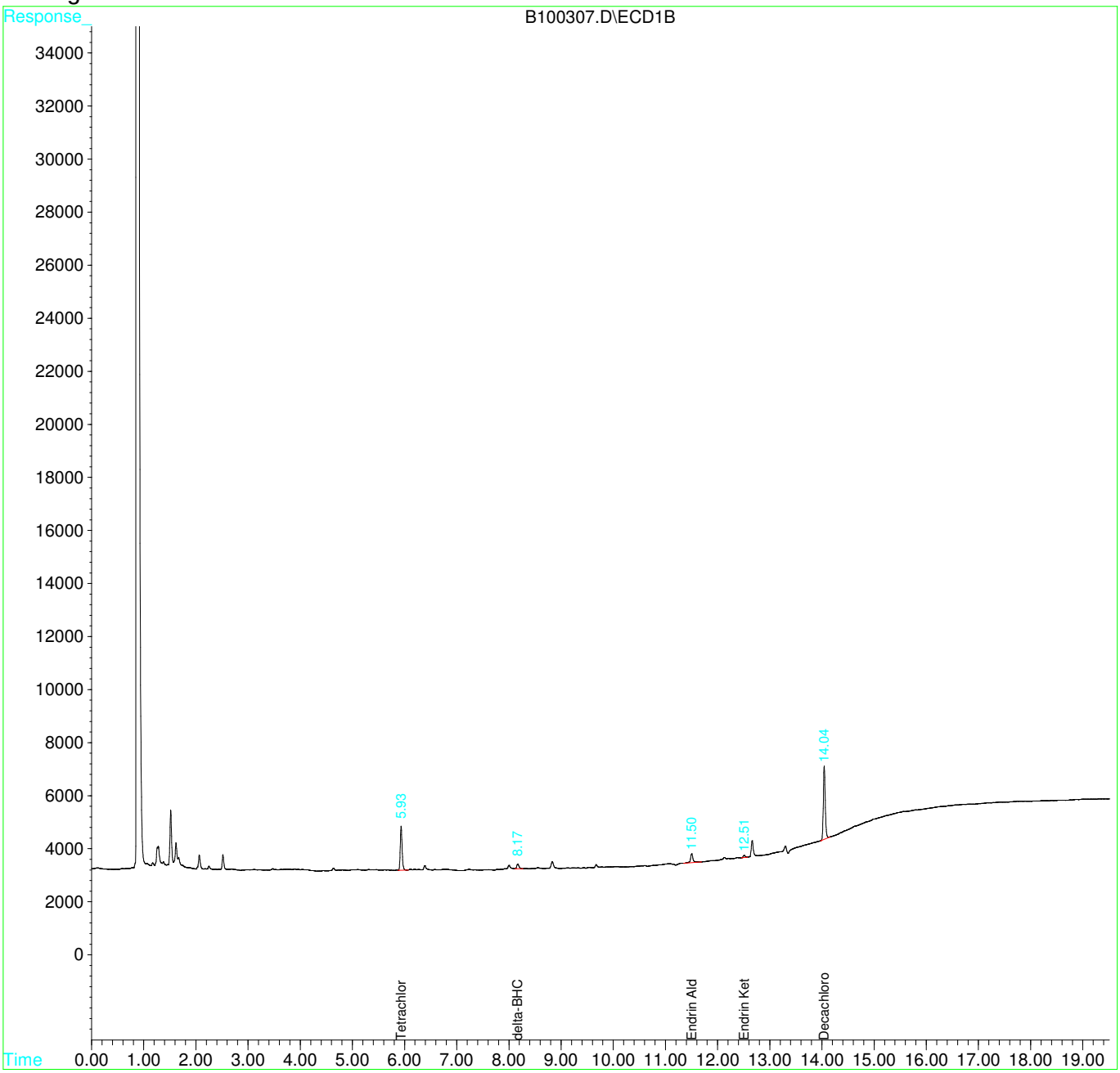
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	5.93	40522	0.019	ug/mlm3
Spiked Amount 0.020	Recovery	=	95.00%	
2) S Decachlorobiphenyl	14.04	70987	0.019	ug/mlm3
Spiked Amount 0.020	Recovery	=	95.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	8.17	5325	0.015	ug/mlm1
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	0.00	0	N.D.	ug/ml
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	0.00	0	N.D.	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/ml
15) 4,4'-DDD	0.00	0	N.D.	ug/ml
16) Endrin Aldehyde	11.50	11582	0.005	ug/mlm3
17) 4,4'-DDT	0.00	0	N.D.	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	12.51	2285	0.001	ug/mlm2
20) Methoxychlor	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100307.D Vial: 7
Acq On : 3 Oct 2008 17:47 Operator: jw
Sample : ,mblk,bk-4-100308,1, Inst : ECD1
Misc : 8081-82_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:28 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



LABORATORY CONTROL SAMPLE RAW DATA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100308.D Vial: 8
Acq On : 3 Oct 2008 18:11 Operator: jw
Sample : ,lcs,lcs-4a-100308,1, Inst : ECD1
Misc : 608_w Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 8 10:21 2008 Quant Results File: B608PCBE.RES

Quant Method : C:\HPCHEM\1\METHODS\B608PCBE.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-608
Last Update : Wed Oct 08 10:18:30 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

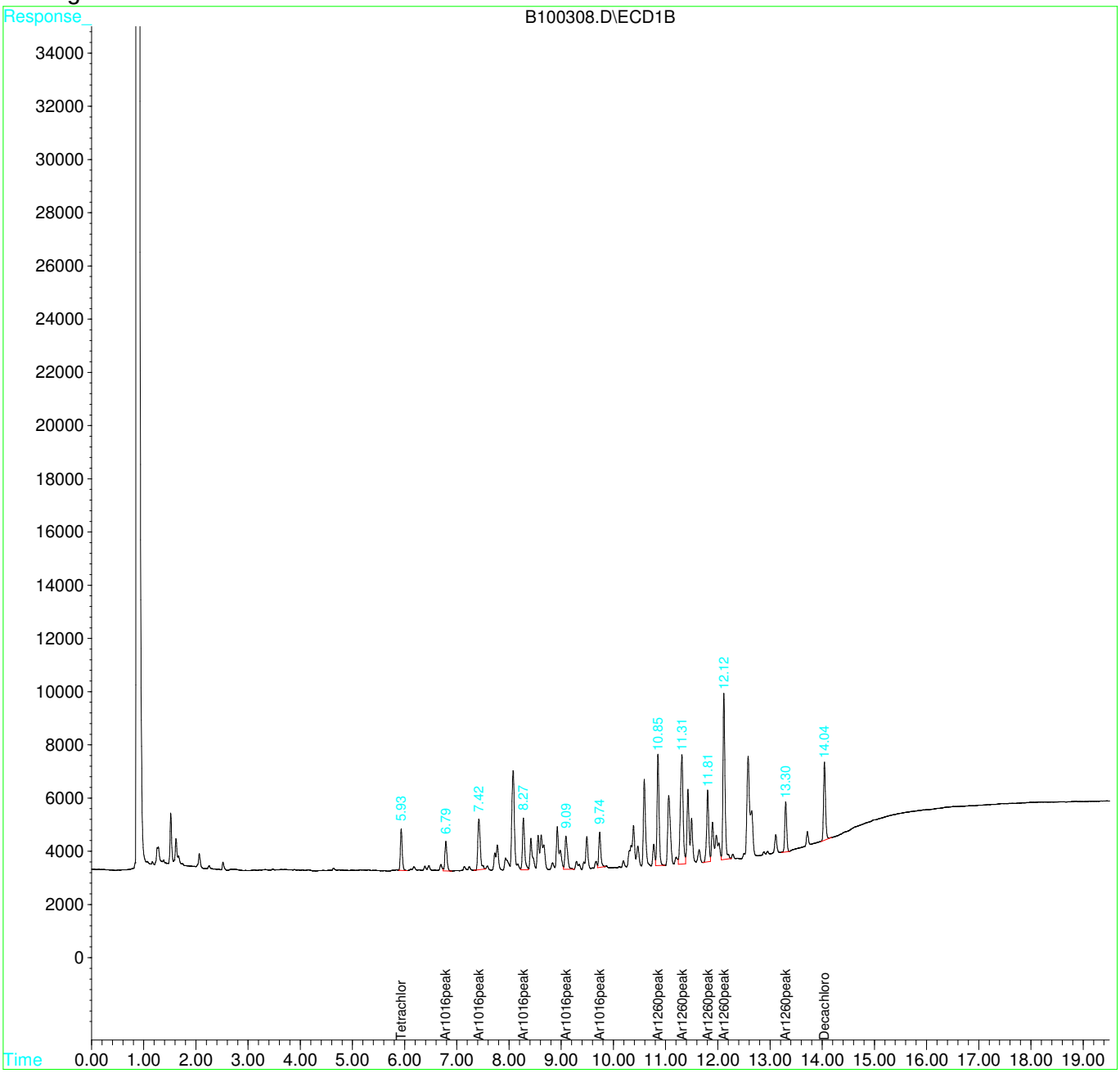
	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	Tetrachloro-m-xylene	5.93	37810	0.018 ug/ml
2) S	Decachlorobiphenyl	14.04	76236	0.021 ug/mlm3
	Target Compounds			
3)	Ar1016peak1	6.79	30548	0.474 ug/ml
4)	Ar1016peak2	7.42	62908	0.479 ug/ml
5)	Ar1016peak3	8.28	56490	0.516 ug/ml
6)	Ar1016peak4	9.09	41633	0.508 ug/ml
7)	Ar1016peak5	9.74	35730	0.596 ug/ml
8)	Ar1260peak1	10.85	109391	0.501 ug/ml
9)	Ar1260peak2	11.31	147068	0.569 ug/ml
10)	Ar1260peak3	11.81	75183	0.479 ug/ml
11)	Ar1260peak4	12.12	167961	0.476 ug/ml
12)	Ar1260peak5	13.30	47087	0.478 ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100308.D Vial: 8
Acq On : 3 Oct 2008 18:11 Operator: jw
Sample : ,lcs,lcs-4a-100308,1, Inst : ECD1
Misc : 608_w Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 8 10:21 2008 Quant Results File: B608PCBE.RES

Quant Method : C:\HPCHEM\1\METHODS\B608PCBE.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-608
Last Update : Wed Oct 08 10:18:30 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100309.D Vial: 9
Acq On : 3 Oct 2008 18:35 Operator: jw
Sample : ,lcs,lcs-4b-100308,1, Inst : ECD1
Misc : 8081-82_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:30 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	5.93	36914	0.018 ug/ml
Spiked Amount 0.020	Recovery	=	90.00%
2) S Decachlorobiphenyl	14.04	70832	0.019 ug/mlm3
Spiked Amount 0.020	Recovery	=	95.00%
Target Compounds			
3) alpha-BHC	7.00	73644	0.036 ug/ml
4) gamma-BHC	7.57	83719	0.039 ug/ml
5) beta-BHC	7.72	64337	0.044 ug/ml
6) delta-BHC	8.15	38102	0.027 ug/ml
7) Heptachlor	8.21	132598	0.043 ug/ml
8) Aldrin	8.67	89146	0.039 ug/ml
9) Heptachlor epoxide	9.48	112221	0.046 ug/ml
10) Endosulfan I	10.00	103720	0.050 ug/ml
11) 4,4'-DDE	10.16	88474	0.040 ug/ml
12) Dieldrin	10.36	94837	0.042 ug/ml
13) Endrin	10.76	87632	0.047 ug/ml
14) Endosulfan II	11.04	107112	0.048 ug/ml
15) 4,4'-DDD	10.91	65435	0.041 ug/ml
16) Endrin Aldehyde	11.47	107969	0.045 ug/ml
17) 4,4'-DDT	11.31	87630	0.043 ug/ml
18) Endosulfan Sulfate	11.82	88676	0.039 ug/ml
19) Endrin Ketone	12.51	110733	0.042 ug/ml
20) Methoxychlor	12.19	73108	0.041 ug/ml

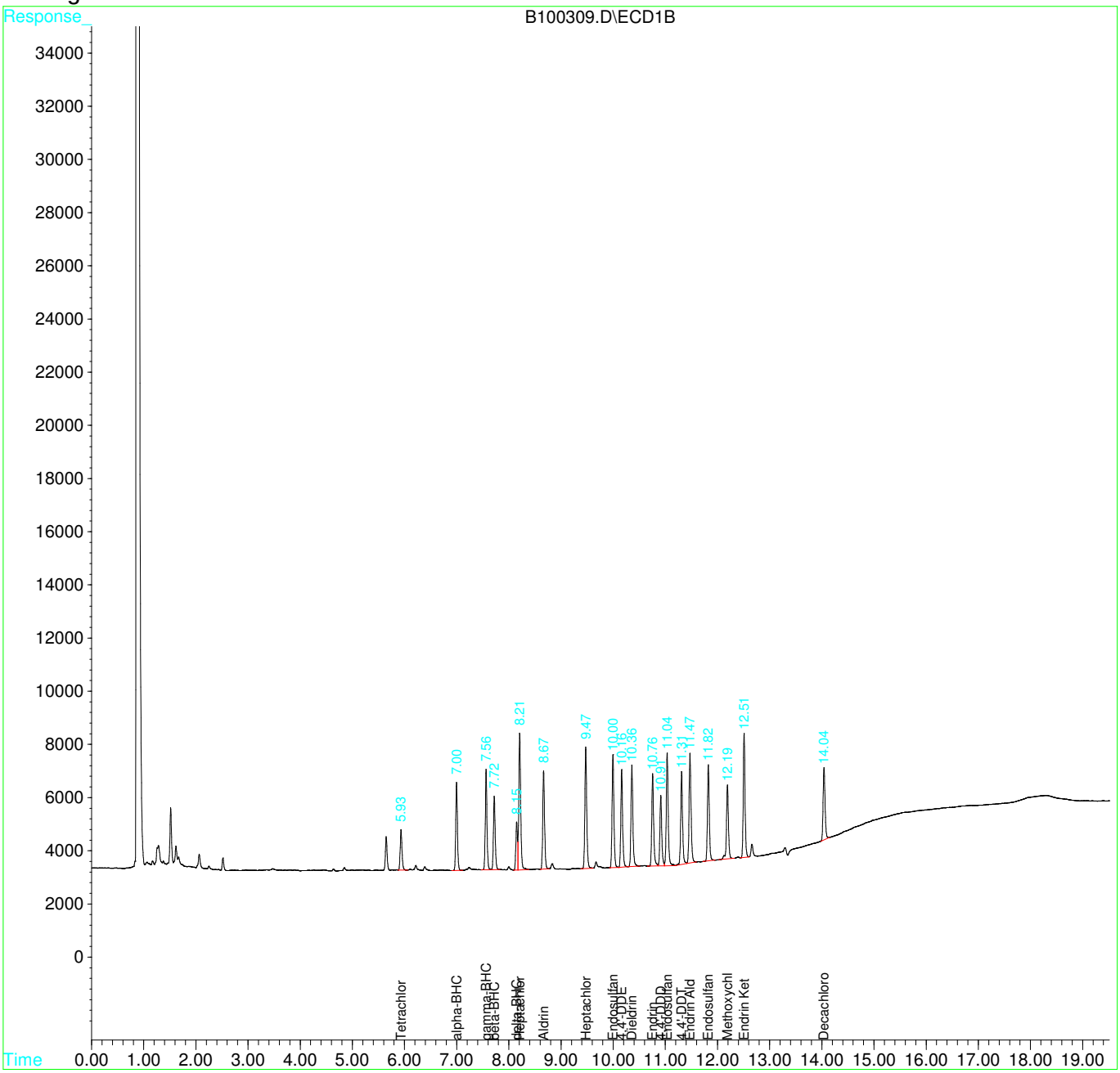
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100309.D Vial: 9
Acq On : 3 Oct 2008 18:35 Operator: jw
Sample : ,lcs,lcs-4b-100308,1, Inst : ECD1
Misc : 8081-82_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:30 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



MATRIX SPIKE/MATRIX SPIKE DUPLICATE RAW DATA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100313.D Vial: 13
Acq On : 3 Oct 2008 20:12 Operator: jw
Sample : ,samp,me0809c97-05b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:54 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	5.93	42319	0.020	ug/mlm3
Spiked Amount 0.020	Recovery	=	100.00%	
2) S Decachlorobiphenyl	14.04	66595	0.018	ug/mlm3
Spiked Amount 0.020	Recovery	=	90.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	8.17	3563	0.014	ug/mlm1
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	0.00	0	N.D.	ug/ml
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	0.00	0	N.D.	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/ml
15) 4,4'-DDD	0.00	0	N.D.	ug/ml
16) Endrin Aldehyde	0.00	0	N.D.	ug/ml
17) 4,4'-DDT	0.00	0	N.D.	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	12.50	1442	0.001	ug/mlm1
20) Methoxychlor	0.00	0	N.D.	ug/ml

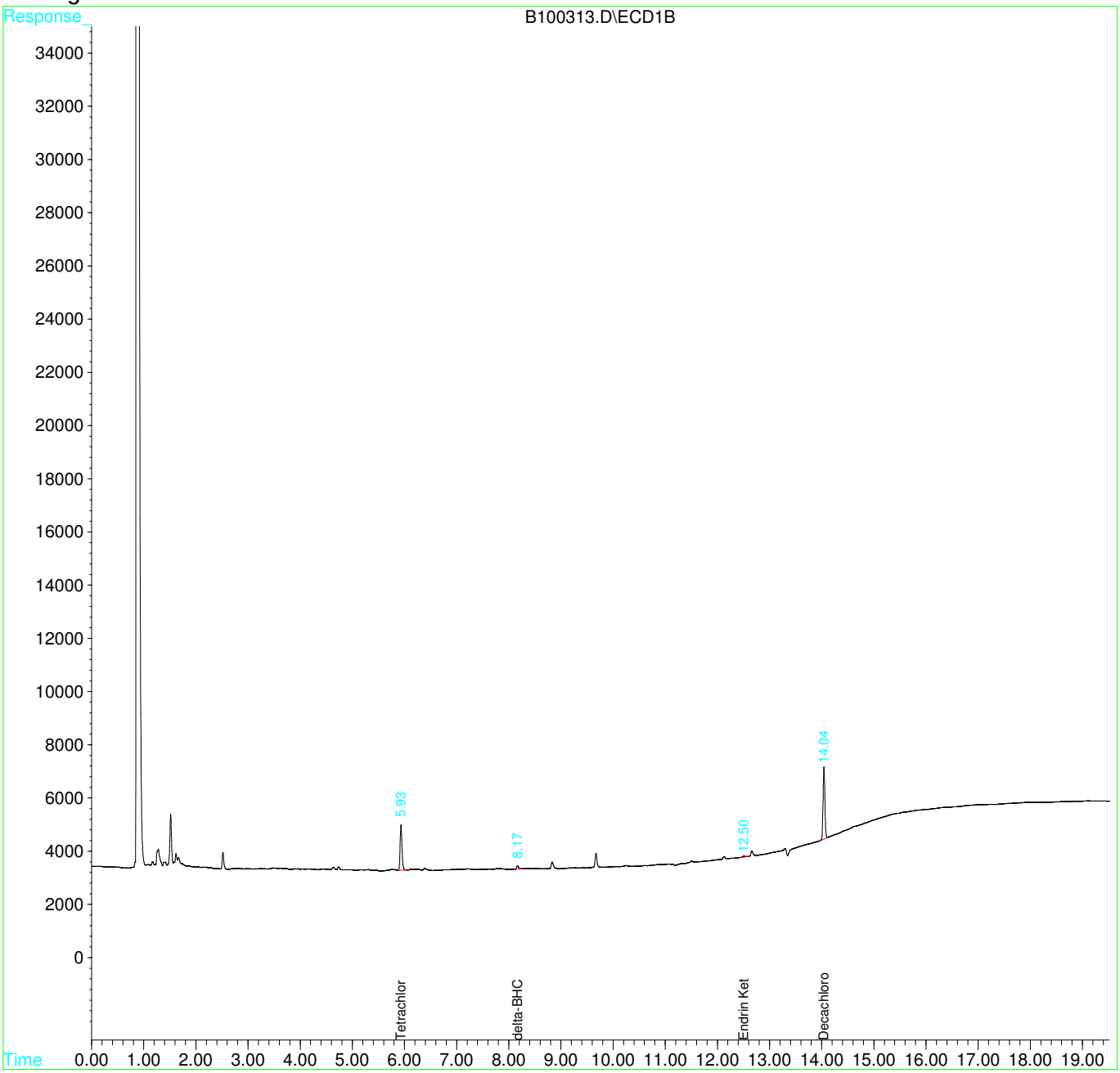
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100313.D Vial: 13
Acq On : 3 Oct 2008 20:12 Operator: jw
Sample : ,samp,me0809c97-05b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:54 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100314.D Vial: 14
Acq On : 3 Oct 2008 20:36 Operator: jw
Sample : ,ms,me0809c97-05bms1,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:55 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
1) S	Tetrachloro-m-xylene	5.93	49454	0.023 ug/ml
2) S	Decachlorobiphenyl	14.04	97918	0.028 ug/mlm3
Target Compounds				
3)	Ar1016peak1	6.79	29719	0.474 ug/ml
4)	Ar1016peak2	7.42	62262	0.493 ug/mlm3
5)	Ar1016peak3	8.27	53889	0.506 ug/ml
6)	Ar1016peak4	9.09	40079	0.494 ug/ml
7)	Ar1016peak5	9.74	34377	0.581 ug/ml
8)	Ar1260peak1	10.85	105221	0.504 ug/ml
9)	Ar1260peak2	11.31	140539	0.559 ug/ml
10)	Ar1260peak3	11.81	72654	0.478 ug/ml
11)	Ar1260peak4	12.12	162322	0.475 ug/ml
12)	Ar1260peak5	13.30	46856	0.481 ug/ml

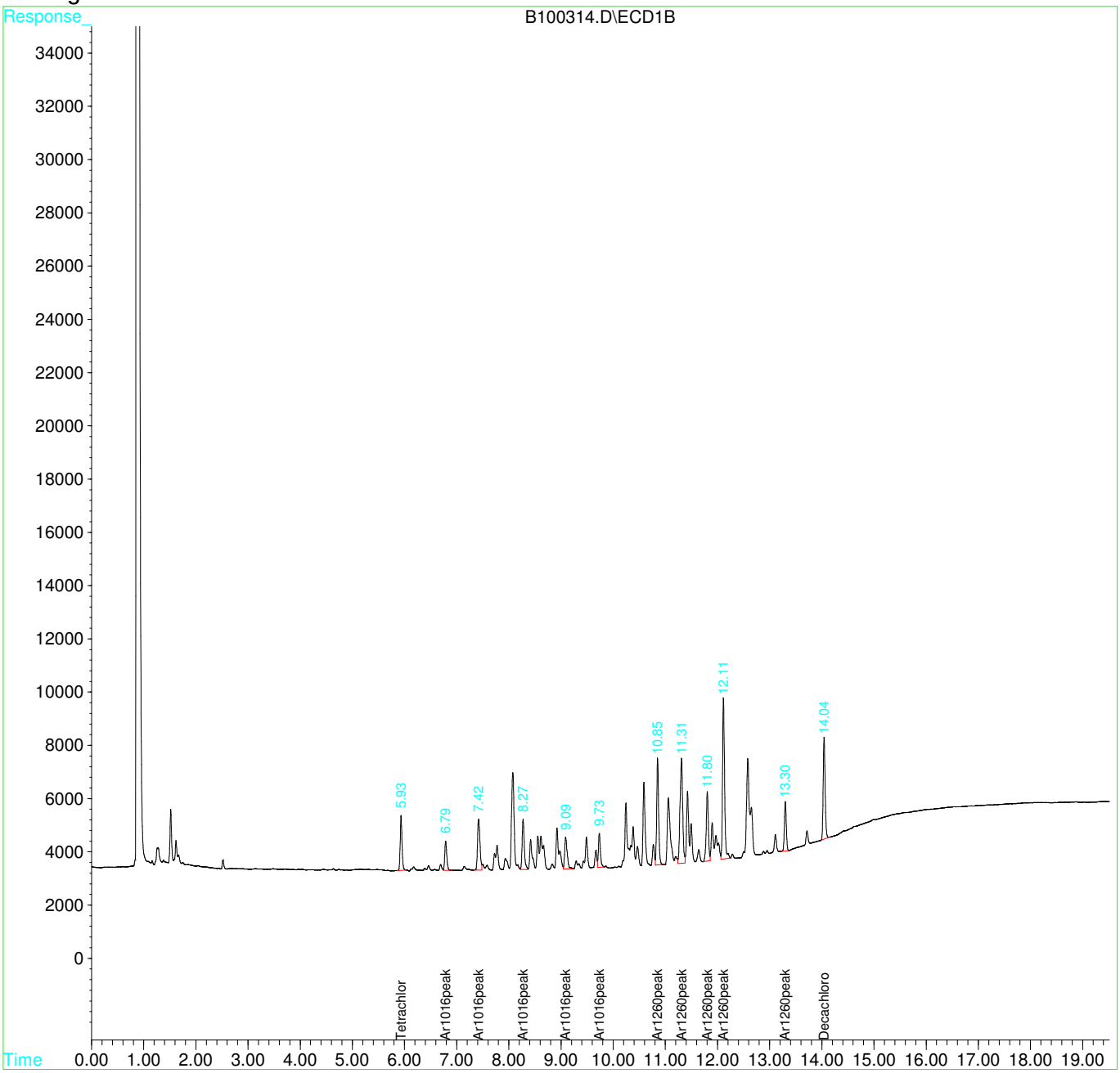
(f)=RT Delta > 1/2 Window (m)=manual int.
B100314.D B1660E.M Mon Oct 06 10:55:36 2008 ECD1 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100314.D Vial: 14
Acq On : 3 Oct 2008 20:36 Operator: jw
Sample : ,ms,me0809c97-05bms1,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:55 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100315.D Vial: 15
Acq On : 3 Oct 2008 21:00 Operator: jw
Sample : ,msd,me0809c97-05bmsd1,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:56 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

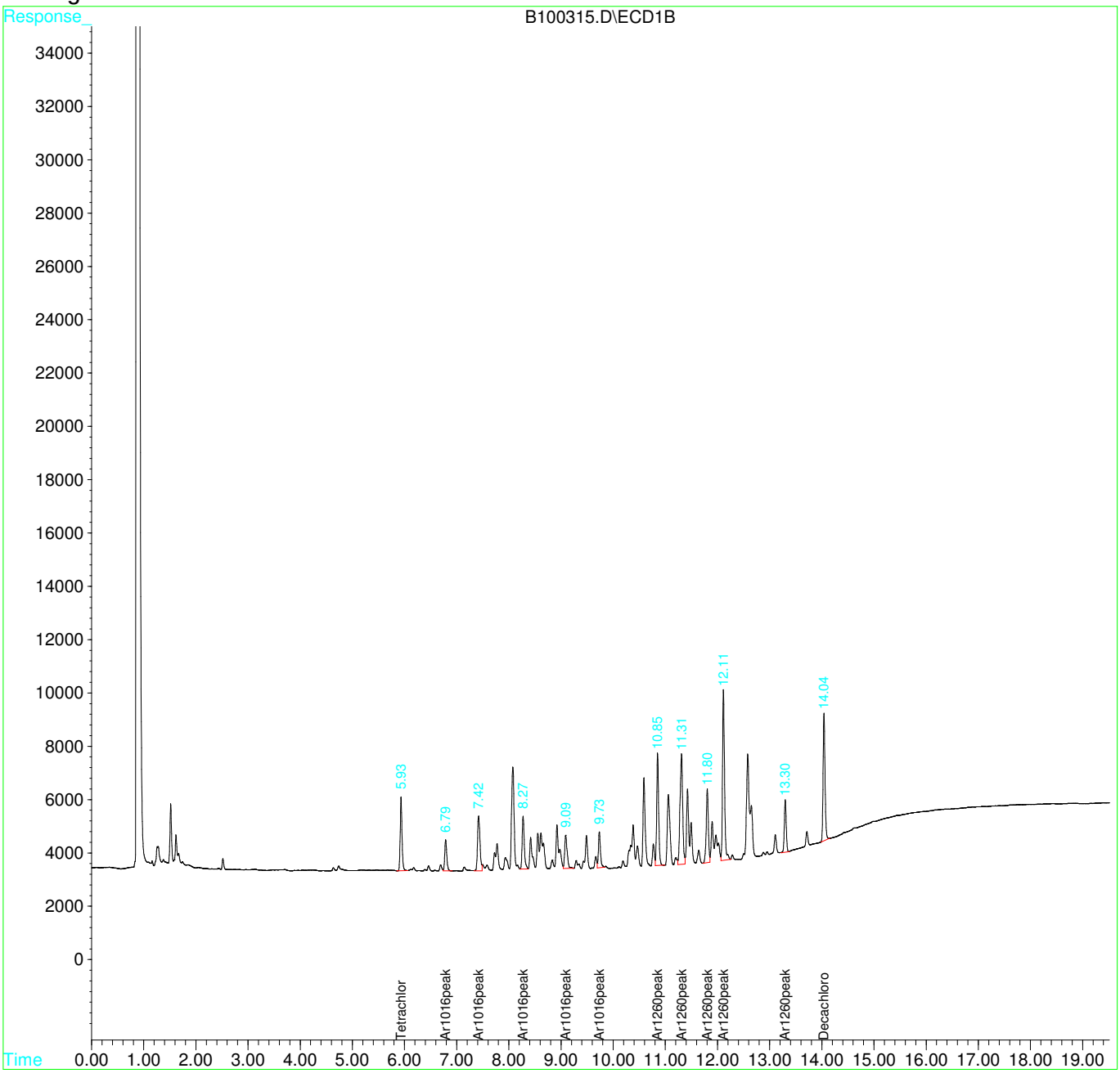
	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	Tetrachloro-m-xylene	5.93	66552	0.031 ug/ml
2) S	Decachlorobiphenyl	14.04	122737	0.035 ug/mlm3
	Target Compounds			
3)	Ar1016peak1	6.79	31958	0.509 ug/ml
4)	Ar1016peak2	7.42	67388	0.533 ug/mlm3
5)	Ar1016peak3	8.27	55778	0.523 ug/ml
6)	Ar1016peak4	9.09	41309	0.509 ug/ml
7)	Ar1016peak5	9.74	36470	0.616 ug/ml
8)	Ar1260peak1	10.85	110284	0.528 ug/ml
9)	Ar1260peak2	11.31	147014	0.585 ug/ml
10)	Ar1260peak3	11.81	77293	0.509 ug/ml
11)	Ar1260peak4	12.11	171382	0.502 ug/ml
12)	Ar1260peak5	13.30	49274	0.506 ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100315.D Vial: 15
Acq On : 3 Oct 2008 21:00 Operator: jw
Sample : ,msd,me0809c97-05bmsd1,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:56 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100316.D Vial: 16
Acq On : 3 Oct 2008 21:25 Operator: jw
Sample : ,ms,me0809c97-05bms2,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:57 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	5.94	43516	0.021 ug/ml
Spiked Amount 0.020	Recovery	=	105.00%
2) S Decachlorobiphenyl	14.04	71963	0.019 ug/mlm3
Spiked Amount 0.020	Recovery	=	95.00%
Target Compounds			
3) alpha-BHC	7.00	82045	0.039 ug/ml
4) gamma-BHC	7.57	92768	0.042 ug/ml
5) beta-BHC	7.72	71757	0.049 ug/ml
6) delta-BHC	8.15	43403	0.028 ug/ml
7) Heptachlor	8.21	148747	0.048 ug/ml
8) Aldrin	8.67	101603	0.044 ug/ml
9) Heptachlor epoxide	9.48	123282	0.050 ug/mlm3
10) Endosulfan I	10.00	114402	0.055 ug/ml
11) 4,4'-DDE	10.17	98553	0.045 ug/ml
12) Dieldrin	10.36	104041	0.046 ug/ml
13) Endrin	10.76	97214	0.052 ug/ml
14) Endosulfan II	11.04	119608	0.053 ug/ml
15) 4,4'-DDD	10.92	72839	0.046 ug/ml
16) Endrin Aldehyde	11.47	114963	0.048 ug/ml
17) 4,4'-DDT	11.31	97067	0.048 ug/ml
18) Endosulfan Sulfate	11.83	96789	0.043 ug/ml
19) Endrin Ketone	12.51	125513	0.048 ug/ml
20) Methoxychlor	12.19	81249	0.045 ug/ml

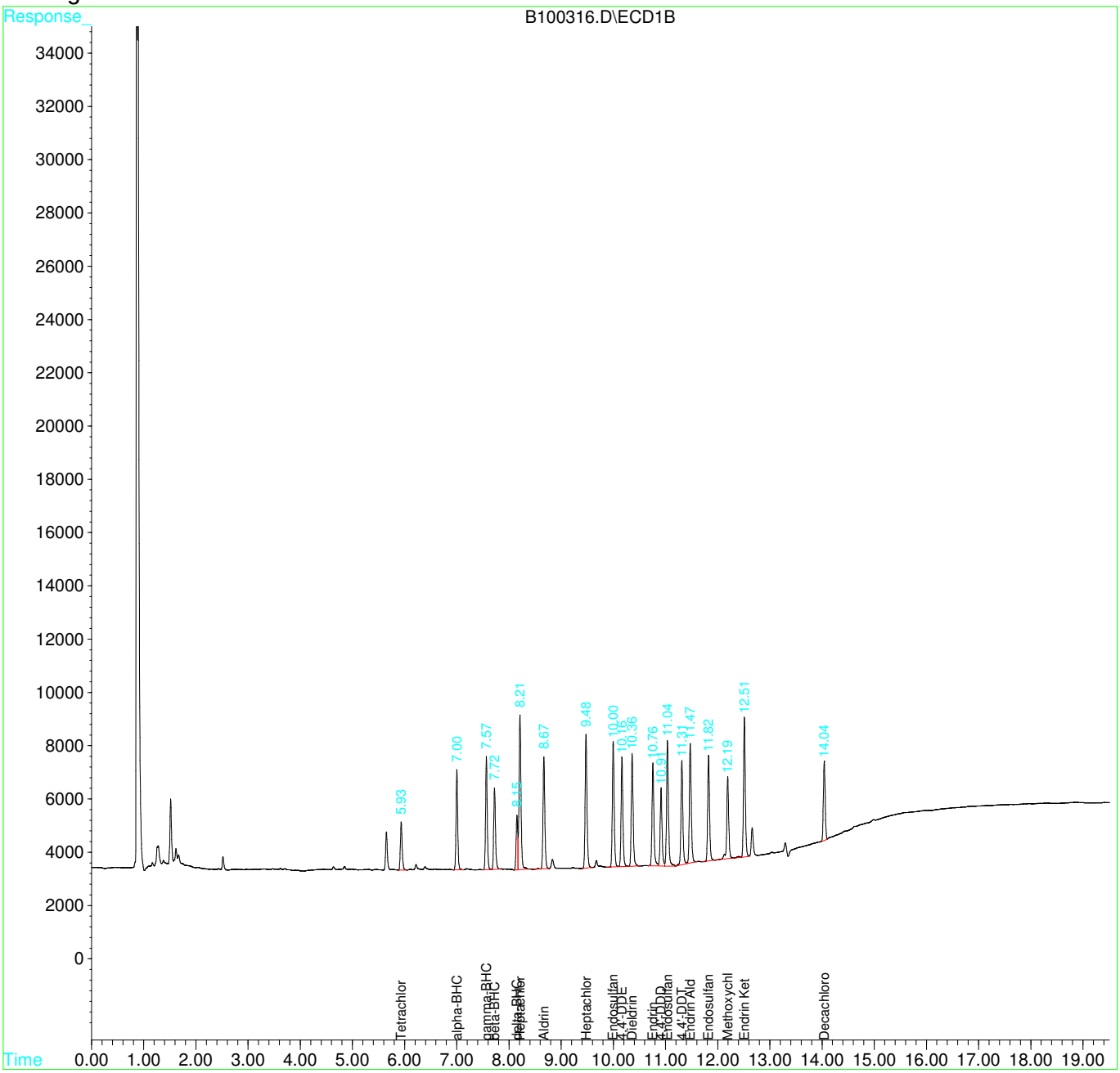
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100316.D Vial: 16
Acq On : 3 Oct 2008 21:25 Operator: jw
Sample : ,ms,me0809c97-05bms2,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:57 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100317.D Vial: 17
Acq On : 3 Oct 2008 21:49 Operator: jw
Sample : ,msd,me0809c97-05bmsd2,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:59 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	5.93	54856	0.026 ug/ml
Spiked Amount 0.020	Recovery	=	130.00%
2) S Decachlorobiphenyl	14.04	106254	0.029 ug/mlm3
Spiked Amount 0.020	Recovery	=	145.00%
Target Compounds			
3) alpha-BHC	7.00	82547	0.039 ug/ml
4) gamma-BHC	7.57	92995	0.042 ug/ml
5) beta-BHC	7.72	70679	0.049 ug/ml
6) delta-BHC	8.15	43658	0.029 ug/mlm3
7) Heptachlor	8.21	145837	0.047 ug/ml
8) Aldrin	8.67	101122	0.044 ug/ml
9) Heptachlor epoxide	9.48	122461	0.050 ug/ml
10) Endosulfan I	10.00	114926	0.055 ug/ml
11) 4,4'-DDE	10.17	98944	0.045 ug/ml
12) Dieldrin	10.36	104766	0.046 ug/ml
13) Endrin	10.76	97381	0.052 ug/ml
14) Endosulfan II	11.04	116928	0.052 ug/ml
15) 4,4'-DDD	10.92	71669	0.045 ug/ml
16) Endrin Aldehyde	11.48	113513	0.047 ug/ml
17) 4,4'-DDT	11.32	95801	0.047 ug/ml
18) Endosulfan Sulfate	11.83	96514	0.043 ug/ml
19) Endrin Ketone	12.51	123608	0.047 ug/mlm3
20) Methoxychlor	12.20	79272	0.044 ug/ml

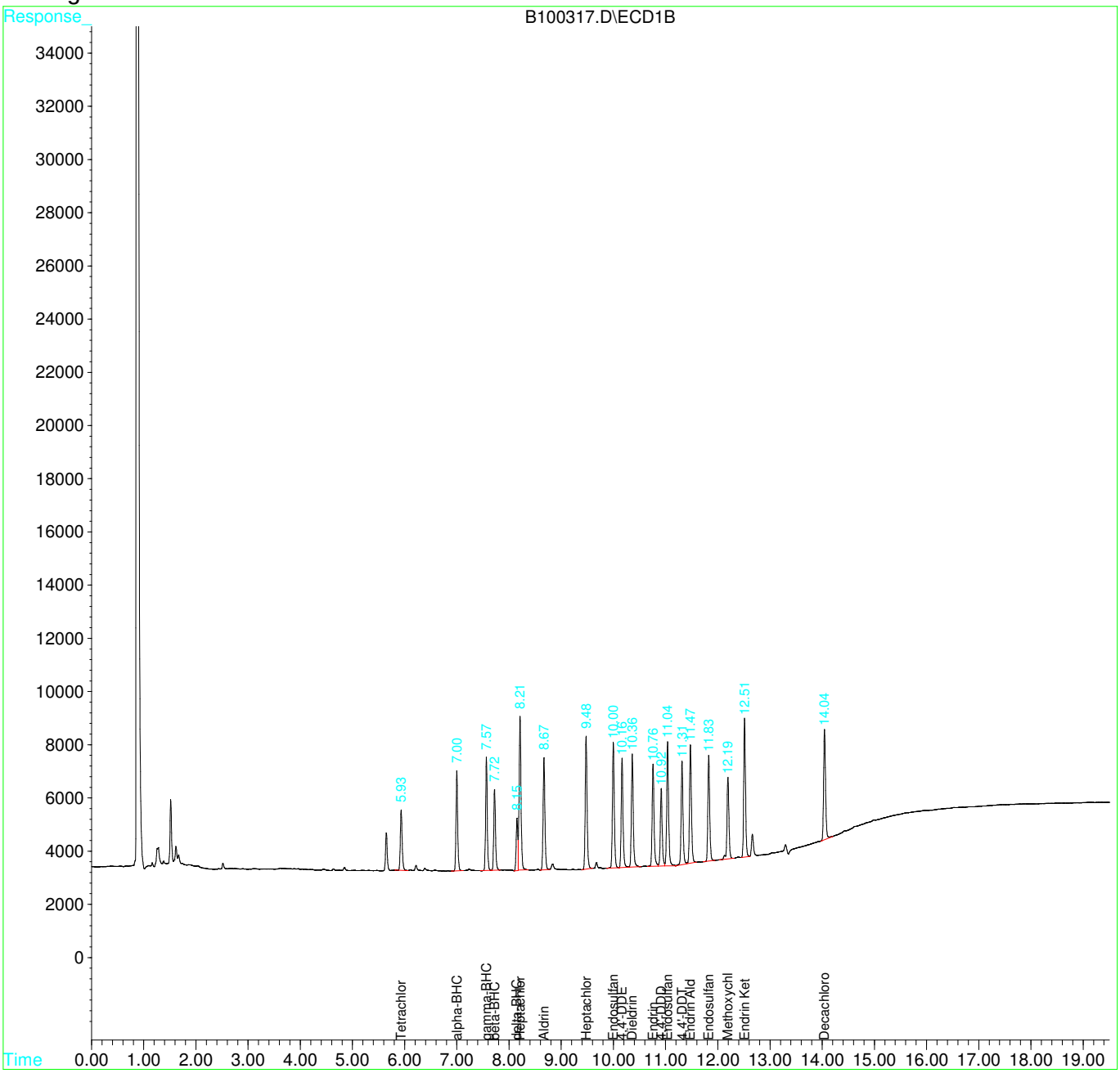
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100317.D Vial: 17
Acq On : 3 Oct 2008 21:49 Operator: jw
Sample : ,msd,me0809c97-05bmsd2,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:59 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



INITIAL CALIBRATION RAW DATA

Response Factor Report ECD1

Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008

Calibration Files
.005 =B082516.D .01 =B082515.D .02 =B082514.D
.04 =B082513.D .05 =B082512.D 0.1 =B082510.D

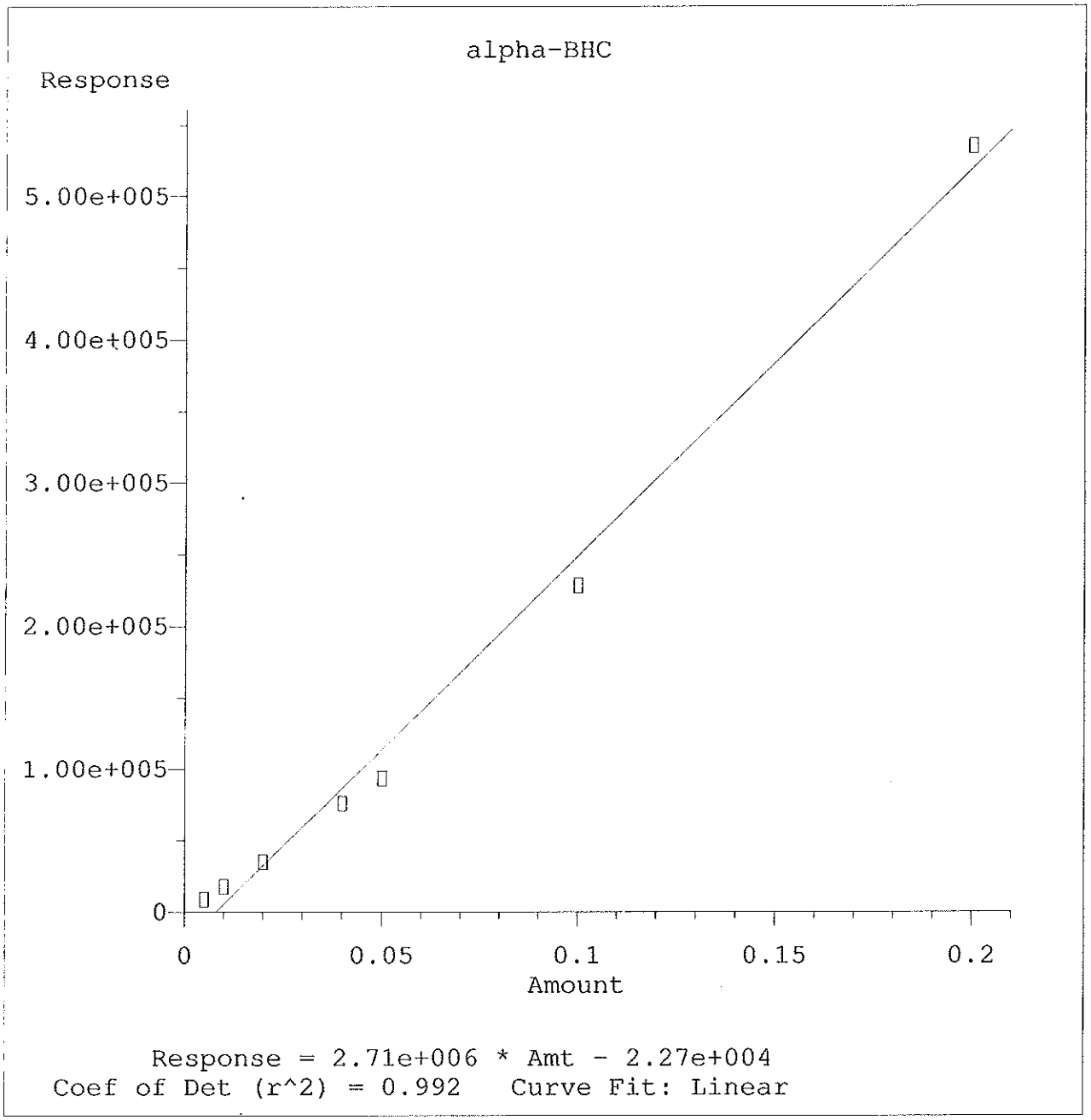
Not shown
0.2 = B082511.D

		Compound	.005	.01	.02	.04	.05	0.1	Avg		%RSD
1)	S	Tetrachloro-m-xylen		2.056	2.140	2.125	2.066	2.069	2.093	E6	1.66
2)	S	Decachlorobiphenyl		3.915	3.872	3.831	3.690	3.604	3.708	E6	5.82
3)		alpha-BHC	1.699	1.750	1.735	1.895	1.866	2.280	1.986	E6	18.19 LR
4)		gamma-BHC		1.968	1.943	2.063	2.022	2.410	2.179	E6	13.48 LR
5)		beta-BHC			1.420	1.475	1.413	1.486	1.457	E6	2.57
6)		delta-BHC			1.753	1.939	1.866	2.268	2.094	E6	17.35 LR
7)		Heptachlor			3.095	3.133	3.031	3.118	3.100	E6	1.33
8)		Aldrin	2.172	2.170	2.146	2.284	2.201	2.428	2.287	E6	7.52
9)		Heptachlor epoxide		2.464	2.448	2.470	2.391	2.473	2.452	E6	1.26
10)		Endosulfan I			2.056	2.103	2.021	2.103	2.083	E6	2.13
11)		4,4'-DDE			2.087	2.156	2.065	2.253	2.193	E6	6.33
12)		Dieldrin	2.263	2.176	2.162	2.237	2.186	2.337	2.259	E6	4.59
13)		Endrin			1.816	1.857	1.809	1.904	1.873	E6	3.77
14)		Endosulfan II			2.239	2.242	2.196	2.263	2.242	E6	1.31
15)		4,4'-DDD			1.499	1.529	1.502	1.663	1.597	E6	7.93
16)		Endrin Aldehyde			2.534	2.507	2.347	2.346	2.393	E6	5.28
17)		4,4'-DDT			1.893	1.998	1.943	2.118	2.033	E6	6.41
18)		Endosulfan Sulfate			2.237	2.302	2.239	2.299	2.269	E6	1.38
19)		Endrin Ketone			2.464	2.587	2.534	2.711	2.609	E6	4.58
20)		Methoxychlor			1.719	1.955	1.799	1.788	1.793	E6	5.52

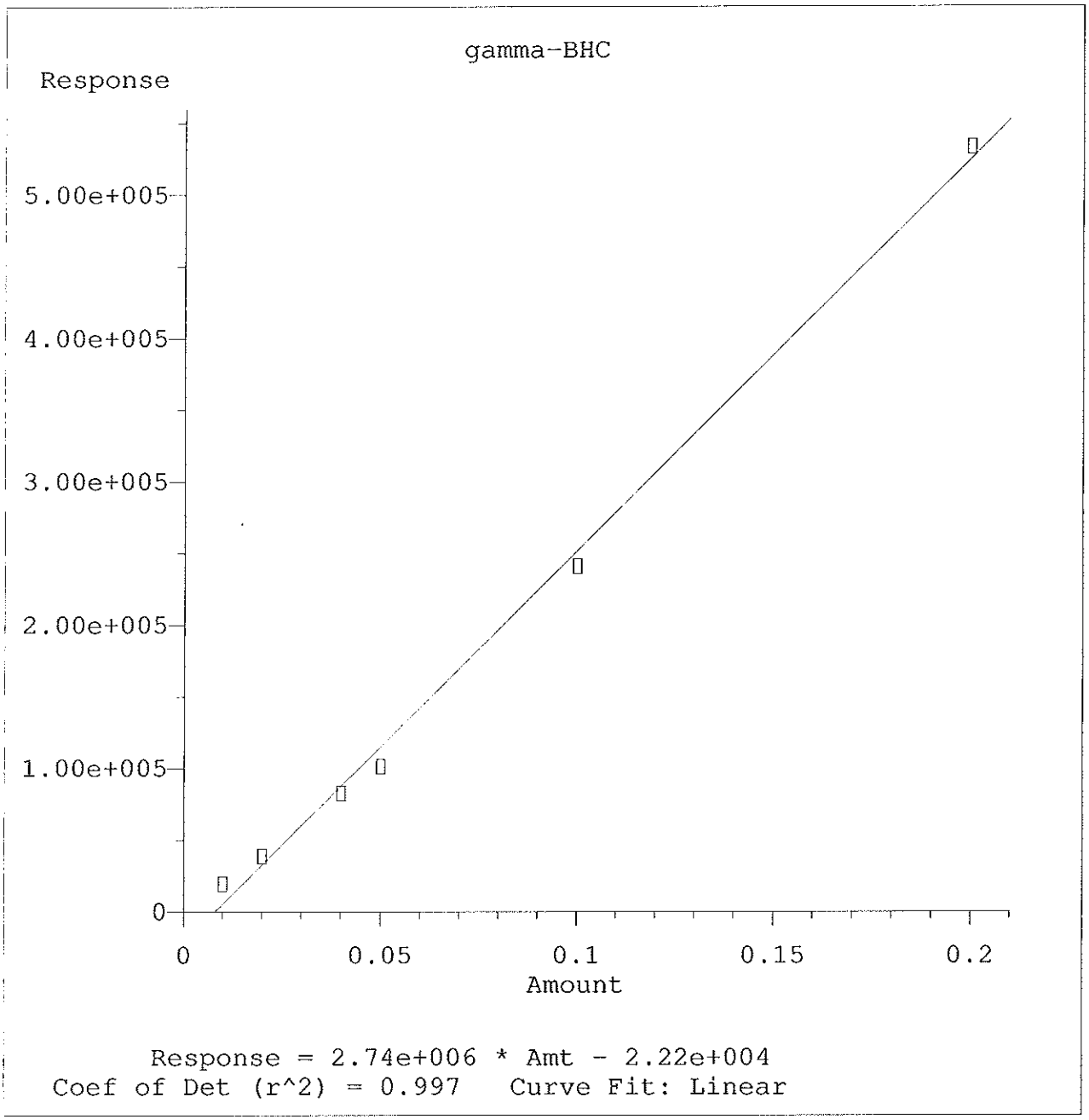
Good for 608/8081

8-25-08 JV

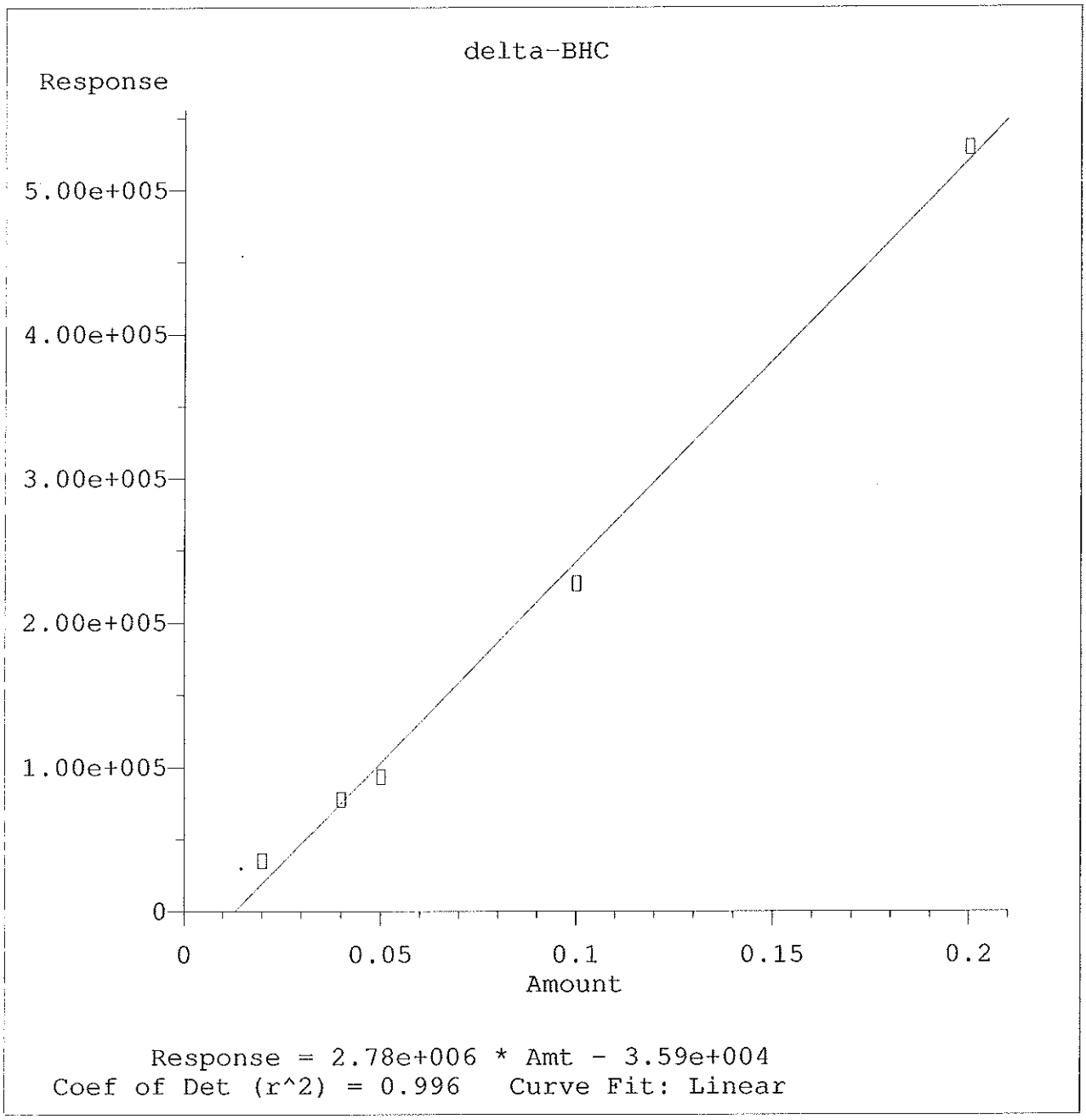
#) = Out of Range ### Number of calibration levels exceeded format ###



Method Name: C:\HPCHEM\1\METHODS\BPESTE.M
Calibration Table Last Updated: Mon Aug 25 15:38:41 2008



Method Name: C:\HPCHEM\1\METHODS\BPESTE.M
Calibration Table Last Updated: Mon Aug 25 15:38:41 2008



Method Name: C:\HPCHEM\1\METHODS\BPESTE.M
Calibration Table Last Updated: Mon Aug 25 15:38:41 2008

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082508\B082510.D Vial: 3
Acq On : 25 Aug 2008 11:27 Operator: jw
Sample : ,ical,pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:44 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.04	82753	0.033 ug/ml
Spiked Amount 0.020	Recovery	=	165.00%
2) S Decachlorobiphenyl	14.17	144153	0.035 ug/mlm3
Spiked Amount 0.020	Recovery	=	175.00%
Target Compounds			
3) alpha-BHC	7.11	228030	0.079 ug/ml
4) gamma-BHC	7.68	240999	0.083 ug/ml
5) beta-BHC	7.83	148590	0.088 ug/ml
6) delta-BHC	8.26	226790	0.082 ug/ml
7) Heptachlor	8.32	311824	0.091 ug/ml
8) Aldrin	8.79	242771	0.092 ug/ml
9) Heptachlor epoxide	9.59	247257	0.088 ug/ml
10) Endosulfan I	10.12	210251	0.087 ug/ml
11) 4,4'-DDE	10.28	225336	0.090 ug/ml
12) Dieldrin	10.48	233747	0.091 ug/ml
13) Endrin	10.88	190429	0.094 ug/ml
14) Endosulfan II	11.16	226280	0.093 ug/ml
15) 4,4'-DDD	11.04	166340	0.093 ug/ml
16) Endrin Aldehyde	11.60	234643	0.090 ug/ml
17) 4,4'-DDT	11.44	211752	0.102 ug/ml
18) Endosulfan Sulfate	11.95	229872	0.089 ug/ml
19) Endrin Ketone	12.64	271123	0.091 ug/ml
20) Methoxychlor	12.31	178796	0.111 ug/mlm3

8-25-08 J

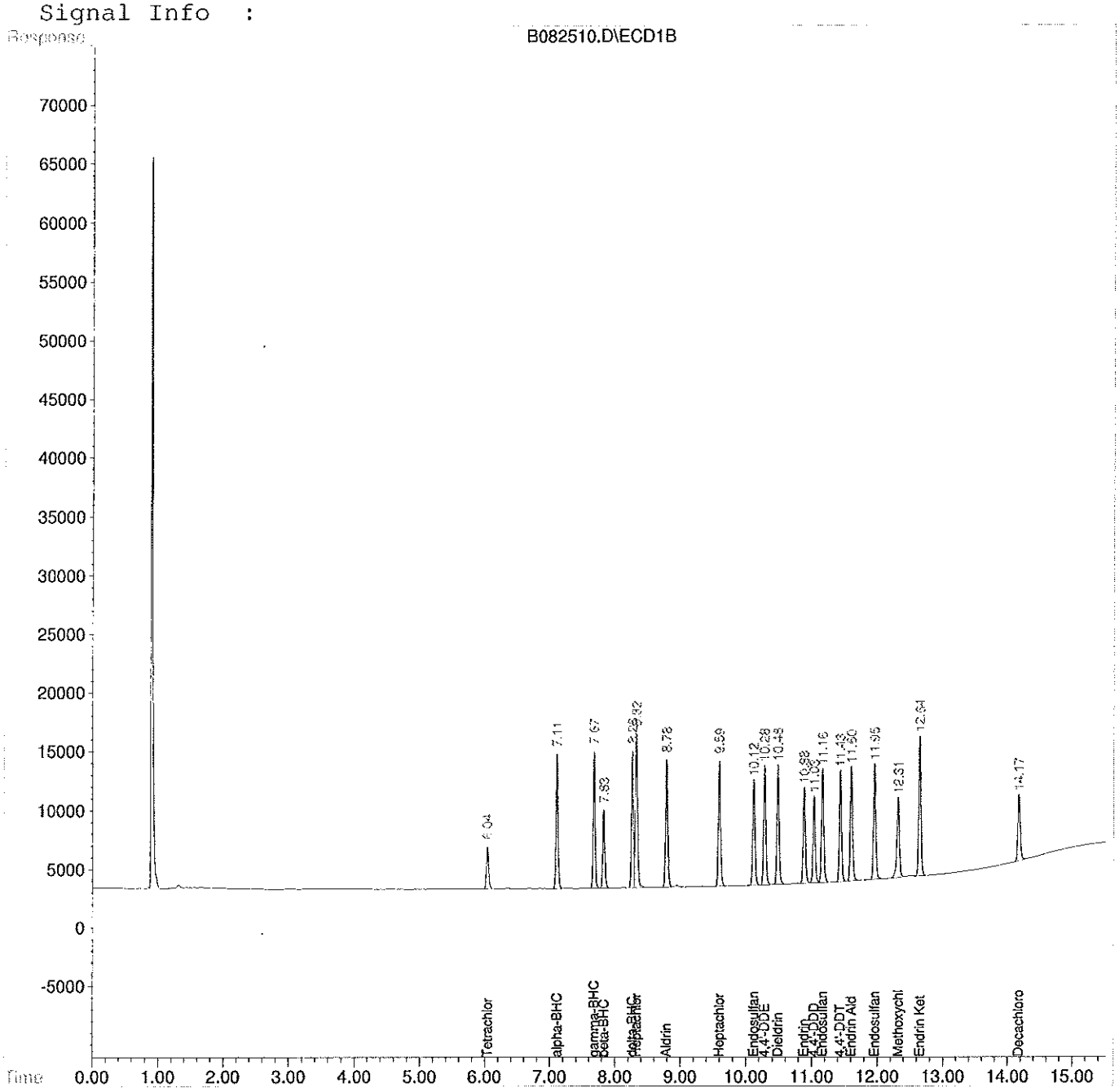
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082508\B082510.D Vial: 3
Acq On : 25 Aug 2008 11:27 Operator: jw
Sample : ,ical,pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:44 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082508\B082511.D Vial: 4
Acq On : 25 Aug 2008 12:23 Operator: jw
Sample : ,ical,pesticide 0.2ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:45 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.04	168347	0.070 ug/ml
Spiked Amount 0.020	Recovery	=	350.00%
2) S Decachlorobiphenyl	14.18	267068	0.067 ug/mlm3
Spiked Amount 0.020	Recovery	=	335.00%
Target Compounds			
3) alpha-BHC	7.11	534763	0.179 ug/ml
4) gamma-BHC	7.68	533827	0.179 ug/ml
5) beta-BHC	7.84	298091	0.182 ug/ml
6) delta-BHC	8.27	529317	0.178 ug/ml
7) Heptachlor	8.33	624966	0.185 ug/ml
8) Aldrin	8.79	521682	0.203 ug/ml
9) Heptachlor epoxide	9.60	492958	0.178 ug/ml
10) Endosulfan I	10.13	426586	0.182 ug/ml
11) 4,4'-DDE	10.29	480805	0.197 ug/ml
12) Dieldrin	10.49	489853	0.193 ug/ml
13) Endrin	10.89	395917	0.198 ug/ml
14) Endosulfan II	11.17	454328	0.190 ug/ml
15) 4,4'-DDD	11.04	357700	0.204 ug/ml
16) Endrin Aldehyde	11.61	445952	0.173 ug/ml
17) 4,4'-DDT	11.45	442332	0.213 ug/ml
18) Endosulfan Sulfate	11.96	453662	0.179 ug/ml
19) Endrin Ketone	12.65	549712	0.190 ug/ml
20) Methoxychlor	12.32	341401	0.210 ug/ml

8-25-08 J

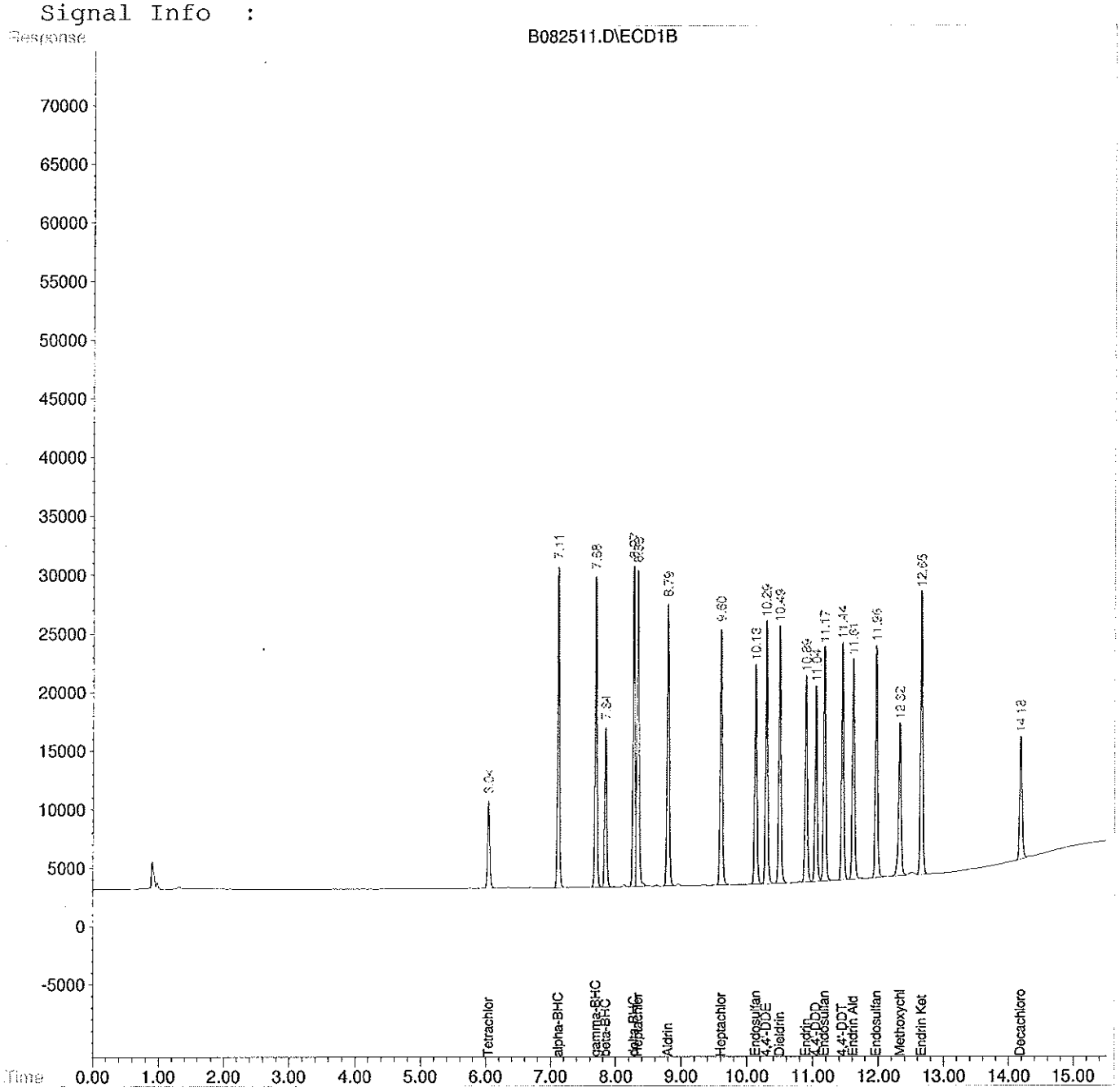
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082508\B082511.D Vial: 4
Acq On : 25 Aug 2008 12:23 Operator: jw
Sample : ,ical,pesticide 0.2ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:45 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082508\B082512.D Vial: 5
Acq On : 25 Aug 2008 12:42 Operator: jw
Sample : ,ical,pesticide 0.05ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:47 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.04	41319	0.018 ug/ml
Spiked Amount 0.020	Recovery	=	90.00%
2) S Decachlorobiphenyl	14.18	73798	0.019 ug/mlm3
Spiked Amount 0.020	Recovery	=	95.00%
Target Compounds			
3) alpha-BHC	7.11	93290	0.040 ug/ml
4) gamma-BHC	7.68	101081	0.042 ug/ml
5) beta-BHC	7.83	70631	0.044 ug/ml
6) delta-BHC	8.27	93293	0.043 ug/ml
7) Heptachlor	8.33	151567	0.046 ug/ml
8) Aldrin	8.79	110034	0.044 ug/mlm3
9) Heptachlor epoxide	9.60	119561	0.044 ug/ml
10) Endosulfan I	10.12	101035	0.044 ug/ml
11) 4,4'-DDE	10.29	103259	0.044 ug/ml
12) Dieldrin	10.49	109303	0.044 ug/ml
13) Endrin	10.89	90463	0.046 ug/mlm3
14) Endosulfan II	11.17	109802	0.047 ug/ml
15) 4,4'-DDD	11.04	75111	0.044 ug/ml
16) Endrin Aldehyde	11.60	117343	0.046 ug/ml
17) 4,4'-DDT	11.44	97167	0.047 ug/mlm3
18) Endosulfan Sulfate	11.96	111946	0.045 ug/mlm3
19) Endrin Ketone	12.65	126676	0.045 ug/mlm3
20) Methoxychlor	12.32	89938	0.055 ug/mlm3

8-25-08 J

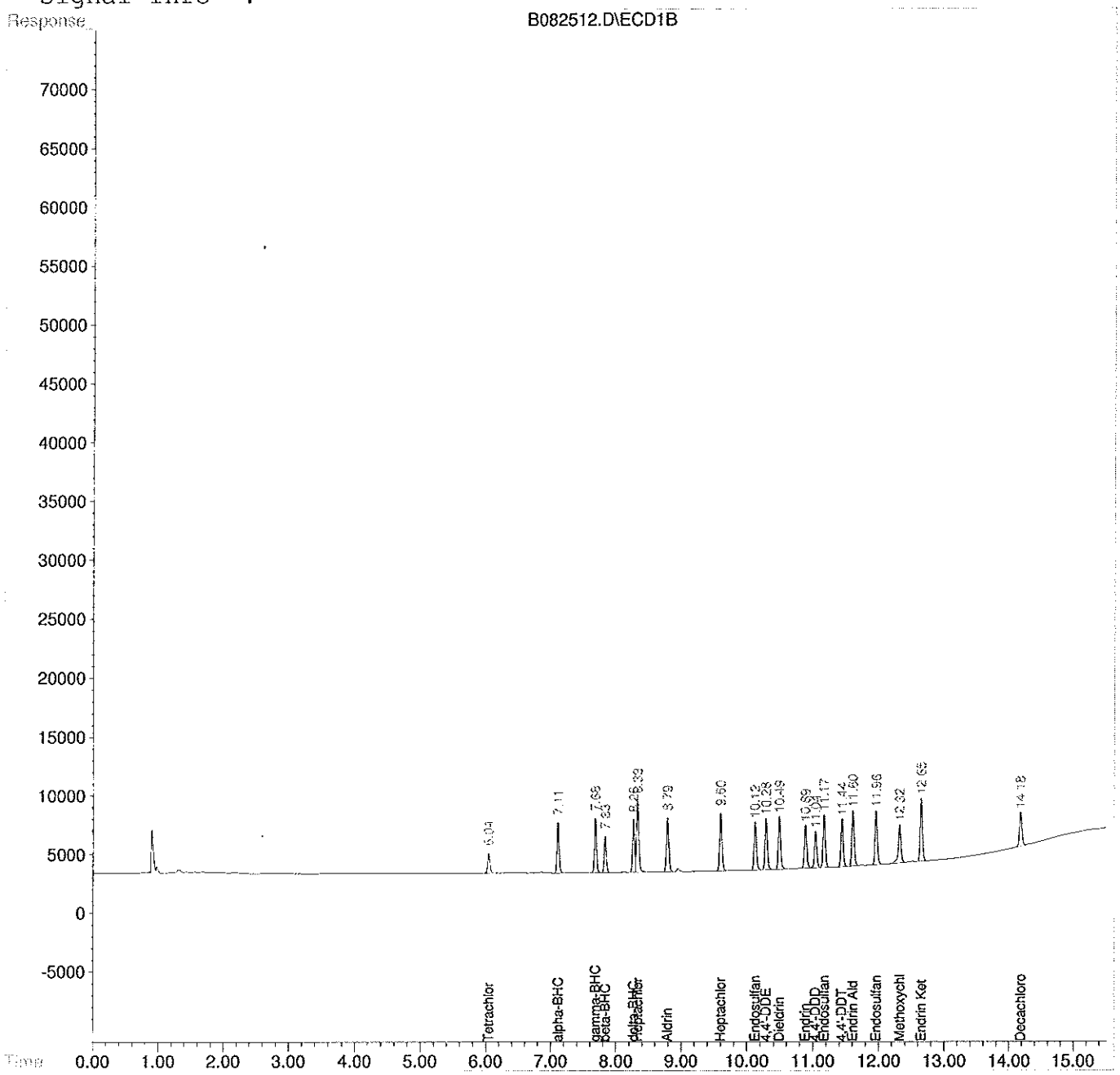
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082508\B082512.D Vial: 5
Acq On : 25 Aug 2008 12:42 Operator: jw
Sample : ,ical,pesticide 0.05ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:47 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082508\B082513.D Vial: 6
Acq On : 25 Aug 2008 13:02 Operator: jw
Sample : ,ical,pesticide 0.04ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:57 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.04	34006	0.015 ug/ml
Spiked Amount 0.020	Recovery	=	75.00%
2) S Decachlorobiphenyl	14.18	61301	0.016 ug/mlm1
Spiked Amount 0.020	Recovery	=	80.00%
Target Compounds			
3) alpha-BHC	7.11	75790	0.035 ug/ml
4) gamma-BHC	7.68	82530	0.037 ug/ml
5) beta-BHC	7.83	58993	0.038 ug/ml
6) delta-BHC	8.26	77565	0.039 ug/mlm3
7) Heptachlor	8.33	125313	0.039 ug/ml
8) Aldrin	8.79	91367	0.037 ug/mlm3
9) Heptachlor epoxide	9.60	98798	0.037 ug/ml
10) Endosulfan I	10.12	84130	0.038 ug/ml
11) 4,4'-DDE	10.28	86228	0.037 ug/ml
12) Dieldrin	10.49	89463	0.037 ug/ml
13) Endrin	10.88	74273	0.038 ug/mlm3
14) Endosulfan II	11.17	89684	0.039 ug/ml
15) 4,4'-DDD	11.04	61179	0.037 ug/ml
16) Endrin Aldehyde	11.60	100283	0.041 ug/ml
17) 4,4'-DDT	11.44	79910	0.039 ug/mlm3
18) Endosulfan Sulfate	11.96	92094	0.038 ug/ml
19) Endrin Ketone	12.64	103498	0.038 ug/mlm3
20) Methoxychlor	12.32	78196	0.046 ug/ml

8-25-08

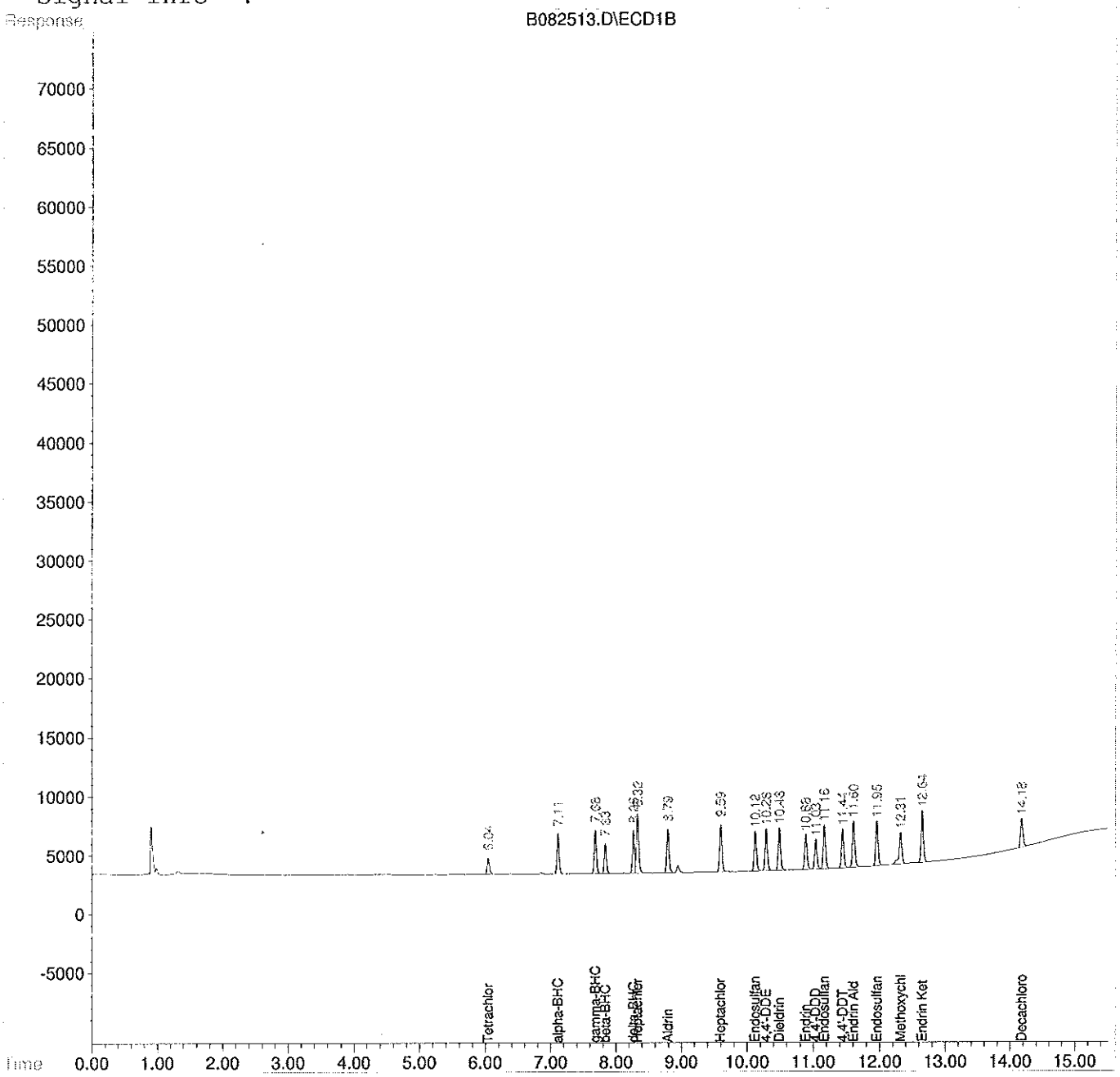
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082508\B082513.D Vial: 6
Acq On : 25 Aug 2008 13:02 Operator: jw
Sample : ,ical,pesticide 0.04ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:57 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082508\B082514.D Vial: 7
Acq On : 25 Aug 2008 13:22 Operator: jw
Sample : ,ical,pesticide 0.02ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 15:59 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.04	17119	0.008 ug/ml
Spiked Amount 0.020	Recovery	=	40.00%
2) S Decachlorobiphenyl	14.17	30978	0.008 ug/mlm1
Spiked Amount 0.020	Recovery	=	40.00%
Target Compounds			
3) alpha-BHC	7.11	34703	0.020 ug/ml
4) gamma-BHC	7.68	38867	0.022 ug/ml
5) beta-BHC	7.83	28400	0.019 ug/ml
6) delta-BHC	8.26	35058	0.025 ug/mlm3
7) Heptachlor	8.32	61895	0.019 ug/ml
8) Aldrin	8.79	42929	0.018 ug/ml
9) Heptachlor epoxide	9.59	48969	0.019 ug/ml
10) Endosulfan I	10.12	41120	0.019 ug/ml
11) 4,4'-DDE	10.28	41738	0.019 ug/ml
12) Dieldrin	10.48	43238	0.018 ug/ml
13) Endrin	10.88	36310	0.019 ug/ml
14) Endosulfan II	11.16	44771	0.020 ug/ml
15) 4,4'-DDD	11.03	29989	0.018 ug/ml
16) Endrin Aldehyde	11.60	50684	0.021 ug/ml
17) 4,4'-DDT	11.43	37865	0.019 ug/ml
18) Endosulfan Sulfate	11.95	44747	0.019 ug/mlm3
19) Endrin Ketone	12.64	49285	0.018 ug/mlm3
20) Methoxychlor	12.31	34370	0.020 ug/ml

8-25-08 jw

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082508\B082515.D Vial: 8
Acq On : 25 Aug 2008 13:42 Operator: jw
Sample : ,ical,pesticide 0.01ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 16:00 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.03	8225	0.004 ug/mlml
Spiked Amount 0.020	Recovery	=	20.00%
2) S Decachlorobiphenyl	14.17	15661	0.004 ug/mlml
Spiked Amount 0.020	Recovery	=	20.00%
Target Compounds			
3) alpha-BHC	7.10	17502	0.014 ug/ml
4) gamma-BHC	7.67	19683	0.015 ug/ml
5) beta-BHC	7.83	14036	0.010 ug/ml
6) delta-BHC	8.26	17088	0.019 ug/ml
7) Heptachlor	8.32	30489	0.010 ug/ml
8) Aldrin	8.78	21699	0.009 ug/ml
9) Heptachlor epoxide	9.59	24644	0.010 ug/mlm3
10) Endosulfan I	10.12	20270	0.010 ug/ml
11) 4,4'-DDE	10.28	21035	0.010 ug/ml
12) Dieldrin	10.48	21756	0.009 ug/ml
13) Endrin	10.88	18408	0.010 ug/ml
14) Endosulfan II	11.16	22054	0.010 ug/ml
15) 4,4'-DDD	11.03	14888	0.009 ug/ml
16) Endrin Aldehyde	11.60	26937	0.011 ug/ml
17) 4,4'-DDT	11.43	19104	0.009 ug/mlm3
18) Endosulfan Sulfate	11.95	22410	0.010 ug/ml
19) Endrin Ketone	12.64	24398	0.009 ug/mlm3
20) Methoxychlor	12.31	17186	0.010 ug/ml

8-25-08 J

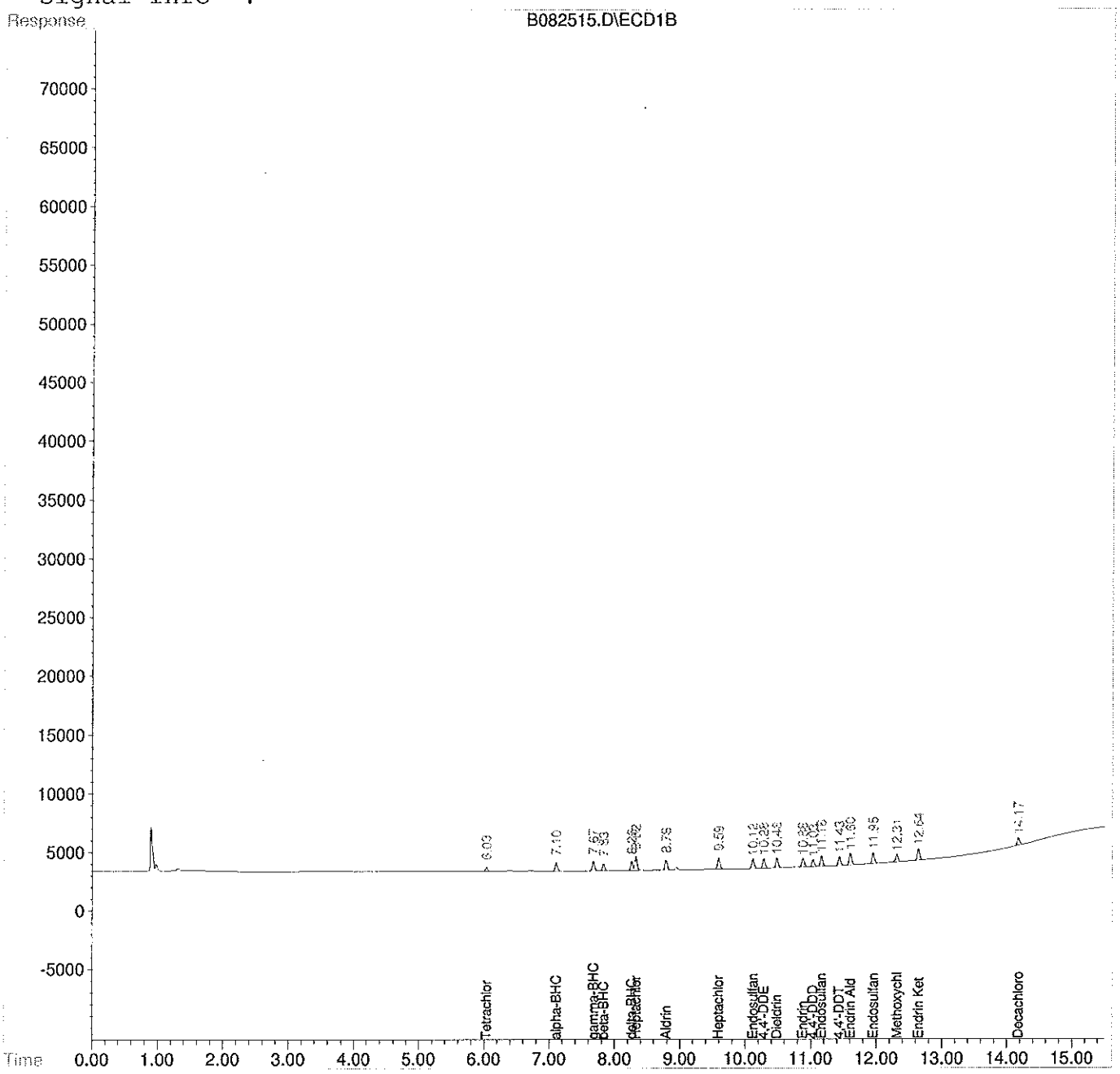
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082508\B082515.D Vial: 8
Acq On : 25 Aug 2008 13:42 Operator: jw
Sample : ,ical,pesticide 0.01ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 16:00 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082508\B082516.D Vial: 9
Acq On : 25 Aug 2008 14:02 Operator: jw
Sample : ,ical,pesticide 0.005ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 16:04 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.03	4501	0.002 ug/mlm1
Spiked Amount 0.020	Recovery	=	10.00%
2) S Decachlorobiphenyl	14.17	8038	0.002 ug/mlm1
Spiked Amount 0.020	Recovery	=	10.00%
Target Compounds			
3) alpha-BHC	7.10	8497	0.011 ug/mlm1
4) gamma-BHC	7.67	9276	0.011 ug/mlm1
5) beta-BHC	7.83	7622	0.005 ug/mlm1
6) delta-BHC	8.26	9616	0.016 ug/mlm2
7) Heptachlor	8.32	15832	0.005 ug/ml
8) Aldrin	8.78	10860	0.005 ug/ml
9) Heptachlor epoxide	9.59	12302	0.005 ug/ml
10) Endosulfan I	10.12	10539	0.005 ug/ml
11) 4,4'-DDE	10.28	10567	0.005 ug/mlm3
12) Dieldrin	10.48	11313	0.005 ug/mlm3
13) Endrin	10.88	9157	0.005 ug/mlm1
14) Endosulfan II	11.16	10679	0.005 ug/ml
15) 4,4'-DDD	11.03	7067	0.004 ug/mlm2
16) Endrin Aldehyde	11.60	14943	0.006 ug/ml
17) 4,4'-DDT	11.43	9279	0.005 ug/mlm1
18) Endosulfan Sulfate	11.95	10856	0.005 ug/mlm3
19) Endrin Ketone	12.64	11670	0.004 ug/mlm3
20) Methoxychlor	12.31	8400	0.005 ug/mlm1

8-25-08 J

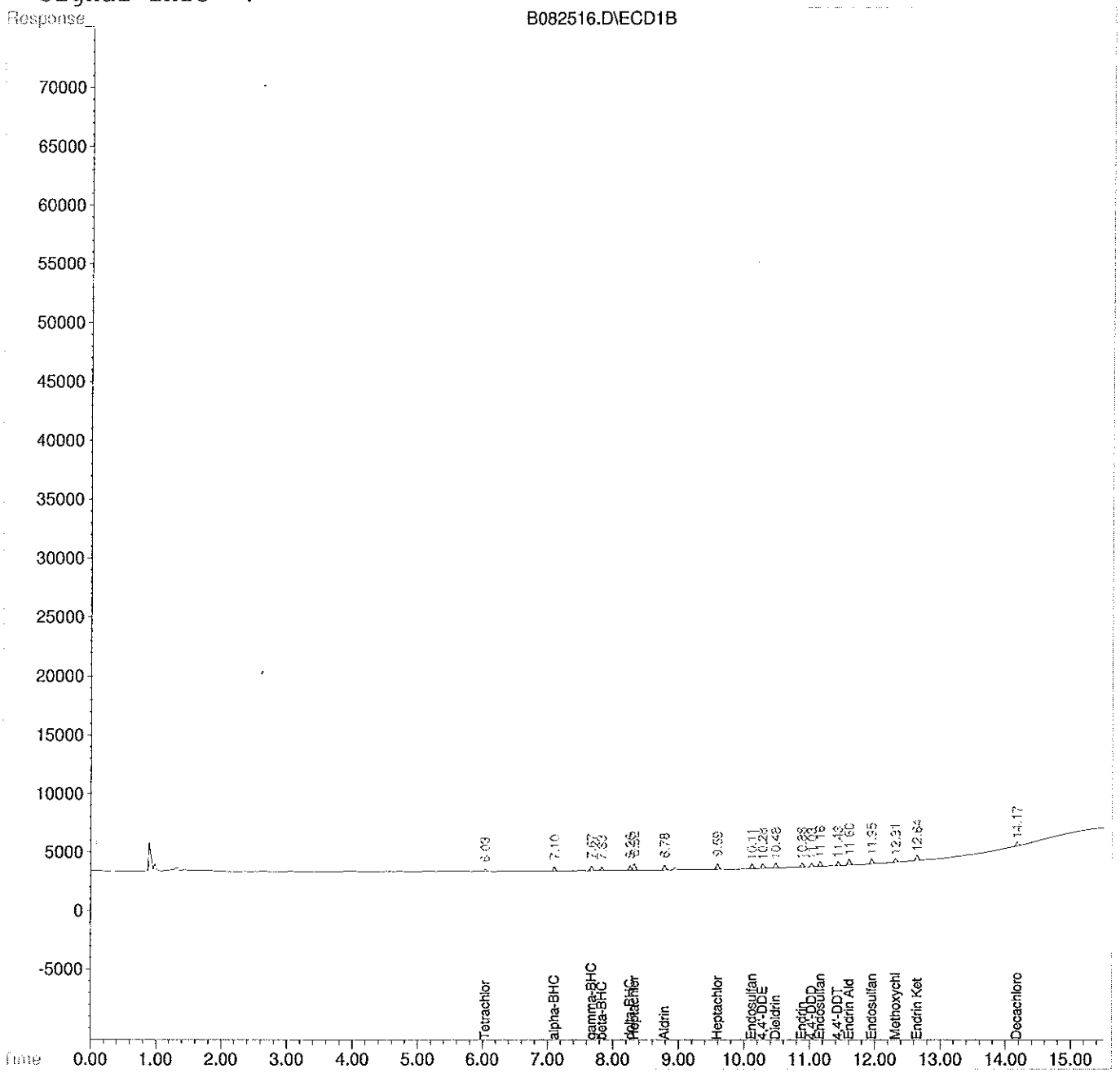
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082508\B082516.D Vial: 9
Acq On : 25 Aug 2008 14:02 Operator: jw
Sample : ,ical,pesticide 0.005ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 16:04 2008 Quant Results File: BPESTD.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTD.M (Chemstation Integrator)
Title : **07/14/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Aug 25 15:38:41 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report ECD1

Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008

Calibration Files
0.05 =B082212.D 0.10 =B082210.D 0.20 =B082209.D
0.5 =B082208.D 1.0 =B082207.D 2.00 =B082206.D

		Compound	0.05	0.10	0.20	0.5	1.0	2.00	Avg		%RSD
1)	S	Tetrachloro-m-xylen	2.220	2.135	2.206	2.136	2.040	2.055	2.132	E6	3.48
2)	S	Decachlorobiphenyl	3.633	3.909	3.753	3.583	3.263	3.087	3.538	E6	8.70
3)		Ar1016peak1	6.356	7.108	6.634	6.347	5.781	5.417	6.274	E4	9.60
4)		Ar1016peak2	1.364	1.493	1.349	1.247	1.112	1.019	1.264	E5	13.84
5)		Ar1016peak3	1.065	1.153	1.173	1.114	0.967	0.921	1.066	E5	9.57
6)		Ar1016peak4	7.936	8.831	8.425	7.951	7.828	7.690	8.110	E4	5.32
7)		Ar1016peak5	6.296	6.013	6.458	5.913	5.271	5.569	5.920	E4	7.49
8)		Ar1260peak1	2.297	2.422	2.336	2.068	1.795	1.620	2.090	E5	15.47
9)		Ar1260peak2	2.705	2.617	2.726	2.567	2.301	2.160	2.513	E5	9.17
10)		Ar1260peak3	1.600	1.696	1.656	1.528	1.363	1.274	1.519	E5	11.05
11)		Ar1260peak4	3.708	3.690	3.744	3.487	3.025	2.830	3.414	E5	11.49
12)		Ar1260peak5	0.874	1.070	1.047	1.007	0.933	0.909	0.973	E5	8.13

All <20%

*Good for 8082 only

8-22-08 JL

#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082208\B082206.D Vial: 3
Acq On : 22 Aug 2008 10:50 Operator: jw
Sample : ,ical,ar1660 2.0ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:48 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:46:45 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	Tetrachloro-m-xylene	6.14	164407	0.066 ug/ml
2) S	Decachlorobiphenyl	14.31	246980	0.053 ug/mlm3
	Target Compounds			
3)	Ar1016peak1	7.00	108339	1.520 ug/ml
4)	Ar1016peak2	7.63	203822	1.389 ug/ml
5)	Ar1016peak3	8.49	184217	1.511 ug/ml
6)	Ar1016peak4	9.32	153793	2.134 ug/ml
7)	Ar1016peak5	9.96	111370	1.100 ug/ml
8)	Ar1260peak1	11.09	323980	1.290 ug/ml
9)	Ar1260peak2	11.55	431904	1.389 ug/ml
10)	Ar1260peak3	12.05	254775	1.352 ug/ml
11)	Ar1260peak4	12.36	565918	1.309 ug/ml
12)	Ar1260peak5	13.56	181762	1.376 ug/mlm3

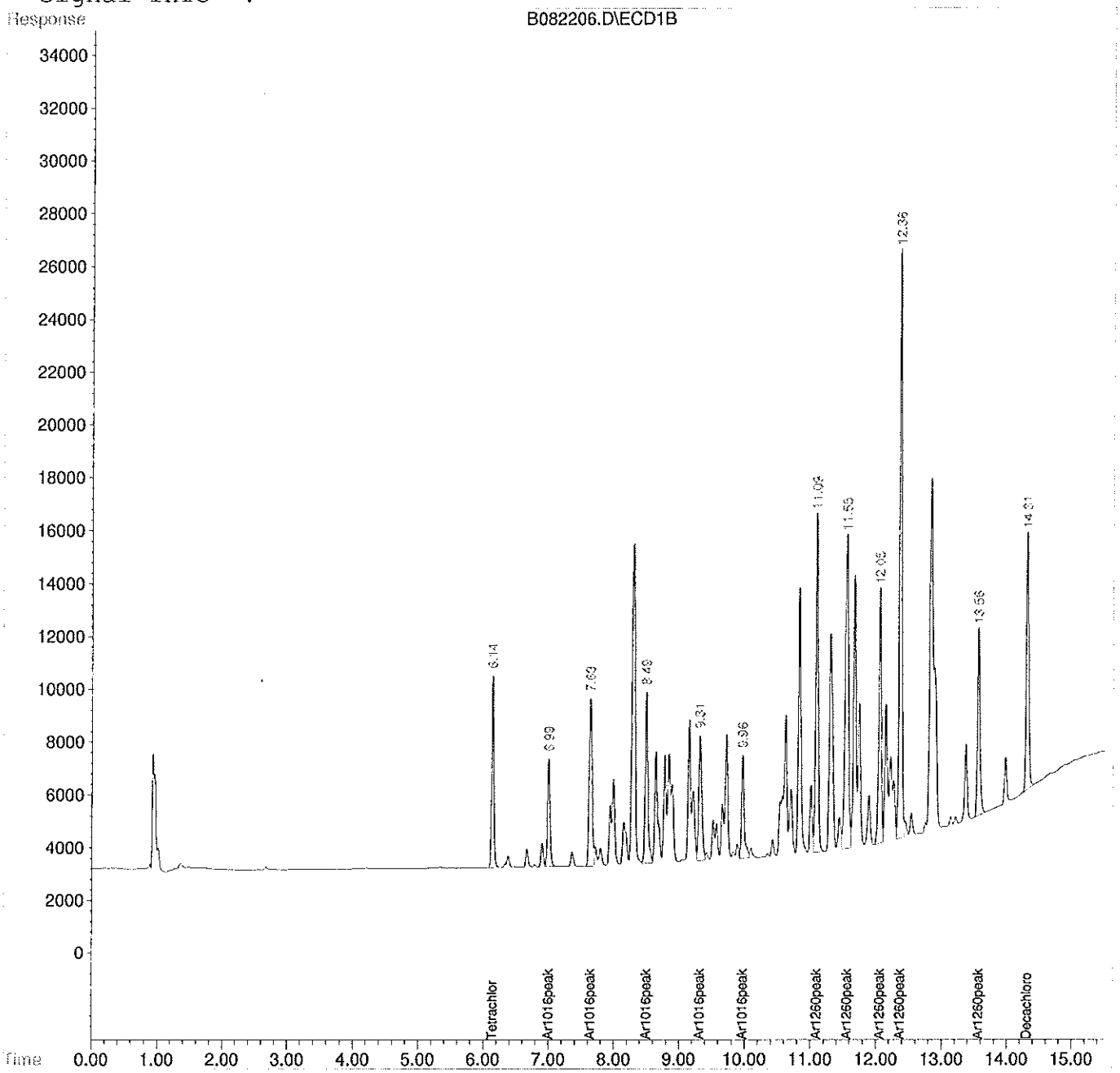
8-22-08

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082208\B082206.D Vial: 3
Acq On : 22 Aug 2008 10:50 Operator: jw
Sample : ,ical,ar1660 2.0ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:48 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:46:45 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082208\B082207.D Vial: 4
Acq On : 22 Aug 2008 11:10 Operator: jw
Sample : ,ical,ar1660 1.0ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:53 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	Tetrachloro-m-xylene	6.14	81601	0.034 ug/ml
2)	S	Decachlorobiphenyl	14.31	130533	0.030 ug/mlm3
Target Compounds					
3)		Ar1016peak1	7.00	57811	0.841 ug/ml
4)		Ar1016peak2	7.63	111201	0.780 ug/ml
5)		Ar1016peak3	8.50	96746	0.829 ug/ml
6)		Ar1016peak4	9.32	78284	1.024 ug/ml
7)		Ar1016peak5	9.97	52713	0.593 ug/ml
8)		Ar1260peak1	11.09	179455	0.740 ug/ml
9)		Ar1260peak2	11.55	230118	0.777 ug/ml
10)		Ar1260peak3	12.05	136335	0.763 ug/ml
11)		Ar1260peak4	12.36	302530	0.738 ug/ml
12)		Ar1260peak5	13.56	93335	0.780 ug/mlm3

8-22-08 jw

8/25/08

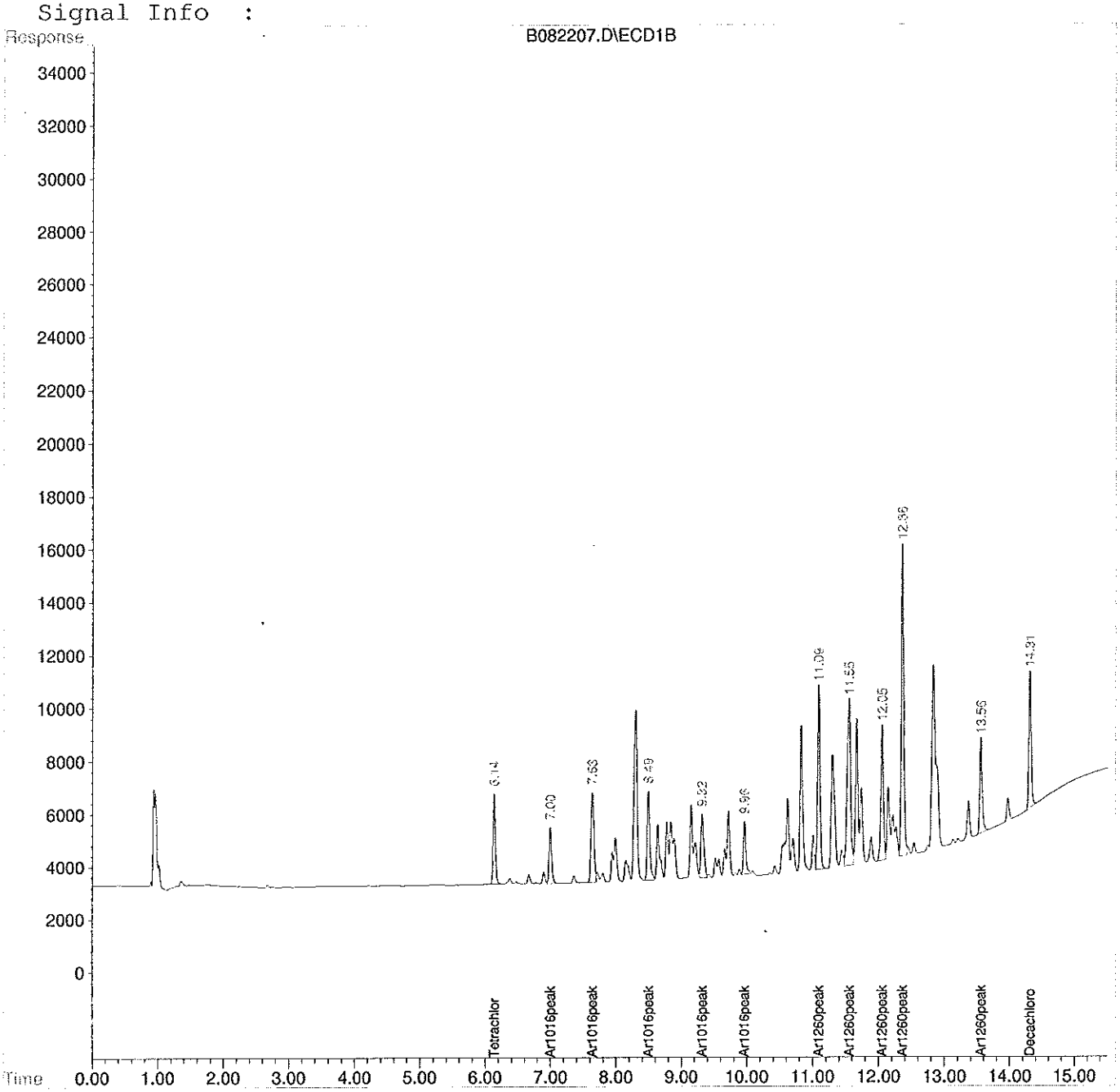
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082208\B082207.D Vial: 4
Acq On : 22 Aug 2008 11:10 Operator: jw
Sample : ,ical,ar1660 1.0ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:53 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082208\B082208.D Vial: 5
Acq On : 22 Aug 2008 11:30 Operator: jw
Sample : ,ical,ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:54 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	Tetrachloro-m-xylene	6.14	42728	0.018 ug/ml
2) S	Decachlorobiphenyl	14.31	71662	0.017 ug/mlm3
	Target Compounds			
3)	Ar1016peak1	7.00	31736	0.474 ug/ml
4)	Ar1016peak2	7.63	62361	0.448 ug/mlm3
5)	Ar1016peak3	8.50	55697	0.494 ug/ml
6)	Ar1016peak4	9.32	39755	0.506 ug/ml
7)	Ar1016peak5	9.97	29564	0.364 ug/ml
8)	Ar1260peak1	11.09	103393	0.440 ug/ml
9)	Ar1260peak2	11.55	128367	0.449 ug/ml
10)	Ar1260peak3	12.05	76391	0.443 ug/ml
11)	Ar1260peak4	12.36	174335	0.443 ug/ml
12)	Ar1260peak5	13.56	50330	0.441 ug/mlm3

8-22-08 JW

Thu 8/28/08

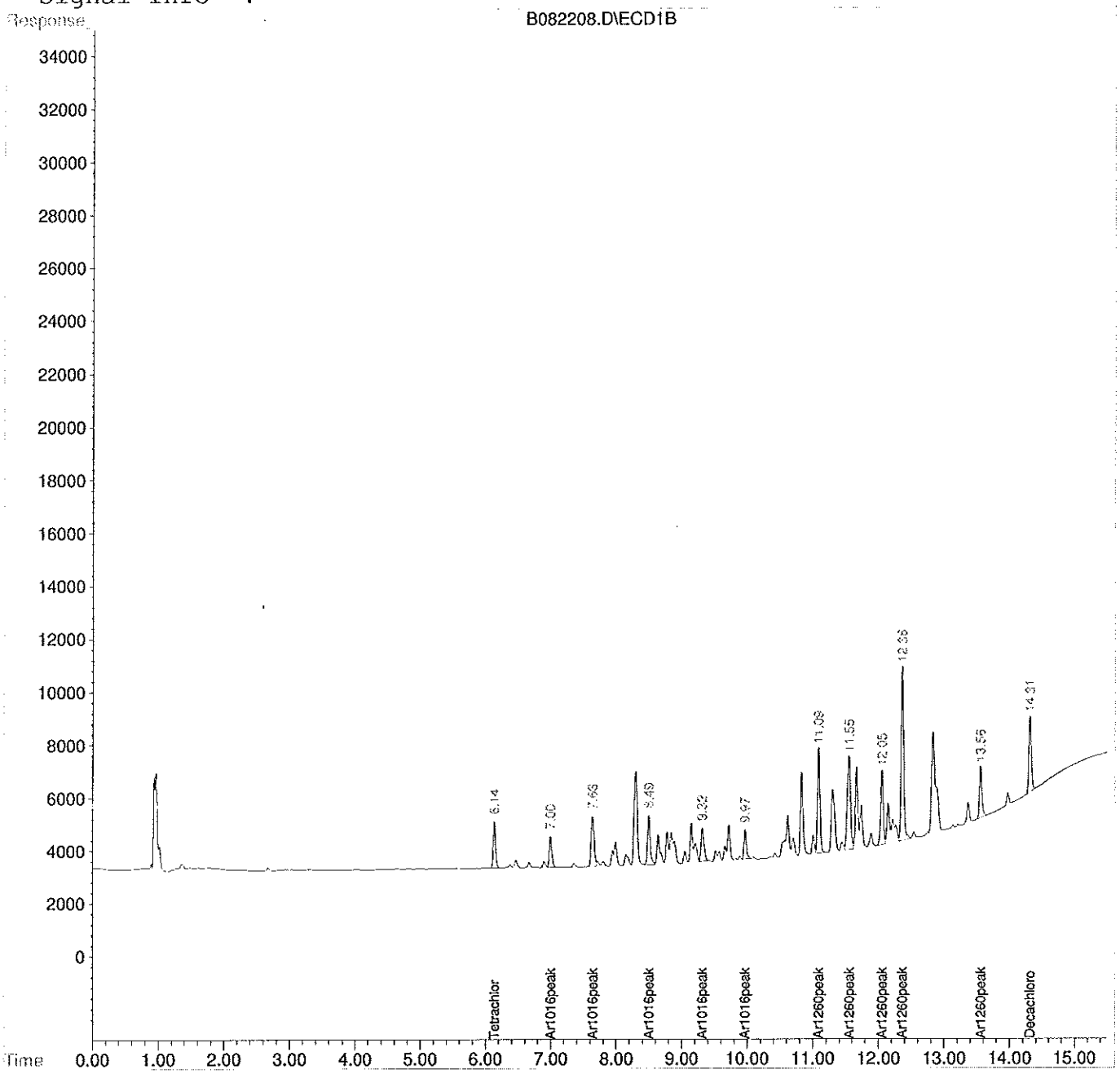
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082208\B082208.D Vial: 5
Acq On : 22 Aug 2008 11:30 Operator: jw
Sample : ,ical,ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:54 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082208\B082209.D Vial: 6
Acq On : 22.Aug 2008 11:50 Operator: jw
Sample : ,ical,ar1660 0.2ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:56 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	Tetrachloro-m-xylene	6.14	17645	0.008 ug/ml
2)	S	Decachlorobiphenyl	14.31	30025	0.008 ug/mlm3
Target Compounds					
3)		Ar1016peak1	7.00	13268	0.203 ug/ml
4)		Ar1016peak2	7.63	26985	0.202 ug/ml
5)		Ar1016peak3	8.50	23462	0.214 ug/ml
6)		Ar1016peak4	9.32	16851	0.211 ug/ml
7)		Ar1016peak5	9.97	12915	0.175 ug/ml
8)		Ar1260peak1	11.09	46712	0.205 ug/ml
9)		Ar1260peak2	11.55	54511	0.198 ug/ml
10)		Ar1260peak3	12.05	33115	0.199 ug/ml
11)		Ar1260peak4	12.36	74877	0.197 ug/ml
12)		Ar1260peak5	13.56	20932	0.193 ug/mlm3

8-22-08 JW

JW 8/25/08

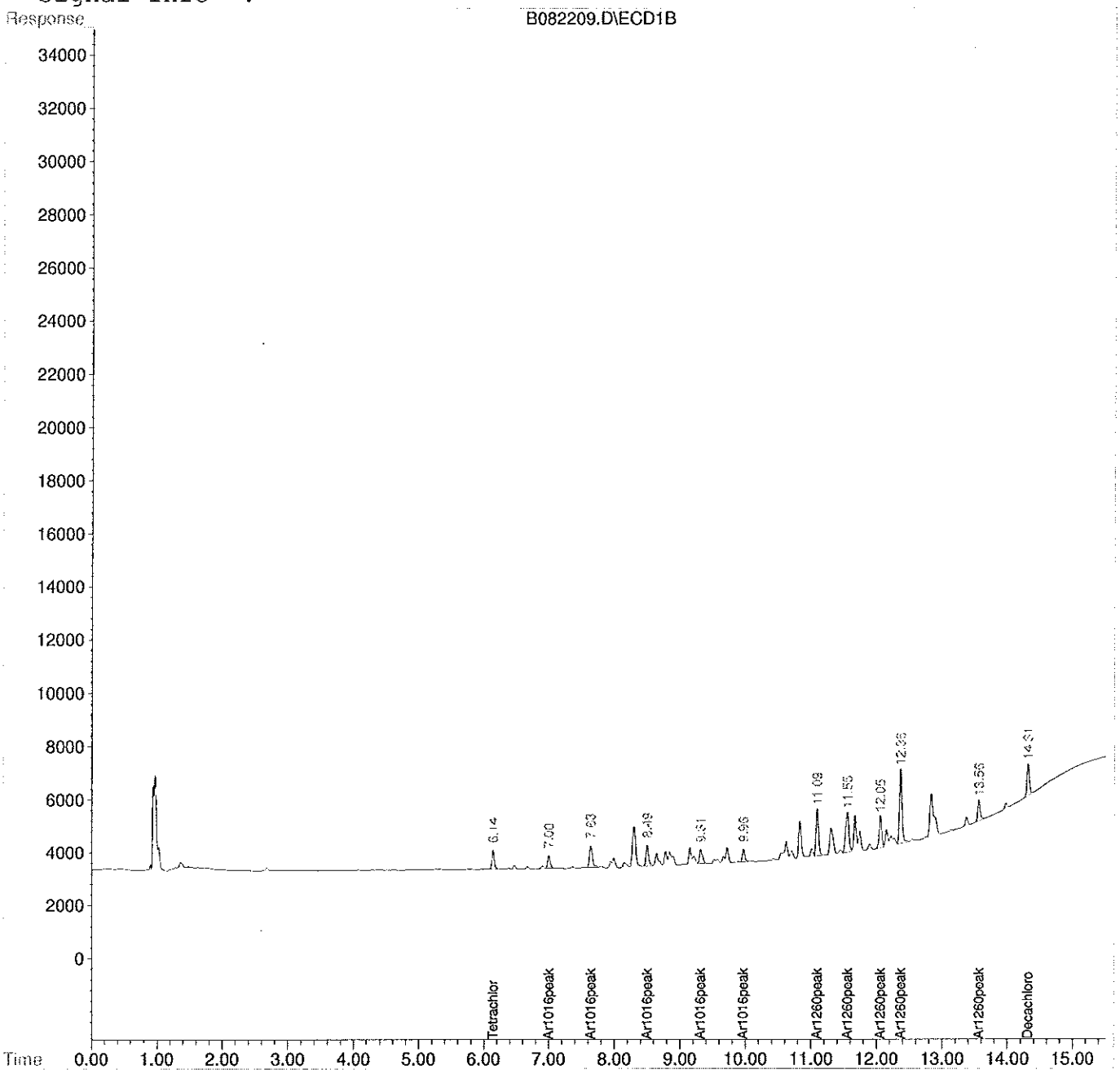
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082208\B082209.D Vial: 6
Acq On : 22 Aug 2008 11:50 Operator: jw
Sample : ,ical,ar1660 0.2ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:56 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082208\B082210.D Vial: 7
Acq On : 22 Aug 2008 12:10 Operator: jw
Sample : ,ical,ar1660 0.1ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:57 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	Tetrachloro-m-xylene	6.14	8540	0.004 ug/ml
2)	S	Decachlorobiphenyl	14.31	15635	0.004 ug/mlm3
Target Compounds					
3)		Ar1016peak1	7.00	7108	0.111 ug/ml
4)		Ar1016peak2	7.63	14927	0.116 ug/mlm3
5)		Ar1016peak3	8.50	11527	0.107 ug/mlm3
6)		Ar1016peak4	9.32	8831	0.109 ug/ml
7)		Ar1016peak5	9.97	6013	0.090 ug/ml
8)		Ar1260peak1	11.09	24222	0.111 ug/ml
9)		Ar1260peak2	11.56	26168	0.099 ug/ml
10)		Ar1260peak3	12.05	16963	0.106 ug/mlm3
11)		Ar1260peak4	12.36	36904	0.102 ug/ml
12)		Ar1260peak5	13.56	10696	0.103 ug/mlm3

8-22-08 J

J Tue 8/26/08

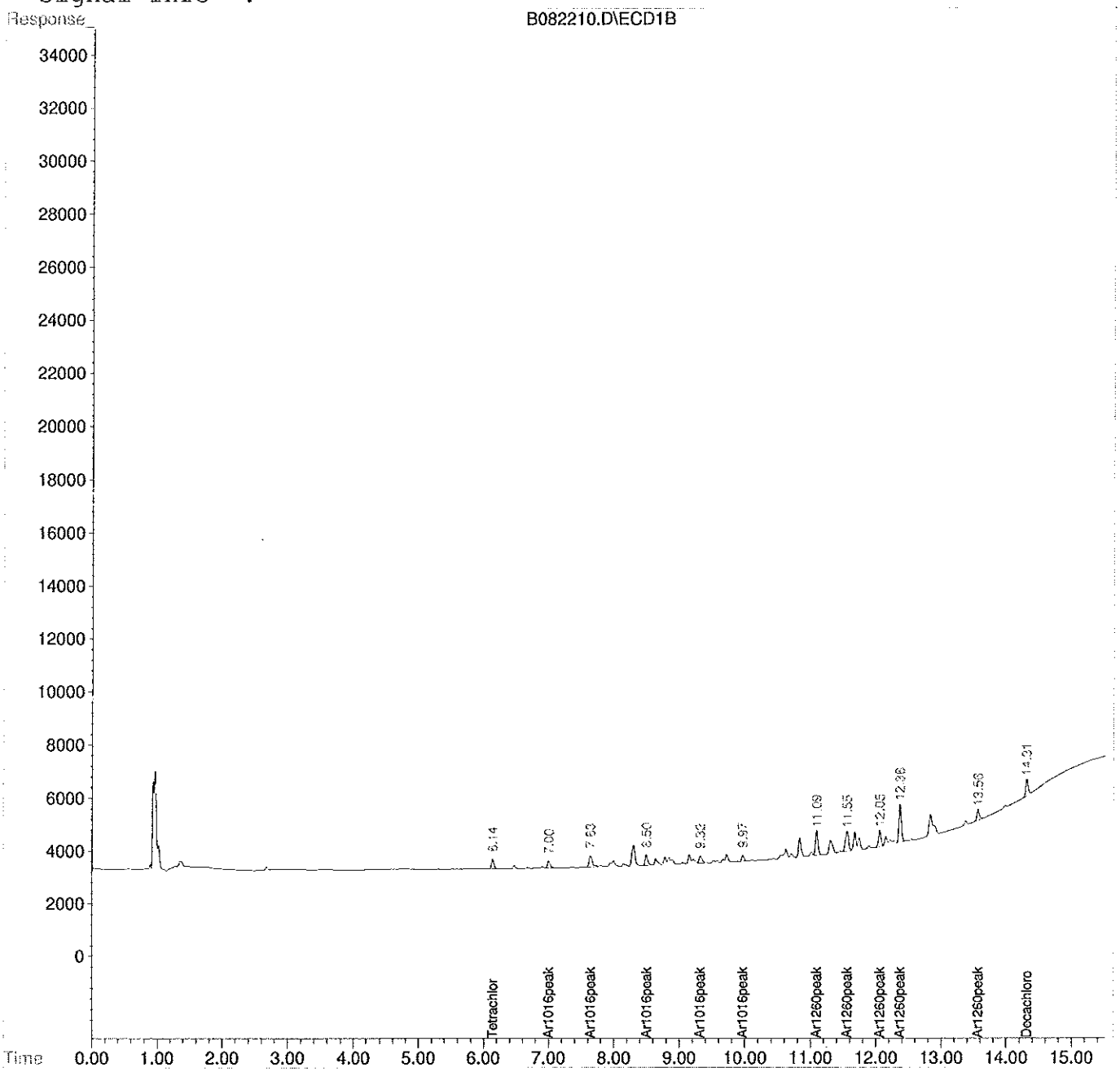
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082208\B082210.D Vial: 7
Acq On : 22 Aug 2008 12:10 Operator: jw
Sample : ,ical,ar1660 0.1ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:57 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:52:37 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B082208\B082212.D Vial: 9
Acq On : 22 Aug 2008 12:50 Operator: jw
Sample : ,ical,ar1660 0.05ug/ml,1,old, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:50 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:46:45 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	Tetrachloro-m-xylene	6.14	4439	0.002 ug/mlm1
2)	S	Decachlorobiphenyl	14.31	7266	0.002 ug/mlm1
Target Compounds					
3)		Ar1016peak1	7.00	3178	0.046 ug/mlm1
4)		Ar1016peak2	7.63	6822	0.047 ug/mlm3
5)		Ar1016peak3	8.49	5324	0.045 ug/mlm1
6)		Ar1016peak4	9.32	3968	0.052 ug/mlm1
7)		Ar1016peak5	9.96	3148	0.033 ug/mlm1
8)		Ar1260peak1	11.09	11486	0.047 ug/ml
9)		Ar1260peak2	11.55	13523	0.045 ug/mlm3
10)		Ar1260peak3	12.05	7998	0.044 ug/mlm3
11)		Ar1260peak4	12.36	18542	0.044 ug/mlm3
12)		Ar1260peak5	13.56	4371	0.035 ug/mlm3

8-22-08 JW

JWC 8/25/08

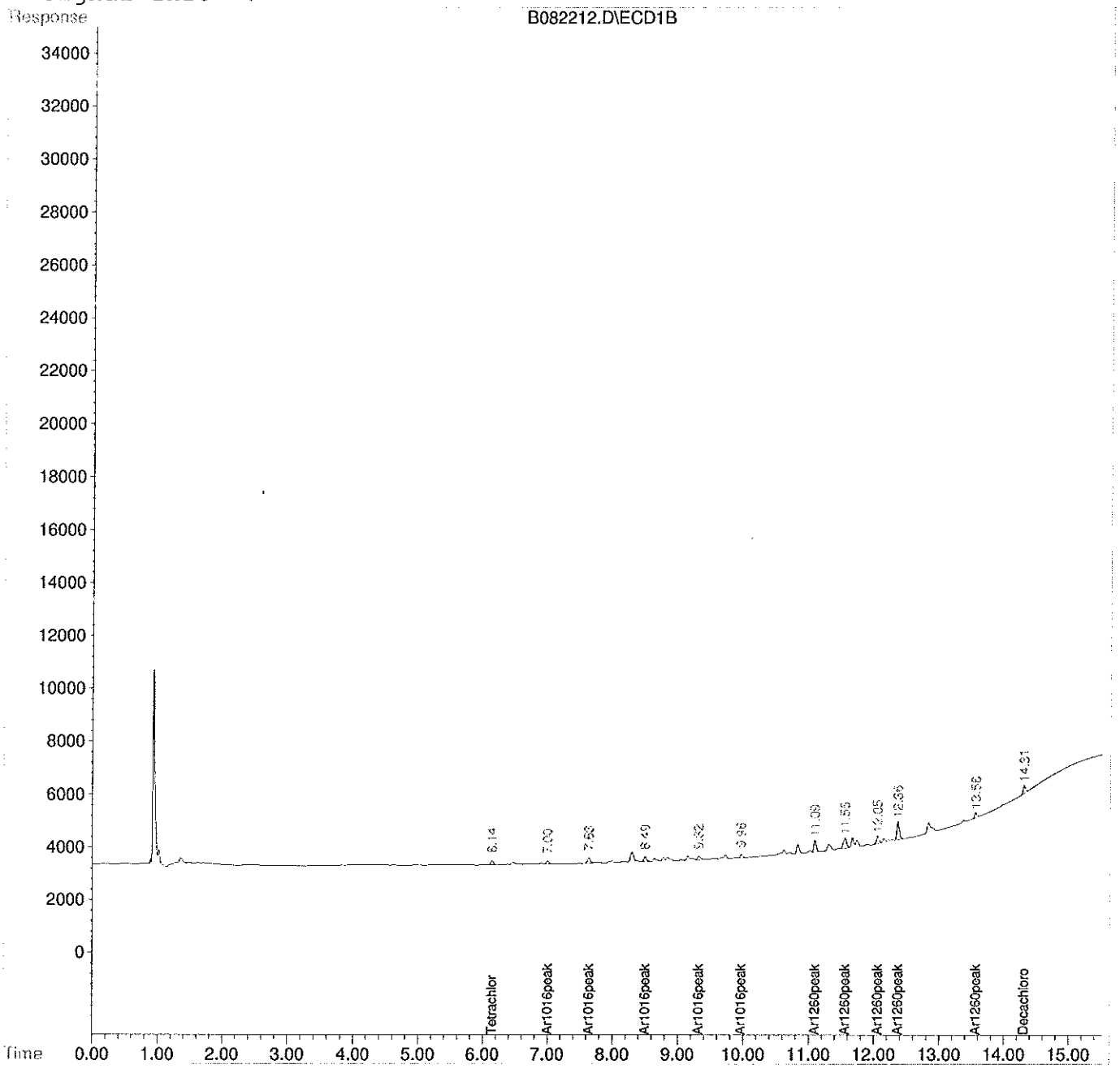
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B082208\B082212.D Vial: 9
Acq On : 22 Aug 2008 12:50 Operator: jw
Sample : ,ical,ar1660 0.05ug/ml,1,old, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Aug 22 13:50 2008 Quant Results File: B1660D.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660D.M (Chemstation Integrator)
Title : **08/20/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Fri Aug 22 13:46:45 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



CONTINUING CALIBRATION RAW DATA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100302.D Vial: 2
Acq On : 3 Oct 2008 15:39 Operator: jw
Sample : ,ccv,ccv ddt/endrin 0.5ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:16 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	0.00	0	N.D.	ug/ml
Spiked Amount 0.020		Recovery =	0.00%	
2) S Decachlorobiphenyl	0.00	0	N.D.	ug/ml
Spiked Amount 0.020		Recovery =	0.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	0.00	0	N.D.	ug/ml
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	10.17	6030	0.003	ug/mlm1
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	10.77	1103537	0.589	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/ml
15) 4,4'-DDD	10.92	2958	0.002	ug/mlm1
16) Endrin Aldehyde	11.49	8469	0.004	ug/mlm1
17) 4,4'-DDT	11.32	1095902	0.539	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	12.52	20526	0.008	ug/ml
20) Methoxychlor	0.00	0	N.D.	ug/ml

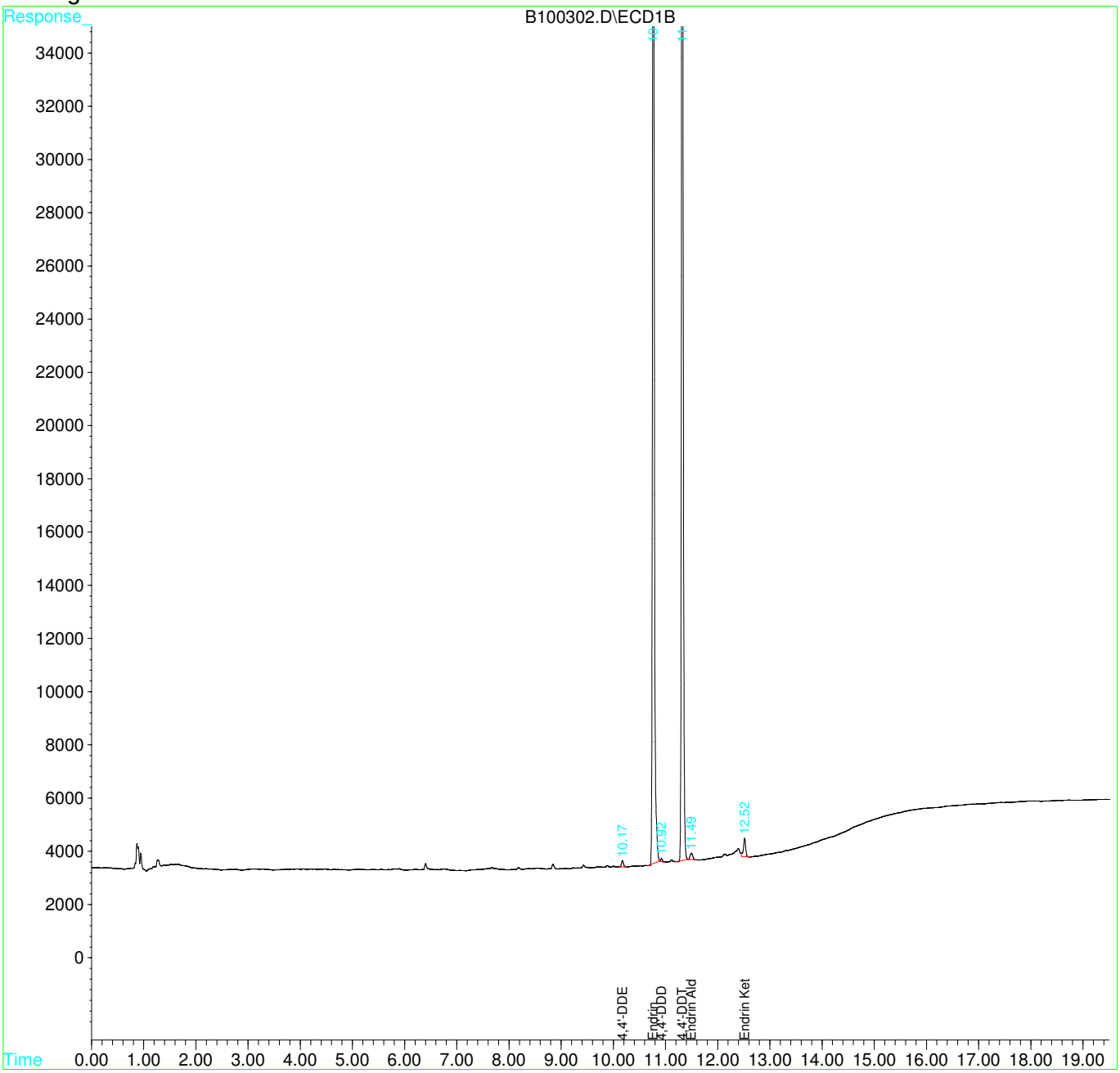
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100302.D Vial: 2
Acq On : 3 Oct 2008 15:39 Operator: jw
Sample : ,ccv,ccv ddt/endrin 0.5ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:16 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B100308\B100303.D Vial: 3
Acq On : 3 Oct 2008 16:03 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	2.093	2.125 E6	-1.5	103	0.00
2	S	Decachlorobiphenyl	3.708	3.842 E6	-3.6	107	0.00
3		alpha-BHC	1.986	2.368 E6	-19.2	104	0.00
4		gamma-BHC	2.179	2.457 E6	-12.8	102	0.00
5		beta-BHC	1.457	1.549 E6	-6.3	104	0.00
6		delta-BHC	2.094	2.404 E6	-14.8	106	0.00
7		Heptachlor	3.100	3.146 E6	-1.5	101	0.00
8		Aldrin	2.287	2.455 E6	-7.3	101	0.00
9		Heptachlor epoxide	2.452	2.468 E6	-0.7	100	0.00
10		Endosulfan I	2.083	2.121 E6	-1.8	101	0.00
11		4,4'-DDE	2.193	2.284 E6	-4.1	101	0.00
12		Dieldrin	2.259	2.378 E6	-5.3	102	0.00
13		Endrin	1.873	2.002 E6	-6.9	105	0.00
14		Endosulfan II	2.242	2.310 E6	-3.0	102	0.00
15		4,4'-DDD	1.597	1.694 E6	-6.1	102	0.00
16		Endrin Aldehyde	2.393	2.388 E6	0.2	102	0.00
17		4,4'-DDT	2.033	2.175 E6	-7.0	103	0.00
18		Endosulfan Sulfate	2.269	2.370 E6	-4.5	103	0.00
19		Endrin Ketone	2.609	2.854 E6	-9.4	105	0.00
20		Methoxychlor	1.793	1.837 E6	-2.5	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100303.D Vial: 3
Acq On : 3 Oct 2008 16:03 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:17 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	5.94	84982	0.041 ug/ml
Spiked Amount 0.020		Recovery =	205.00%
2) S Decachlorobiphenyl	14.05	153660	0.041 ug/mlm3
Spiked Amount 0.020		Recovery =	205.00%
Target Compounds			
3) alpha-BHC	7.01	236841	0.096 ug/ml
4) gamma-BHC	7.57	245704	0.098 ug/ml
5) beta-BHC	7.73	154908	0.106 ug/ml
6) delta-BHC	8.16	240366	0.099 ug/ml
7) Heptachlor	8.21	314595	0.101 ug/ml
8) Aldrin	8.67	245510	0.107 ug/ml
9) Heptachlor epoxide	9.48	246803	0.101 ug/ml
10) Endosulfan I	10.00	212134	0.102 ug/ml
11) 4,4'-DDE	10.17	228352	0.104 ug/ml
12) Dieldrin	10.37	237753	0.105 ug/ml
13) Endrin	10.76	200179	0.107 ug/ml
14) Endosulfan II	11.04	231032	0.103 ug/ml
15) 4,4'-DDD	10.92	169408	0.106 ug/ml
16) Endrin Aldehyde	11.48	238779	0.100 ug/ml
17) 4,4'-DDT	11.32	217514	0.107 ug/ml
18) Endosulfan Sulfate	11.83	236984	0.104 ug/ml
19) Endrin Ketone	12.52	285364	0.109 ug/ml
20) Methoxychlor	12.20	183736	0.102 ug/ml

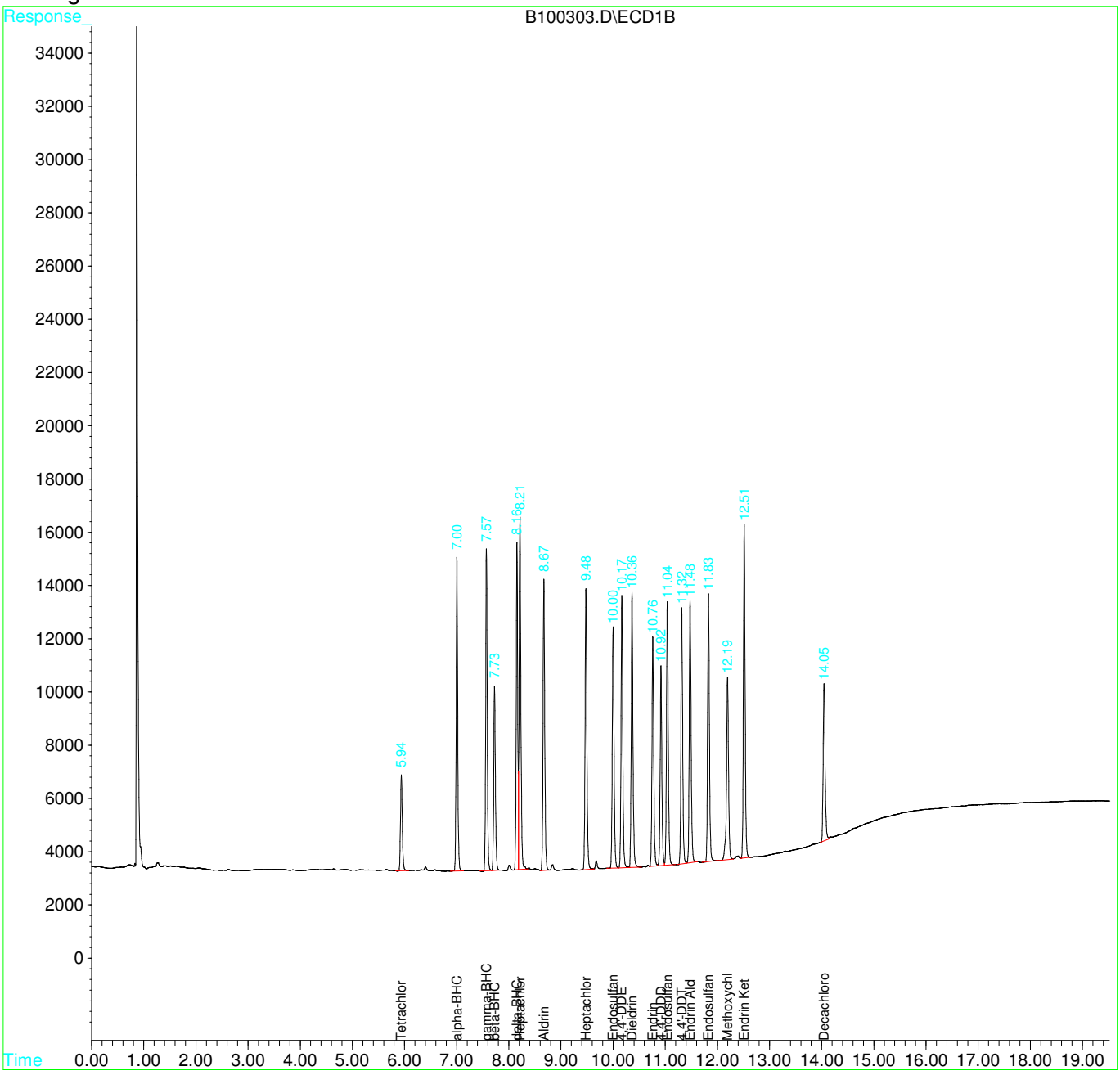
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100303.D Vial: 3
Acq On : 3 Oct 2008 16:03 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:17 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B100308\B100304.D Vial: 4
Acq On : 3 Oct 2008 16:29 Operator: jw
Sample : ,ccv,ccv ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	2.132	2.272 E6	-6.6	106	0.00
2	S	Decachlorobiphenyl	3.538	4.235 E6	-19.7	118	0.00
3		Ar1016peak1	62.739	66.143 E3	-5.4	104	0.00
4		Ar1016peak2	126.412	131.012 E3	-3.6	105	0.00
5		Ar1016peak3	106.551	116.323 E3	-9.2	104	0.00
6		Ar1016peak4	81.102	93.582 E3	-15.4	118	0.00
7		Ar1016peak5	59.198	65.201 E3	-10.1	110	0.00
8		Ar1260peak1	208.955	226.949 E3	-8.6	110	0.00
9		Ar1260peak2	251.251	285.852 E3	-13.8	111	0.00
10		Ar1260peak3	151.945	172.366 E3	-13.4	113	0.00
11		Ar1260peak4	341.405	394.024 E3	-15.4	113	0.00
12		Ar1260peak5	97.319	119.256 E3	-22.5	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100304.D Vial: 4
Acq On : 3 Oct 2008 16:29 Operator: jw
Sample : ,ccv,ccv ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:20 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

		Compound	R.T.	Response	Conc Units
System Monitoring Compounds					
1)	S	Tetrachloro-m-xylene	5.94	45438	0.021 ug/ml
2)	S	Decachlorobiphenyl	14.04	84704	0.024 ug/mlm3
Target Compounds					
3)		Ar1016peak1	6.79	33072	0.527 ug/ml
4)		Ar1016peak2	7.42	65506	0.518 ug/mlm3
5)		Ar1016peak3	8.28	58162	0.546 ug/ml
6)		Ar1016peak4	9.09	46791	0.577 ug/ml
7)		Ar1016peak5	9.74	32601	0.551 ug/ml
8)		Ar1260peak1	10.86	113474	0.543 ug/ml
9)		Ar1260peak2	11.31	142926	0.569 ug/ml
10)		Ar1260peak3	11.81	86183	0.567 ug/ml
11)		Ar1260peak4	12.12	197012	0.577 ug/ml
12)		Ar1260peak5	13.30	59628	0.613 ug/ml

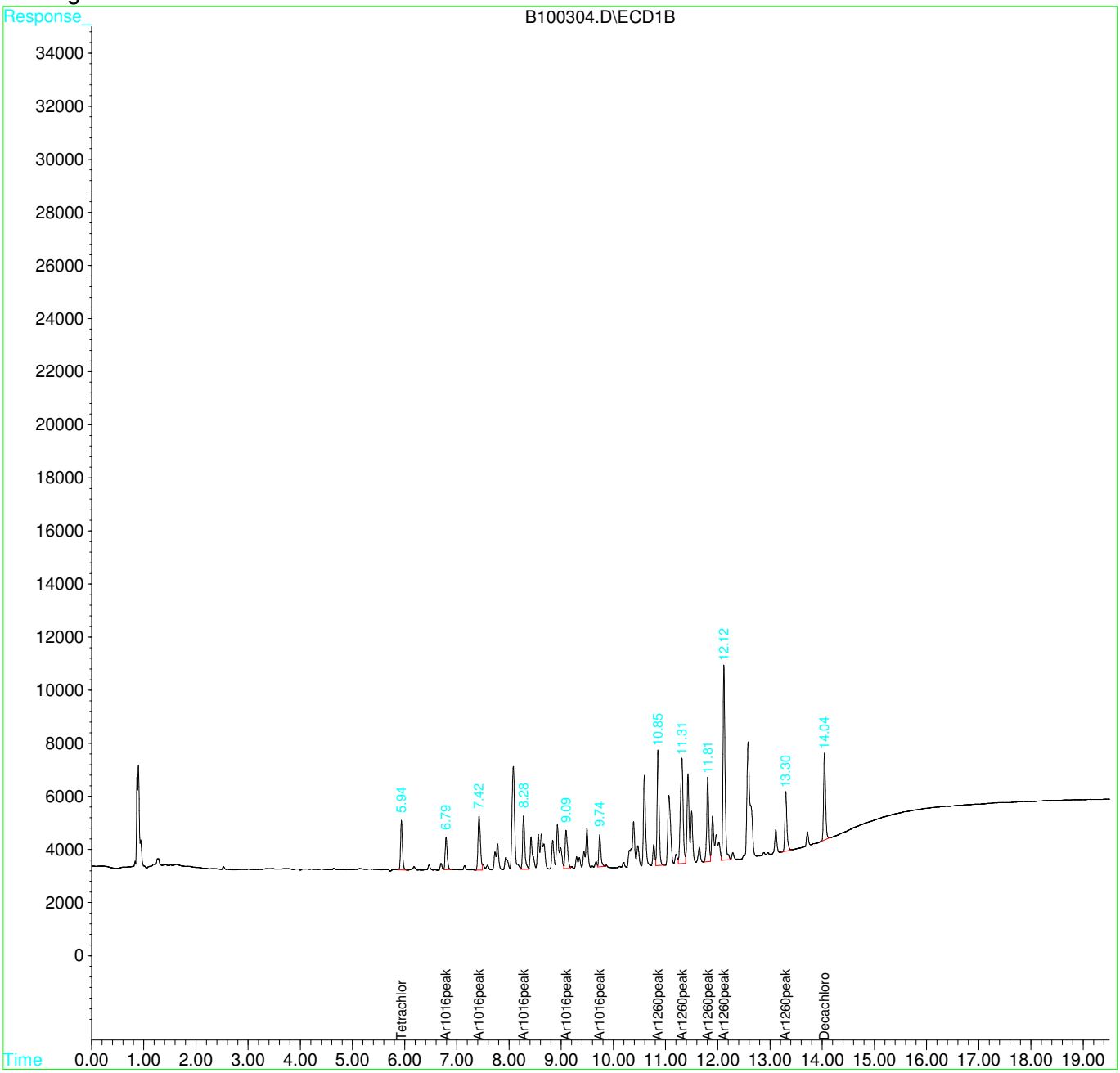
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100304.D Vial: 4
Acq On : 3 Oct 2008 16:29 Operator: jw
Sample : ,ccv,ccv ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:20 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100306.D Vial: 6
Acq On : 3 Oct 2008 17:18 Operator: jw
Sample : ,ccv,ccv toxaphene 0.2ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:49 2008 Quant Results File: BTOX.RES

Quant Method : C:\HPCHEM\1\METHODS\BTOX.M (Chemstation Integrator)
Title : 8/20/08-ECD#1-COL B-clp2-Toxaphene
Last Update : Mon Oct 06 10:48:18 2008
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\B100308\B100306.D
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Toxaphene	12.13	319053	0.204 ug/mlm4

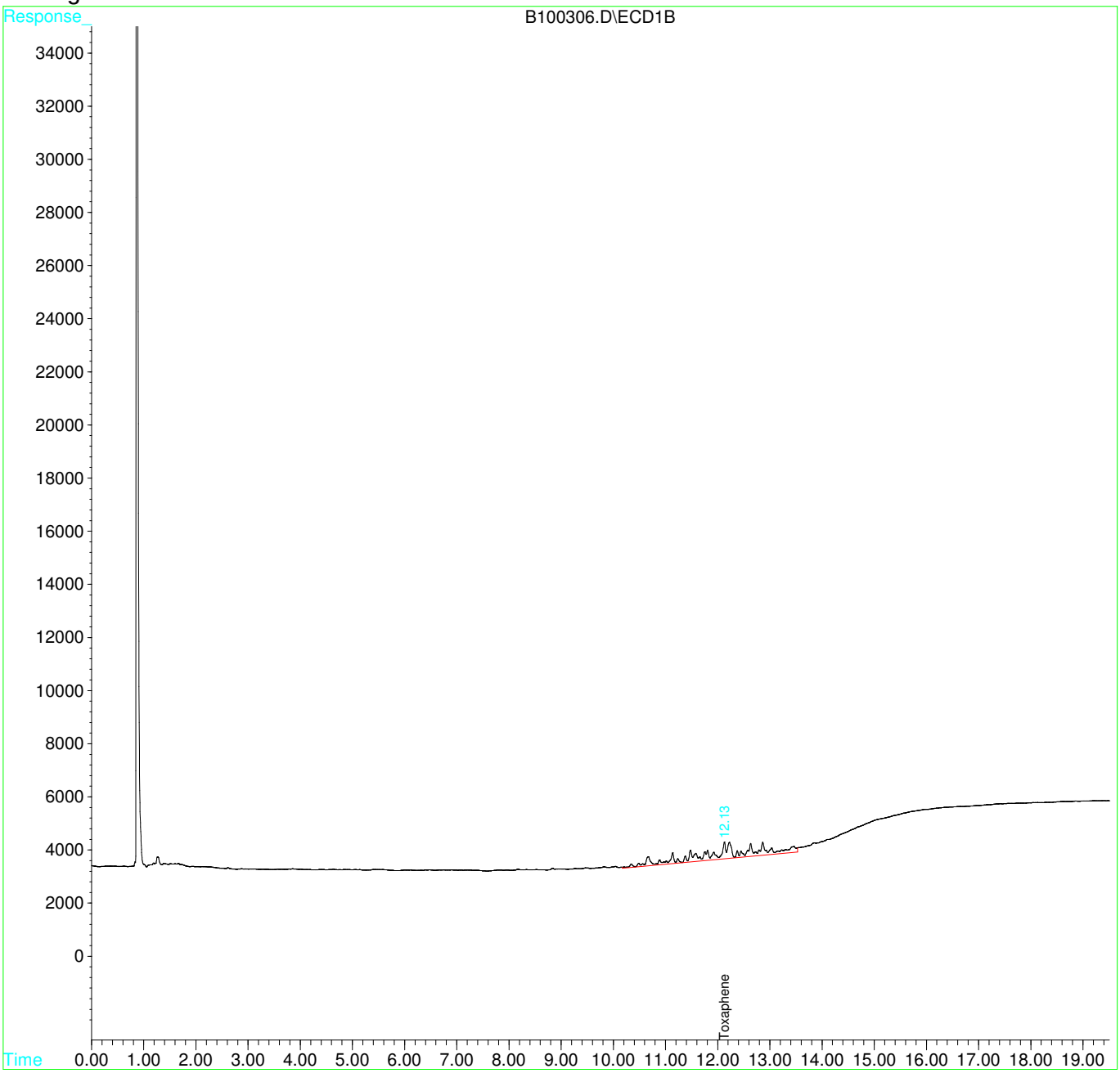
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100306.D Vial: 6
Acq On : 3 Oct 2008 17:18 Operator: jw
Sample : ,ccv,ccv toxaphene 0.2ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:49 2008 Quant Results File: BTOX.RES

Quant Method : C:\HPCHEM\1\METHODS\BTOX.M (Chemstation Integrator)
Title : 8/20/08-ECD#1-COL B-clp2-Toxaphene
Last Update : Mon Oct 06 10:48:18 2008
Response via : Single Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B100308\B100323.D Vial: 3
Acq On : 4 Oct 2008 00:53 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	2.093	2.275 E6	-8.7	110	0.00
2	S	Decachlorobiphenyl	3.708	3.948 E6	-6.5	110	-0.01
3		alpha-BHC	1.986	2.503 E6	-26.0#	110	-0.01
4		gamma-BHC	2.179	2.634 E6	-20.9	109	-0.02
5		beta-BHC	1.457	1.621 E6	-11.3	109	-0.01
6		delta-BHC	2.094	2.568 E6	-22.6	113	-0.01
7		Heptachlor	3.100	3.337 E6	-7.6	107	-0.01
8		Aldrin	2.287	2.599 E6	-13.6	107	-0.01
9		Heptachlor epoxide	2.452	2.609 E6	-6.4	106	0.00
10		Endosulfan I	2.083	2.272 E6	-9.1	108	-0.02
11		4,4'-DDE	2.193	2.407 E6	-9.8	107	0.00
12		Dieldrin	2.259	2.495 E6	-10.4	107	-0.01
13		Endrin	1.873	2.141 E6	-14.3	112	-0.02
14		Endosulfan II	2.242	2.468 E6	-10.1	109	-0.02
15		4,4'-DDD	1.597	1.787 E6	-11.9	107	0.00
16		Endrin Aldehyde	2.393	2.500 E6	-4.5	107	0.00
17		4,4'-DDT	2.033	2.250 E6	-10.7	106	0.00
18		Endosulfan Sulfate	2.269	2.487 E6	-9.6	108	-0.02
19		Endrin Ketone	2.609	2.972 E6	-13.9	110	-0.01
20		Methoxychlor	1.793	1.866 E6	-4.1	104	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100323.D Vial: 3
Acq On : 4 Oct 2008 00:53 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:22 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	5.93	90981	0.043 ug/ml
Spiked Amount 0.020	Recovery = 215.00%		
2) S Decachlorobiphenyl	14.04	157922	0.043 ug/mlm3
Spiked Amount 0.020	Recovery = 215.00%		
Target Compounds			
3) alpha-BHC	7.00	250335	0.101 ug/ml
4) gamma-BHC	7.56	263435	0.104 ug/ml
5) beta-BHC	7.72	162056	0.111 ug/ml
6) delta-BHC	8.15	256826	0.105 ug/ml
7) Heptachlor	8.21	333683	0.108 ug/ml
8) Aldrin	8.67	259922	0.114 ug/ml
9) Heptachlor epoxide	9.47	260898	0.106 ug/ml
10) Endosulfan I	9.99	227214	0.109 ug/ml
11) 4,4'-DDE	10.16	240706	0.110 ug/ml
12) Dieldrin	10.36	249523	0.110 ug/ml
13) Endrin	10.75	214052	0.114 ug/ml
14) Endosulfan II	11.03	246794	0.110 ug/ml
15) 4,4'-DDD	10.91	178653	0.112 ug/ml
16) Endrin Aldehyde	11.47	250011	0.104 ug/ml
17) 4,4'-DDT	11.31	225026	0.111 ug/ml
18) Endosulfan Sulfate	11.82	248677	0.110 ug/ml
19) Endrin Ketone	12.51	297201	0.114 ug/ml
20) Methoxychlor	12.19	186646	0.104 ug/ml

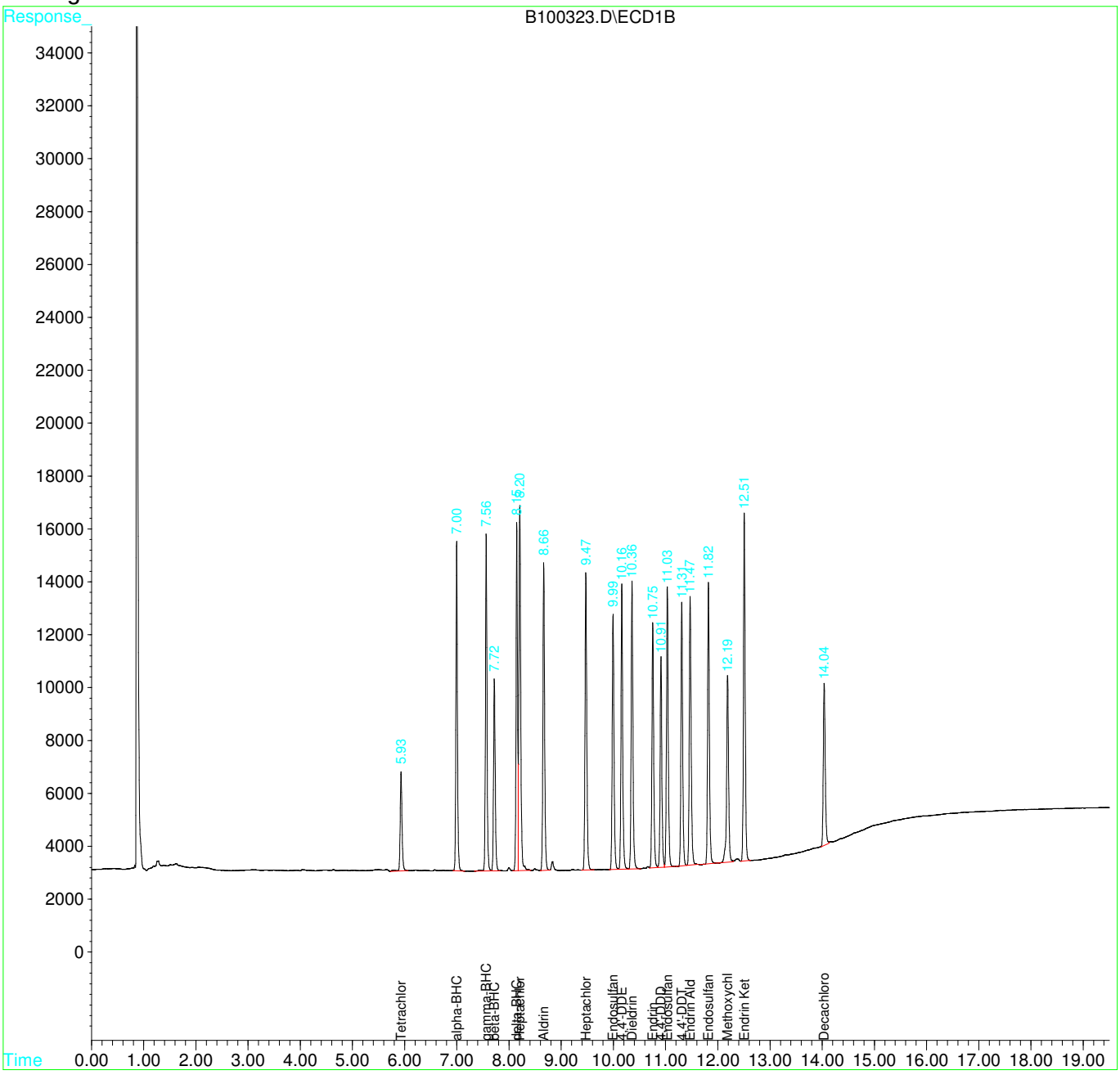
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100323.D Vial: 3
Acq On : 4 Oct 2008 00:53 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:22 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B100308\B100325.D Vial: 4
Acq On : 4 Oct 2008 1:41 Operator: jw
Sample : ,ccv,ccv ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	2.132	2.257 E6	-5.9	106	0.00
2	S	Decachlorobiphenyl	3.538	4.403 E6	-24.4	123	0.00
3		Ar1016peak1	62.739	68.023 E3	-8.4	107	0.00
4		Ar1016peak2	126.412	130.758 E3	-3.4	105	0.00
5		Ar1016peak3	106.551	118.945 E3	-11.6	107	0.00
6		Ar1016peak4	81.102	95.233 E3	-17.4	120	0.00
7		Ar1016peak5	59.198	64.968 E3	-9.7	110	0.00
8		Ar1260peak1	208.955	230.642 E3	-10.4	112	0.00
9		Ar1260peak2	251.251	292.366 E3	-16.4	114	0.00
10		Ar1260peak3	151.945	176.407 E3	-16.1	115	0.00
11		Ar1260peak4	341.405	407.202 E3	-19.3	117	0.00
12		Ar1260peak5	97.319	124.442 E3	-27.9#	124	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100325.D Vial: 4
Acq On : 4 Oct 2008 1:41 Operator: jw
Sample : ,ccv,ccv ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:23 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
1) S	Tetrachloro-m-xylene	5.93	45133	0.021 ug/ml
2) S	Decachlorobiphenyl	14.04	88066	0.025 ug/mlm3
Target Compounds				
3)	Ar1016peak1	6.79	34011	0.542 ug/ml
4)	Ar1016peak2	7.42	65379	0.517 ug/mlm3
5)	Ar1016peak3	8.27	59472	0.558 ug/ml
6)	Ar1016peak4	9.09	47616	0.587 ug/ml
7)	Ar1016peak5	9.73	32484	0.549 ug/ml
8)	Ar1260peak1	10.85	115321	0.552 ug/ml
9)	Ar1260peak2	11.31	146183	0.582 ug/ml
10)	Ar1260peak3	11.80	88203	0.580 ug/ml
11)	Ar1260peak4	12.11	203601	0.596 ug/ml
12)	Ar1260peak5	13.30	62221	0.639 ug/ml

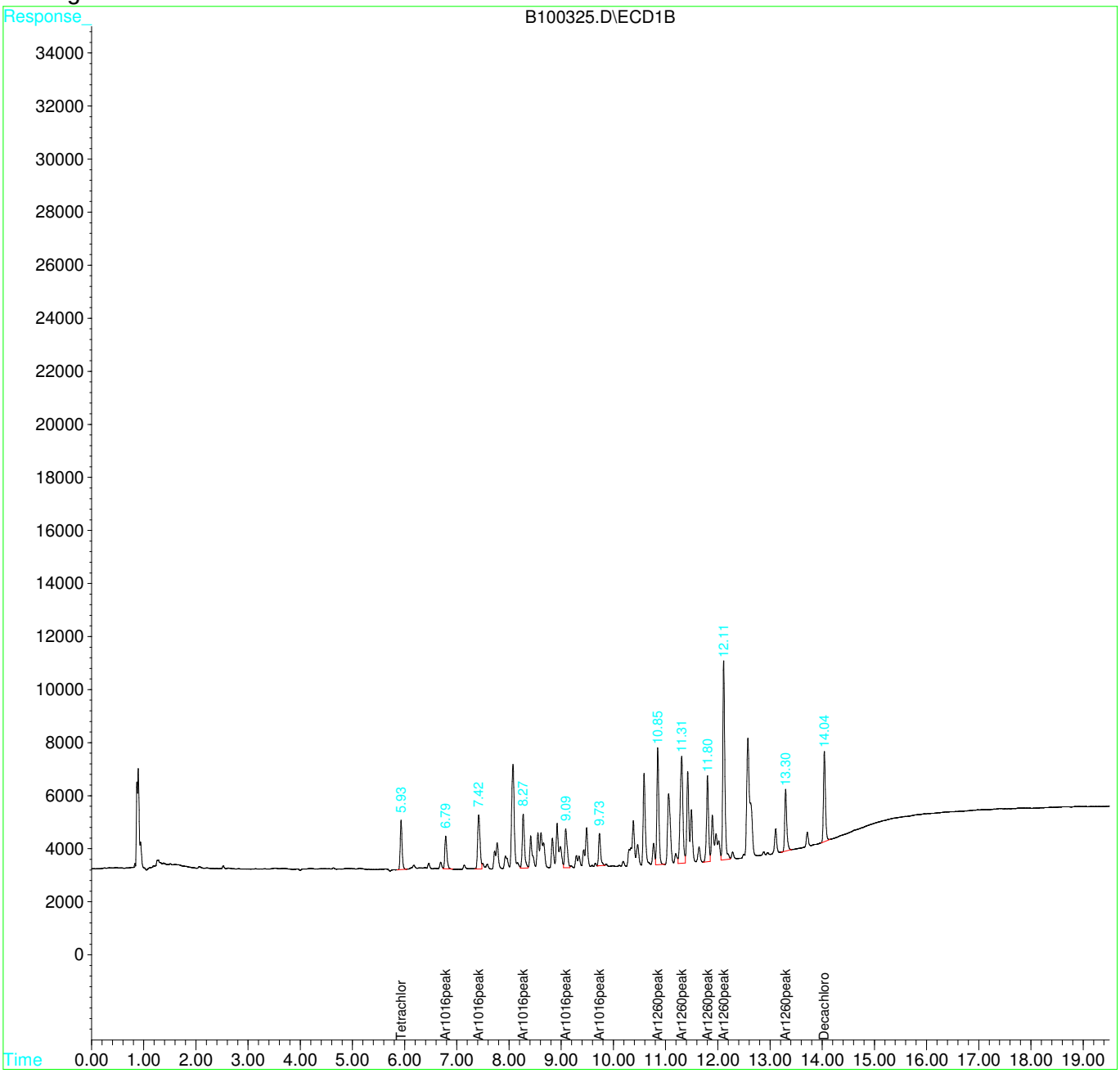
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100325.D Vial: 4
Acq On : 4 Oct 2008 1:41 Operator: jw
Sample : ,ccv,ccv ar1660 0.5ug/ml,1, Inst : ECD1
Misc : 8081pcb_w Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 10:23 2008 Quant Results File: B1660E.RES

Quant Method : C:\HPCHEM\1\METHODS\B1660E.M (Chemstation Integrator)
Title : **08/22/08-ECD#1-Col B-CLP2Ar1660-8082
Last Update : Mon Oct 06 10:20:18 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100608\B100602.D Vial: 2
Acq On : 6 Oct 2008 11:31 Operator: jw
Sample : ,ccv,ccv ddt/endrin 0.5ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 15:04 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	0.00	0	N.D.	ug/ml
Spiked Amount 0.020		Recovery =	0.00%	
2) S Decachlorobiphenyl	0.00	0	N.D.	ug/ml
Spiked Amount 0.020		Recovery =	0.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	0.00	0	N.D.	ug/ml
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	10.35	5703	0.003	ug/mlm1
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	10.96	955776	0.510	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/mld
15) 4,4'-DDD	11.11	12041	0.008	ug/ml
16) Endrin Aldehyde	11.68	18526	0.008	ug/ml
17) 4,4'-DDT	11.51	924407	0.455	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	12.72	36350	0.014	ug/ml
20) Methoxychlor	0.00	0	N.D.	ug/ml

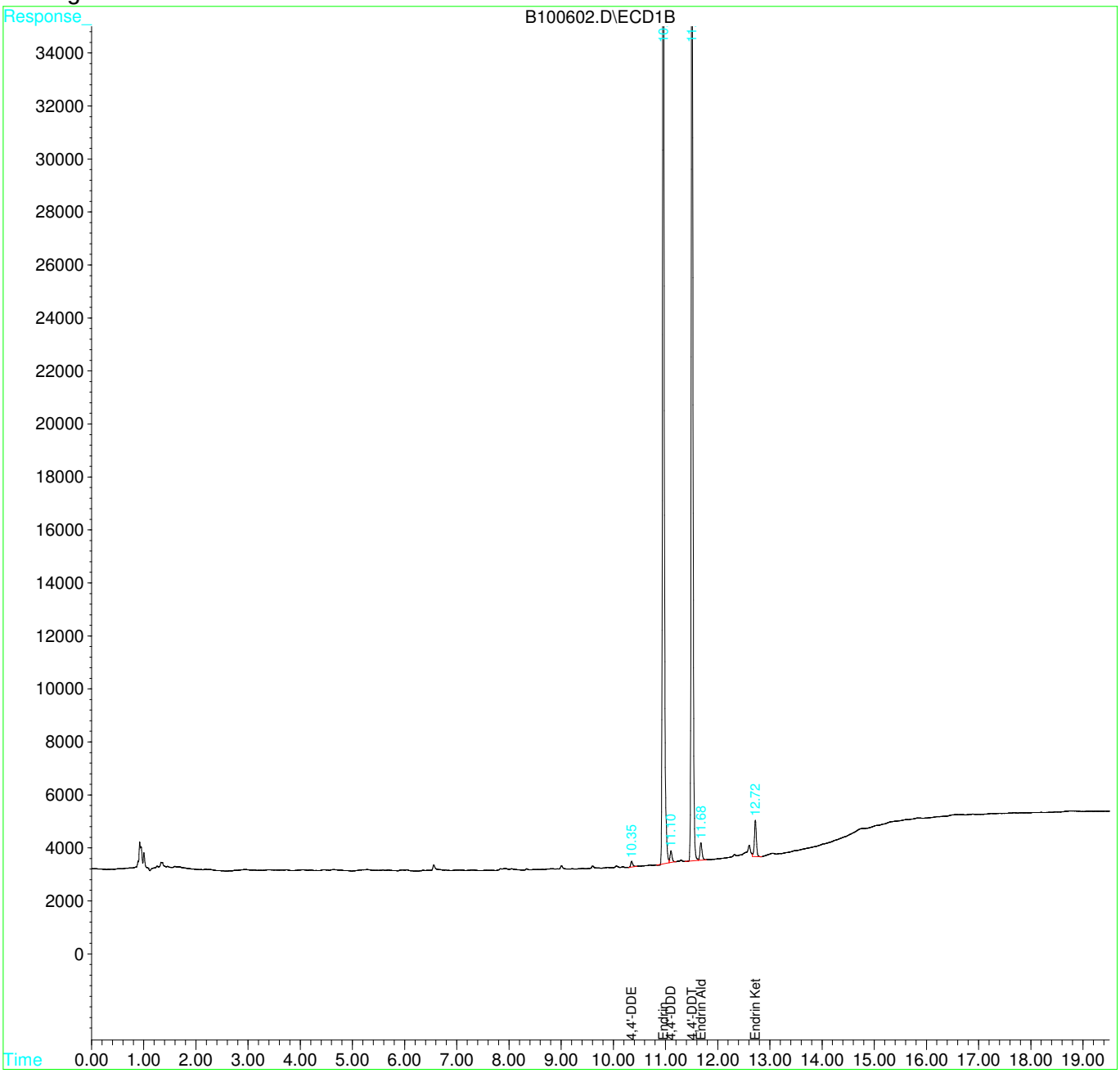
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100602.D Vial: 2
Acq On : 6 Oct 2008 11:31 Operator: jw
Sample : ,ccv,ccv ddt/endrin 0.5ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 15:04 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B100608\B100603.D Vial: 3
Acq On : 6 Oct 2008 11:55 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	2.093	2.109 E6	-0.8	102	0.00
2	S	Decachlorobiphenyl	3.708	3.489 E6	5.9	97	0.00
3		alpha-BHC	1.986	2.231 E6	-12.3	98	0.00
4		gamma-BHC	2.179	2.335 E6	-7.2	97	0.00
5		beta-BHC	1.457	1.462 E6	-0.3	98	0.00
6		delta-BHC	2.094	2.257 E6	-7.8	100	0.00
7		Heptachlor	3.100	2.944 E6	5.0	94	0.00
8		Aldrin	2.287	2.290 E6	-0.1	94	0.00
9		Heptachlor epoxide	2.452	2.307 E6	5.9	93	0.00
10		Endosulfan I	2.083	1.995 E6	4.2	95	0.00
11		4,4'-DDE	2.193	2.066 E6	5.8	92	0.00
12		Dieldrin	2.259	2.163 E6	4.2	93	0.00
13		Endrin	1.873	1.769 E6	5.6	93	0.00
14		Endosulfan II	2.242	2.133 E6	4.9	94	0.00
15		4,4'-DDD	1.597	1.524 E6	4.6	92	0.00
16		Endrin Aldehyde	2.393	2.163 E6	9.6	92	0.00
17		4,4'-DDT	2.033	1.865 E6	8.3	88	0.00
18		Endosulfan Sulfate	2.269	2.157 E6	4.9	94	0.00
19		Endrin Ketone	2.609	2.588 E6	0.8	95	0.00
20		Methoxychlor	1.793	1.529 E6	14.7	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100608\B100603.D Vial: 3
Acq On : 6 Oct 2008 11:55 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 15:05 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

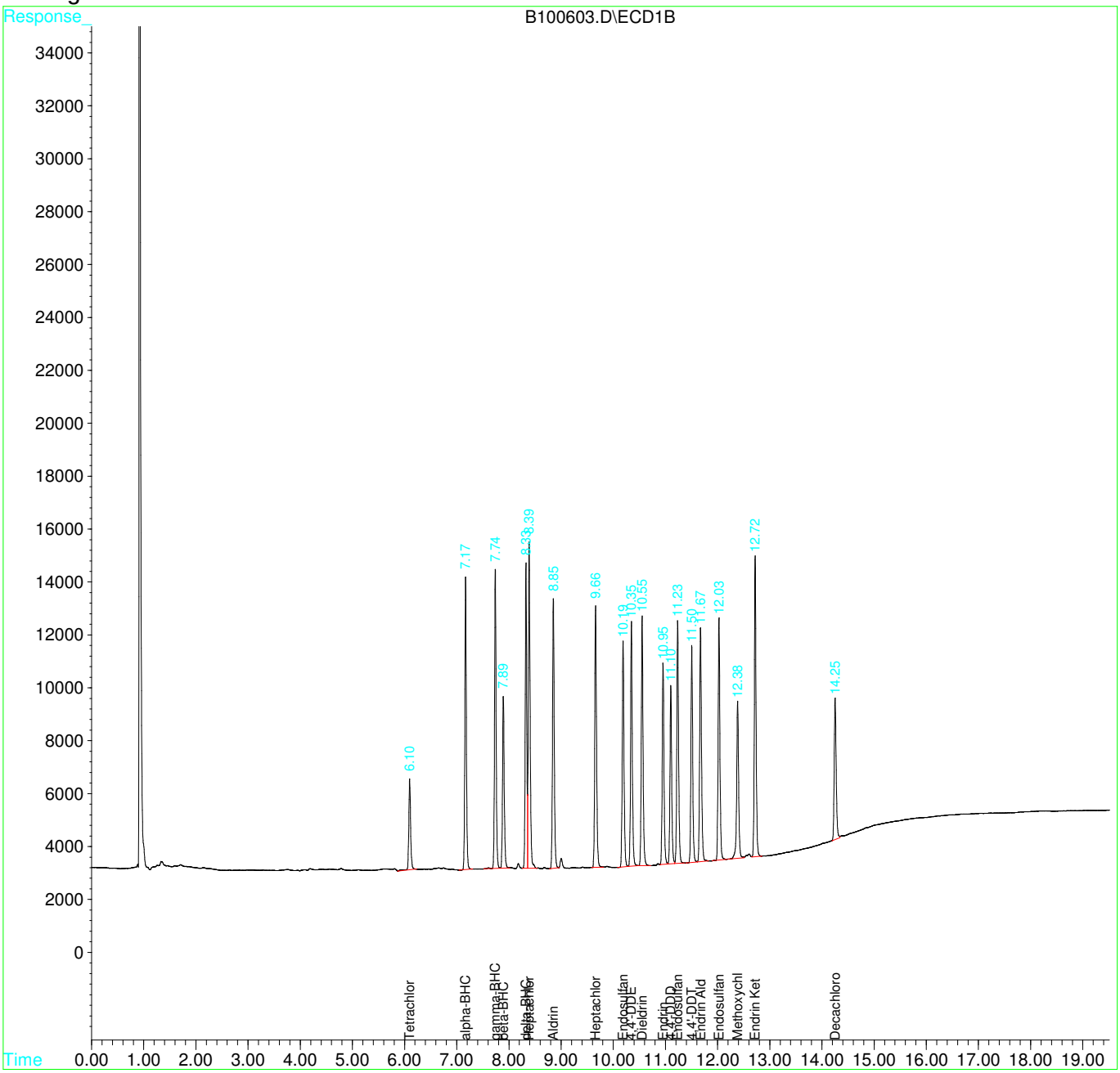
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.10	84343	0.040 ug/ml
Spiked Amount 0.020		Recovery =	200.00%
2) S Decachlorobiphenyl	14.25	139552	0.038 ug/mlm3
Spiked Amount 0.020		Recovery =	190.00%
Target Compounds			
3) alpha-BHC	7.17	223117	0.091 ug/ml
4) gamma-BHC	7.74	233531	0.093 ug/ml
5) beta-BHC	7.89	146190	0.100 ug/ml
6) delta-BHC	8.33	225695	0.094 ug/ml
7) Heptachlor	8.39	294369	0.095 ug/ml
8) Aldrin	8.85	229005	0.100 ug/ml
9) Heptachlor epoxide	9.66	230664	0.094 ug/ml
10) Endosulfan I	10.19	199498	0.096 ug/ml
11) 4,4'-DDE	10.35	206645	0.094 ug/ml
12) Dieldrin	10.55	216274	0.096 ug/ml
13) Endrin	10.96	176884	0.094 ug/ml
14) Endosulfan II	11.24	213256	0.095 ug/ml
15) 4,4'-DDD	11.10	152397	0.095 ug/ml
16) Endrin Aldehyde	11.67	216324	0.090 ug/ml
17) 4,4'-DDT	11.51	186499	0.092 ug/ml
18) Endosulfan Sulfate	12.03	215697	0.095 ug/ml
19) Endrin Ketone	12.72	258820	0.099 ug/ml
20) Methoxychlor	12.39	152901	0.085 ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100603.D Vial: 3
Acq On : 6 Oct 2008 11:55 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 15:05 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\B100608\B100604.D          Vial: 4
Acq On    :  6 Oct 2008 12:20                       Operator: jw
Sample    : ,ccv,ccv a/g chlordane 1.0ug/ml,1,      Inst    : ECD1
Misc      : 8081_w+                                 Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct  6 15:25 2008  Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title        : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update  : Wed Jun 04 18:23:58 2008
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\B100608\B100604.D
DataAcq Meth : NEWPCBB.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

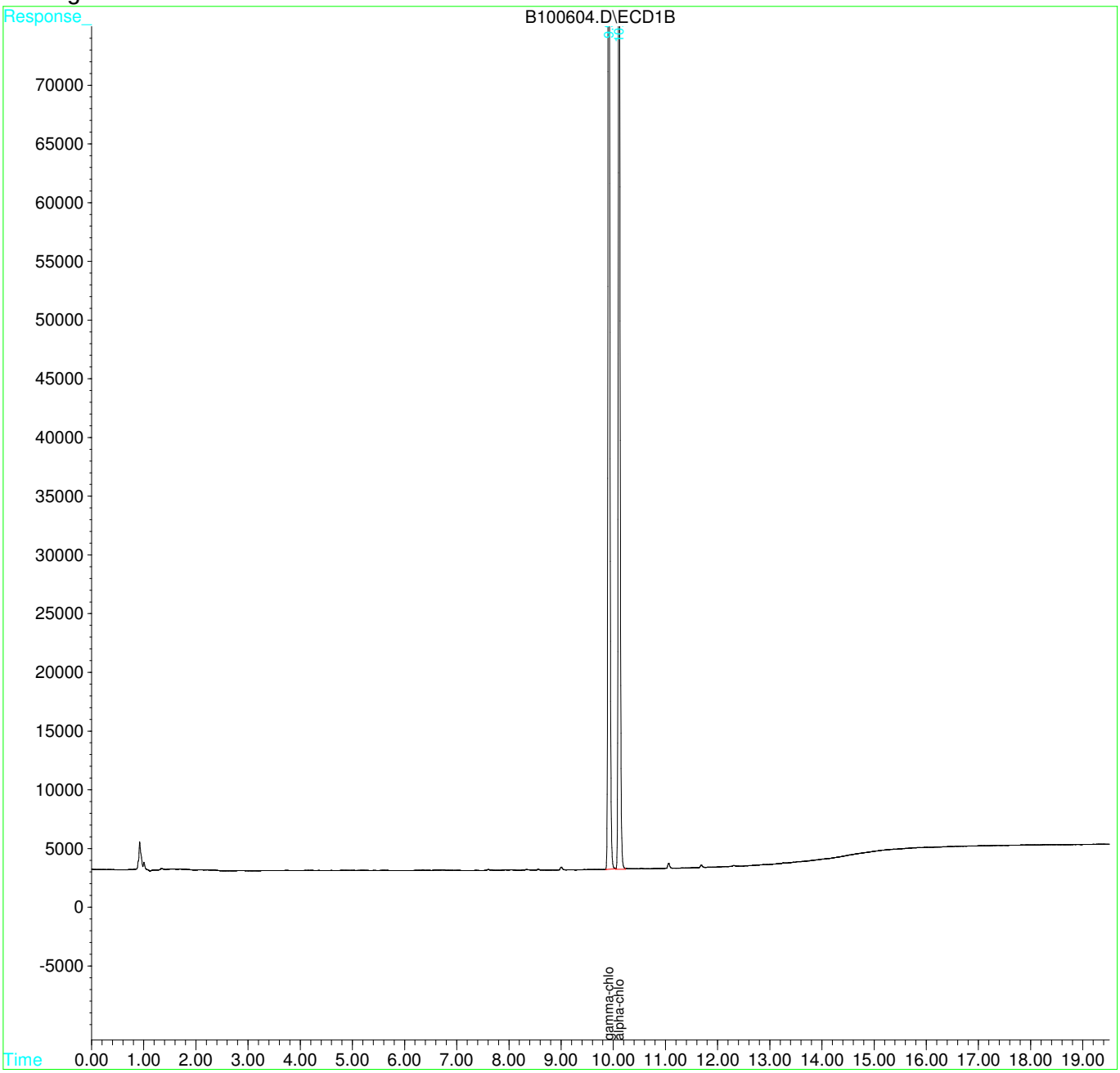
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	gamma-chlordane	9.91	2690170	1.000 ug/mlm3
2)	alpha-chlordane	10.11	2244040	1.000 ug/mlm2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100604.D Vial: 4
Acq On : 6 Oct 2008 12:20 Operator: jw
Sample : ,ccv,ccv a/g chlordane 1.0ug/ml,1, Inst : ECD1
Misc : 8081_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:25 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Single Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\B100608\B100610.D Vial: 3
Acq On : 6 Oct 2008 14:45 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	2.093	2.159 E6	-3.2	104	0.00
2	S	Decachlorobiphenyl	3.708	3.549 E6	4.3	98	0.00
3		alpha-BHC	1.986	2.287 E6	-15.2	100	0.00
4		gamma-BHC	2.179	2.385 E6	-9.5	99	0.00
5		beta-BHC	1.457	1.491 E6	-2.3	100	0.00
6		delta-BHC	2.094	2.309 E6	-10.3	102	0.00
7		Heptachlor	3.100	3.002 E6	3.2	96	0.00
8		Aldrin	2.287	2.342 E6	-2.4	96	0.00
9		Heptachlor epoxide	2.452	2.369 E6	3.4	96	0.00
10		Endosulfan I	2.083	2.045 E6	1.8	97	0.00
11		4,4'-DDE	2.193	2.122 E6	3.2	94	0.00
12		Dieldrin	2.259	2.224 E6	1.5	95	0.00
13		Endrin	1.873	1.816 E6	3.0	95	0.00
14		Endosulfan II	2.242	2.189 E6	2.4	97	0.00
15		4,4'-DDD	1.597	1.556 E6	2.6	94	0.00
16		Endrin Aldehyde	2.393	2.237 E6	6.5	95	0.00
17		4,4'-DDT	2.033	1.910 E6	6.1	90	0.00
18		Endosulfan Sulfate	2.269	2.209 E6	2.6	96	0.00
19		Endrin Ketone	2.609	2.654 E6	-1.7	98	0.00
20		Methoxychlor	1.793	1.545 E6	13.8	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100608\B100610.D Vial: 3
Acq On : 6 Oct 2008 14:45 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 15:06 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	6.10	86368	0.041 ug/ml
Spiked Amount 0.020		Recovery =	205.00%
2) S Decachlorobiphenyl	14.25	141970	0.038 ug/mlm3
Spiked Amount 0.020		Recovery =	190.00%
Target Compounds			
3) alpha-BHC	7.17	228666	0.093 ug/ml
4) gamma-BHC	7.74	238492	0.095 ug/ml
5) beta-BHC	7.89	149051	0.102 ug/ml
6) delta-BHC	8.32	230901	0.096 ug/ml
7) Heptachlor	8.39	300152	0.097 ug/ml
8) Aldrin	8.85	234212	0.102 ug/ml
9) Heptachlor epoxide	9.66	236940	0.097 ug/ml
10) Endosulfan I	10.19	204474	0.098 ug/ml
11) 4,4'-DDE	10.35	212211	0.097 ug/ml
12) Dieldrin	10.55	222404	0.098 ug/ml
13) Endrin	10.95	181613	0.097 ug/ml
14) Endosulfan II	11.23	218947	0.098 ug/ml
15) 4,4'-DDD	11.10	155607	0.097 ug/ml
16) Endrin Aldehyde	11.67	223680	0.093 ug/ml
17) 4,4'-DDT	11.50	190951	0.094 ug/ml
18) Endosulfan Sulfate	12.02	220932	0.097 ug/ml
19) Endrin Ketone	12.72	265445	0.102 ug/ml
20) Methoxychlor	12.38	154529	0.086 ug/ml

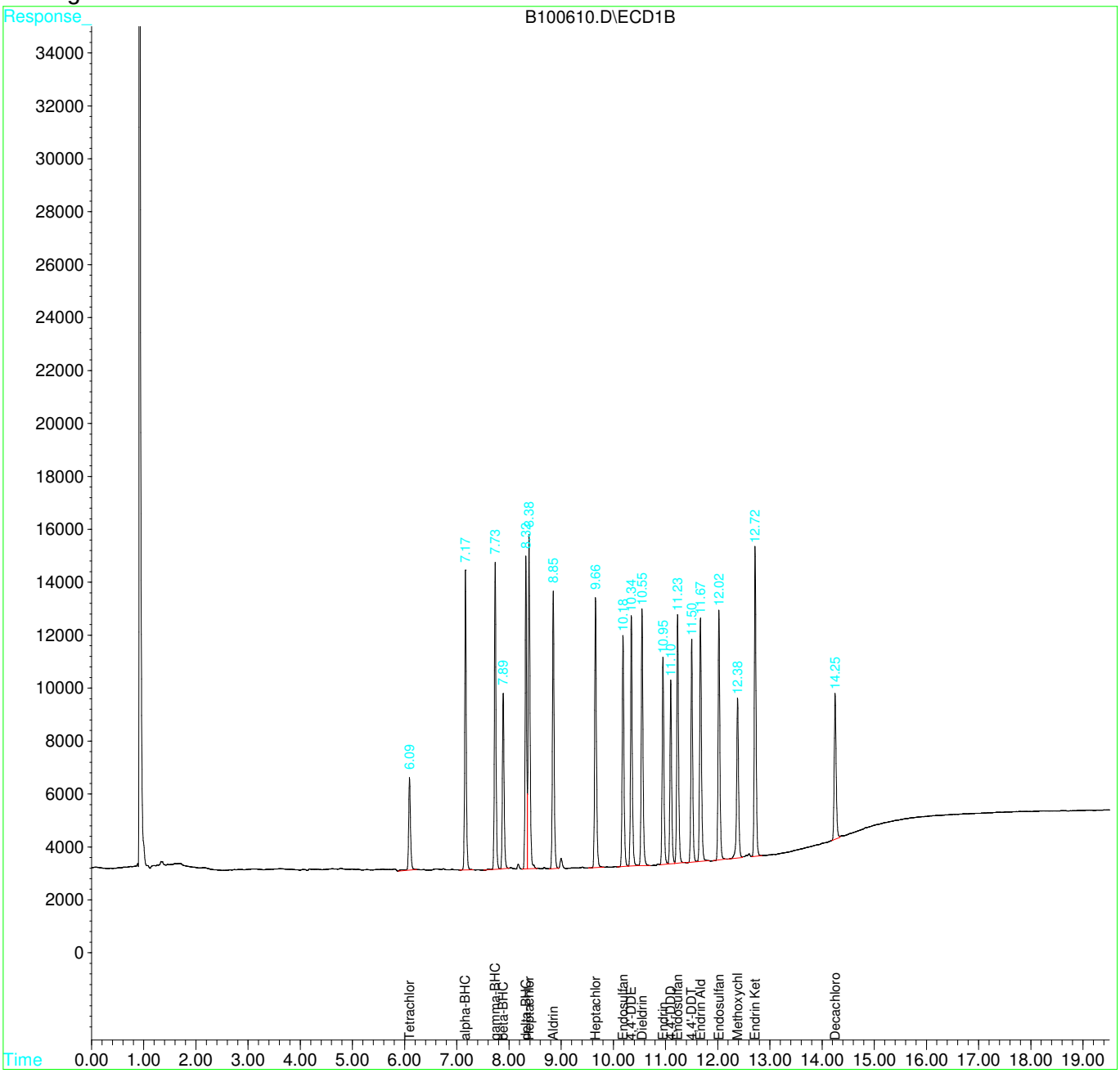
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100610.D Vial: 3
Acq On : 6 Oct 2008 14:45 Operator: jw
Sample : ,ccv,ccv pesticide 0.1ug/ml,1, Inst : ECD1
Misc : 8081_w Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 15:06 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Mon Oct 06 15:03:55 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



SAMPLE RAW DATA

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100310.D Vial: 10
Acq On : 3 Oct 2008 18:59 Operator: jw
Sample : ,samp,me0809c97-02b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:32 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

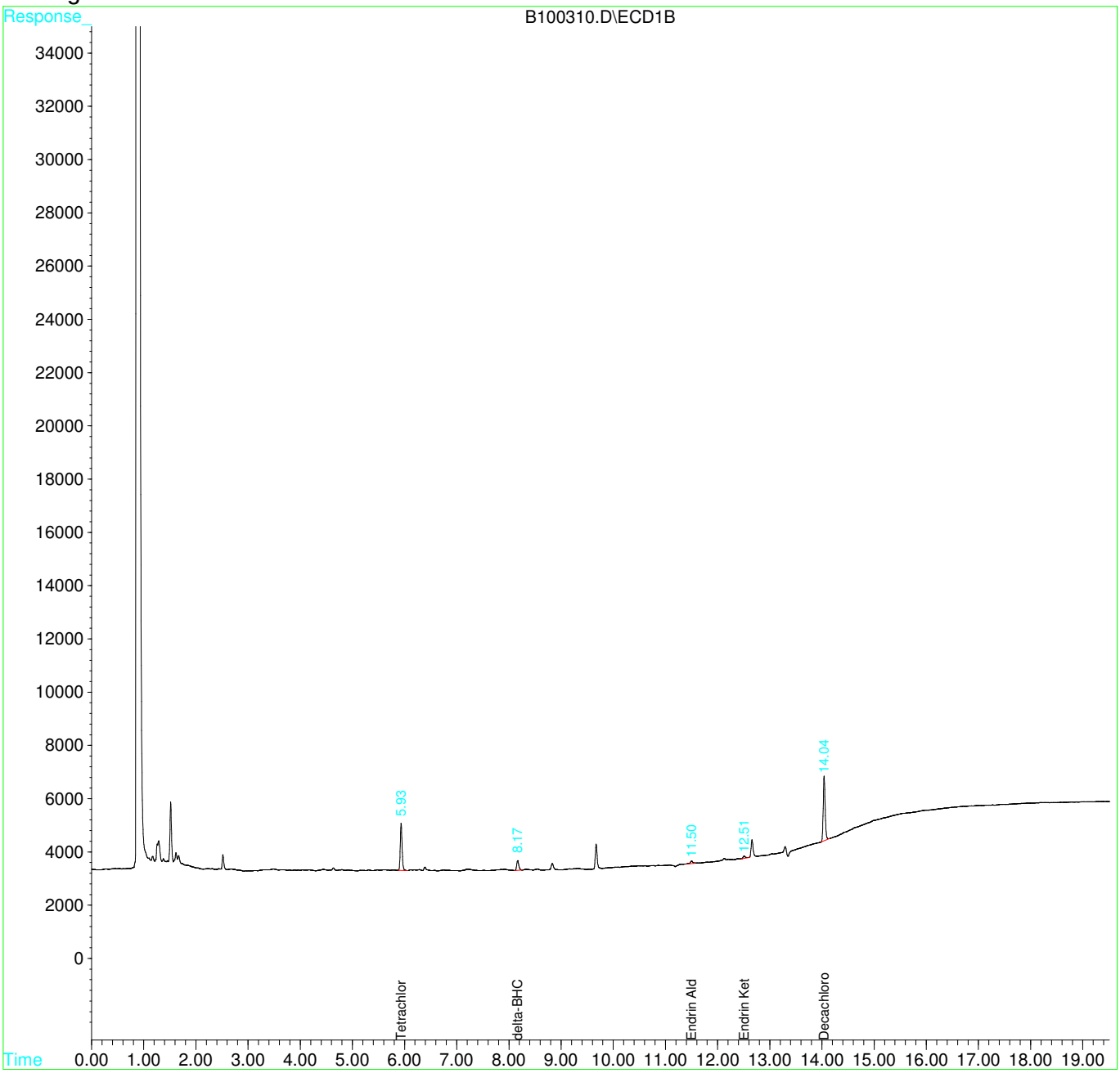
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	5.93	42788	0.020	ug/ml
Spiked Amount 0.020	Recovery	=	100.00%	
2) S Decachlorobiphenyl	14.04	63026	0.017	ug/mlm3
Spiked Amount 0.020	Recovery	=	85.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	8.17	10321	0.017	ug/mlm1
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	0.00	0	N.D.	ug/ml
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	0.00	0	N.D.	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/ml
15) 4,4'-DDD	0.00	0	N.D.	ug/ml
16) Endrin Aldehyde	11.50	2981	0.001	ug/mlm1
17) 4,4'-DDT	0.00	0	N.D.	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	12.51	2471	0.001	ug/mlm2
20) Methoxychlor	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100310.D Vial: 10
Acq On : 3 Oct 2008 18:59 Operator: jw
Sample : ,samp,me0809c97-02b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:32 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\B100608\B100605.D          Vial: 5
Acq On    :  6 Oct 2008 12:44                       Operator: jw
Sample    : ,samp,me0809c97-02b,1,                  Inst    : ECD1
Misc      : 8081-82_w+                              Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct  6 15:26 2008  Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title        : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update  : Wed Jun 04 18:23:58 2008
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\B100608\B100604.D
DataAcq Meth : NEWPCBB.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

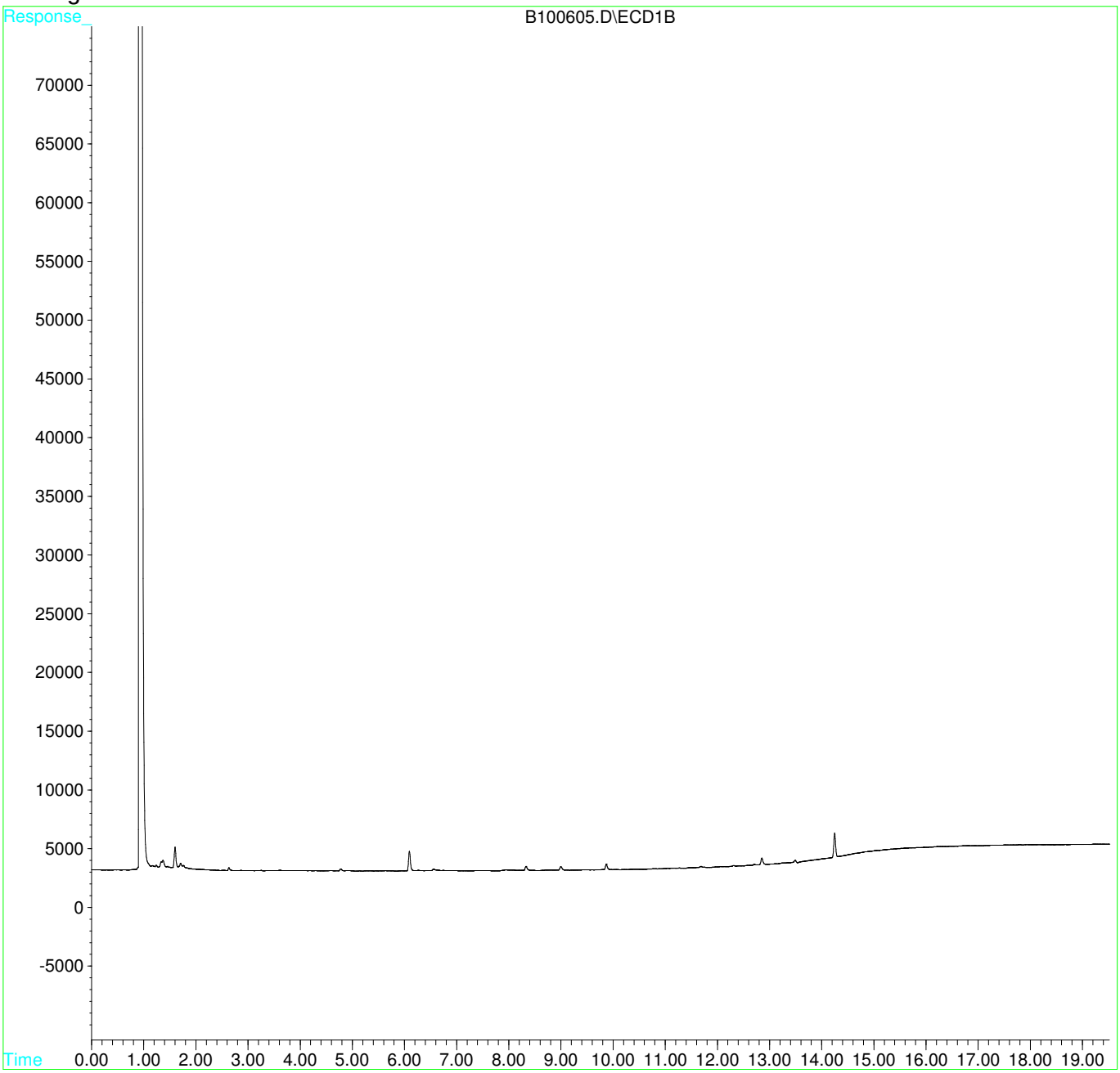
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	gamma-chlordane	0.00	0	N.D.	ug/mld
2)	alpha-chlordane	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100605.D Vial: 5
Acq On : 6 Oct 2008 12:44 Operator: jw
Sample : ,samp,me0809c97-02b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:26 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Single Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100311.D Vial: 11
Acq On : 3 Oct 2008 19:24 Operator: jw
Sample : ,samp,me0809c97-03b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:34 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

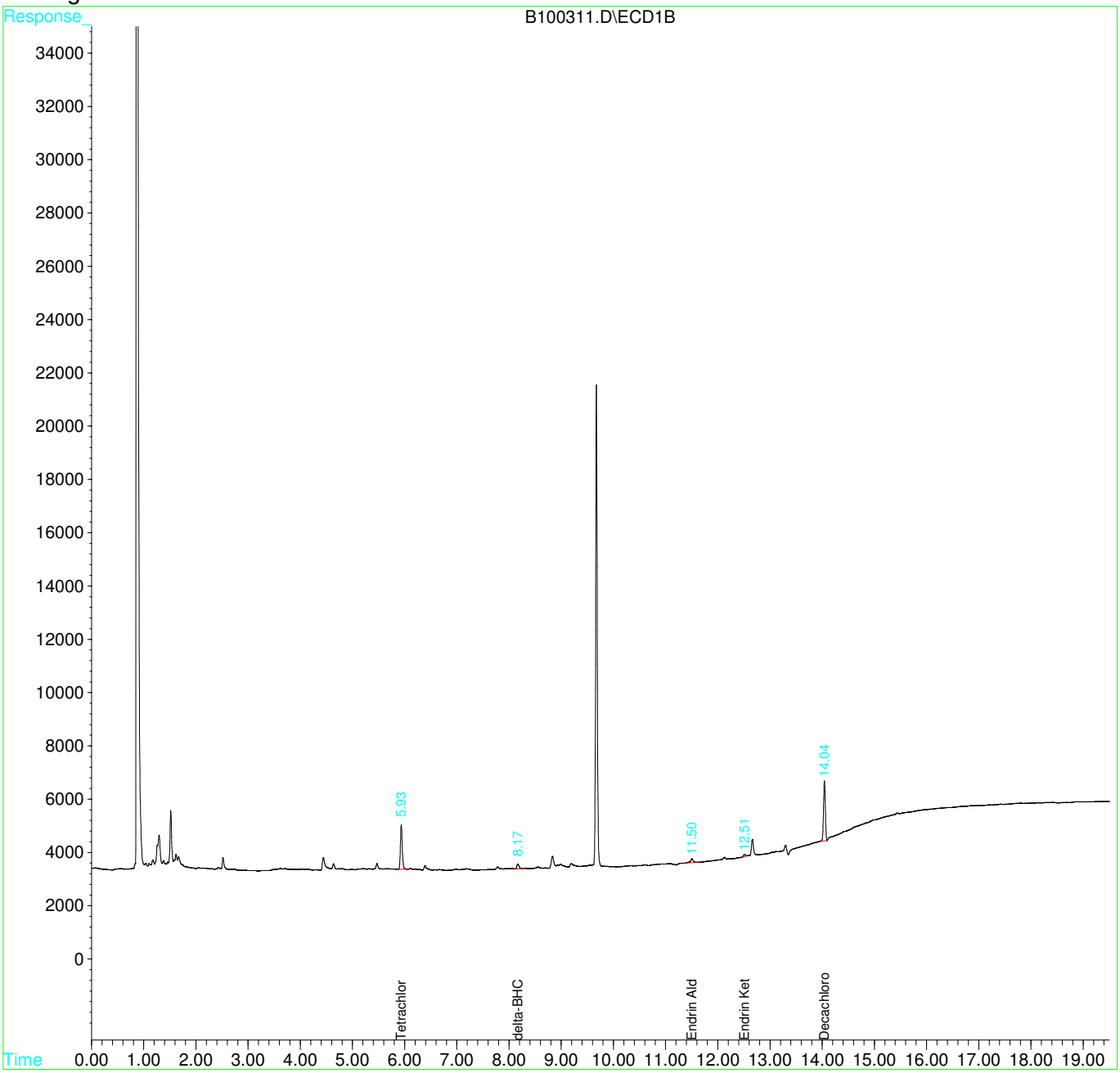
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	5.94	40697	0.019	ug/ml
Spiked Amount 0.020	Recovery	=	95.00%	
2) S Decachlorobiphenyl	14.04	53815	0.015	ug/mlm3
Spiked Amount 0.020	Recovery	=	75.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	8.17	5527	0.015	ug/mlm1
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	0.00	0	N.D.	ug/ml
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	0.00	0	N.D.	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/ml
15) 4,4'-DDD	0.00	0	N.D.	ug/ml
16) Endrin Aldehyde	11.50	5741	0.002	ug/mlm1
17) 4,4'-DDT	0.00	0	N.D.	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	12.51	2024	0.001	ug/mlm2
20) Methoxychlor	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100311.D Vial: 11
Acq On : 3 Oct 2008 19:24 Operator: jw
Sample : ,samp,me0809c97-03b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:34 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100608\B100606.D Vial: 6
Acq On : 6 Oct 2008 13:08 Operator: jw
Sample : ,samp,me0809c97-03b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:26 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\B100608\B100604.D
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	gamma-chlordane	0.00	0	N.D.	ug/mld
2)	alpha-chlordane	0.00	0	N.D.	ug/ml

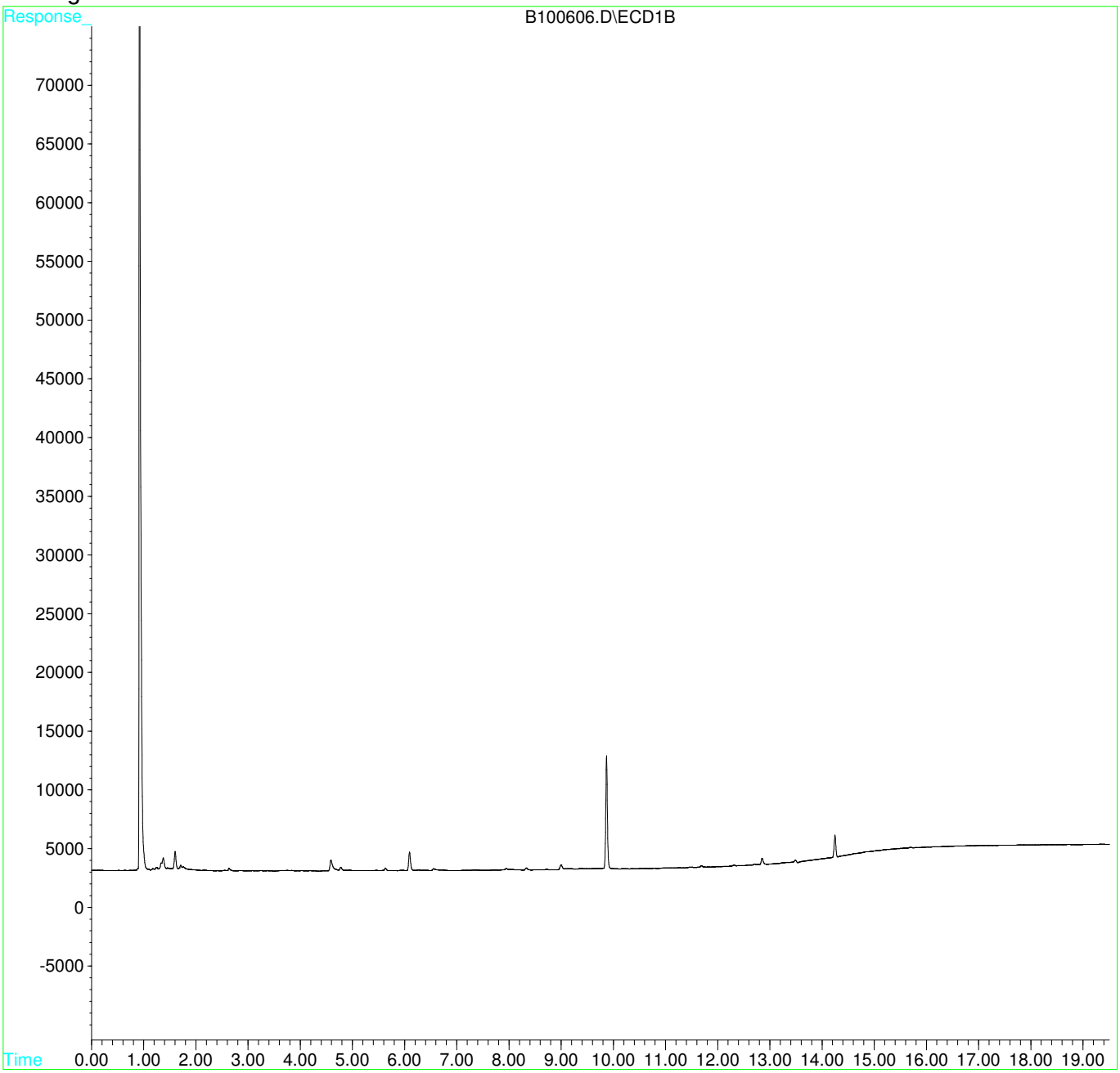
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100606.D Vial: 6
Acq On : 6 Oct 2008 13:08 Operator: jw
Sample : ,samp,me0809c97-03b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:26 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Single Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100312.D Vial: 12
Acq On : 3 Oct 2008 19:48 Operator: jw
Sample : ,samp,me0809c97-04b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:51 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

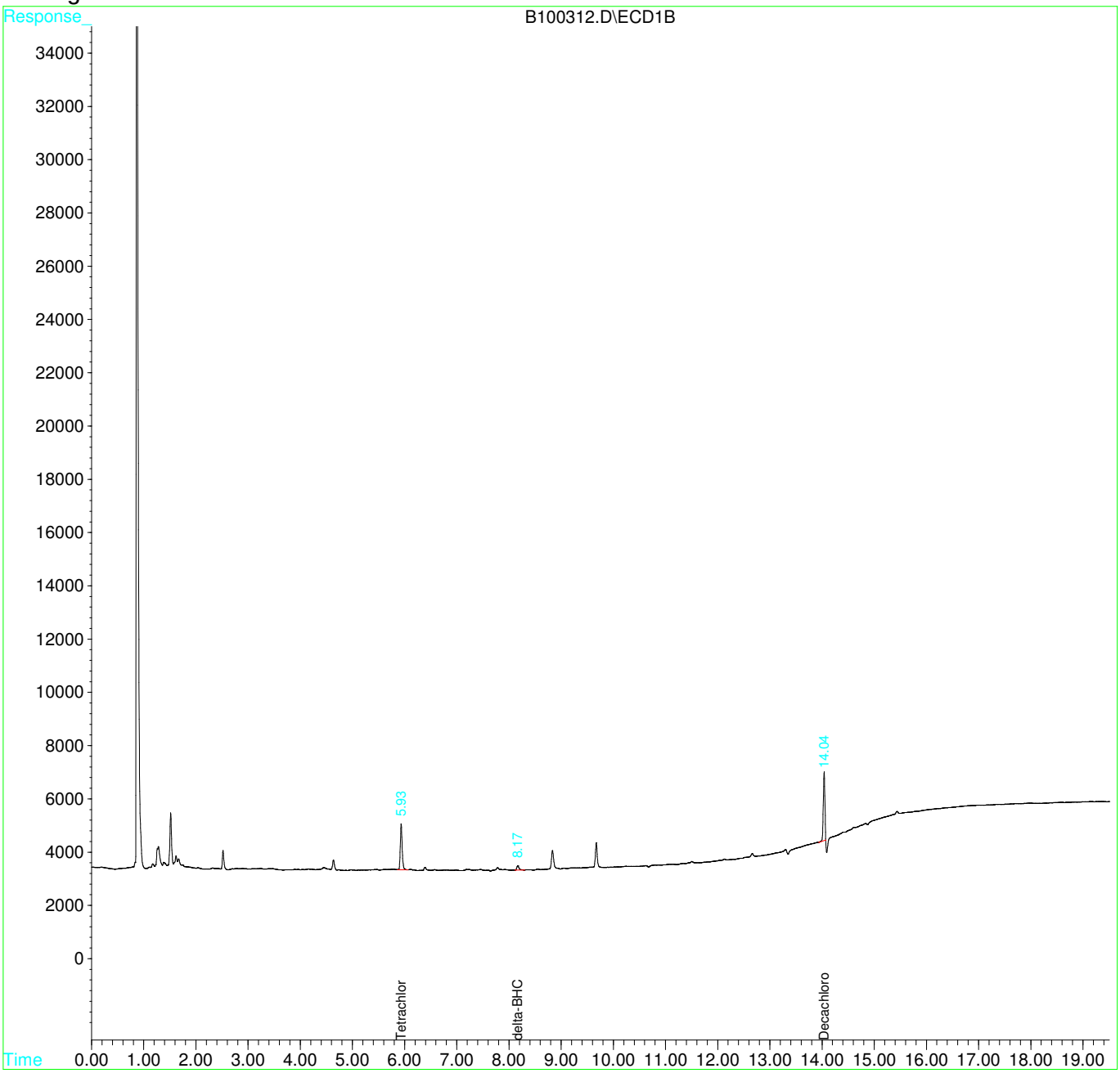
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	5.94	42171	0.020	ug/ml
Spiked Amount 0.020	Recovery	=	100.00%	
2) S Decachlorobiphenyl	14.04	54725	0.015	ug/mlm3
Spiked Amount 0.020	Recovery	=	75.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	8.17	4784	0.015	ug/mlm1
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	0.00	0	N.D.	ug/ml
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	0.00	0	N.D.	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/ml
15) 4,4'-DDD	0.00	0	N.D.	ug/ml
16) Endrin Aldehyde	0.00	0	N.D.	ug/ml
17) 4,4'-DDT	0.00	0	N.D.	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	0.00	0	N.D.	ug/ml
20) Methoxychlor	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100312.D Vial: 12
Acq On : 3 Oct 2008 19:48 Operator: jw
Sample : ,samp,me0809c97-04b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:51 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100608\B100607.D Vial: 7
Acq On : 6 Oct 2008 13:32 Operator: jw
Sample : ,samp,me0809c97-04b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:26 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\B100608\B100604.D
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	gamma-chlordane	0.00	0	N.D.	ug/mld
2)	alpha-chlordane	0.00	0	N.D.	ug/ml

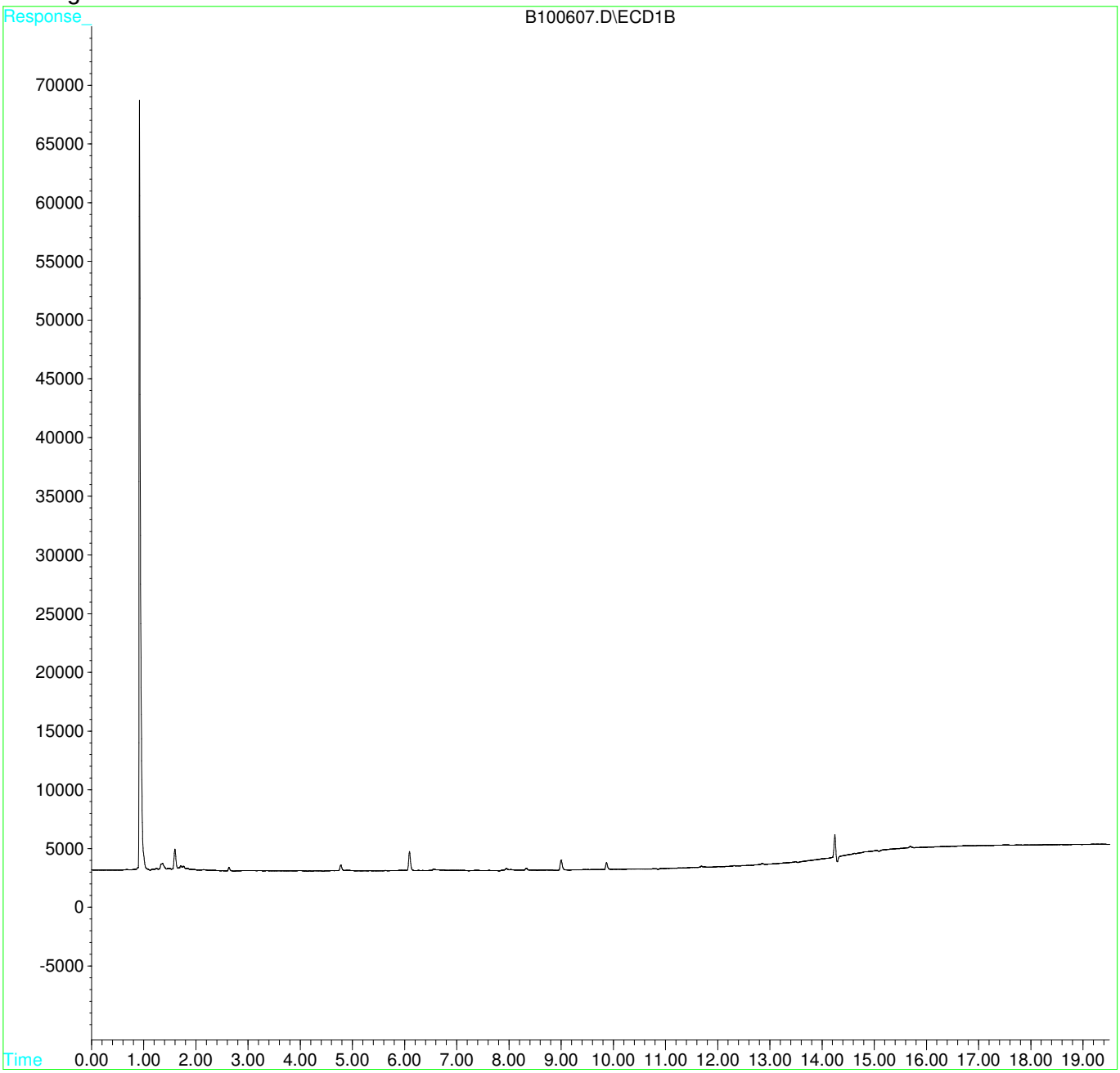
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100607.D Vial: 7
Acq On : 6 Oct 2008 13:32 Operator: jw
Sample : ,samp,me0809c97-04b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:26 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Single Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100313.D Vial: 13
Acq On : 3 Oct 2008 20:12 Operator: jw
Sample : ,samp,me0809c97-05b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:54 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

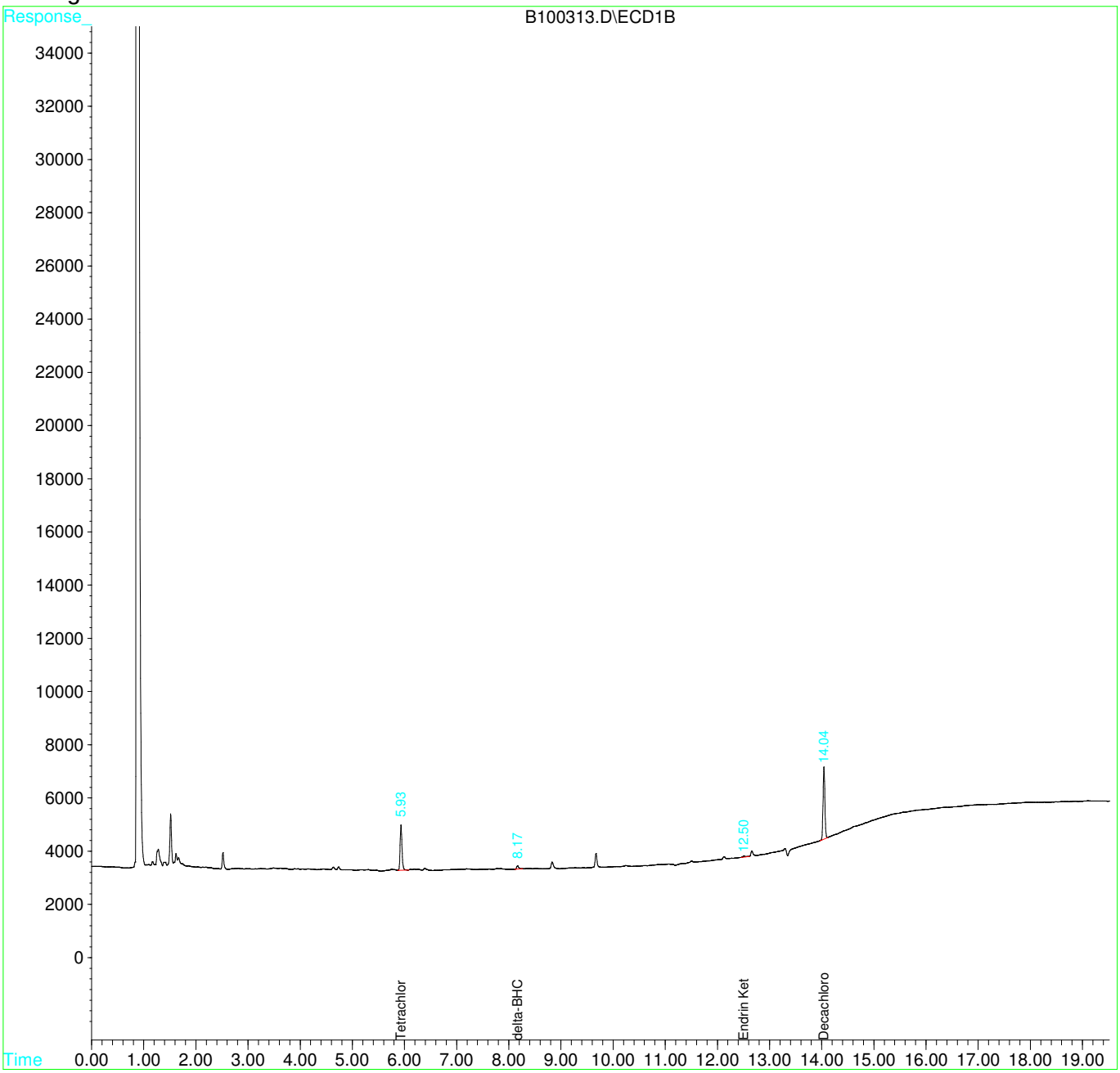
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S Tetrachloro-m-xylene	5.93	42319	0.020	ug/mlm3
Spiked Amount 0.020	Recovery	=	100.00%	
2) S Decachlorobiphenyl	14.04	66595	0.018	ug/mlm3
Spiked Amount 0.020	Recovery	=	90.00%	
Target Compounds				
3) alpha-BHC	0.00	0	N.D.	ug/ml
4) gamma-BHC	0.00	0	N.D.	ug/ml
5) beta-BHC	0.00	0	N.D.	ug/ml
6) delta-BHC	8.17	3563	0.014	ug/mlm1
7) Heptachlor	0.00	0	N.D.	ug/ml
8) Aldrin	0.00	0	N.D.	ug/ml
9) Heptachlor epoxide	0.00	0	N.D.	ug/ml
10) Endosulfan I	0.00	0	N.D.	ug/ml
11) 4,4'-DDE	0.00	0	N.D.	ug/ml
12) Dieldrin	0.00	0	N.D.	ug/ml
13) Endrin	0.00	0	N.D.	ug/ml
14) Endosulfan II	0.00	0	N.D.	ug/ml
15) 4,4'-DDD	0.00	0	N.D.	ug/ml
16) Endrin Aldehyde	0.00	0	N.D.	ug/ml
17) 4,4'-DDT	0.00	0	N.D.	ug/ml
18) Endosulfan Sulfate	0.00	0	N.D.	ug/ml
19) Endrin Ketone	12.50	1442	0.001	ug/mlm1
20) Methoxychlor	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100313.D Vial: 13
Acq On : 3 Oct 2008 20:12 Operator: jw
Sample : ,samp,me0809c97-05b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 10:54 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\B100608\B100608.D          Vial: 8
Acq On    :  6 Oct 2008 13:56                       Operator: jw
Sample    : ,samp,me0809c97-05b,1,                  Inst    : ECD1
Misc      : 8081-82_w+                              Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct  6 15:27 2008  Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title        : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update  : Wed Jun 04 18:23:58 2008
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\B100608\B100604.D
DataAcq Meth : NEWPCBB.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

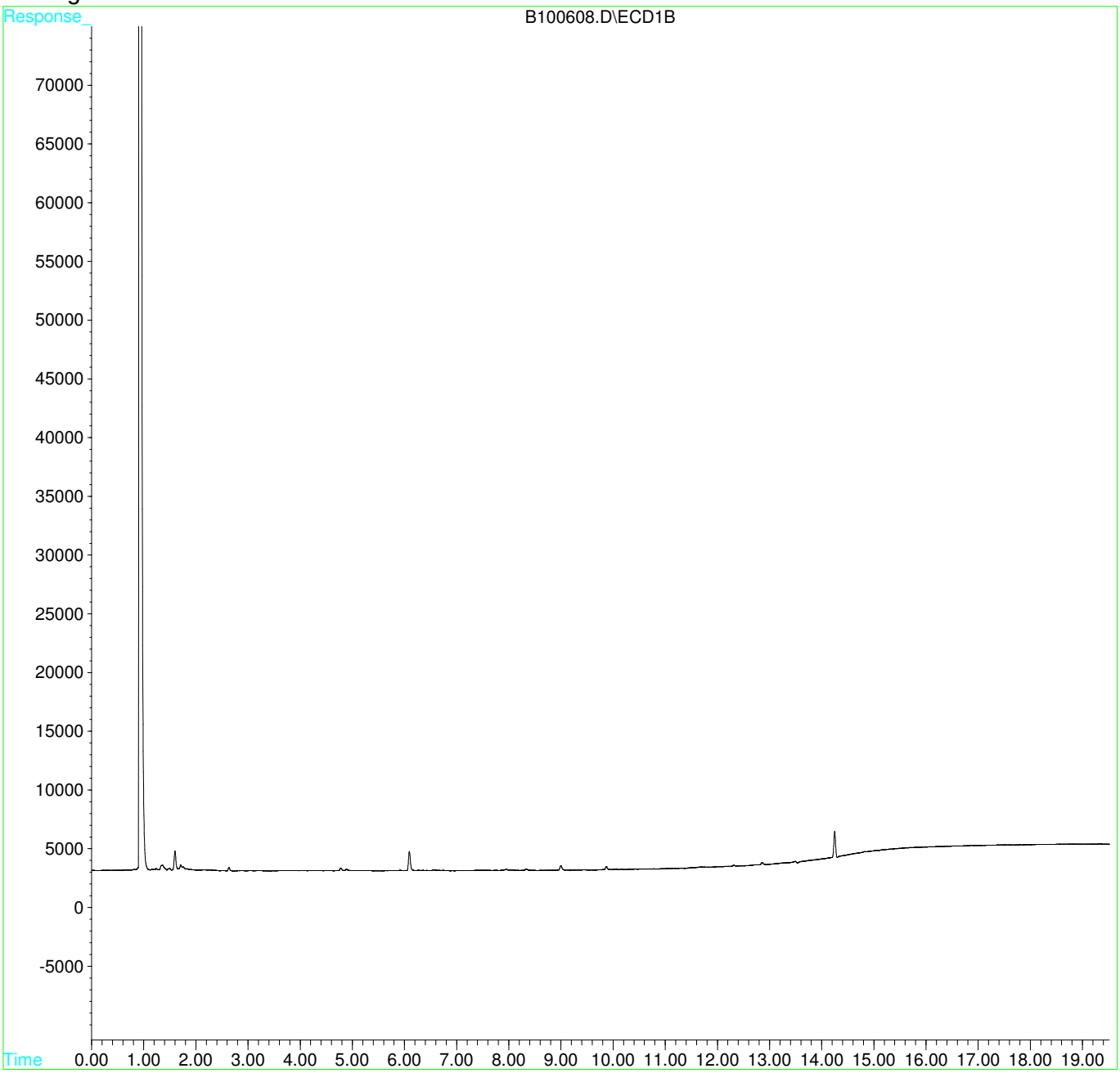
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	gamma-chlordane	0.00	0	N.D.	ug/mld
2)	alpha-chlordane	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100608.D Vial: 8
Acq On : 6 Oct 2008 13:56 Operator: jw
Sample : ,samp,me0809c97-05b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:27 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Single Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\B100308\B100318.D Vial: 18
Acq On : 3 Oct 2008 22:13 Operator: jw
Sample : ,samp,me0809c97-06b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 11:01 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Initial Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :

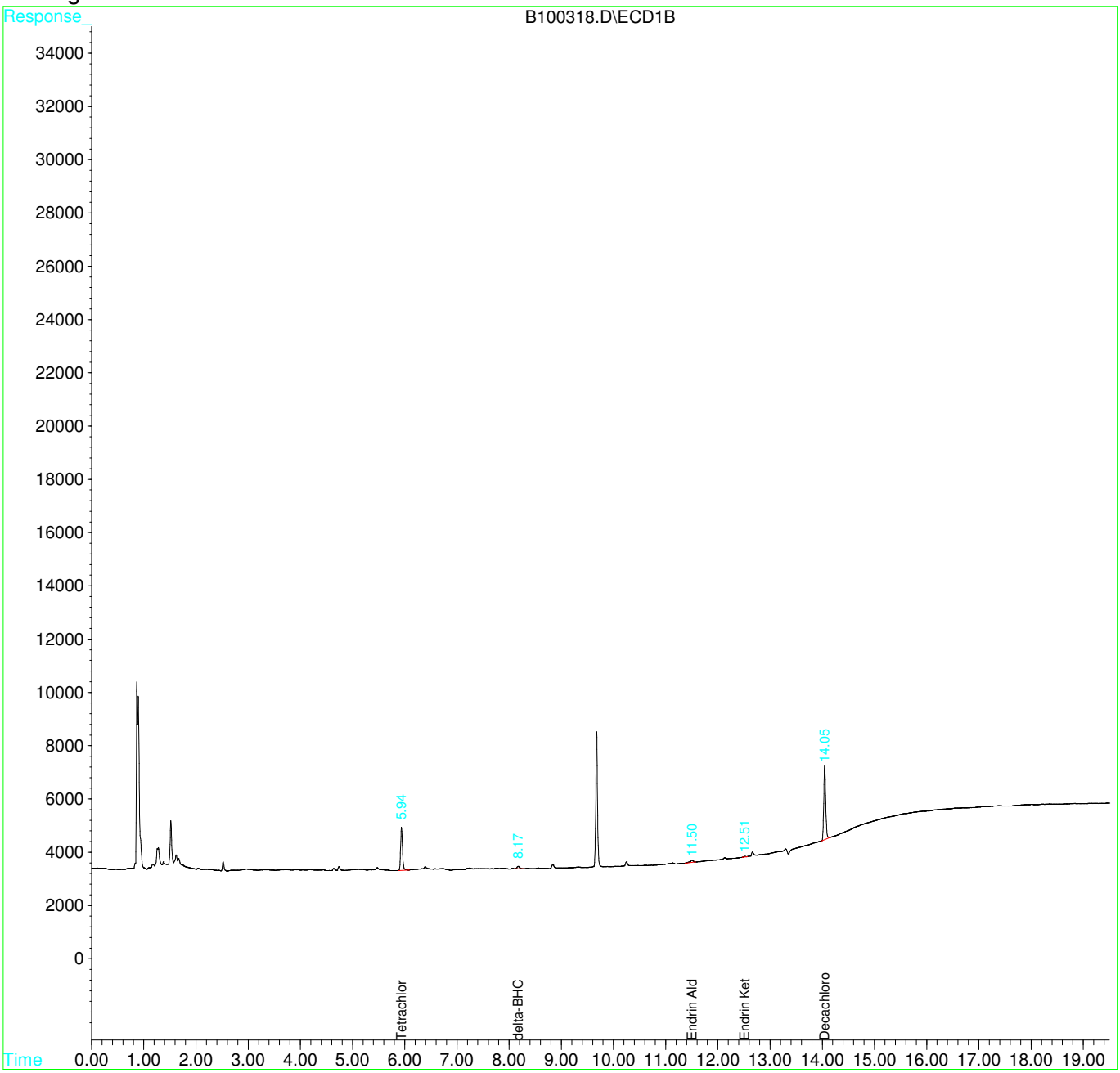
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S Tetrachloro-m-xylene	5.94	40081	0.019 ug/mlm3
Spiked Amount 0.020	Recovery	=	95.00%
2) S Decachlorobiphenyl	14.05	72233	0.019 ug/mlm3
Spiked Amount 0.020	Recovery	=	95.00%
Target Compounds			
3) alpha-BHC	0.00	0	N.D. ug/ml
4) gamma-BHC	0.00	0	N.D. ug/ml
5) beta-BHC	0.00	0	N.D. ug/ml
6) delta-BHC	8.17	2963	0.014 ug/mlm1
7) Heptachlor	0.00	0	N.D. ug/ml
8) Aldrin	0.00	0	N.D. ug/ml
9) Heptachlor epoxide	0.00	0	N.D. ug/ml
10) Endosulfan I	0.00	0	N.D. ug/ml
11) 4,4'-DDE	0.00	0	N.D. ug/ml
12) Dieldrin	0.00	0	N.D. ug/ml
13) Endrin	0.00	0	N.D. ug/ml
14) Endosulfan II	0.00	0	N.D. ug/ml
15) 4,4'-DDD	0.00	0	N.D. ug/ml
16) Endrin Aldehyde	11.50	3269	0.001 ug/mlm1
17) 4,4'-DDT	0.00	0	N.D. ug/ml
18) Endosulfan Sulfate	0.00	0	N.D. ug/ml
19) Endrin Ketone	12.51	581	0.000 ug/mlm1
20) Methoxychlor	0.00	0	N.D. ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100308\B100318.D Vial: 18
Acq On : 3 Oct 2008 22:13 Operator: jw
Sample : ,samp,me0809c97-06b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 6 11:01 2008 Quant Results File: BPESTE.RES

Quant Method : C:\HPCHEM\1\METHODS\BPESTE.M (Chemstation Integrator)
Title : **08/25/08 ECD#1-COL B--Pest ICAL-mtd 8081/608
Last Update : Fri Oct 03 10:47:35 2008
Response via : Multiple Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\B100608\B100609.D          Vial: 9
Acq On    :  6 Oct 2008 14:20                       Operator: jw
Sample    : ,samp,me0809c97-06b,1,                  Inst    : ECD1
Misc      : 8081-82_w+                              Multiplr: 1.00
IntFile   : events.e
Quant Time: Oct  6 15:27 2008  Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title        : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update  : Wed Jun 04 18:23:58 2008
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\B100608\B100604.D
DataAcq Meth : NEWPCBB.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

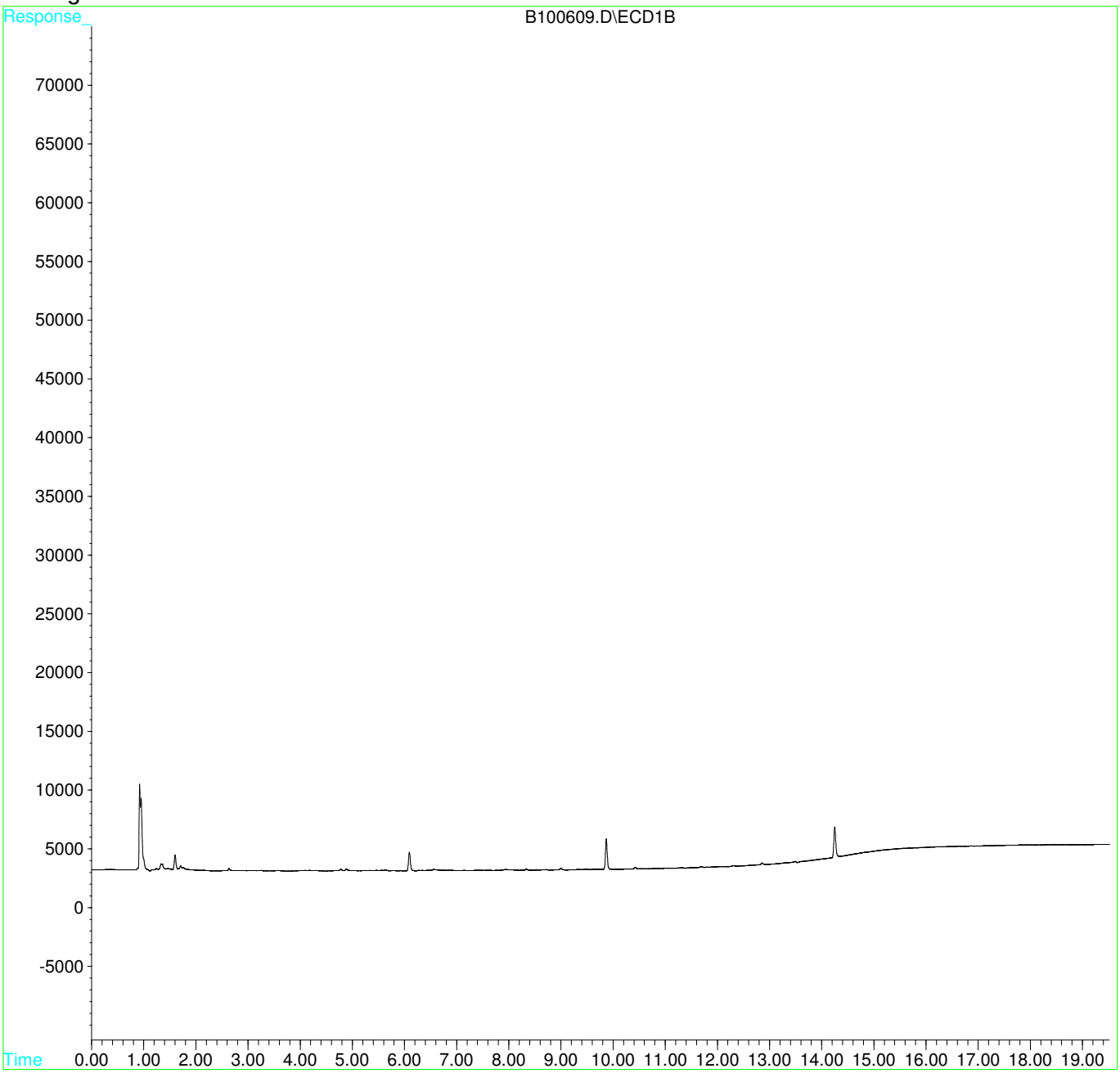
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	gamma-chlordane	0.00	0	N.D.	ug/mld
2)	alpha-chlordane	0.00	0	N.D.	ug/ml

Quantitation Report

Data File : C:\HPCHEM\1\DATA\B100608\B100609.D Vial: 9
Acq On : 6 Oct 2008 14:20 Operator: jw
Sample : ,samp,me0809c97-06b,1, Inst : ECD1
Misc : 8081-82_w+ Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 15:27 2008 Quant Results File: BAGCHLOR.RES

Quant Method : C:\HPCHEM\1\METHODS\BAGCHLOR.M (Chemstation Integrator)
Title : Alpha/Gamma-Chlordane-ECD#1-MR-2 COL
Last Update : Wed Jun 04 18:23:58 2008
Response via : Single Level Calibration
DataAcq Meth : NEWPCBB.M

Volume Inj. :
Signal Phase :
Signal Info :



EXTRACTION LOG(S)

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **65988** Prep Code: **3510_P** Technician: **Tatiana Montanez**

Prep Start Date: **10/3/2008 1:30:00 PM**
Prep End Date: **10/3/2008 5:30:00 PM**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
bk-4-100308				1000	0	0	10	0.01	10/3/2008	10/3/2008
LCS-4a-100308				1000	0	0	10	0.01	10/3/2008	10/3/2008
LCS-4b-100308				1000	0	0	10	0.01	10/3/2008	10/3/2008
ME0809C97-02B	Aqueous			970	0	0	10	0.0103093	10/3/2008	10/3/2008
ME0809C97-03B	Aqueous			930	0	0	10	0.0107527	10/3/2008	10/3/2008
ME0809C97-04B	Aqueous			930	0	0	10	0.0107527	10/3/2008	10/3/2008
ME0809C97-05B	Aqueous			980	0	0	10	0.0102041	10/3/2008	10/3/2008
ME0809C97-05BM	Aqueous			510	0	0	10	0.0196078	10/3/2008	10/3/2008
ME0809C97-05Bm	Aqueous			480	0	0	10	0.0208333	10/3/2008	10/3/2008
ME0809C97-05BM	Aqueous			480	0	0	10	0.0208333	10/3/2008	10/3/2008
ME0809C97-05Bm	Aqueous			500	0	0	10	0.02	10/3/2008	10/3/2008
ME0809C97-06B	Aqueous			960	0	0	10	0.0104167	10/3/2008	10/3/2008

Spk ID	Spike Name	SampType	AmtAdd
1mlspab82-15			0
1mlspab96-08			0
1mlsrab96-09			0

Injection Log

Directory:C:\HPCHEM\1\DATA\B100308\

Vial	FileName	SampleName	MiscInfo	Injected
1	B100301.D	rinse	8081_w	3 Oct 08 15:15
2	B100302.D	,ccv,ccv ddt/endrin 0.5ug/ml,1,	8081_w	3 Oct 08 15:39
3	B100303.D	,ccv,ccv pesticide 0.1ug/ml,1,	8081_w	3 Oct 08 16:03
4	B100304.D	,ccv,ccv ar1660 0.5ug/ml,1,	608_w	3 Oct 08 16:29
5	B100305.D	,ccv,ccv chlordane 0.2ug/ml,1,	8081_w	3 Oct 08 16:53
6	B100306.D	,ccv,ccv toxaphene 0.2ug/ml,1,	8081_w	3 Oct 08 17:18
7	B100307.D	,mblk,bk-4-100308,1,	8081-82_w	3 Oct 08 17:47
8	B100308.D	,lcs,lcs-4a-100308,1,	608_w	3 Oct 08 18:11
9	B100309.D	,lcs,lcs-4b-100308,1,	8081-82_w	3 Oct 08 18:35
10	B100310.D	,samp,me0809c97-02b,1,	8081-82_w+	3 Oct 08 18:59
11	B100311.D	,samp,me0809c97-03b,1,	8081-82_w+	3 Oct 08 19:24
12	B100312.D	,samp,me0809c97-04b,1,	8081-82_w+	3 Oct 08 19:48
13	B100313.D	,samp,me0809c97-05b,1,	8081-82_w+	3 Oct 08 20:12
14	B100314.D	,ms,me0809c97-05bms1,1,	8081-82_w+	3 Oct 08 20:36
15	B100315.D	,msd,me0809c97-05bmsd1,1,	8081-82_w+	3 Oct 08 21:00
16	B100316.D	,ms,me0809c97-05bms2,1,	8081-82_w+	3 Oct 08 21:25
17	B100317.D	,msd,me0809c97-05bmsd2,1,	8081-82_w+	3 Oct 08 21:49
18	B100318.D	,samp,me0809c97-06b,1,	8081-82_w+	3 Oct 08 22:13
19	B100319.D	,samp,me0810074-01b,1,	608_w	3 Oct 08 22:37
20	B100320.D	,samp,me0810040-01a,5,	608_w	3 Oct 08 23:01
1	B100321.D	rinse	608_w	3 Oct 08 23:24
1	B100322.D	rinse	608_w	4 Oct 08 00:06
3	B100323.D	,ccv,ccv pesticide 0.1ug/ml,1,	8081_w	4 Oct 08 00:53
3	B100324.D	,ccv,ccv pesticide 0.1ug/ml,1,	8081_w	4 Oct 08 1:17
4	B100325.D	,ccv,ccv ar1660 0.5ug/ml,1,	608_w	4 Oct 08 1:41
4	B100326.D	,ccv,ccv ar1660 0.5ug/ml,1,	8081pcb_w	4 Oct 08 2:05

Injection Log

Directory:C:\HPCHEM\1\DATA\B100608\

Vial	FileName	SampleName	MiscInfo	Injected
1	B100601.D	rinse	8081_w	6 Oct 08 11:07
2	B100602.D	,ccv,ccv ddt/endrin 0.5ug/ml,1,	8081_w	6 Oct 08 11:31
3	B100603.D	,ccv,ccv pesticide 0.1ug/ml,1,	8081_w	6 Oct 08 11:55
4	B100604.D	,ccv,ccv a/g chlordane 1.0ug/ml,1,	8081_w+	6 Oct 08 12:20
5	B100605.D	,samp,me0809c97-02b,1,	8081-82_w+	6 Oct 08 12:44
6	B100606.D	,samp,me0809c97-03b,1,	8081-82_w+	6 Oct 08 13:08
7	B100607.D	,samp,me0809c97-04b,1,	8081-82_w+	6 Oct 08 13:32
8	B100608.D	,samp,me0809c97-05b,1,	8081-82_w+	6 Oct 08 13:56
9	B100609.D	,samp,me0809c97-06b,1,	8081-82_w+	6 Oct 08 14:20
3	B100610.D	,ccv,ccv pesticide 0.1ug/ml,1,	8081_w	6 Oct 08 14:45
10	B100611.D	,mblk,bk-3-100308,1,pest,	8081-82_s	6 Oct 08 15:22
11	B100612.D	,lcs,lcs-3b-100308,1,pest,	8081-82_s	6 Oct 08 15:46
12	B100613.D	,samp,me0810095-01a,1,pest,	8081-82_s	6 Oct 08 16:10
13	B100614.D	,samp,me0810058-01a,1,pest,	8081-82_s	6 Oct 08 16:34
14	B100615.D	,ms,me0810095-01ams,1,pest,	8081-82_s	6 Oct 08 16:58
15	B100616.D	,msd,me0810095-01amsd,1,pest,	8081-82_s	6 Oct 08 17:23
16	B100617.D	,samp,me0810040-01a,2,	608_w	6 Oct 08 17:47
1	B100618.D	rinse	608_w	6 Oct 08 18:10
3	B100619.D	,ccv,ccv pesticide 0.1ug/ml,1,	8081_w	6 Oct 08 18:52
3	B100620.D	,ccv,ccv pesticide 0.1ug/ml,1,	8081_w	6 Oct 08 19:16
17	B100621.D	,ccv,ccv ar1660 1.0ug/ml,1,	8081pcb_w	6 Oct 08 19:40
18	B100622.D	,ccv,ccv ar1254 0.5ug/ml,1,	8081pcb_w	6 Oct 08 20:04
19	B100623.D	,ccv,ccv ar1248 0.5ug/ml,1,	8081pcb_w	6 Oct 08 20:29
20	B100624.D	,samp,me0810050-01a,10,	8081pcb_s	6 Oct 08 20:53
21	B100625.D	,samp,me0810157-01a,1,Cu,	8081pcb_wipe	6 Oct 08 21:17
22	B100626.D	,samp,me0810157-06a,1,Cu,	8081pcb_wipe	6 Oct 08 21:41
23	B100627.D	,samp,me0810157-12a,2,	8081pcb_wipe	6 Oct 08 22:05
24	B100628.D	,samp,me0810157-15a,10,	8081pcb_wipe	6 Oct 08 22:30
25	B100629.D	,mblk,bk-4-100608,1,	8081pcb_wipe	6 Oct 08 22:54
26	B100630.D	,lcs,lcs-4a-100608,1,	8081pcb_wipe	6 Oct 08 23:18
27	B100631.D	,lcs,lcs-4b-100608,1,	8081pcb_wipe	6 Oct 08 23:42
28	B100632.D	,samp,me0810186-01a,1,	8081pcb_wipe	7 Oct 08 00:06
29	B100633.D	,samp,me0810186-02a,1,	8081pcb_wipe	7 Oct 08 00:30
30	B100634.D	,samp,me0810186-03a,1,	8081pcb_wipe	7 Oct 08 00:55
1	B100635.D	rinse	8081pcb_wipe	7 Oct 08 1:18
31	B100636.D	,ccv,ccv ar1660 1.0ug/ml,1,	8081pcb_wipe	7 Oct 08 2:04
31	B100637.D	,ccv,ccv ar1660 1.0ug/ml,1,	8081pcb_wipe	7 Oct 08 2:28

SVOA GC/MS
RAW DATA

METHOD BLANK RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100306.D Vial: 83
Acq On : 3 Oct 2008 9:01 pm Operator: mills
Sample : ,mblk,bk-2-100308,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:53 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

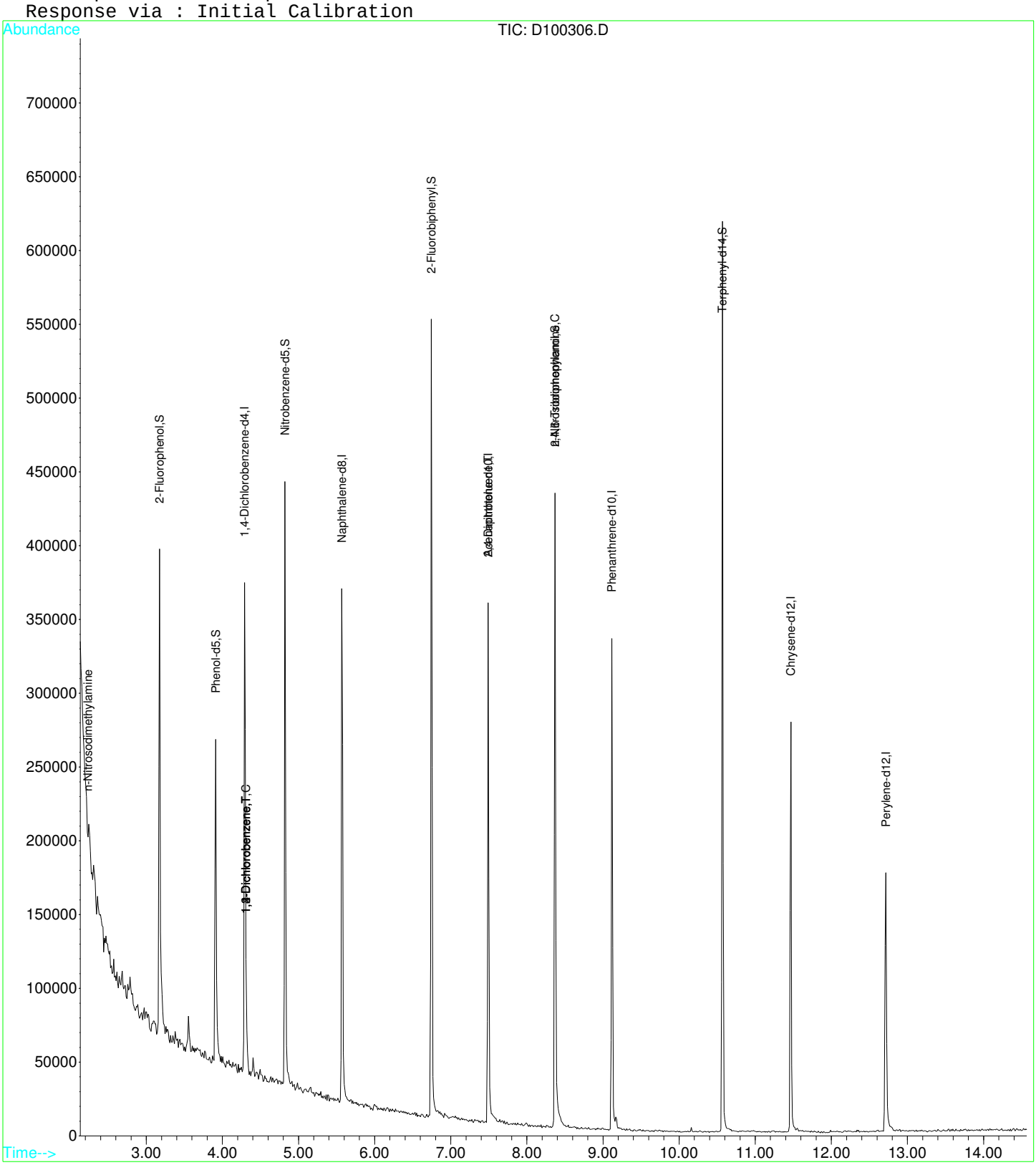
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	62915	40.00	ug/ml	0.00
19) Naphthalene-d8	5.57	136	188688	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.49	164	84927	40.00	ug/ml	0.00
56) Phenanthrene-d10	9.12	188	109740	40.00	ug/ml	0.00
69) Chrysene-d12	11.47	240	94861	40.00	ug/ml	0.01
78) Perylene-d12	12.72	264	86446	40.00	ug/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	3.18	112	108008	55.54	ug/ml	0.00
5) Phenol-d5	3.91	99	90639	38.19	ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	130961	61.62	ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	173837	65.96	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	44580	101.76	ug/ml	0.00
72) Terphenyl-d14	10.57	244	163677	79.17	ug/ml	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	2.23	74	607	0.52	ug/ml#	4
10) 1,3-Dichlorobenzene	4.31	146	5582	2.59	ug/ml	98
11) 1,4-Dichlorobenzene	4.31	146	5582	2.51	ug/ml	99
12) 1,2-Dichlorobenzene	4.31	146	5582	2.63	ug/ml	97
51) 2,4-Dinitrotoluene	7.49	165	9263	11.15	ug/ml#	34
58) n-Nitrosodiphenylamine	8.37	169	1730	0.52	ug/ml#	31

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100306.D Vial: 83
Acq On : 3 Oct 2008 9:01 pm Operator: mills
Sample : ,mblk,bk-2-100308,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:53 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



LABORATORY CONTROL SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100307.D Vial: 84
Acq On : 3 Oct 2008 9:27 pm Operator: mills
Sample : ,lcs,lcs-2-100308,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:53 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	62007	40.00	ug/ml	0.00
19) Naphthalene-d8	5.57	136	203417	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.49	164	95052	40.00	ug/ml	0.00
56) Phenanthrene-d10	9.12	188	114843	40.00	ug/ml	0.00
69) Chrysene-d12	11.46	240	99123	40.00	ug/ml	0.00
78) Perylene-d12	12.71	264	105695	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	3.18	112	103661	54.09	ug/ml	0.00
5) Phenol-d5	3.91	99	88702	37.92	ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	131323	57.32	ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	187081	63.43	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	47706	104.05	ug/ml	0.00
72) Terphenyl-d14	10.57	244	162372	75.16	ug/ml	0.00

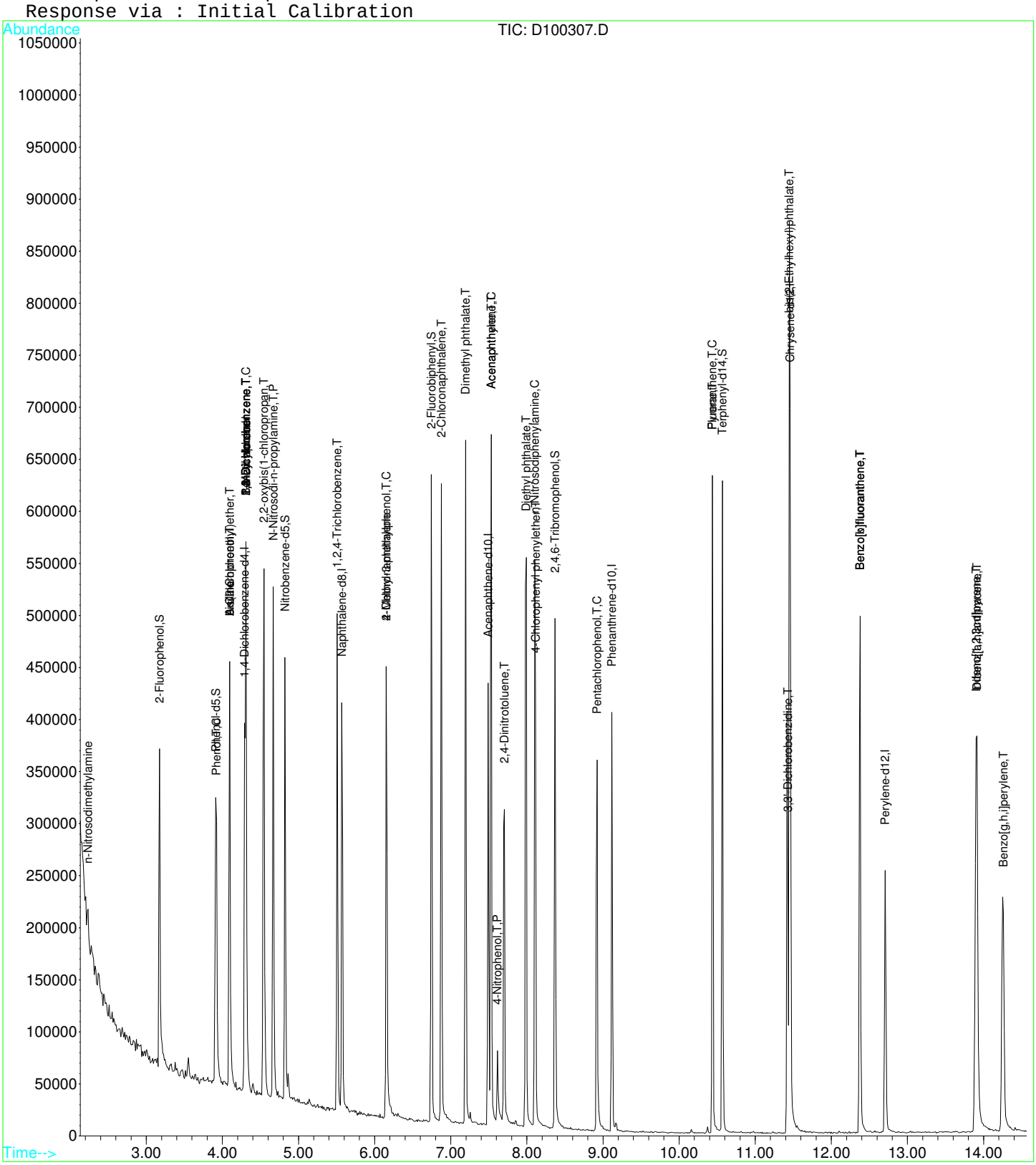
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	2.23	74	1817	1.59	ug/ml	92
6) Phenol	3.92	94	65240	28.32	ug/ml	99
7) Aniline	4.10	93	2278	0.87	ug/ml#	1
8) bis(2-Chloroethyl)ether	4.10	93	2278	1.22	ug/ml#	1
9) 2-Chlorophenol	4.10	128	114767	61.83	ug/ml	98
10) 1,3-Dichlorobenzene	4.31	146	113539	53.41	ug/ml	97
11) 1,4-Dichlorobenzene	4.31	146	113539	51.90	ug/ml	99
12) 1,2-Dichlorobenzene	4.31	146	113539	54.28	ug/ml	96
13) Benzyl alcohol	4.31	108	1097	1.01	ug/ml#	36
14) 2,2-oxybis(1-chloropropan	4.55	45	248909	71.86	ug/ml	97
15) 2-Methylphenol	4.31	108	1097	0.68	ug/ml	90
17) N-Nitrosodi-n-propylamine	4.67	70	112458	78.86	ug/ml	95
29) 1,2,4-Trichlorobenzene	5.51	180	82843	55.64	ug/ml	99
34) 4-Chloro-3-methylphenol	6.15	107	104388	71.53	ug/ml	99
35) 2-Methylnaphthalene	6.15	142	79731	29.20	ug/ml#	17
41) 2-Chloronaphthalene	6.88	162	175427	56.27	ug/ml	98
43) Acenaphthylene	7.53	152	81814	19.04	ug/ml#	1
44) Dimethyl phthalate	7.19	163	268394	76.24	ug/ml	100
47) Acenaphthene	7.53	153	176409	66.28	ug/ml	99
50) 4-Nitrophenol	7.61	109	12005	24.10	ug/ml	98
51) 2,4-Dinitrotoluene	7.71	165	71000	76.38	ug/ml	94
53) 4-Chlorophenyl phenylether	8.11	204	88757	82.57	ug/ml	86
54) Diethyl phthalate	7.99	149	302099	83.86	ug/ml	99
58) n-Nitrosodiphenylamine	8.10	169	10616	3.04	ug/ml#	68
63) Pentachlorophenol	8.92	266	41141	77.29	ug/ml	96
68) Fluoranthene	10.44	202	236220	76.72	ug/ml#	69
71) Pyrene	10.44	202	244197	76.05	ug/ml	88
75) 3,3'-Dichlorobenzidine	11.43	252	89487	87.17	ug/ml	99
77) bis(2-Ethylhexyl)phthalate	11.45	149	276771	89.91	ug/ml	98
80) Benzo[b]fluoranthene	12.38	252	219023	75.94	ug/ml	94
81) Benzo[k]fluoranthene	12.38	252	219023	95.09	ug/ml	92
83) Indeno[1,2,3cd]pyrene	13.90	276	185605	94.67	ug/ml	91
84) Dibenz[a,h]anthracene	13.91	278	151563	151.03	ug/ml	98
85) Benzo[g,h,i]perylene	14.26	276	156603	89.99	ug/ml	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100307.D Vial: 84
Acq On : 3 Oct 2008 9:27 pm Operator: mills
Sample : ,lcs,lcs-2-100308,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:53 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



MATRIX SPIKE/MATRIX SPIKE DUPLICATE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100319.D Vial: 96
Acq On : 4 Oct 2008 2:43 am Operator: mills
Sample : ,samp,me0809c97-05b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

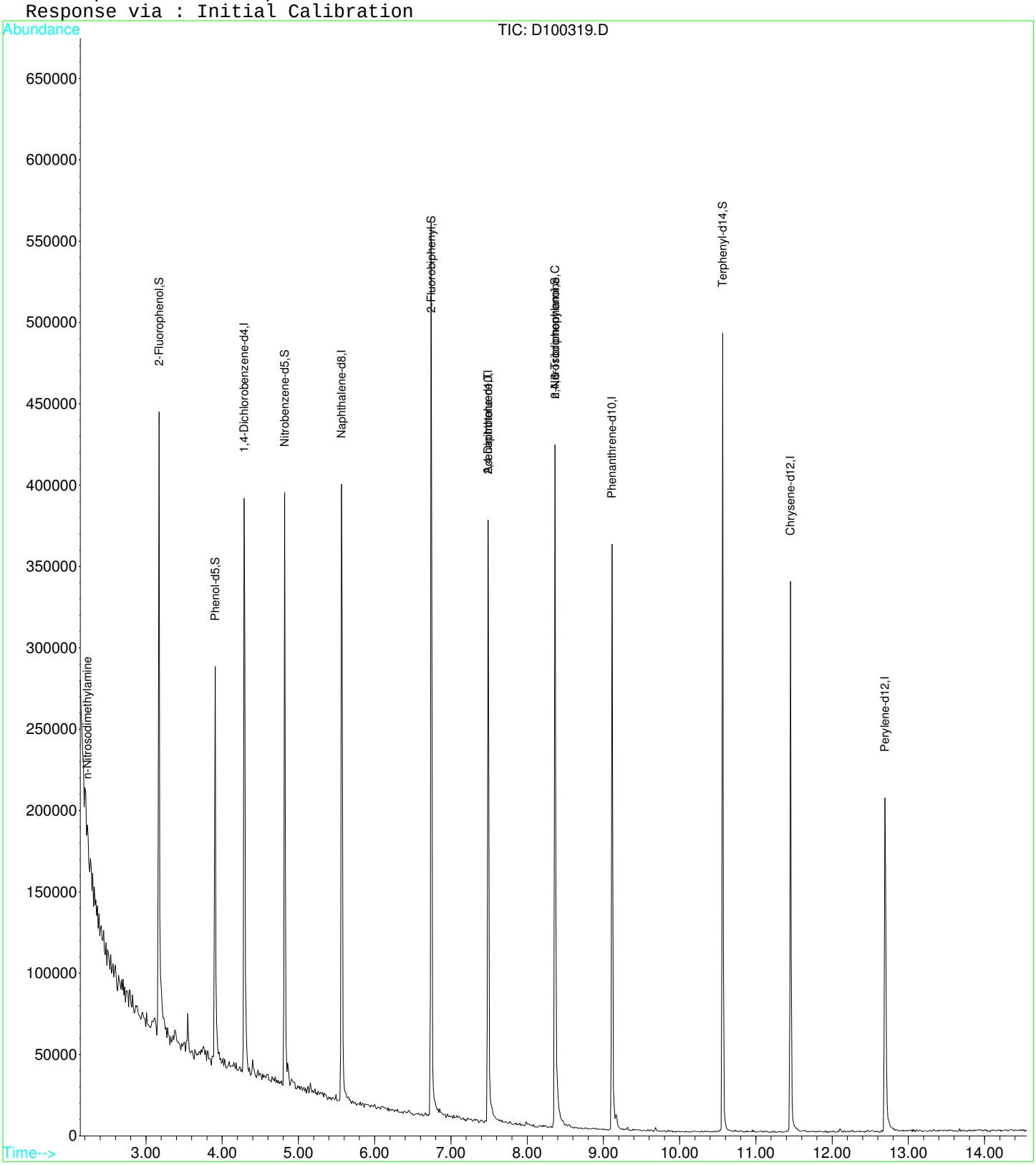
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	67842	40.00 ug/ml	0.00
19) Naphthalene-d8	5.56	136	212092	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	97807	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.11	188	126680	40.00 ug/ml	0.00
69) Chrysene-d12	11.45	240	106406	40.00 ug/ml	0.00
78) Perylene-d12	12.69	264	100137	40.00 ug/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	103025	49.13 ug/ml	0.00
5) Phenol-d5	3.91	99	84308	32.94 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	119467	50.01 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	173595	57.20 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	43570	86.15 ug/ml	0.00
72) Terphenyl-d14	10.56	244	130286	56.18 ug/ml	0.00
Target Compounds					Qvalue
3) n-Nitrosodimethylamine	2.23	74	802	0.64 ug/ml#	17
51) 2,4-Dinitrotoluene	7.49	165	10482	10.96 ug/ml#	38
58) n-Nitrosodiphenylamine	8.37	169	1997	0.52 ug/ml#	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100319.D Vial: 96
Acq On : 4 Oct 2008 2:43 am Operator: mills
Sample : ,samp,me0809c97-05b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100320.D Vial: 97
Acq On : 4 Oct 2008 3:09 am Operator: mills
Sample : ,ms,me0809c97-05bms,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 6 14:57 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

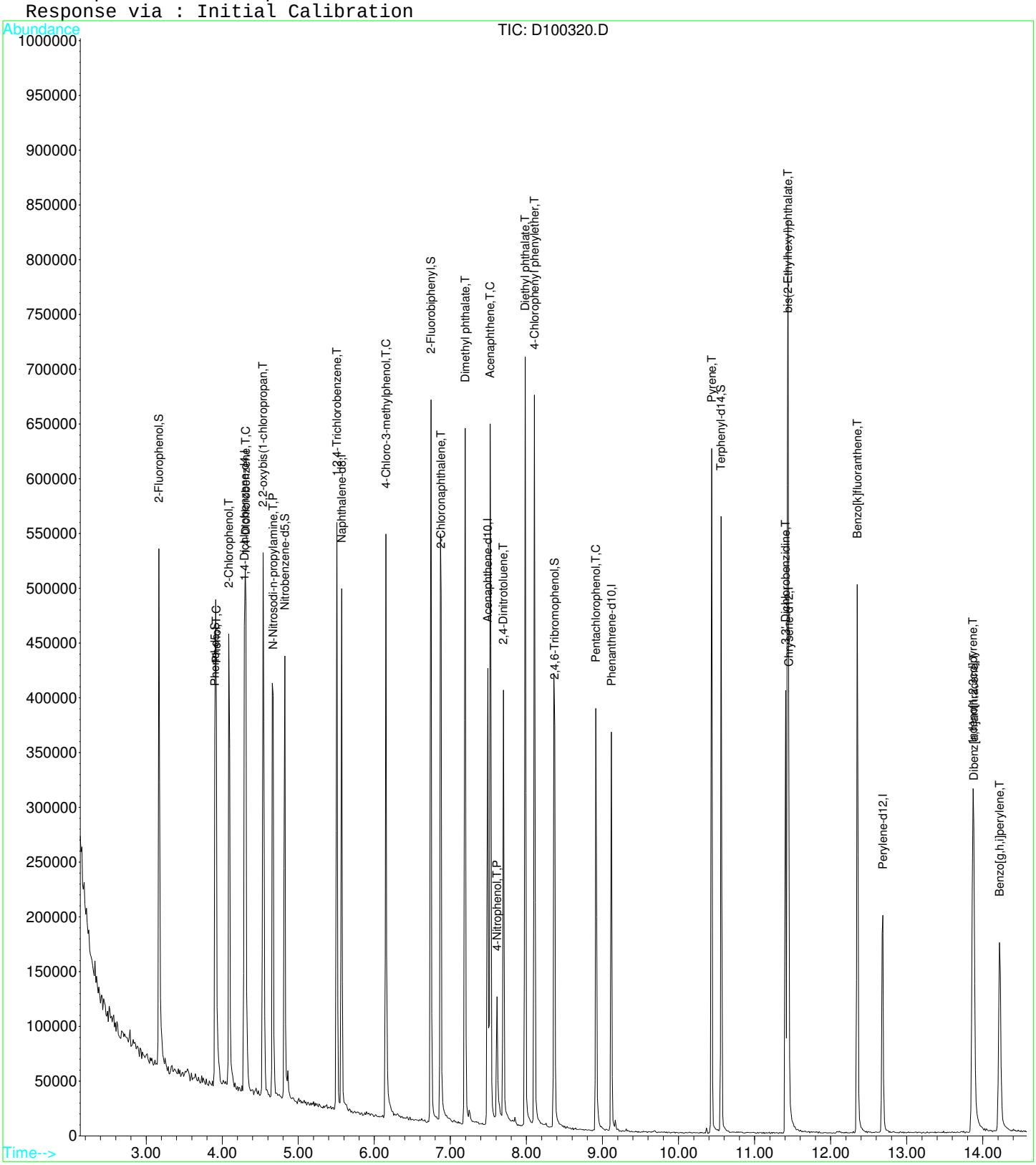
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	64616	40.00 ug/ml	0.00
19) Naphthalene-d8	5.57	136	208316	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	95637	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.12	188	112122	40.00 ug/ml	0.00
69) Chrysene-d12	11.45	240	95216	40.00 ug/ml	0.00
78) Perylene-d12	12.69	264	95090	40.00 ug/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	138410	69.30 ug/ml	0.00
5) Phenol-d5	3.90	99	138305	56.74 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	140051	59.69 ug/ml	0.00
40) 2-Fluorobiphenyl	6.75	172	204605	68.94 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	47014	105.03 ug/ml	0.00
72) Terphenyl-d14	10.56	244	153218	73.83 ug/ml	0.00
Target Compounds					Qvalue
6) Phenol	3.92	94	106425	44.33 ug/ml	99
9) 2-Chlorophenol	4.09	128	122607	63.39 ug/ml#	82
11) 1,4-Dichlorobenzene	4.31	146	126588	55.53 ug/ml	99
14) 2,2-oxybis(1-chloropropan	4.54	45	252228	69.87 ug/ml	100
17) N-Nitrosodi-n-propylamine	4.67	70	115706	77.87 ug/ml	93
29) 1,2,4-Trichlorobenzene	5.51	180	95026	62.32 ug/ml	98
34) 4-Chloro-3-methylphenol	6.15	107	110602	74.01 ug/ml	96
41) 2-Chloronaphthalene	6.88	162	188298	60.03 ug/ml	99
44) Dimethyl phthalate	7.20	163	281171	79.38 ug/ml	100
47) Acenaphthene	7.52	153	180651	67.46 ug/ml	100
50) 4-Nitrophenol	7.61	109	19727m3	39.36 ug/ml	
51) 2,4-Dinitrotoluene	7.70	165	70567	75.45 ug/ml#	69
53) 4-Chlorophenyl phenylether	8.11	204	92165	85.22 ug/ml	96
54) Diethyl phthalate	7.98	149	304922	84.13 ug/ml	98
63) Pentachlorophenol	8.91	266	38790	74.64 ug/ml	99
71) Pyrene	10.44	202	227780	73.85 ug/ml	91
75) 3,3'-Dichlorobenzidine	11.41	252	78309	79.41 ug/ml	100
77) bis(2-Ethylhexyl)phthalate	11.44	149	269542	91.15 ug/ml	99
81) Benzo[k]fluoranthene	12.35	252	190687	92.02 ug/ml	97
83) Indeno[1,2,3cd]pyrene	13.87	276	146819	83.24 ug/ml	89
84) Dibenz[a,h]anthracene	13.88	278	114906	127.27 ug/ml	99
85) Benzo[g,h,i]perylene	14.22	276	119704	76.46 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100320.D Vial: 97
Acq On : 4 Oct 2008 3:09 am Operator: mills
Sample : ,ms,me0809c97-05bms,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 6 14:57 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100321.D Vial: 98
Acq On : 4 Oct 2008 3:35 am Operator: mills
Sample : ,msd,me0809c97-05bmsd,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 6 14:59 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

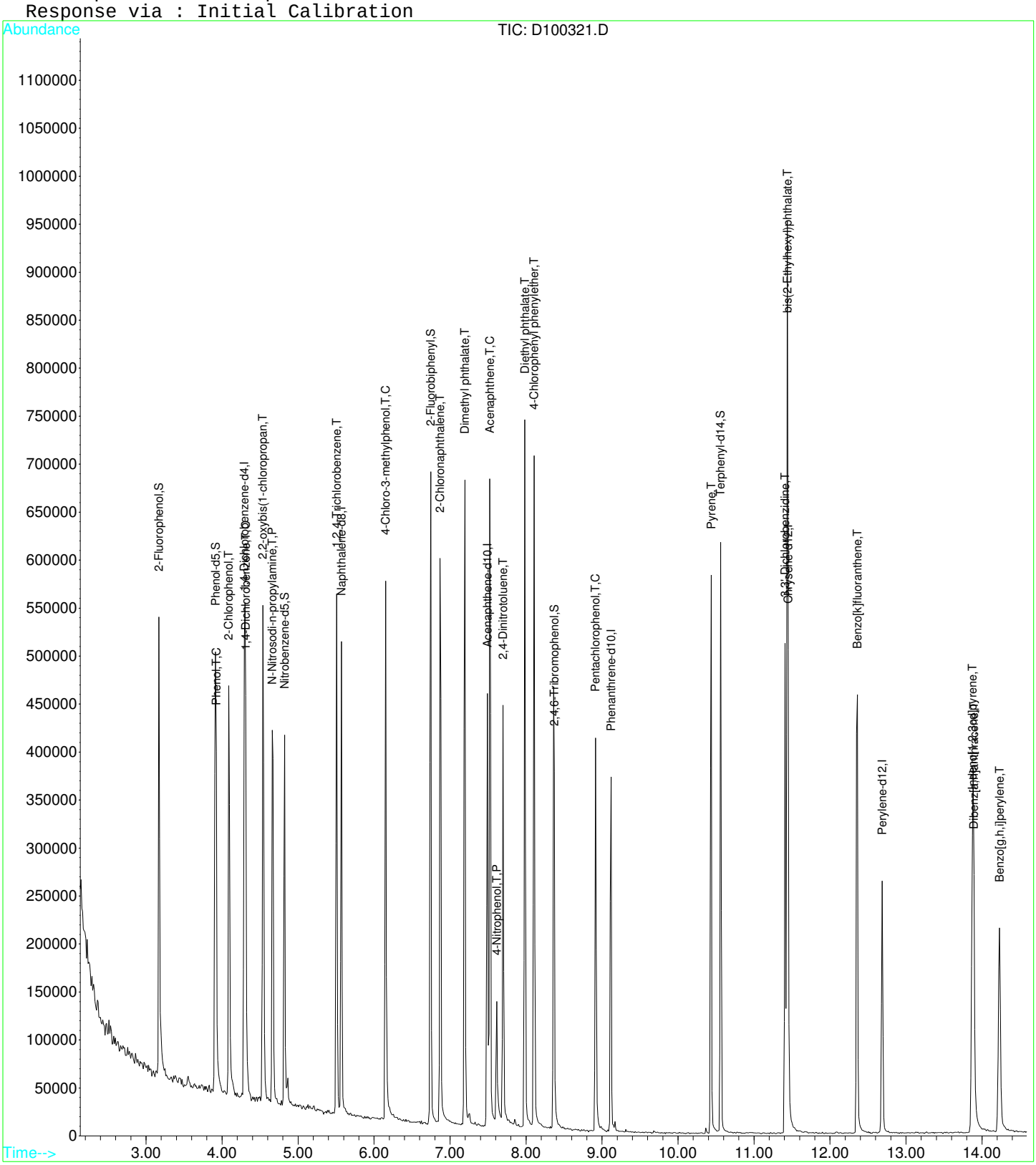
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	71382	40.00 ug/ml	0.00
19) Naphthalene-d8	5.57	136	223499	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	100426	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.12	188	123045	40.00 ug/ml	0.00
69) Chrysene-d12	11.45	240	103639	40.00 ug/ml	0.00
78) Perylene-d12	12.69	264	105289	40.00 ug/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	139897	63.41 ug/ml	0.00
5) Phenol-d5	3.91	99	140793	52.28 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	139240	55.31 ug/ml	0.00
40) 2-Fluorobiphenyl	6.75	172	213994	68.67 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	48445	98.62 ug/ml	0.00
72) Terphenyl-d14	10.56	244	162402	71.90 ug/ml	0.00
Target Compounds					Qvalue
6) Phenol	3.92	94	109127	41.14 ug/ml	100
9) 2-Chlorophenol	4.09	128	120319	56.31 ug/ml#	84
11) 1,4-Dichlorobenzene	4.31	146	126766	50.34 ug/ml	98
14) 2,2-oxybis(1-chloropropan	4.54	45	262751	65.89 ug/ml	99
17) N-Nitrosodi-n-propylamine	4.66	70	115290	70.23 ug/ml	94
29) 1,2,4-Trichlorobenzene	5.51	180	98245	60.05 ug/ml	99
34) 4-Chloro-3-methylphenol	6.15	107	118635	73.99 ug/ml	97
41) 2-Chloronaphthalene	6.87	162	191508	58.14 ug/ml	93
44) Dimethyl phthalate	7.20	163	303932	81.72 ug/ml	100
47) Acenaphthene	7.52	153	185372	65.92 ug/ml	99
50) 4-Nitrophenol	7.62	109	20485m3	38.92 ug/ml	
51) 2,4-Dinitrotoluene	7.70	165	75888	77.27 ug/ml#	76
53) 4-Chlorophenyl phenylether	8.11	204	95109	83.75 ug/ml	97
54) Diethyl phthalate	7.98	149	322631	84.77 ug/ml	98
63) Pentachlorophenol	8.91	266	41314	72.44 ug/ml	99
71) Pyrene	10.44	202	233355	69.51 ug/ml	91
75) 3,3'-Dichlorobenzidine	11.41	252	85661	79.81 ug/ml	95
77) bis(2-Ethylhexyl)phthalate	11.44	149	281650	87.51 ug/ml	100
81) Benzo[k]fluoranthene	12.36	252	210477	91.73 ug/ml#	90
83) Indeno[1,2,3cd]pyrene	13.87	276	168630	86.34 ug/ml	89
84) Dibenz[a,h]anthracene	13.89	278	136614	136.65 ug/ml	95
85) Benzo[g,h,i]perylene	14.23	276	138624	79.96 ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

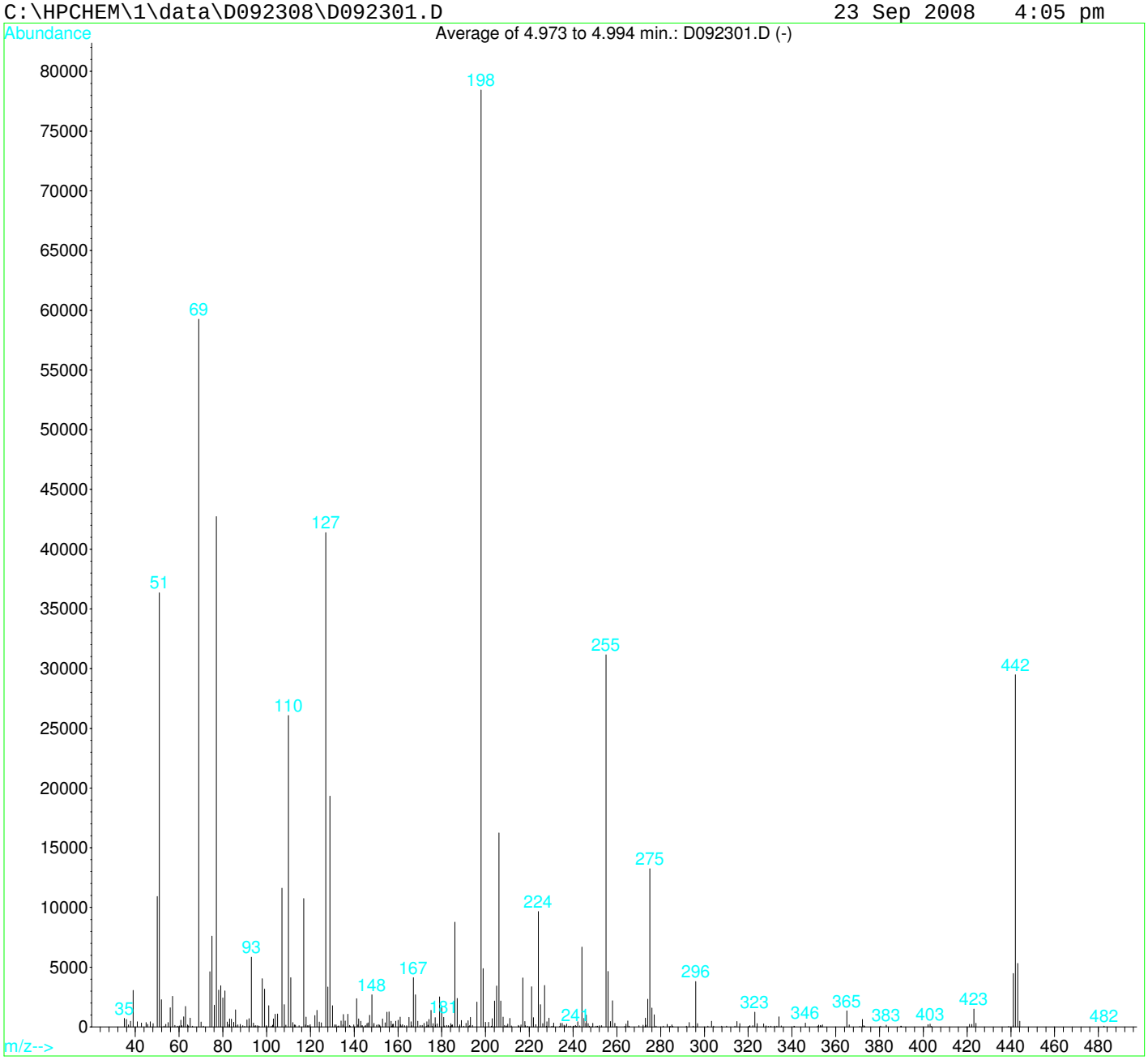
Data File : C:\HPCHEM\1\DATA\D100308\D100321.D Vial: 98
Acq On : 4 Oct 2008 3:35 am Operator: mills
Sample : ,msd,me0809c97-05bmsd,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 6 14:59 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



TUNING RAW DATA

C:\HPCHEM\1\data\D092308\D092301.D 23 Sep 2008 4:05 pm



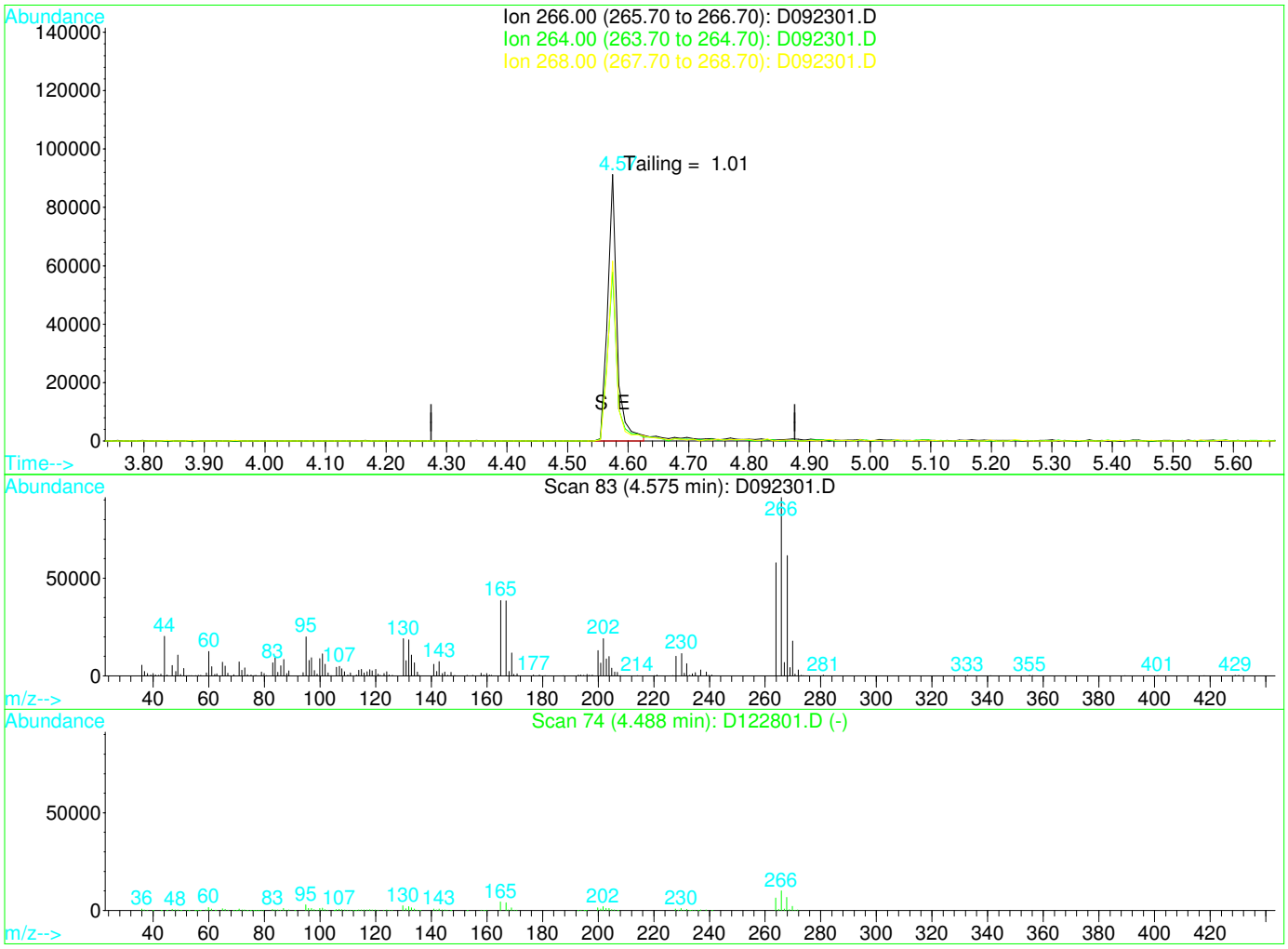
Peak Apex is scan: 123
Average of 3 scans: 122,123,124 minus background scan 119

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	46.3	PASS
68	69	0	2	0.0	PASS
69	198	0	100	75.5	PASS
70	69	0	2	0.7	PASS
127	198	40	60	52.7	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.2	PASS
275	198	10	30	16.9	PASS
365	198	1	100	1.7	PASS
441	443	>0	100	84.4	PASS
442	198	40	100	37.6	FAIL*
443	442	17	23	18.0	PASS

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D092308\D092301.D Vial: 1
Acq On : 23 Sep 2008 4:05 pm Operator: mills
Sample : ,tune,dftpp tune,1, Inst : SVOA 4
Misc : dftpp Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 23 16:13 2008 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Sep 23 16:13:55 2008
Response via : Single Level Calibration



TIC: D092301.D

(1) PENTACHLOROPHENOL

4.57min 108.11

response 103158

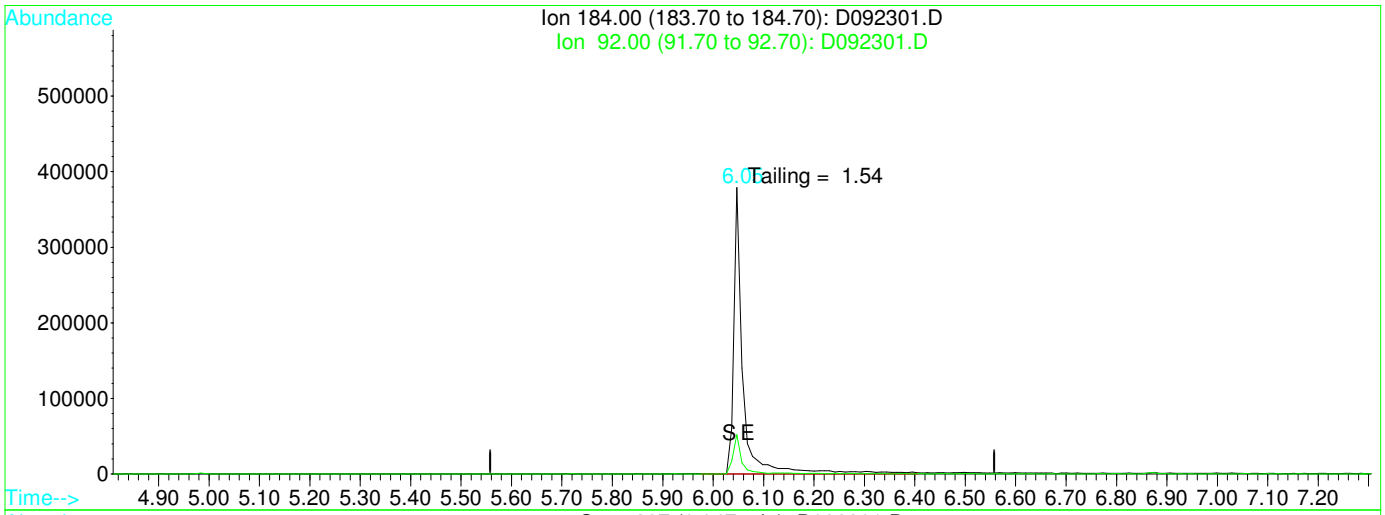
Ion	Exp%	Act%
266.00	100	100
264.00	64.80	64.63
268.00	64.60	66.34
0.00	0.00	0.00

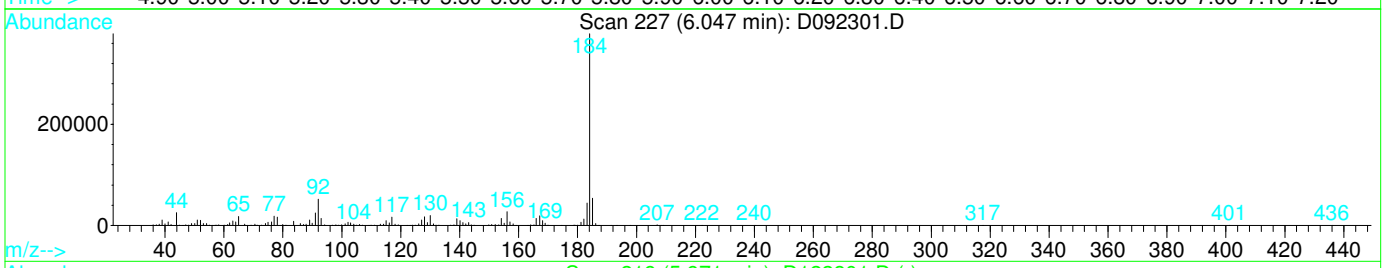
D092301.D DFTPP.M Tue Sep 23 16:14:14 2008 SVOA4

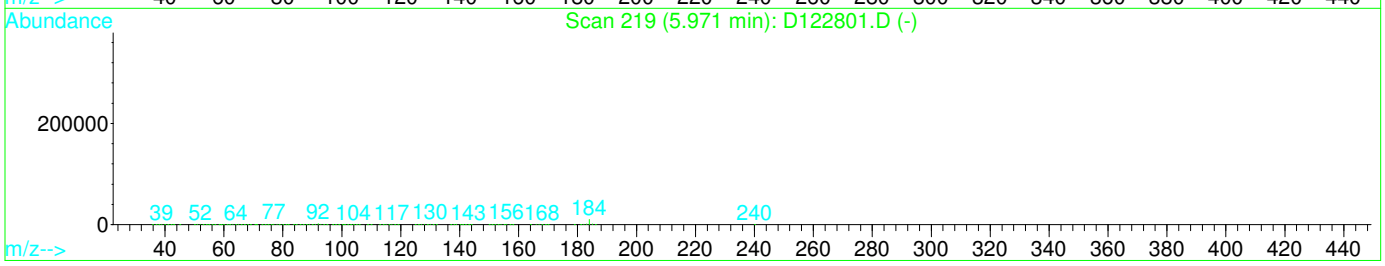
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D092308\D092301.D Vial: 1
Acq On : 23 Sep 2008 4:05 pm Operator: mills
Sample : ,tune,dftpp tune,1, Inst : SVOA 4
Misc : dftpp Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 23 16:13 2008 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Tue Sep 23 16:13:55 2008
Response via : Single Level Calibration







TIC: D092301.D

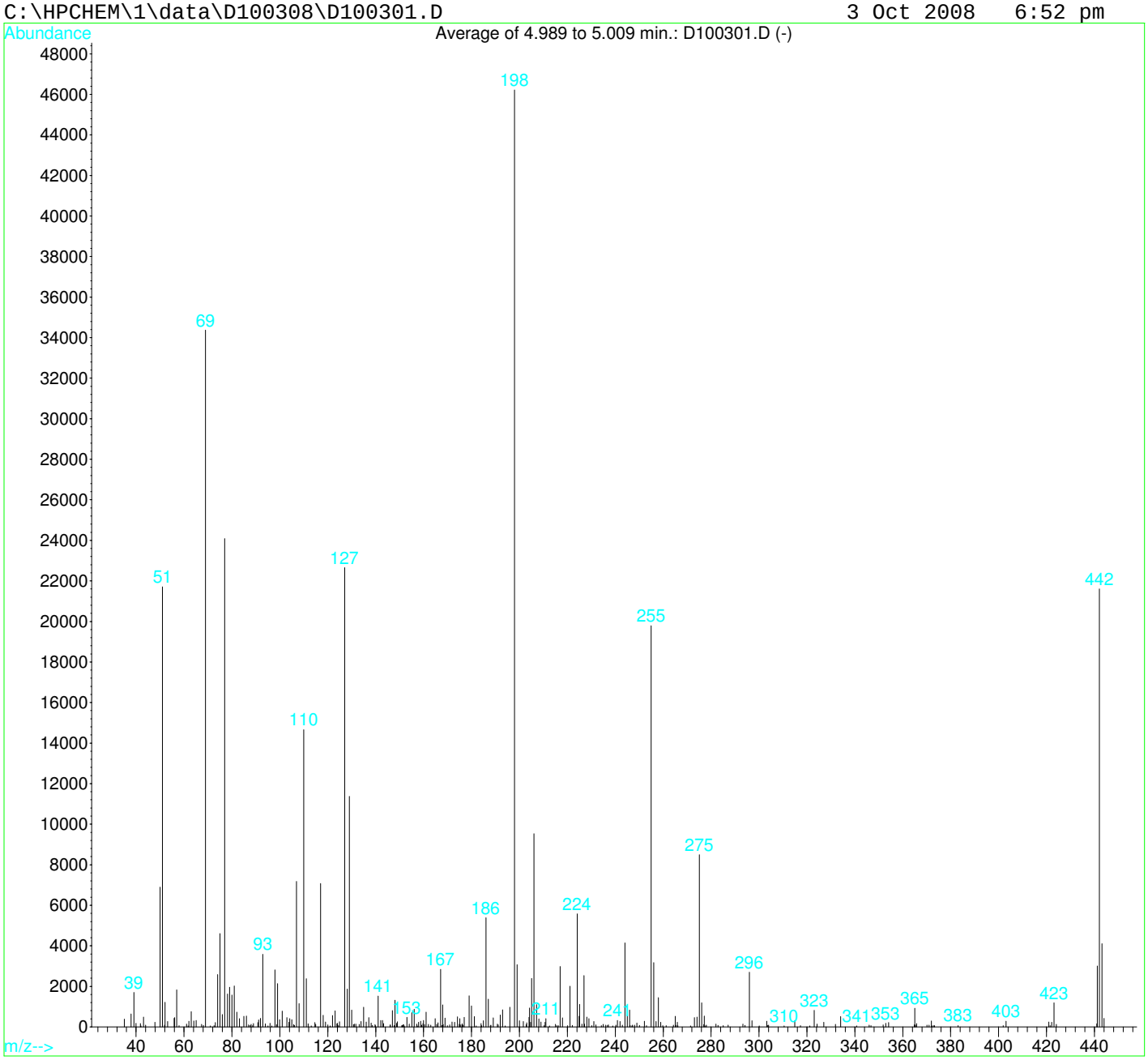
(3) BENZIDINE

6.05min 114.72

response 454606

Ion	Exp%	Act%
184.00	100	100
92.00	12.20	13.53
0.00	0.00	0.00
0.00	0.00	0.00

C:\HPCHEM\1\data\D100308\D100301.D 3 Oct 2008 6:52 pm



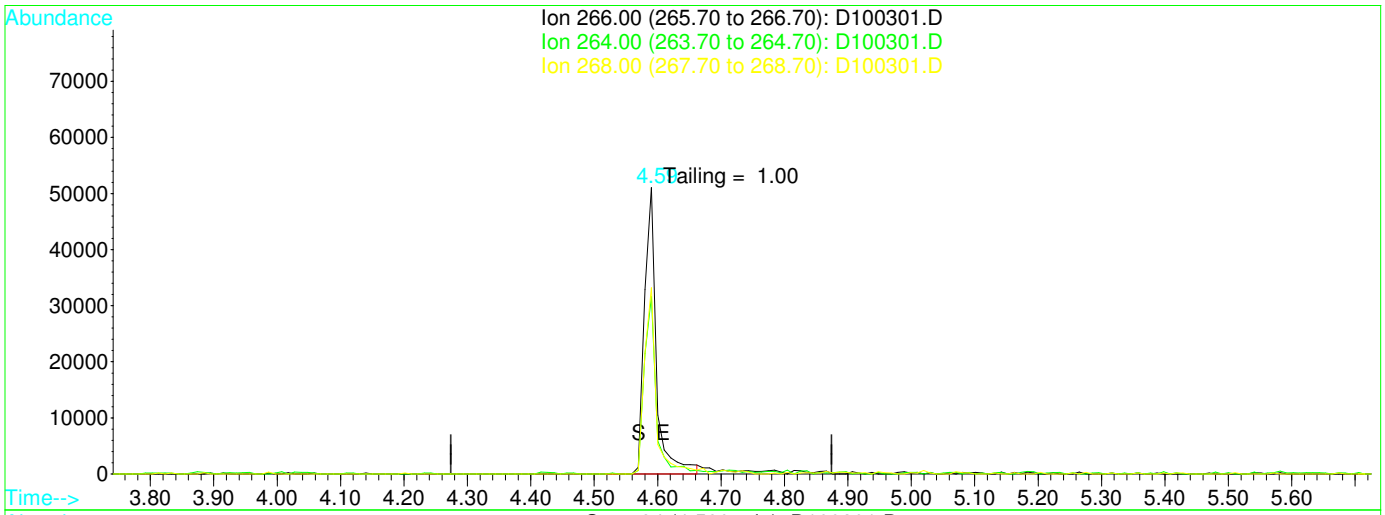
Peak Apex is scan: 124
Average of 3 scans: 123,124,125 minus background scan 119

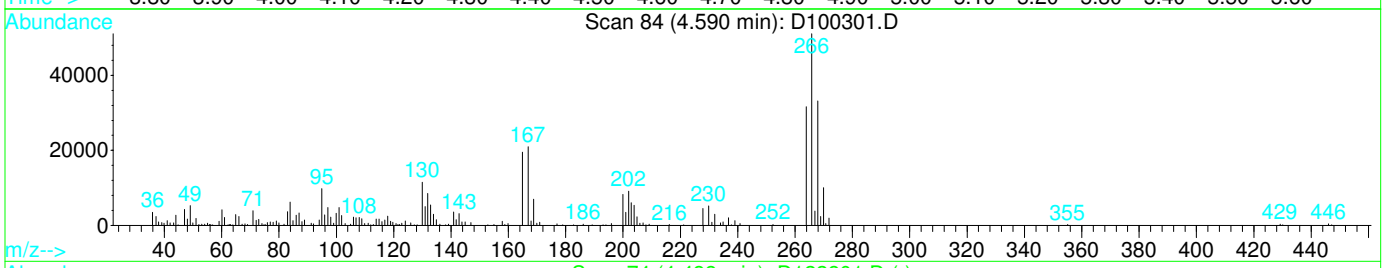
Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	47.0	PASS
68	69	0	2	0.2	PASS
69	198	0	100	74.4	PASS
70	69	0	2	0.0	PASS
127	198	40	60	49.0	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.6	PASS
275	198	10	30	18.4	PASS
365	198	1	100	2.0	PASS
441	443	>0	100	73.2	PASS
442	198	40	100	46.7	PASS
443	442	17	23	19.0	PASS

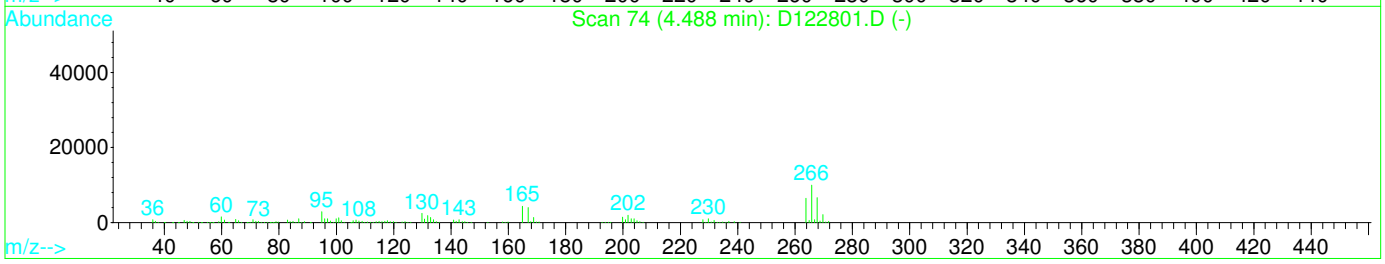
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D100308\D100301.D Vial: 1
Acq On : 3 Oct 2008 6:52 pm Operator: mills
Sample : ,tune,dftpp tune,1, Inst : SVOA 4
Misc : dftpp Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:00 2008 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Fri Oct 03 19:00:25 2008
Response via : Single Level Calibration







TIC: D100301.D

(1) PENTACHLOROPHENOL

4.59min 33.89

response 69925

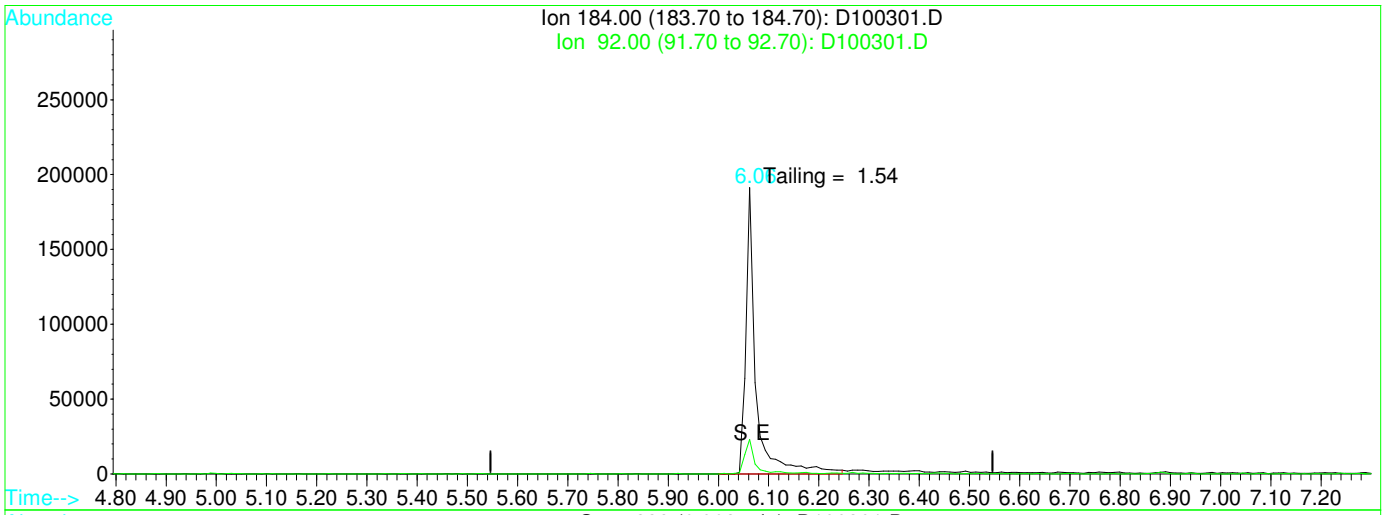
Ion	Exp%	Act%
266.00	100	100
264.00	64.80	60.64
268.00	64.60	62.24
0.00	0.00	0.00

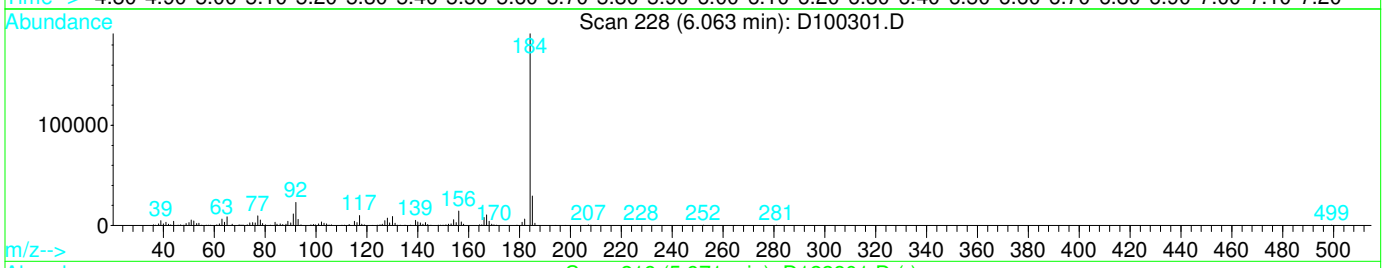
D100301.D DFTPP.M Fri Oct 03 19:28:48 2008 SVOA4

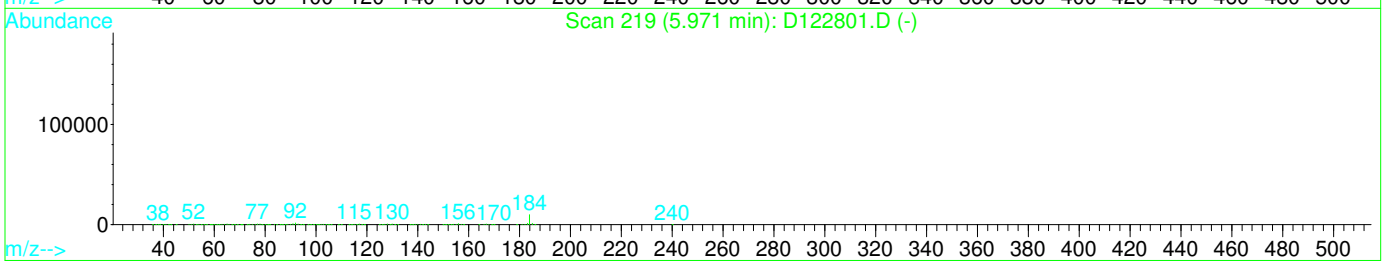
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\D100308\D100301.D Vial: 1
Acq On : 3 Oct 2008 6:52 pm Operator: mills
Sample : ,tune,dftpp tune,1, Inst : SVOA 4
Misc : dftpp Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:00 2008 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : DFTPP
Last Update : Fri Oct 03 19:00:25 2008
Response via : Single Level Calibration







TIC: D100301.D

(3) BENZIDINE

6.06min 29.59

response 269035

Ion	Exp%	Act%
184.00	100	100
92.00	12.20	12.46
0.00	0.00	0.00
0.00	0.00	0.00

INITIAL CALIBRATION RAW DATA

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration

Calibration Files
1.0 =D092302.D 5.0 =D092303.D 10 =D092304.D
20 =D092305.D 50 =D092306.D 80 =D092307.D

		Compound	1.0	5.0	10	20	50	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		Pyridine			1.157	1.123	1.379	1.250	1.263	7.67
3)		n-Nitrosodimethylam			0.475	0.548	0.768	0.773	0.737	22.20
4)	S	2-Fluorophenol			1.145	1.274	1.211	1.291	1.236	4.00
5)	S	Phenol-d5			1.518	1.571	1.539	1.494	1.509	2.53
6)	T,C	Phenol			1.510	1.576	1.552	1.449	1.486	4.20
7)		Aniline			1.718	1.734	1.703	1.700	1.688	3.11
8)	T	bis(2-Chloroethyl)e			1.253	1.256	1.215	1.228	1.209	3.55
9)	T	2-Chlorophenol			1.163	1.234	1.197	1.213	1.197	1.91
10)	T	1,3-Dichlorobenzene			1.447	1.475	1.355	1.354	1.371	4.72
11)	T,C	1,4-Dichlorobenzene			1.488	1.536	1.429	1.400	1.411	5.72
12)	T	1,2-Dichlorobenzene			1.438	1.459	1.337	1.348	1.349	5.39
13)		Benzyl alcohol			0.642	0.712	0.699	0.724	0.704	4.08
14)	T	2,2-oxybis(1-chloro			2.203	2.385	2.286	2.261	2.235	3.84
15)		2-Methylphenol			1.040	1.073	1.035	1.085	1.039	3.36
16)	T	Hexachloroethane			0.748	0.732	0.696	0.689	0.698	4.58
17)	T,P	N-Nitrosodi-n-propy			0.996	0.994	0.910	0.934	0.920	6.40
18)		3/4-Methylphenol			1.042	1.096	1.023	1.067	1.044	2.74
19)	I	Naphthalene-d8	----------ISTD----------							
20)	S	Nitrobenzene-d5	0.339	0.386	0.472	0.476	0.473	0.491	0.451	11.59
21)	T	Nitrobenzene			0.403	0.420	0.401	0.390	0.401	2.45
22)		Acetophenone			0.502	0.507	0.455	0.458	0.456	8.27
23)	T	Isophorone			0.767	0.790	0.773	0.727	0.739	5.33
24)	T,C	2-Nitrophenol			0.193	0.207	0.205	0.217	0.206	4.10
25)	T	2,4-Dimethylphenol			0.349	0.356	0.352	0.368	0.352	2.84
26)	T	bis(2-Chloroethoxy)			0.432	0.435	0.421	0.421	0.415	4.13
27)	T,C	2,4-Dichlorophenol			0.275	0.282	0.283	0.297	0.283	3.34
28)		Benzoic acid				0.072	0.143	0.170	0.154	27.71
29)	T	1,2,4-Trichlorobenz			0.312	0.317	0.297	0.288	0.293	5.80
30)	T	Naphthalene	0.840	1.131	0.982	0.927	0.898	0.880	0.901	11.68
31)		2,6-Dichlorophenol			0.280	0.276	0.279	0.272	0.267	5.58
32)		4-Chloroaniline			0.333	0.350	0.360	0.355	0.343	5.64
33)	T,C	Hexachlorobutadiene			0.200	0.195	0.183	0.187	0.182	6.97
34)	T,C	4-Chloro-3-methylph			0.268	0.282	0.293	0.302	0.287	4.20
35)		2-Methylnaphthalene			0.574	0.582	0.530	0.550	0.537	6.61
36)	I	Acenaphthene-d10	----------ISTD----------							
37)	P	Hexachlorocyclopent			0.324	0.344	0.325	0.267	0.293	13.22
38)		2,4,5-Trichlorophen			0.397	0.415	0.408	0.402	0.401	3.78
39)	T,C	2,4,6-Trichlorophen			0.347	0.376	0.387	0.359	0.371	3.69
40)	S	2-Fluorobiphenyl	1.004	1.395	1.399	1.383	1.257	1.196	1.241	10.83
41)	T	2-Chloronaphthalene			1.432	1.397	1.302	1.212	1.312	5.81
42)		2-Nitroaniline			0.349	0.419	0.446	0.440	0.432	9.64
43)	T	Acenaphthylene	1.531	2.093	1.874	1.904	1.846	1.788	1.809	8.95
44)	T	Dimethyl phthalate			1.520	1.577	1.510	1.452	1.481	4.38
45)	T	2,6-Dinitrotoluene			0.275	0.318	0.325	0.330	0.326	7.94
46)		3-Nitroaniline			0.288	0.325	0.349	0.345	0.349	9.85
47)	T,C	Acenaphthene	1.044	1.343	1.266	1.171	1.140	1.046	1.120	10.99
48)	T,P	2,4-Dinitrophenol				0.075	0.134	0.177	0.160	29.52
49)		Dibenzofuran			1.501	1.556	1.475	1.340	1.411	7.80
50)	T,P	4-Nitrophenol			0.136	0.179	0.203	0.221	0.210	20.14
51)	T	2,4-Dinitrotoluene			0.273	0.375	0.428	0.415	0.391	14.29
52)	T	Fluorene	0.931	1.177	1.084	1.138	1.009	0.943	1.006	10.23
53)	T	4-Chlorophenyl phen			0.519	0.511	0.451	0.429	0.452	10.10
54)	T	Diethyl phthalate			1.549	1.620	1.558	1.474	1.516	4.73

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration

Calibration Files
1.0 =D092302.D 5.0 =D092303.D 10 =D092304.D
20 =D092305.D 50 =D092306.D 80 =D092307.D

		Compound	1.0	5.0	10	20	50	80	Avg	%RSD
55)		4-Nitroaniline			0.253	0.292	0.324	0.328	0.316	10.28
56)	I	Phenanthrene-d10	----------ISTD----------							
57)	T	4,6-Dinitro-2-methy				0.111	0.163	0.187	0.169	17.85
58)	C	n-Nitrosodiphenylam			1.399	1.287	1.273	1.194	1.216	10.13
59)		1,2-diphenyl-Hydraz			1.305	1.319	1.328	1.282	1.277	5.09
60)	S	2,4,6-Tribromopheno			0.136	0.157	0.169	0.167	0.160	7.56
61)	T	4-Bromophenyl pheny			0.275	0.273	0.278	0.263	0.263	6.48
62)	T	Hexachlorobenzene			0.315	0.321	0.315	0.303	0.300	6.65
63)	T,C	Pentachlorophenol			0.151	0.175	0.192	0.196	0.185	9.53
64)	T	Phenanthrene	0.937	1.407	1.294	1.235	1.167	1.133	1.146	13.09
65)	T	Anthracene	0.961	1.492	1.325	1.279	1.270	1.223	1.211	13.16
66)		Carbazole			0.886	0.839	0.918	0.982	0.913	5.21
67)	T	Di-n-butyl phthalat			2.029	2.111	2.128	2.029	1.994	6.28
68)	T,C	Fluoranthene	0.923	1.340	1.151	1.137	1.102	1.030	1.072	12.12
69)	I	Chrysene-d12	----------ISTD----------							
70)		Benzidine			0.235	0.321	0.387	0.326	0.316	15.20
71)	T	Pyrene	1.012	1.469	1.469	1.308	1.326	1.312	1.296	10.58
72)	S	Terphenyl-d14	0.568	0.919	0.952	0.900	0.945	0.926	0.872	13.56
73)	T	Butyl benzyl phthal			0.932	1.015	1.067	1.103	1.038	5.75
74)	T	Benzo[a]anthracene	0.955	1.031	1.186	1.057	1.050	0.999	1.047	6.11
75)	T	3,3'-Dichlorobenzid			0.280	0.322	0.450	0.478	0.414	19.08
76)	T	Chrysene	1.013	1.224	1.014	1.047	1.042	1.025	0.997	11.59
77)	T	bis(2-Ethylhexyl)ph			1.104	1.201	1.324	1.302	1.242	5.83
78)	I	Perylene-d12	----------ISTD----------							
79)	T,C	Di-n-octyl phthalat			1.541	1.946	2.284	2.336	2.183	15.08
80)	T	Benzo[b]fluoranthen	0.671	1.084	1.105	1.307	1.059	1.059	1.092	16.19
81)	T	Benzo[k]fluoranthen	0.758	1.236	0.987	0.839	0.969	0.878	0.872	19.66
82)	T,C	Benzo[a]pyrene	0.538	1.113	0.992	1.020	0.994	0.952	0.925	17.41
83)	T	Indeno[1,2,3cd]pyre	0.435	0.817	0.781	0.888	0.819	0.771	0.742	17.63
84)	T	Dibenz[a,h]anthrace	0.261	0.647	0.351	0.396	0.369	0.352	0.380	28.10
85)	T	Benzo[g,h,i]perylen	0.457	0.785	0.710	0.805	0.715	0.658	0.659	16.96

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092302.D Vial: 2
Acq On : 23 Sep 2008 4:40 pm Operator: mills
Sample : ,ical,pna ical 1.0ug/ml,1,ab70-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 16:56 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Mon Sep 22 21:50:11 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

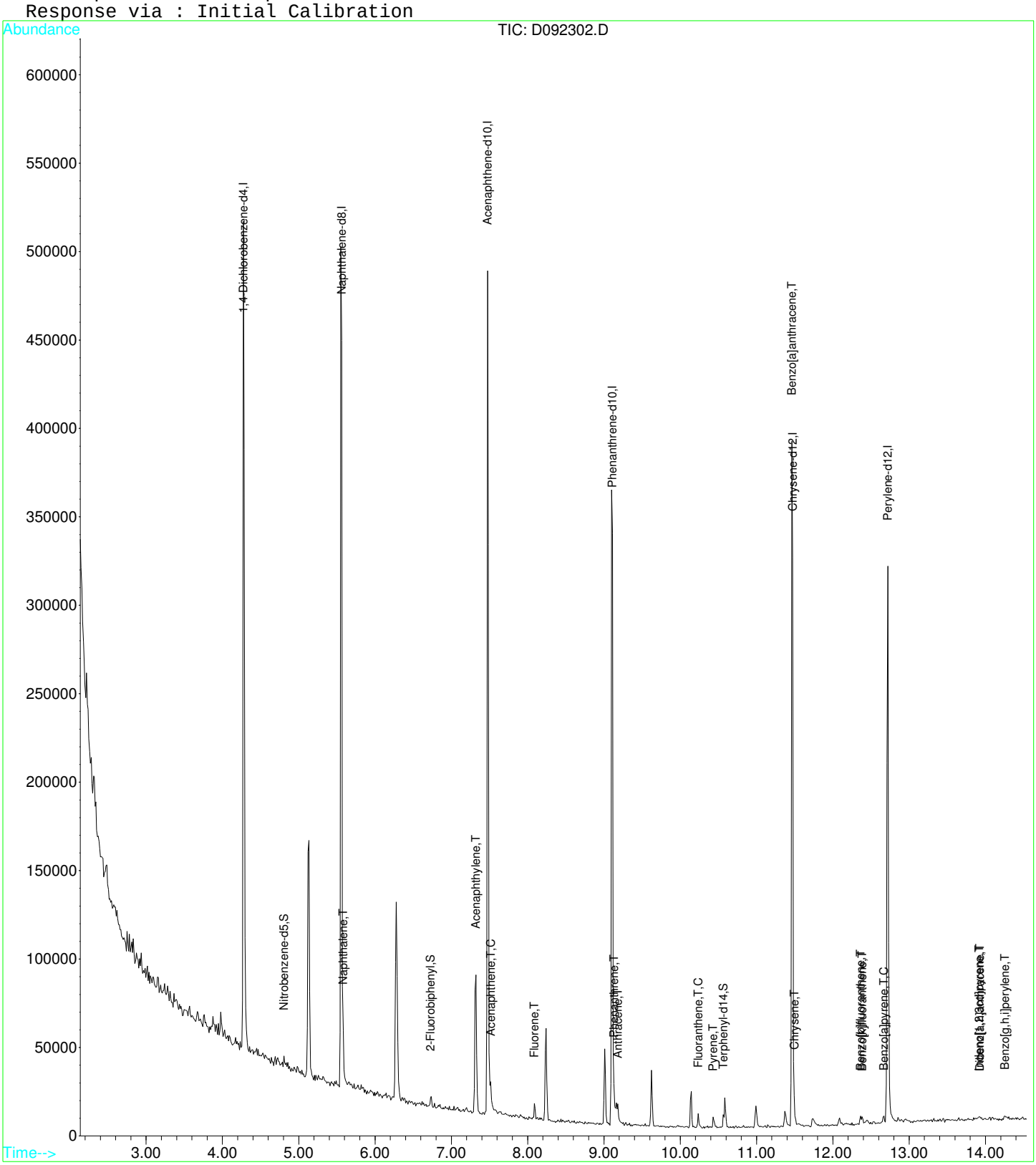
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.27	152	89731	40.00 ug/ml	-0.01
19) Naphthalene-d8	5.56	136	290719	40.00 ug/ml	-0.01
36) Acenaphthene-d10	7.47	164	120366	40.00 ug/ml	-0.01
56) Phenanthrene-d10	9.11	188	162261	40.00 ug/ml	0.00
69) Chrysene-d12	11.47	240	150887	40.00 ug/ml	0.02
78) Perylene-d12	12.72	264	135796	40.00 ug/ml	0.03
System Monitoring Compounds					
4) 2-Fluorophenol	0.00	112	0	0.00 ug/ml	
5) Phenol-d5	0.00	99	0	0.00 ug/ml	
20) Nitrobenzene-d5	4.81	82	2464	0.86 ug/ml	-0.01
40) 2-Fluorobiphenyl	6.73	172	3022	0.77 ug/ml	-0.01
60) 2,4,6-Tribromophenol	0.00	330	0	0.00 ug/ml	
72) Terphenyl-d14	10.56	244	2141	0.61 ug/ml	0.00
Target Compounds					Qvalue
30) Naphthalene	5.58	128	6106	0.92 ug/ml#	98
43) Acenaphthylene	7.32	152	4608	0.85 ug/ml	97
47) Acenaphthene	7.52	153	3142	0.94 ug/ml	93
52) Fluorene	8.09	166	2802	0.85 ug/ml	97
64) Phenanthrene	9.13	178	3799m2	0.88 ug/ml	
65) Anthracene	9.18	178	3900	0.88 ug/ml	98
68) Fluoranthene	10.24	202	3744	0.84 ug/ml#	44
71) Pyrene	10.43	202	3818	0.64 ug/ml#	59
74) Benzo[a]anthracene	11.46	228	3601	0.91 ug/ml	93
76) Chrysene	11.49	228	3823	0.99 ug/ml	96
80) Benzo[b]fluoranthene	12.36	252	2277	0.61 ug/ml#	95
81) Benzo[k]fluoranthene	12.38	252	2575	0.79 ug/ml#	87
82) Benzo[a]pyrene	12.67	252	1826	0.54 ug/ml#	85
83) Indeno[1,2,3cd]pyrene	13.92	276	1477	0.49 ug/ml#	46
84) Dibenz[a,h]anthracene	13.93	278	885	0.49 ug/ml#	54
85) Benzo[g,h,i]perylene	14.25	276	1550	0.59 ug/ml#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092308\D092302.D Vial: 2
Acq On : 23 Sep 2008 4:40 pm Operator: mills
Sample : ,ical,pna ical 1.0ug/ml,1,ab70-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 16:56 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 16:58:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092303.D Vial: 3
Acq On : 23 Sep 2008 5:02 pm Operator: mills
Sample : ,ical,pna ical 5.0ug/ml,1,ab70-05 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 17:20 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 16:58:13 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.28	152	95094	40.00	ug/ml	0.00
19) Naphthalene-d8	5.55	136	294777	40.00	ug/ml	-0.02
36) Acenaphthene-d10	7.48	164	130811	40.00	ug/ml	0.00
56) Phenanthrene-d10	9.10	188	153938	40.00	ug/ml	0.00
69) Chrysene-d12	11.45	240	144329	40.00	ug/ml	0.00
78) Perylene-d12	12.69	264	132859	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0	0.00	ug/ml	
5) Phenol-d5	0.00	99	0	0.00	ug/ml	
20) Nitrobenzene-d5	4.81	82	14207	4.87	ug/ml	0.00
40) 2-Fluorobiphenyl	6.73	172	22803	5.35	ug/ml	0.00
60) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/ml	
72) Terphenyl-d14	10.55	244	16582	5.02	ug/ml	0.00
Target Compounds						Qvalue
30) Naphthalene	5.57	128	41690	6.13	ug/ml#	96
43) Acenaphthylene	7.32	152	34222	5.78	ug/ml	99
47) Acenaphthene	7.52	153	21968	5.95	ug/ml	97
52) Fluorene	8.09	166	19241	5.39	ug/ml	95
64) Phenanthrene	9.12	178	27069	6.55	ug/ml	98
65) Anthracene	9.18	178	28706	6.76	ug/ml	98
68) Fluoranthene	10.23	202	25781	6.03	ug/ml#	59
71) Pyrene	10.43	202	26509	4.75	ug/ml	93
74) Benzo[a]anthracene	11.44	228	18606	4.94	ug/ml	98
76) Chrysene	11.48	228	22080	5.88	ug/ml	97
80) Benzo[b]fluoranthene	12.33	252	18007	5.01	ug/ml#	91
81) Benzo[k]fluoranthene	12.35	252	20526	6.49	ug/ml#	89
82) Benzo[a]pyrene	12.64	252	18480	5.83	ug/ml#	88
83) Indeno[1,2,3cd]pyrene	13.88	276	13568	4.81	ug/ml#	58
84) Dibenz[a,h]anthracene	13.89	278	10751	6.46	ug/ml#	80
85) Benzo[g,h,i]perylene	14.23	276	13036	5.19	ug/ml#	43

(#) = qualifier out of range (m) = manual integration

Quantitation Report

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Data File : C:\HPCHEM\1\DATA\D092308\D092303.D          Vial: 3
Acq On    : 23 Sep 2008   5:02 pm                   Operator: mills
Sample    : ,ical,pna ical 5.0ug/ml,1,ab70-05       Inst    : SVOA 4
Misc      : 8270_w                                  Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 17:20 2008             Quant Results File: SVOA0923.RES

Method       : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Last Update  : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
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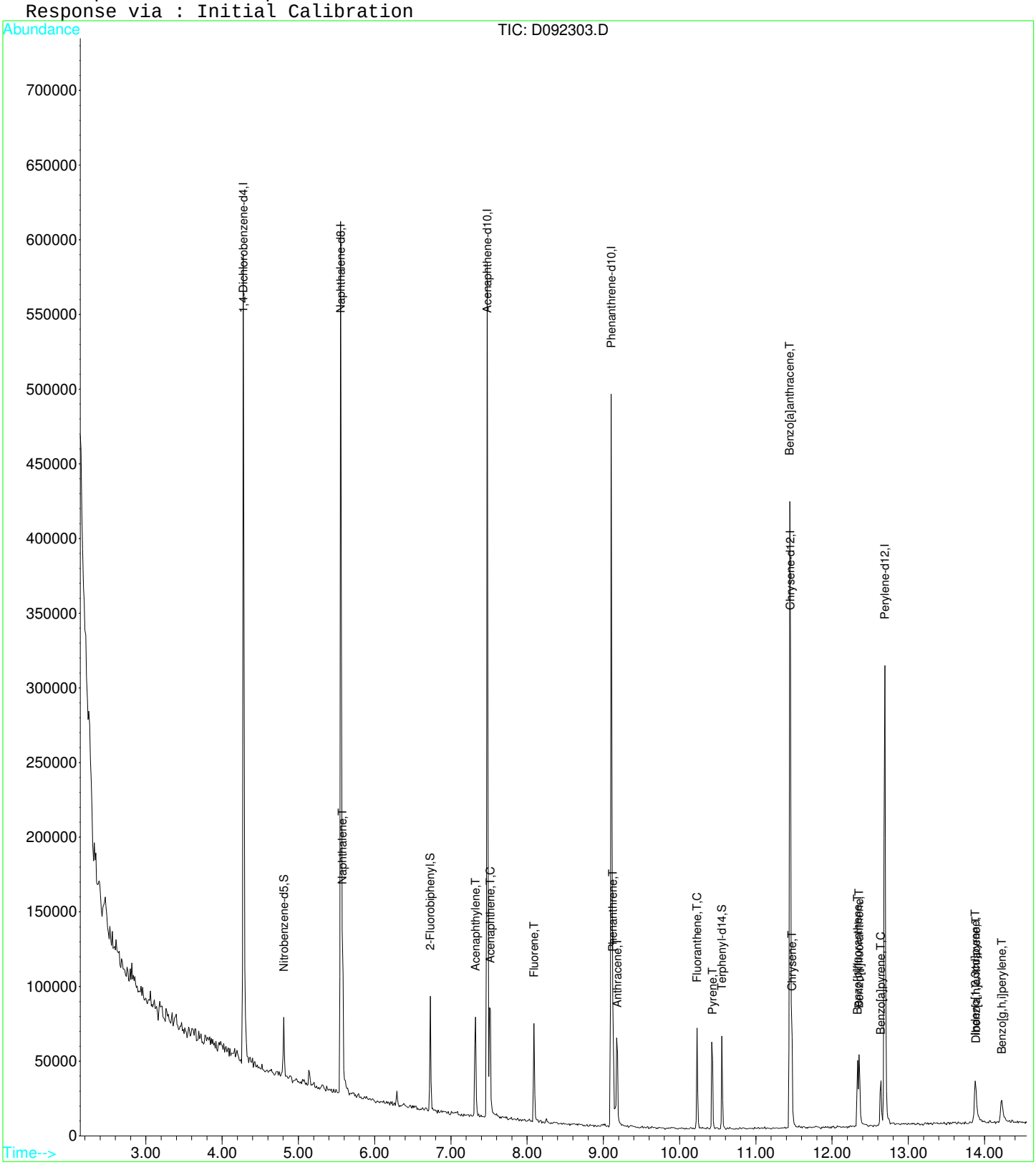


Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092304.D Vial: 4
Acq On : 23 Sep 2008 5:27 pm Operator: mills
Sample : ,ical,svoa ical 10ug/ml,1,ab86-01 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 17:45 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 17:21:05 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.28	152	77896	40.00 ug/ml	0.00
19) Naphthalene-d8	5.56	136	240467	40.00 ug/ml	-0.01
36) Acenaphthene-d10	7.48	164	106125	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.11	188	122819	40.00 ug/ml	0.00
69) Chrysene-d12	11.46	240	105517	40.00 ug/ml	0.00
78) Perylene-d12	12.71	264	107016	40.00 ug/ml	0.02
System Monitoring Compounds					
4) 2-Fluorophenol	3.16	112	22301	10.01 ug/ml	-0.01
5) Phenol-d5	3.89	99	29555	11.79 ug/ml	-0.01
20) Nitrobenzene-d5	4.81	82	28390	11.98 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	37120	10.76 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.36	330	4175	5.52 ug/ml	0.00
72) Terphenyl-d14	10.56	244	25116	10.55 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.37	79	22539	11.94 ug/ml	80
3) n-Nitrosodimethylamine	2.35	74	9249m3	7.35 ug/ml	
6) Phenol	3.91	94	29406	12.73 ug/ml#	71
7) Aniline	3.98	93	33453	13.06 ug/ml	82
8) bis(2-Chloroethyl)ether	4.02	93	24410	13.13 ug/ml	84
9) 2-Chlorophenol	4.09	128	22639	9.36 ug/ml	99
10) 1,3-Dichlorobenzene	4.23	146	28183	10.66 ug/ml	95
11) 1,4-Dichlorobenzene	4.30	146	28981	10.79 ug/ml	100
12) 1,2-Dichlorobenzene	4.45	146	28003	11.12 ug/ml	99
13) Benzyl alcohol	4.40	108	12510	12.57 ug/ml	95
14) 2,2-oxybis(1-chloropropan	4.53	45	42900	12.00 ug/ml	94
15) 2-Methylphenol	4.49	108	20259	14.20 ug/ml	98
16) Hexachloroethane	4.78	117	14569	10.26 ug/ml	96
17) N-Nitrosodi-n-propylamine	4.66	70	19387	15.05 ug/ml	73
18) 3/4-Methylphenol	4.63	108	20289	10.96 ug/ml	93
21) Nitrobenzene	4.83	77	24257	11.05 ug/ml	96
22) Acetophenone	4.66	105	30179	10.88 ug/ml	97
23) Isophorone	5.08	82	46102	14.66 ug/ml	98
24) 2-Nitrophenol	5.15	139	11619	9.96 ug/ml	91
25) 2,4-Dimethylphenol	5.18	107	20951	9.55 ug/ml	93
26) bis(2-Chloroethoxy)methane	5.29	93	25961	12.34 ug/ml	98
27) 2,4-Dichlorophenol	5.40	162	16531	9.50 ug/ml	96
29) 1,2,4-Trichlorobenzene	5.50	180	18763	8.77 ug/ml	99
30) Naphthalene	5.58	128	59029	10.47 ug/ml#	99
31) 2,6-Dichlorophenol	5.64	162	16860	9.80 ug/ml#	63
32) 4-Chloroaniline	5.63	127	19994	10.75 ug/ml	100
33) Hexachlorobutadiene	5.72	225	12017	7.11 ug/ml	99
34) 4-Chloro-3-methylphenol	6.14	107	16091	9.22 ug/ml	93
35) 2-Methylnaphthalene	6.33	142	34537	9.85 ug/ml	97
37) Hexachlorocyclopentadiene	6.51	237	8602	7.67 ug/ml	99
38) 2,4,5-Trichlorophenol	6.67	196	10533	7.90 ug/ml	94
39) 2,4,6-Trichlorophenol	6.63	196	9201	7.08 ug/ml	97
41) 2-Chloronaphthalene	6.87	162	37981	10.26 ug/ml	95
42) 2-Nitroaniline	6.97	65	9257	8.44 ug/ml	74
43) Acenaphthylene	7.32	152	49717	10.29 ug/ml	99
44) Dimethyl phthalate	7.19	163	40328	10.14 ug/ml	99
45) 2,6-Dinitrotoluene	7.25	165	7309	8.14 ug/ml	96
46) 3-Nitroaniline	7.43	138	7640	11.39 ug/ml	95
47) Acenaphthene	7.51	153	33585	11.13 ug/ml	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092304.D Vial: 4
Acq On : 23 Sep 2008 5:27 pm Operator: mills
Sample : ,ical,svoa ical 10ug/ml,1,ab86-01 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 17:45 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 17:21:05 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

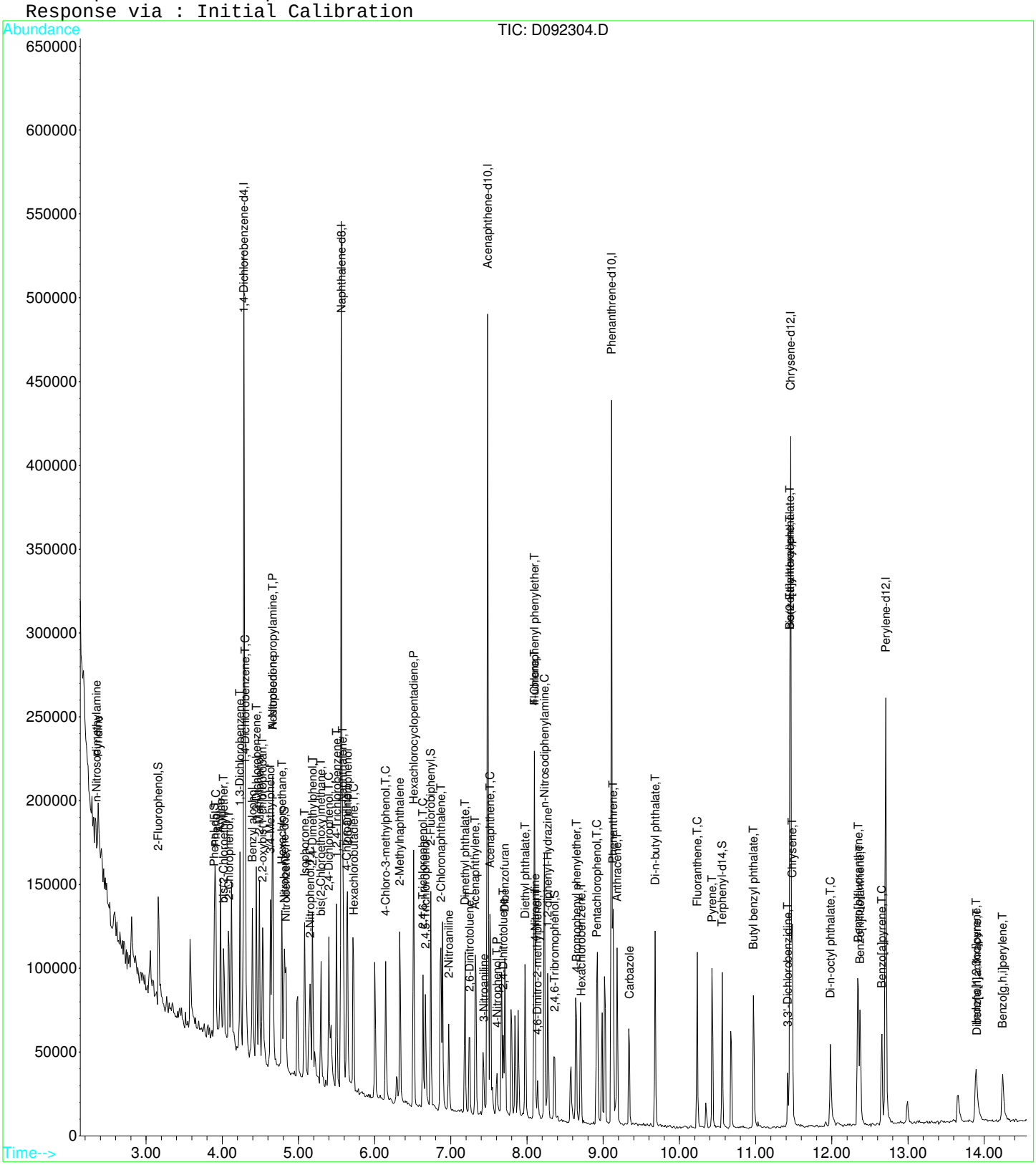
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	Dibenzofuran	7.71	168	39827	9.87	ug/ml	90
50)	4-Nitrophenol	7.61	109	3612	8.71	ug/ml#	74
51)	2,4-Dinitrotoluene	7.69	165	7230	6.83	ug/ml#	89
52)	Fluorene	8.10	166	28749	9.95	ug/ml	95
53)	4-Chlorophenyl phenylether	8.10	204	13779	8.42	ug/ml#	75
54)	Diethyl phthalate	7.97	149	41098	9.36	ug/ml	95
55)	4-Nitroaniline	8.11	138	6705	15.25	ug/ml	93
57)	4,6-Dinitro-2-methylphenol	8.14	198	2124	3.74	ug/ml#	20
58)	n-Nitrosodiphenylamine	8.23	169	42947	12.91	ug/ml	99
59)	1,2-diphenyl-Hydrazine	8.27	77	40082	13.86	ug/ml	89
61)	4-Bromophenyl phenylether	8.65	248	8441	9.39	ug/ml	90
62)	Hexachlorobenzene	8.71	284	9667	7.98	ug/ml	90
63)	Pentachlorophenol	8.91	266	4625	8.34	ug/ml	97
64)	Phenanthrene	9.13	178	39747	11.68	ug/ml	96
65)	Anthracene	9.18	178	40691	11.61	ug/ml	100
66)	Carbazole	9.34	167	27211	12.84	ug/ml#	90
67)	Di-n-butyl phthalate	9.68	149	62295	13.20	ug/ml	99
68)	Fluoranthene	10.23	202	35354	10.28	ug/ml#	66
71)	Pyrene	10.43	202	38760	9.79	ug/ml#	62
73)	Butyl benzyl phthalate	10.97	149	24580	10.56	ug/ml#	78
74)	Benzo[a]anthracene	11.45	228	31284	11.51	ug/ml	99
75)	3,3'-Dichlorobenzidine	11.42	252	7390	7.17	ug/ml#	94
76)	Chrysene	11.48	228	26744	9.70	ug/ml	97
77)	bis(2-Ethylhexyl)phthalate	11.45	149	29130	14.01	ug/ml	97
79)	Di-n-octyl phthalate	11.98	149	41236	8.07	ug/ml	98
80)	Benzo[b]fluoranthene	12.35	252	29567	10.07	ug/ml#	95
81)	Benzo[k]fluoranthene	12.37	252	26415	10.53	ug/ml#	84
82)	Benzo[a]pyrene	12.66	252	26548	10.32	ug/ml#	92
83)	Indeno[1,2,3cd]pyrene	13.89	276	20882	9.40	ug/ml#	71
84)	Dibenz[a,h]anthracene	13.90	278	9384	7.16	ug/ml#	72
85)	Benzo[g,h,i]perylene	14.24	276	19004	9.58	ug/ml#	32

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092308\D092304.D Vial: 4
Acq On : 23 Sep 2008 5:27 pm Operator: mills
Sample : ,ical,svoa ical 10ug/ml,1,ab86-01 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 17:45 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092305.D Vial: 5
Acq On : 23 Sep 2008 5:52 pm Operator: mills
Sample : ,ical,svoa ical 20ug/ml,1,ab86-02 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 18:41 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 17:46:04 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.28	152	79656	40.00 ug/ml	0.00
19) Naphthalene-d8	5.56	136	257895	40.00 ug/ml	-0.01
36) Acenaphthene-d10	7.48	164	112589	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.11	188	136907	40.00 ug/ml	0.00
69) Chrysene-d12	11.46	240	123403	40.00 ug/ml	0.01
78) Perylene-d12	12.71	264	119054	40.00 ug/ml	0.02
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	50732	22.50 ug/ml	0.00
5) Phenol-d5	3.91	99	62552	23.55 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	61369	23.96 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	77836	21.42 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.36	330	10771	14.25 ug/ml	0.00
72) Terphenyl-d14	10.56	244	55548	19.91 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.37	79	44720	22.05 ug/ml	73
3) n-Nitrosodimethylamine	2.34	74	21813	17.85 ug/ml#	32
6) Phenol	3.92	94	62758	25.25 ug/ml#	72
7) Aniline	3.98	93	69070	24.70 ug/ml	81
8) bis(2-Chloroethyl)ether	4.02	93	50020	24.75 ug/ml	89
9) 2-Chlorophenol	4.09	128	49157	20.05 ug/ml	97
10) 1,3-Dichlorobenzene	4.23	146	58749	21.60 ug/ml	95
11) 1,4-Dichlorobenzene	4.30	146	61189	22.12 ug/ml	98
12) 1,2-Dichlorobenzene	4.45	146	58110	22.14 ug/ml	100
13) Benzyl alcohol	4.40	108	28359	28.06 ug/ml	95
14) 2,2-oxybis(1-chloropropan	4.53	45	94990	25.99 ug/ml	97
15) 2-Methylphenol	4.49	108	42748	28.81 ug/ml	95
16) Hexachloroethane	4.78	117	29152	20.18 ug/ml	99
17) N-Nitrosodi-n-propylamine	4.66	70	39599	29.63 ug/ml	74
18) 3/4-Methylphenol	4.63	108	43655	22.67 ug/ml	91
21) Nitrobenzene	4.84	77	54110	22.60 ug/ml	96
22) Acetophenone	4.66	105	65341	21.90 ug/ml	95
23) Isophorone	5.08	82	101886	29.04 ug/ml	99
24) 2-Nitrophenol	5.16	139	26733	21.20 ug/ml	85
25) 2,4-Dimethylphenol	5.18	107	45897	19.80 ug/ml	95
26) bis(2-Chloroethoxy)methane	5.30	93	56051	23.53 ug/ml	97
27) 2,4-Dichlorophenol	5.40	162	36381	19.67 ug/ml	98
29) 1,2,4-Trichlorobenzene	5.50	180	40841	18.53 ug/ml	95
30) Naphthalene	5.58	128	119475	19.60 ug/ml#	99
31) 2,6-Dichlorophenol	5.64	162	35601	19.40 ug/ml#	65
32) 4-Chloroaniline	5.63	127	45169	22.43 ug/ml	98
33) Hexachlorobutadiene	5.73	225	25164	15.16 ug/ml	95
34) 4-Chloro-3-methylphenol	6.14	107	36327	19.73 ug/ml	86
35) 2-Methylnaphthalene	6.33	142	74983	19.95 ug/ml	99
37) Hexachlorocyclopentadiene	6.51	237	19347	17.05 ug/ml	96
38) 2,4,5-Trichlorophenol	6.67	196	23390	17.41 ug/ml	98
39) 2,4,6-Trichlorophenol	6.64	196	21161	16.15 ug/ml	94
41) 2-Chloronaphthalene	6.87	162	78625	20.18 ug/ml	96
42) 2-Nitroaniline	6.97	65	23590	20.74 ug/ml#	71
43) Acenaphthylene	7.33	152	107181	20.82 ug/ml	99
44) Dimethyl phthalate	7.19	163	88759	21.14 ug/ml	98
45) 2,6-Dinitrotoluene	7.25	165	17912	19.38 ug/ml	93
46) 3-Nitroaniline	7.43	138	18276	24.41 ug/ml	100
47) Acenaphthene	7.53	153	65913	20.25 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092305.D Vial: 5
Acq On : 23 Sep 2008 5:52 pm Operator: mills
Sample : ,ical,svoa ical 20ug/ml,1,ab86-02 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 18:41 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 17:46:04 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

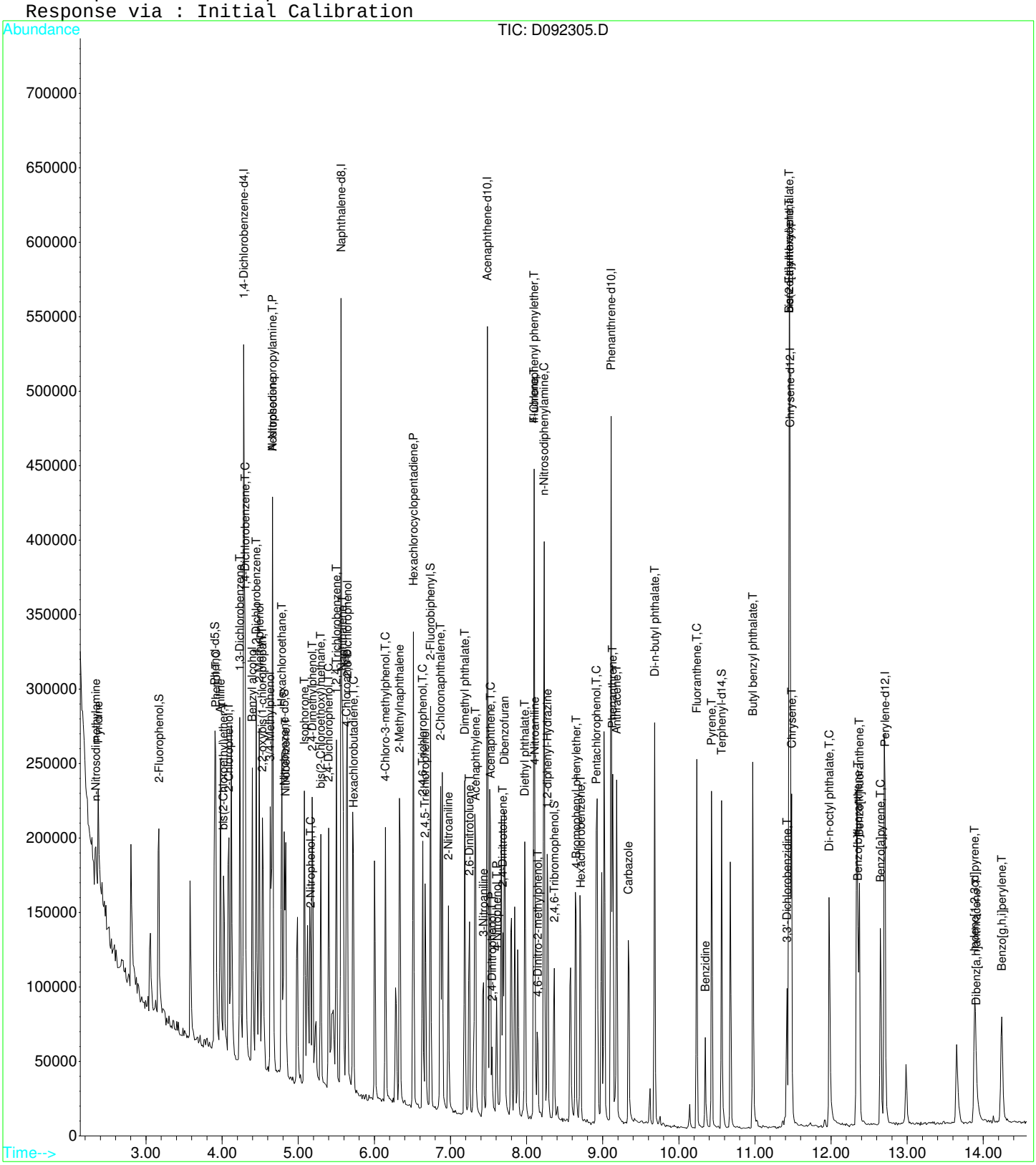
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48)	2,4-Dinitrophenol	7.55	184	4234	10.22 ug/ml#	75
49)	Dibenzofuran	7.71	168	87619	20.55 ug/ml	86
50)	4-Nitrophenol	7.61	109	10069	23.53 ug/ml#	82
51)	2,4-Dinitrotoluene	7.69	165	21102	19.98 ug/ml#	88
52)	Fluorene	8.10	166	64057	21.06 ug/ml	98
53)	4-Chlorophenyl phenylether	8.10	204	28757	17.52 ug/ml#	74
54)	Diethyl phthalate	7.98	149	91186	19.94 ug/ml	95
55)	4-Nitroaniline	8.11	138	16433	32.25 ug/ml	82
57)	4,6-Dinitro-2-methylphenol	8.15	198	7627	13.17 ug/ml	92
58)	n-Nitrosodiphenylamine	8.23	169	88121	22.84 ug/ml	100
59)	1,2-diphenyl-Hydrazine	8.27	77	90273	26.06 ug/ml#	89
61)	4-Bromophenyl phenylether	8.65	248	18721	19.28 ug/ml	94
62)	Hexachlorobenzene	8.71	284	21958	17.31 ug/ml	91
63)	Pentachlorophenol	8.92	266	11998	20.07 ug/ml	98
64)	Phenanthrene	9.13	178	84538	21.81 ug/ml	98
65)	Anthracene	9.18	178	87571	21.97 ug/ml	99
66)	Carbazole	9.34	167	57403	22.46 ug/ml	98
67)	Di-n-butyl phthalate	9.68	149	144498	27.32 ug/ml	99
68)	Fluoranthene	10.24	202	77810	20.41 ug/ml#	60
70)	Benzidine	10.35	184	19809	21.90 ug/ml#	90
71)	Pyrene	10.43	202	80705	17.82 ug/ml#	64
73)	Butyl benzyl phthalate	10.97	149	62651	22.71 ug/ml#	89
74)	Benzo[a]anthracene	11.45	228	65217	20.25 ug/ml	99
75)	3,3'-Dichlorobenzidine	11.42	252	19845	16.59 ug/ml#	94
76)	Chrysene	11.48	228	64597	19.92 ug/ml	99
77)	bis(2-Ethylhexyl)phthalate	11.45	149	74117	30.96 ug/ml	95
79)	Di-n-octyl phthalate	11.97	149	115865	21.16 ug/ml	97
80)	Benzo[b]fluoranthene	12.35	252	77787	24.10 ug/ml	96
81)	Benzo[k]fluoranthene	12.37	252	49957	17.95 ug/ml#	91
82)	Benzo[a]pyrene	12.65	252	60690	21.36 ug/ml#	88
83)	Indeno[1,2,3cd]pyrene	13.89	276	52860	22.17 ug/ml#	79
84)	Dibenz[a,h]anthracene	13.91	278	23575	17.01 ug/ml#	85
85)	Benzo[g,h,i]perylene	14.24	276	47931	22.43 ug/ml#	51

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092308\D092305.D Vial: 5
Acq On : 23 Sep 2008 5:52 pm Operator: mills
Sample : ,ical,svoa ical 20ug/ml,1,ab86-02 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 18:41 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092306.D Vial: 6
Acq On : 23 Sep 2008 6:17 pm Operator: mills
Sample : ,ical,svoa ical 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 18:42 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 18:42:25 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	86984	40.00 ug/ml	0.00
19) Naphthalene-d8	5.56	136	278112	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	124478	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.11	188	145119	40.00 ug/ml	0.00
69) Chrysene-d12	11.45	240	123429	40.00 ug/ml	0.00
78) Perylene-d12	12.69	264	129011	40.00 ug/ml	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	131663	52.07 ug/ml	0.00
5) Phenol-d5	3.91	99	167285	55.14 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	164518	58.55 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	195640	48.62 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	30576	41.73 ug/ml	0.00
72) Terphenyl-d14	10.56	244	145756	52.76 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.36	79	149904	64.98 ug/ml	97
3) n-Nitrosodimethylamine	2.33	74	83504	64.51 ug/ml	98
6) Phenol	3.92	94	168756	57.91 ug/ml	96
7) Aniline	3.98	93	185183	56.69 ug/ml	97
8) bis(2-Chloroethyl)ether	4.02	93	132088	56.12 ug/ml	98
9) 2-Chlorophenol	4.09	128	130155	48.56 ug/ml	98
10) 1,3-Dichlorobenzene	4.23	146	147346	48.84 ug/ml	98
11) 1,4-Dichlorobenzene	4.31	146	155332	49.99 ug/ml	99
12) 1,2-Dichlorobenzene	4.45	146	145322	49.35 ug/ml	95
13) Benzyl alcohol	4.40	108	76041	67.93 ug/ml	98
14) 2,2-oxybis(1-chloropropan	4.53	45	248527	60.93 ug/ml	99
15) 2-Methylphenol	4.49	108	112551	67.65 ug/ml	98
16) Hexachloroethane	4.79	117	75626	48.05 ug/ml	99
17) N-Nitrosodi-n-propylamine	4.66	70	98982	66.30 ug/ml	95
18) 3/4-Methylphenol	4.64	108	111183	51.11 ug/ml	92
21) Nitrobenzene	4.84	77	139524	52.23 ug/ml	99
22) Acetophenone	4.66	105	158335	48.24 ug/ml	98
23) Isophorone	5.08	82	268762	67.06 ug/ml	97
24) 2-Nitrophenol	5.17	139	71333	51.00 ug/ml	96
25) 2,4-Dimethylphenol	5.19	107	122344	49.02 ug/ml	97
26) bis(2-Chloroethoxy)methane	5.30	93	146396	54.16 ug/ml	97
27) 2,4-Dichlorophenol	5.40	162	98295	48.99 ug/ml	97
28) Benzoic acid	5.27	122	49826	66.68 ug/ml	91
29) 1,2,4-Trichlorobenzene	5.50	180	103330	44.42 ug/ml	97
30) Naphthalene	5.58	128	312215	47.36 ug/ml	99
31) 2,6-Dichlorophenol	5.65	162	96883	49.03 ug/ml	94
32) 4-Chloroaniline	5.64	127	125268	57.46 ug/ml	100
33) Hexachlorobutadiene	5.72	225	63572	38.35 ug/ml	94
34) 4-Chloro-3-methylphenol	6.15	107	101870	51.49 ug/ml	98
35) 2-Methylnaphthalene	6.33	142	184138	45.63 ug/ml	100
37) Hexachlorocyclopentadiene	6.51	237	50521	42.32 ug/ml	97
38) 2,4,5-Trichlorophenol	6.68	196	63531	44.25 ug/ml	100
39) 2,4,6-Trichlorophenol	6.64	196	60263	44.03 ug/ml	97
41) 2-Chloronaphthalene	6.87	162	202515	46.89 ug/ml	98
42) 2-Nitroaniline	6.98	65	69424	54.41 ug/ml	98
43) Acenaphthylene	7.33	152	287212	50.24 ug/ml	98
44) Dimethyl phthalate	7.19	163	234995	50.45 ug/ml	100
45) 2,6-Dinitrotoluene	7.25	165	50534	49.95 ug/ml	92
46) 3-Nitroaniline	7.44	138	54273	61.29 ug/ml	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092306.D Vial: 6
Acq On : 23 Sep 2008 6:17 pm Operator: mills
Sample : ,ical,svoa ical 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 18:42 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 18:42:25 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

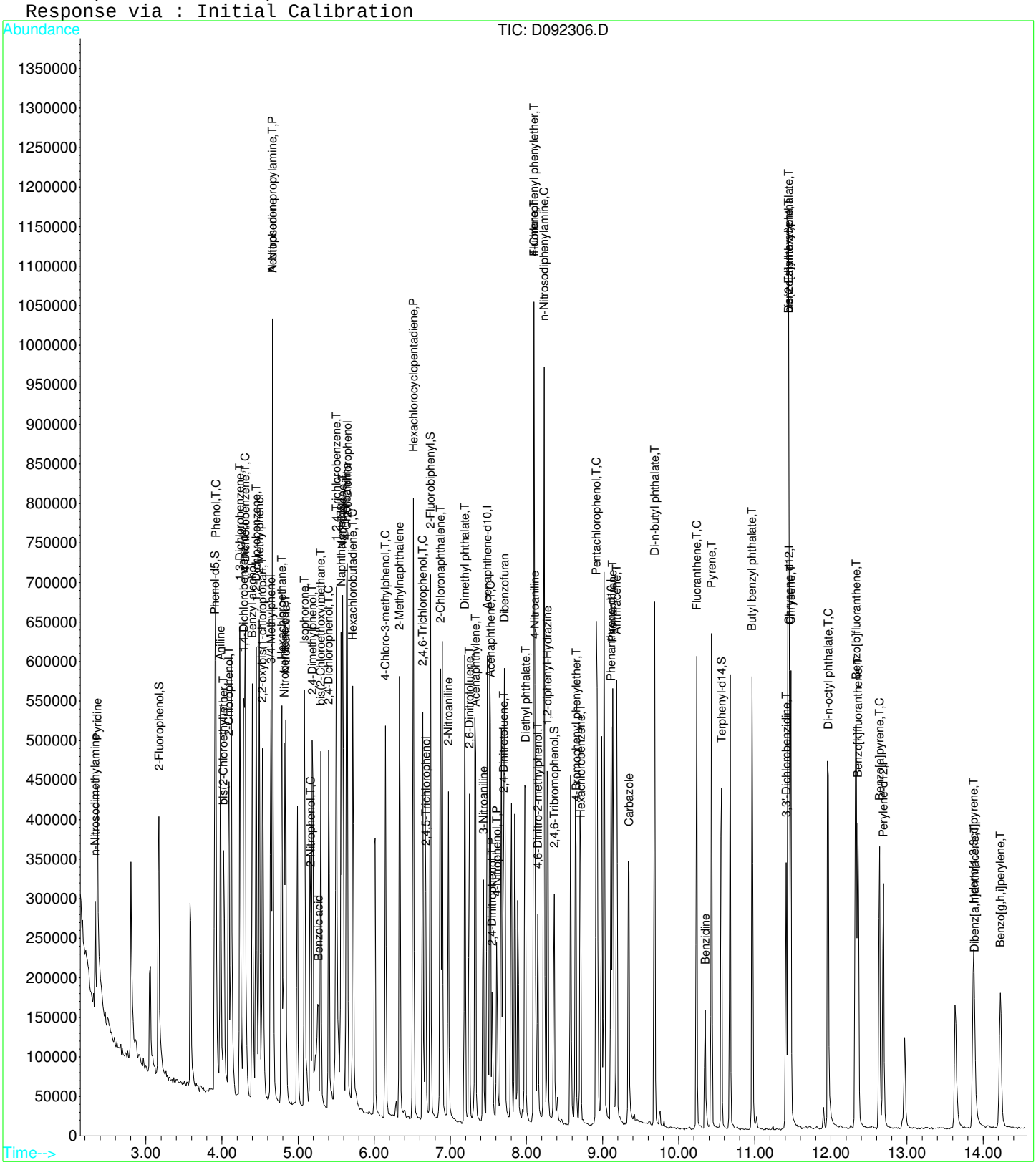
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47)	Acenaphthene	7.53	153	177388	49.08 ug/ml	99
48)	2,4-Dinitrophenol	7.55	184	20877	49.55 ug/ml	94
49)	Dibenzofuran	7.71	168	229462	48.70 ug/ml	99
50)	4-Nitrophenol	7.61	109	31517	65.85 ug/ml	87
51)	2,4-Dinitrotoluene	7.70	165	66669	57.89 ug/ml	74
52)	Fluorene	8.10	166	156953	46.95 ug/ml	99
53)	4-Chlorophenyl phenylether	8.10	204	70131	40.94 ug/ml	94
54)	Diethyl phthalate	7.99	149	242408	48.52 ug/ml	98
55)	4-Nitroaniline	8.11	138	50364	80.81 ug/ml	89
57)	4,6-Dinitro-2-methylphenol	8.15	198	29553	51.64 ug/ml#	83
58)	n-Nitrosodiphenylamine	8.23	169	230925	54.52 ug/ml	99
59)	1,2-diphenyl-Hydrazine	8.27	77	240866	60.87 ug/ml	99
61)	4-Bromophenyl phenylether	8.65	248	50455	49.87 ug/ml	95
62)	Hexachlorobenzene	8.71	284	57152	44.85 ug/ml	98
63)	Pentachlorophenol	8.92	266	34900	55.26 ug/ml	97
64)	Phenanthrene	9.13	178	211773	50.77 ug/ml	98
65)	Anthracene	9.18	178	230364	53.49 ug/ml	99
66)	Carbazole	9.35	167	166483	57.77 ug/ml#	92
67)	Di-n-butyl phthalate	9.68	149	385927	66.50 ug/ml	99
68)	Fluoranthene	10.24	202	199913	49.46 ug/ml	93
70)	Benzidine	10.35	184	59752	62.25 ug/ml	97
71)	Pyrene	10.43	202	204641	46.66 ug/ml	92
73)	Butyl benzyl phthalate	10.96	149	164566	57.73 ug/ml	88
74)	Benzo[a]anthracene	11.44	228	161956	50.36 ug/ml	98
75)	3,3'-Dichlorobenzidine	11.41	252	69383	59.89 ug/ml	98
76)	Chrysene	11.47	228	160727	49.09 ug/ml	99
77)	bis(2-Ethylhexyl)phthalate	11.44	149	204292	83.65 ug/ml	95
79)	Di-n-octyl phthalate	11.97	149	368331	61.21 ug/ml	97
80)	Benzo[b]fluoranthene	12.33	252	170781	49.09 ug/ml	96
81)	Benzo[k]fluoranthene	12.35	252	156184	51.74 ug/ml	94
82)	Benzo[a]pyrene	12.64	252	160291	52.08 ug/ml	94
83)	Indeno[1,2,3cd]pyrene	13.88	276	132142	51.21 ug/ml	95
84)	Dibenz[a,h]anthracene	13.89	278	59456	40.94 ug/ml	97
85)	Benzo[g,h,i]perylene	14.23	276	115236	49.64 ug/ml	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092308\D092306.D Vial: 6
Acq On : 23 Sep 2008 6:17 pm Operator: mills
Sample : ,ical,svoa ical 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 18:42 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092307.D Vial: 7
Acq On : 23 Sep 2008 6:42 pm Operator: mills
Sample : ,ical,svoa ical 80ug/ml,1,ab86-04 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:00 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 18:43:28 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	85396	40.00 ug/ml	0.00
19) Naphthalene-d8	5.56	136	277316	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	134540	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.11	188	159271	40.00 ug/ml	0.00
69) Chrysene-d12	11.46	240	131538	40.00 ug/ml	0.01
78) Perylene-d12	12.70	264	140493	40.00 ug/ml	0.01
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	220485	87.50 ug/ml	0.00
5) Phenol-d5	3.91	99	255134	82.47 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	272307	93.93 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	321701	74.11 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	53103	71.04 ug/ml	0.00
72) Terphenyl-d14	10.56	244	243498	83.83 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.36	79	213506	87.93 ug/ml	99
3) n-Nitrosodimethylamine	2.33	74	132028	99.56 ug/ml	98
6) Phenol	3.92	94	247520	82.17 ug/ml	91
7) Aniline	3.98	93	290323	86.70 ug/ml	98
8) bis(2-Chloroethyl)ether	4.03	93	209799	86.00 ug/ml	90
9) 2-Chlorophenol	4.09	128	207123	79.20 ug/ml	95
10) 1,3-Dichlorobenzene	4.24	146	231171	77.68 ug/ml	98
11) 1,4-Dichlorobenzene	4.31	146	239103	77.79 ug/ml	97
12) 1,2-Dichlorobenzene	4.45	146	230166	79.08 ug/ml	98
13) Benzyl alcohol	4.40	108	123723	110.95 ug/ml	95
14) 2,2-oxybis(1-chloropropan	4.53	45	386162	95.99 ug/ml	98
15) 2-Methylphenol	4.49	108	185285	112.00 ug/ml	96
16) Hexachloroethane	4.79	117	117620	76.31 ug/ml	99
17) N-Nitrosodi-n-propylamine	4.67	70	159506	109.03 ug/ml	92
18) 3/4-Methylphenol	4.64	108	182232	83.82 ug/ml	100
21) Nitrobenzene	4.84	77	216348	79.03 ug/ml	96
22) Acetophenone	4.66	105	253909	77.11 ug/ml	97
23) Isophorone	5.09	82	403010	96.04 ug/ml	95
24) 2-Nitrophenol	5.17	139	120305	85.46 ug/ml	93
25) 2,4-Dimethylphenol	5.20	107	204240	82.29 ug/ml	97
26) bis(2-Chloroethoxy)methane	5.30	93	233732	83.37 ug/ml	98
27) 2,4-Dichlorophenol	5.41	162	164873	82.46 ug/ml	95
28) Benzoic acid	5.29	122	94318	126.20 ug/ml	95
29) 1,2,4-Trichlorobenzene	5.50	180	159538	70.35 ug/ml	99
30) Naphthalene	5.60	128	487983	74.09 ug/ml	99
31) 2,6-Dichlorophenol	5.65	162	150762	76.57 ug/ml	79
32) 4-Chloroaniline	5.64	127	197085	90.78 ug/ml	97
33) Hexachlorobutadiene	5.73	225	103546	66.97 ug/ml	96
34) 4-Chloro-3-methylphenol	6.16	107	167544	84.53 ug/ml	85
35) 2-Methylnaphthalene	6.34	142	305093	76.67 ug/ml	98
37) Hexachlorocyclopentadiene	6.52	237	71868	58.30 ug/ml	99
38) 2,4,5-Trichlorophenol	6.68	196	108284	72.57 ug/ml	99
39) 2,4,6-Trichlorophenol	6.64	196	96729	68.45 ug/ml	99
41) 2-Chloronaphthalene	6.87	162	326117	71.97 ug/ml	98
42) 2-Nitroaniline	6.98	65	118398	85.11 ug/ml	90
43) Acenaphthylene	7.33	152	481205	77.50 ug/ml	99
44) Dimethyl phthalate	7.19	163	390773	77.10 ug/ml	100
45) 2,6-Dinitrotoluene	7.25	165	88909	82.32 ug/ml	90
46) 3-Nitroaniline	7.44	138	92839	92.39 ug/ml	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092307.D Vial: 7
Acq On : 23 Sep 2008 6:42 pm Operator: mills
Sample : ,ical,svoa ical 80ug/ml,1,ab86-04 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:00 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 18:43:28 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

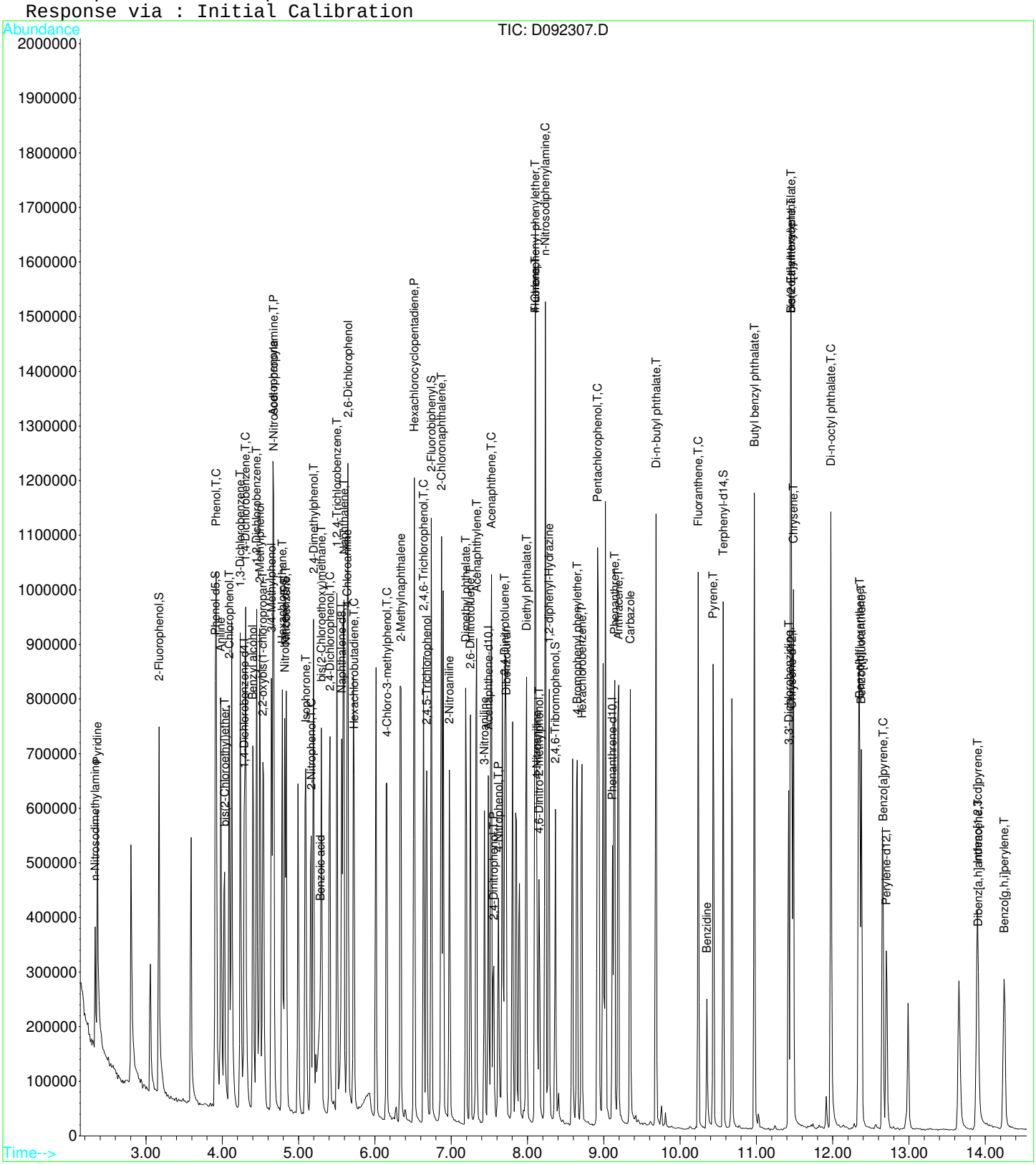
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Acenaphthene	7.53	153	281467	71.31	ug/ml	100
48)	2,4-Dinitrophenol	7.56	184	47733	114.23	ug/ml	84
49)	Dibenzofuran	7.72	168	360489	70.74	ug/ml	94
50)	4-Nitrophenol	7.62	109	59375	115.62	ug/ml	94
51)	2,4-Dinitrotoluene	7.70	165	111777	88.22	ug/ml	79
52)	Fluorene	8.10	166	253717	70.73	ug/ml	98
53)	4-Chlorophenyl phenylether	8.10	204	115353	64.93	ug/ml	98
54)	Diethyl phthalate	7.99	149	396666	74.13	ug/ml	99
55)	4-Nitroaniline	8.12	138	88377	119.61	ug/ml	99
57)	4,6-Dinitro-2-methylphenol	8.15	198	59489	99.72	ug/ml	81
58)	n-Nitrosodiphenylamine	8.23	169	380251	78.79	ug/ml	100
59)	1,2-diphenyl-Hydrazine	8.28	77	408424	88.13	ug/ml#	89
61)	4-Bromophenyl phenylether	8.65	248	83681	75.34	ug/ml	96
62)	Hexachlorobenzene	8.71	284	96504	71.20	ug/ml	94
63)	Pentachlorophenol	8.92	266	62474	89.16	ug/ml	99
64)	Phenanthrene	9.14	178	360807	78.08	ug/ml	99
65)	Anthracene	9.19	178	389539	81.14	ug/ml	99
66)	Carbazole	9.35	167	312894	95.37	ug/ml	98
67)	Di-n-butyl phthalate	9.69	149	646252	98.26	ug/ml	99
68)	Fluoranthene	10.24	202	328197	74.14	ug/ml	88
70)	Benzidine	10.35	184	85887	81.64	ug/ml	96
71)	Pyrene	10.43	202	345184	76.00	ug/ml	87
73)	Butyl benzyl phthalate	10.97	149	290104	92.29	ug/ml	88
74)	Benzo[a]anthracene	11.45	228	262881	76.61	ug/ml	99
75)	3,3'-Dichlorobenzidine	11.42	252	125772	100.39	ug/ml	99
76)	Chrysene	11.49	228	269651	77.49	ug/ml	99
77)	bis(2-Ethylhexyl)phthalate	11.45	149	342458	125.97	ug/ml	98
79)	Di-n-octyl phthalate	11.98	149	656411	97.13	ug/ml	100
80)	Benzo[b]fluoranthene	12.35	252	297624	78.77	ug/ml	97
81)	Benzo[k]fluoranthene	12.37	252	246736m2	74.91	ug/ml	
82)	Benzo[a]pyrene	12.66	252	267589	79.91	ug/ml	98
83)	Indeno[1,2,3cd]pyrene	13.90	276	216532	77.51	ug/ml	96
84)	Dibenz[a,h]anthracene	13.91	278	98913	65.19	ug/ml	99
85)	Benzo[g,h,i]perylene	14.25	276	184922	73.65	ug/ml	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092308\D092307.D Vial: 7
Acq On : 23 Sep 2008 6:42 pm Operator: mills
Sample : ,ical,svoa ical 80ug/ml,1,ab86-04 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:00 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092308.D Vial: 8
Acq On : 23 Sep 2008 7:07 pm Operator: mills
Sample : ,ical,svoa ical 100ug/ml,1,ab86-05 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:23 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 19:06:48 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	80426	40.00 ug/ml	0.00
19) Naphthalene-d8	5.57	136	261624	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	116950	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.11	188	138127	40.00 ug/ml	0.00
69) Chrysene-d12	11.46	240	117195	40.00 ug/ml	0.00
78) Perylene-d12	12.69	264	121973	40.00 ug/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	254690	102.97 ug/ml	0.00
5) Phenol-d5	3.91	99	302237	98.24 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	317665	110.51 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	355691	95.62 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	59628	109.88 ug/ml	0.00
72) Terphenyl-d14	10.57	244	260355	102.35 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.36	79	252526	102.34 ug/ml	96
3) n-Nitrosodimethylamine	2.33	74	165080	128.10 ug/ml	94
6) Phenol	3.92	94	293854	96.04 ug/ml	92
7) Aniline	3.98	93	338539	98.25 ug/ml	100
8) bis(2-Chloroethyl)ether	4.03	93	235540	94.61 ug/ml	89
9) 2-Chlorophenol	4.09	128	239560	99.15 ug/ml	99
10) 1,3-Dichlorobenzene	4.24	146	270652	95.62 ug/ml	98
11) 1,4-Dichlorobenzene	4.31	146	276659	94.03 ug/ml	99
12) 1,2-Dichlorobenzene	4.45	146	260252	92.77 ug/ml	99
13) Benzyl alcohol	4.41	108	145889	104.47 ug/ml	92
14) 2,2-oxybis(1-chloropropan	4.53	45	446805	97.31 ug/ml	98
15) 2-Methylphenol	4.49	108	211170	99.23 ug/ml	100
16) Hexachloroethane	4.79	117	137562	95.54 ug/ml	99
17) N-Nitrosodi-n-propylamine	4.68	70	178948	92.85 ug/ml	96
18) 3/4-Methylphenol	4.64	108	209360	98.52 ug/ml	98
21) Nitrobenzene	4.84	77	262133	99.29 ug/ml	97
22) Acetophenone	4.67	105	286473	91.15 ug/ml	94
23) Isophorone	5.09	82	476986	95.43 ug/ml	96
24) 2-Nitrophenol	5.17	139	139239	103.51 ug/ml	94
25) 2,4-Dimethylphenol	5.20	107	229437	98.49 ug/ml	96
26) bis(2-Chloroethoxy)methane	5.30	93	266234	95.27 ug/ml	99
27) 2,4-Dichlorophenol	5.41	162	192231	103.38 ug/ml	94
28) Benzoic acid	5.29	122	117405	139.81 ug/ml	92
29) 1,2,4-Trichlorobenzene	5.50	180	188204	94.83 ug/ml	99
30) Naphthalene	5.59	128	557379	90.37 ug/ml	100
31) 2,6-Dichlorophenol	5.65	162	176064	97.26 ug/ml	82
32) 4-Chloroaniline	5.64	127	233557	102.13 ug/ml	96
33) Hexachlorobutadiene	5.72	225	114969	91.96 ug/ml	98
34) 4-Chloro-3-methylphenol	6.16	107	195038	104.22 ug/ml	86
35) 2-Methylnaphthalene	6.33	142	351500	96.15 ug/ml	100
37) Hexachlorocyclopentadiene	6.52	237	83721	90.93 ug/ml	100
38) 2,4,5-Trichlorophenol	6.68	196	120475	101.54 ug/ml	98
39) 2,4,6-Trichlorophenol	6.64	196	111171	103.50 ug/ml	97
41) 2-Chloronaphthalene	6.87	162	373317	95.61 ug/ml	97
42) 2-Nitroaniline	6.98	65	141385	116.94 ug/ml	87
43) Acenaphthylene	7.33	152	523376	97.32 ug/ml	100
44) Dimethyl phthalate	7.19	163	431210	97.36 ug/ml	98
45) 2,6-Dinitrotoluene	7.25	165	102084	111.83 ug/ml	91
46) 3-Nitroaniline	7.44	138	113826	119.20 ug/ml	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092308.D Vial: 8
Acq On : 23 Sep 2008 7:07 pm Operator: mills
Sample : ,ical,svoa ical 100ug/ml,1,ab86-05 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:23 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 19:06:48 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

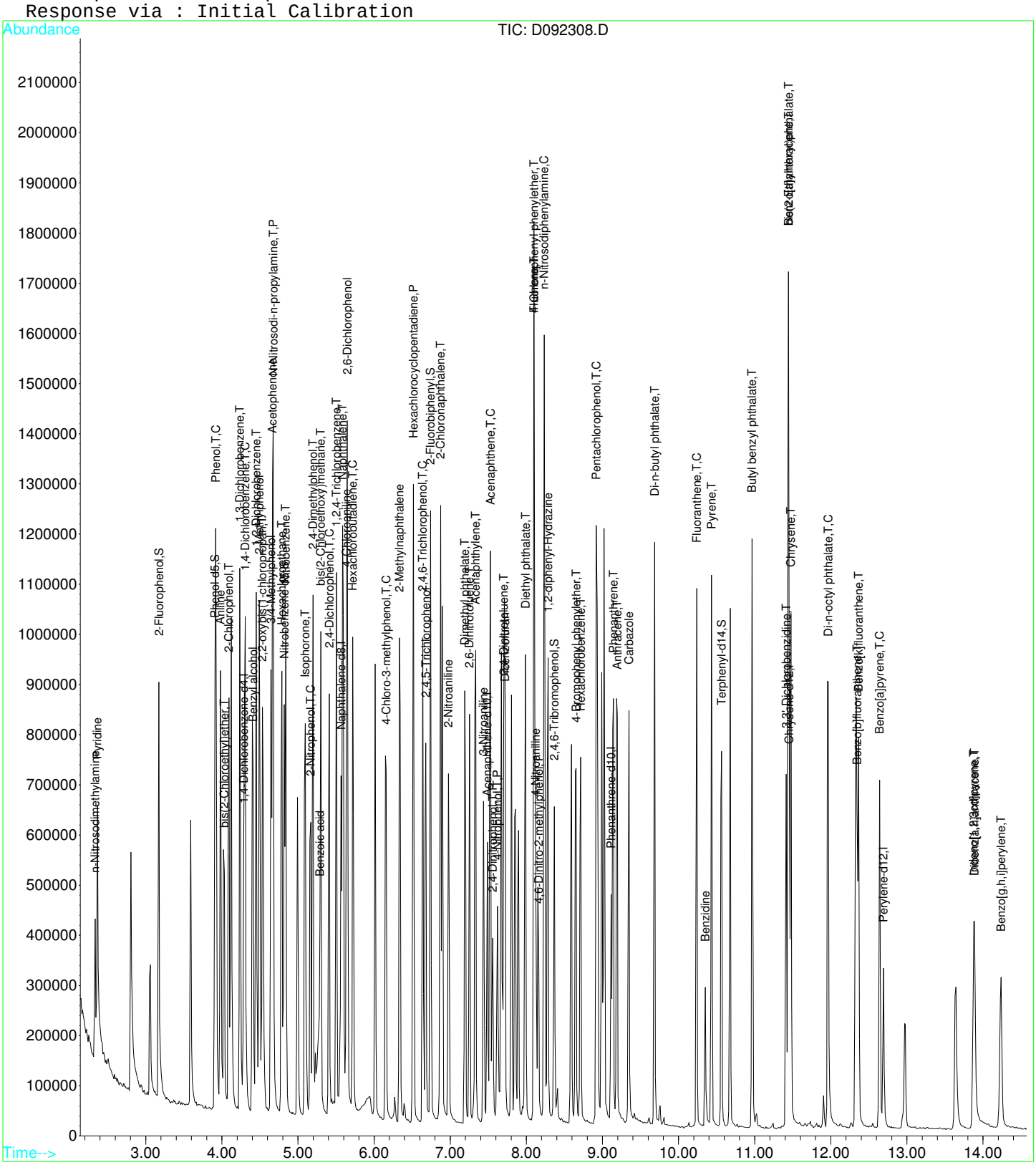
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Acenaphthene	7.53	153	315988	92.50	ug/ml	99
48)	2,4-Dinitrophenol	7.56	184	54573	144.78	ug/ml	91
49)	Dibenzofuran	7.72	168	417537	97.28	ug/ml	92
50)	4-Nitrophenol	7.62	109	66145	122.58	ug/ml	94
51)	2,4-Dinitrotoluene	7.70	165	125757	115.37	ug/ml#	75
52)	Fluorene	8.10	166	278173	90.89	ug/ml	98
53)	4-Chlorophenyl phenylether	8.10	204	127117	91.07	ug/ml	95
54)	Diethyl phthalate	7.99	149	449247	99.12	ug/ml	99
55)	4-Nitroaniline	8.12	138	98793	112.94	ug/ml	99
57)	4,6-Dinitro-2-methylphenol	8.16	198	67057	126.35	ug/ml	80
58)	n-Nitrosodiphenylamine	8.23	169	425088	95.56	ug/ml	100
59)	1,2-diphenyl-Hydrazine	8.29	77	457409	101.23	ug/ml#	89
61)	4-Bromophenyl phenylether	8.65	248	93835	99.79	ug/ml	95
62)	Hexachlorobenzene	8.71	284	104516	96.57	ug/ml	94
63)	Pentachlorophenol	8.92	266	70446	114.22	ug/ml	98
64)	Phenanthrene	9.14	178	386863	93.71	ug/ml	99
65)	Anthracene	9.20	178	409030	94.13	ug/ml	99
66)	Carbazole	9.35	167	325420	103.99	ug/ml	98
67)	Di-n-butyl phthalate	9.69	149	691251	96.52	ug/ml	99
68)	Fluoranthene	10.24	202	364011	94.64	ug/ml	98
70)	Benzidine	10.35	184	102262	109.93	ug/ml	97
71)	Pyrene	10.43	202	359986	93.35	ug/ml	97
73)	Butyl benzyl phthalate	10.96	149	321127	106.50	ug/ml	95
74)	Benzo[a]anthracene	11.44	228	312354	101.89	ug/ml	99
75)	3,3'-Dichlorobenzidine	11.41	252	136071	121.45	ug/ml	99
76)	Chrysene	11.48	228	253417	81.54	ug/ml	100
77)	bis(2-Ethylhexyl)phthalate	11.44	149	366311	101.41	ug/ml	100
79)	Di-n-octyl phthalate	11.97	149	696241	112.64	ug/ml	100
80)	Benzo[b]fluoranthene	12.34	252	363221	113.71	ug/ml	94
81)	Benzo[k]fluoranthene	12.37	252	227727m2	79.06	ug/ml	
82)	Benzo[a]pyrene	12.64	252	285610	100.20	ug/ml	97
83)	Indeno[1,2,3cd]pyrene	13.88	276	235931	102.92	ug/ml	93
84)	Dibenz[a,h]anthracene	13.89	278	109427	90.64	ug/ml	94
85)	Benzo[g,h,i]perylene	14.24	276	199377	94.99	ug/ml	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092308\D092308.D Vial: 8
Acq On : 23 Sep 2008 7:07 pm Operator: mills
Sample : ,ical,svoa ical 100ug/ml,1,ab86-05 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:23 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092309.D Vial: 9
Acq On : 23 Sep 2008 7:32 pm Operator: mills
Sample : ,ical,svoa ical 120ug/ml,1,ab86-06 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:48 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 19:24:22 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	73787	40.00 ug/ml	0.00
19) Naphthalene-d8	5.57	136	238925	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	105768	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.12	188	132594	40.00 ug/ml	0.00
69) Chrysene-d12	11.46	240	110422	40.00 ug/ml	0.00
78) Perylene-d12	12.70	264	108886	40.00 ug/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.18	112	276002	120.91 ug/ml	0.00
5) Phenol-d5	3.91	99	329279	117.07 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	340755	127.88 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	382423	114.39 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	63628	119.78 ug/ml	0.00
72) Terphenyl-d14	10.57	244	281368	117.00 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.37	79	291023	127.95 ug/ml	96
3) n-Nitrosodimethylamine	2.33	74	191630	153.46 ug/ml	81
6) Phenol	3.92	94	322485	115.80 ug/ml	95
7) Aniline	3.98	93	377424	119.81 ug/ml	98
8) bis(2-Chloroethyl)ether	4.02	93	252196	111.62 ug/ml	99
9) 2-Chlorophenol	4.10	128	261462	118.16 ug/ml	99
10) 1,3-Dichlorobenzene	4.24	146	292484	113.63 ug/ml	98
11) 1,4-Dichlorobenzene	4.31	146	297781	111.65 ug/ml	98
12) 1,2-Dichlorobenzene	4.45	146	287374	113.29 ug/ml	98
13) Benzyl alcohol	4.40	108	155975	120.66 ug/ml	98
14) 2,2-oxybis(1-chloropropan	4.54	45	476159	113.64 ug/ml	99
15) 2-Methylphenol	4.49	108	220882	113.31 ug/ml	99
16) Hexachloroethane	4.78	117	150392	114.88 ug/ml	75
17) N-Nitrosodi-n-propylamine	4.68	70	193623	111.09 ug/ml	93
18) 3/4-Methylphenol	4.65	108	226861	116.71 ug/ml	99
21) Nitrobenzene	4.84	77	287819	119.55 ug/ml	100
22) Acetophenone	4.67	105	308902	109.57 ug/ml	99
23) Isophorone	5.09	82	501837	110.96 ug/ml	97
24) 2-Nitrophenol	5.16	139	151022	122.07 ug/ml#	74
25) 2,4-Dimethylphenol	5.20	107	255869	120.64 ug/ml	95
26) bis(2-Chloroethoxy)methane	5.30	93	283244	112.04 ug/ml	99
27) 2,4-Dichlorophenol	5.41	162	201267	117.73 ug/ml	94
28) Benzoic acid	5.30	122	129484	153.56 ug/ml	95
29) 1,2,4-Trichlorobenzene	5.51	180	198304	110.56 ug/ml	98
30) Naphthalene	5.59	128	584685	105.25 ug/ml	99
31) 2,6-Dichlorophenol	5.65	162	180518	109.80 ug/ml	86
32) 4-Chloroaniline	5.64	127	243013	115.87 ug/ml	98
33) Hexachlorobutadiene	5.72	225	124183	110.54 ug/ml	98
34) 4-Chloro-3-methylphenol	6.15	107	206321	119.71 ug/ml	99
35) 2-Methylnaphthalene	6.33	142	355014	107.16 ug/ml	100
37) Hexachlorocyclopentadiene	6.51	237	86038	105.23 ug/ml	98
38) 2,4,5-Trichlorophenol	6.68	196	127044	118.03 ug/ml	99
39) 2,4,6-Trichlorophenol	6.64	196	119464	122.13 ug/ml	98
41) 2-Chloronaphthalene	6.88	162	410574	117.30 ug/ml	98
42) 2-Nitroaniline	6.98	65	143265	126.73 ug/ml	93
43) Acenaphthylene	7.33	152	581358	119.99 ug/ml	99
44) Dimethyl phthalate	7.19	163	465742	116.89 ug/ml	100
45) 2,6-Dinitrotoluene	7.26	165	112599	133.24 ug/ml	96
46) 3-Nitroaniline	7.44	138	118670	132.33 ug/ml	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092309.D Vial: 9
Acq On : 23 Sep 2008 7:32 pm Operator: mills
Sample : ,ical,svoa ical 120ug/ml,1,ab86-06 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:48 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 19:24:22 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

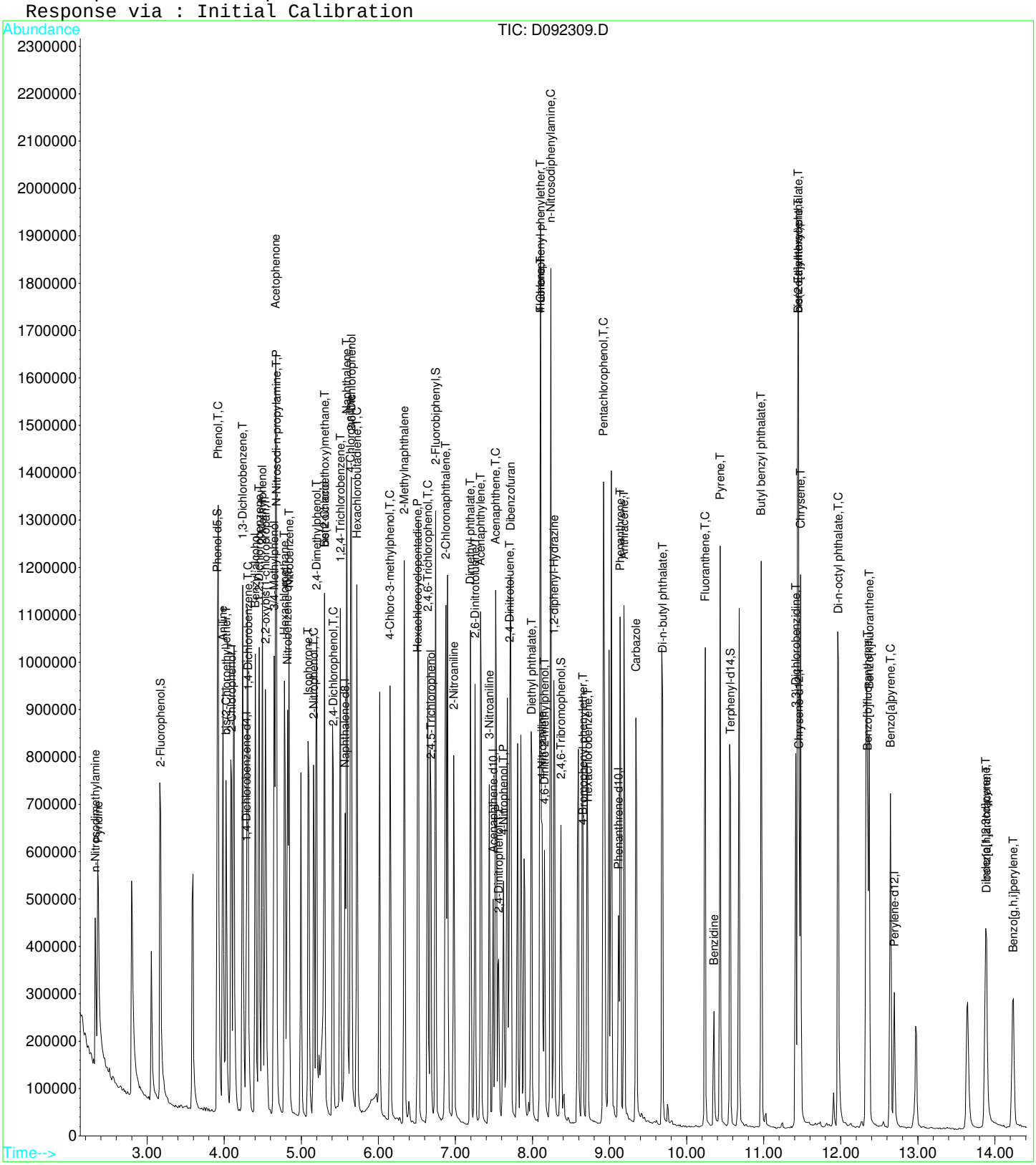
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47)	Acenaphthene	7.52	153	326772	106.91 ug/ml	99
48)	2,4-Dinitrophenol	7.56	184	60696	160.12 ug/ml	87
49)	Dibenzofuran	7.72	168	422469	109.43 ug/ml	98
50)	4-Nitrophenol	7.62	109	75294	147.62 ug/ml	95
51)	2,4-Dinitrotoluene	7.71	165	133480	131.37 ug/ml	79
52)	Fluorene	8.10	166	299081	109.47 ug/ml	98
53)	4-Chlorophenyl phenylether	8.10	204	134370	108.38 ug/ml	94
54)	Diethyl phthalate	7.99	149	467464	114.24 ug/ml	99
55)	4-Nitroaniline	8.12	138	108224	133.35 ug/ml	99
57)	4,6-Dinitro-2-methylphenol	8.15	198	70824	130.42 ug/ml#	74
58)	n-Nitrosodiphenylamine	8.24	169	435130	102.81 ug/ml	99
59)	1,2-diphenyl-Hydrazine	8.28	77	487838	112.19 ug/ml	99
61)	4-Bromophenyl phenylether	8.66	248	97501	108.06 ug/ml	95
62)	Hexachlorobenzene	8.72	284	110491	107.09 ug/ml	97
63)	Pentachlorophenol	8.92	266	76579	125.77 ug/ml	97
64)	Phenanthrene	9.14	178	411470	104.77 ug/ml	100
65)	Anthracene	9.19	178	451302	109.10 ug/ml	99
66)	Carbazole	9.34	167	373876	123.48 ug/ml#	92
67)	Di-n-butyl phthalate	9.69	149	751229	110.04 ug/ml	100
68)	Fluoranthene	10.24	202	391173	106.76 ug/ml	100
70)	Benzidine	10.35	184	101467	113.51 ug/ml	99
71)	Pyrene	10.44	202	408633	113.54 ug/ml	99
73)	Butyl benzyl phthalate	10.97	149	332907	115.68 ug/ml	97
74)	Benzo[a]anthracene	11.45	228	353566	122.08 ug/ml	100
75)	3,3'-Dichlorobenzidine	11.42	252	151991	138.06 ug/ml	98
76)	Chrysene	11.48	228	281270	98.65 ug/ml	99
77)	bis(2-Ethylhexyl)phthalate	11.45	149	415638	121.78 ug/ml	99
79)	Di-n-octyl phthalate	11.97	149	793487	140.26 ug/ml	99
80)	Benzo[b]fluoranthene	12.35	252	389684	134.03 ug/ml	94
81)	Benzo[k]fluoranthene	12.37	252	241646m2	96.87 ug/ml	
82)	Benzo[a]pyrene	12.64	252	298425	117.24 ug/ml	96
83)	Indeno[1,2,3cd]pyrene	13.88	276	238886	116.25 ug/ml	92
84)	Dibenz[a,h]anthracene	13.89	278	111605	104.96 ug/ml	97
85)	Benzo[g,h,i]perylene	14.24	276	193103	103.81 ug/ml	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D092308\D092309.D Vial: 9
Acq On : 23 Sep 2008 7:32 pm Operator: mills
Sample : ,ical,svoa ical 120ug/ml,1,ab86-06 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 19:48 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092310.D Vial: 10
Acq On : 23 Sep 2008 7:58 pm Operator: mills
Sample : ,ical,svoa ical 160ug/ml,1,ab86-07 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 20:31 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 19:48:45 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	76496	40.00 ug/ml	0.00
19) Naphthalene-d8	5.57	136	256292	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	117973	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.12	188	145848	40.00 ug/ml	0.00
69) Chrysene-d12	11.45	240	109371	40.00 ug/ml	0.00
78) Perylene-d12	12.69	264	106446	40.00 ug/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	373232	157.51 ug/ml	0.00
5) Phenol-d5	3.92	99	444275	152.98 ug/ml	0.00
20) Nitrobenzene-d5	4.83	82	468095	162.44 ug/ml	0.00
40) 2-Fluorobiphenyl	6.75	172	526559	142.04 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	91361	156.40 ug/ml	0.00
72) Terphenyl-d14	10.56	244	393120	165.56 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.36	79	415720	174.38 ug/ml	99
3) n-Nitrosodimethylamine	2.33	74	278884	205.86 ug/ml	94
6) Phenol	3.93	94	428017	149.12 ug/ml	91
7) Aniline	3.99	93	481771	147.55 ug/ml	97
8) bis(2-Chloroethyl)ether	4.03	93	366042	158.11 ug/ml	99
9) 2-Chlorophenol	4.09	128	367849	160.76 ug/ml	88
10) 1,3-Dichlorobenzene	4.24	146	398259	150.57 ug/ml	99
11) 1,4-Dichlorobenzene	4.30	146	399051	146.02 ug/ml	99
12) 1,2-Dichlorobenzene	4.45	146	388990	149.31 ug/ml	97
13) Benzyl alcohol	4.41	108	219596	163.71 ug/ml	95
14) 2,2-oxybis(1-chloropropan	4.54	45	652999	151.67 ug/ml	99
15) 2-Methylphenol	4.50	108	303594	151.63 ug/ml	99
16) Hexachloroethane	4.79	117	200508	148.79 ug/ml	85
17) N-Nitrosodi-n-propylamine	4.68	70	257134	144.09 ug/ml	99
18) 3/4-Methylphenol	4.65	108	310580	154.83 ug/ml	100
21) Nitrobenzene	4.85	77	400430	155.15 ug/ml	100
22) Acetophenone	4.67	105	412259	138.32 ug/ml	99
23) Isophorone	5.10	82	701558	146.44 ug/ml	97
24) 2-Nitrophenol	5.16	139	202247	151.97 ug/ml#	78
25) 2,4-Dimethylphenol	5.20	107	343545	150.87 ug/ml	96
26) bis(2-Chloroethoxy)methane	5.31	93	401287	149.64 ug/ml	99
27) 2,4-Dichlorophenol	5.42	162	277775	151.95 ug/ml	92
28) Benzoic acid	5.32	122	183380	192.00 ug/ml	92
29) 1,2,4-Trichlorobenzene	5.51	180	278291	146.56 ug/ml	99
30) Naphthalene	5.59	128	800791	136.48 ug/ml	99
31) 2,6-Dichlorophenol	5.65	162	247127	142.14 ug/ml	97
32) 4-Chloroaniline	5.64	127	313092	139.97 ug/ml	98
33) Hexachlorobutadiene	5.73	225	167660	140.98 ug/ml	99
34) 4-Chloro-3-methylphenol	6.16	107	285156	154.30 ug/ml	98
35) 2-Methylnaphthalene	6.34	142	502406	143.94 ug/ml	100
37) Hexachlorocyclopentadiene	6.51	237	111223	124.52 ug/ml	99
38) 2,4,5-Trichlorophenol	6.68	196	174492	145.74 ug/ml	99
39) 2,4,6-Trichlorophenol	6.65	196	175517	160.39 ug/ml	99
41) 2-Chloronaphthalene	6.88	162	599714	154.19 ug/ml	99
42) 2-Nitroaniline	6.98	65	203721	160.06 ug/ml	94
43) Acenaphthylene	7.33	152	763989	141.37 ug/ml	98
44) Dimethyl phthalate	7.20	163	645653	145.91 ug/ml	99
45) 2,6-Dinitrotoluene	7.26	165	156465	162.99 ug/ml	93
46) 3-Nitroaniline	7.44	138	175125	172.13 ug/ml	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D092308\D092310.D Vial: 10
Acq On : 23 Sep 2008 7:58 pm Operator: mills
Sample : ,ical,svoa ical 160ug/ml,1,ab86-07 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 20:31 2008 Quant Results File: SVOA0923.RES

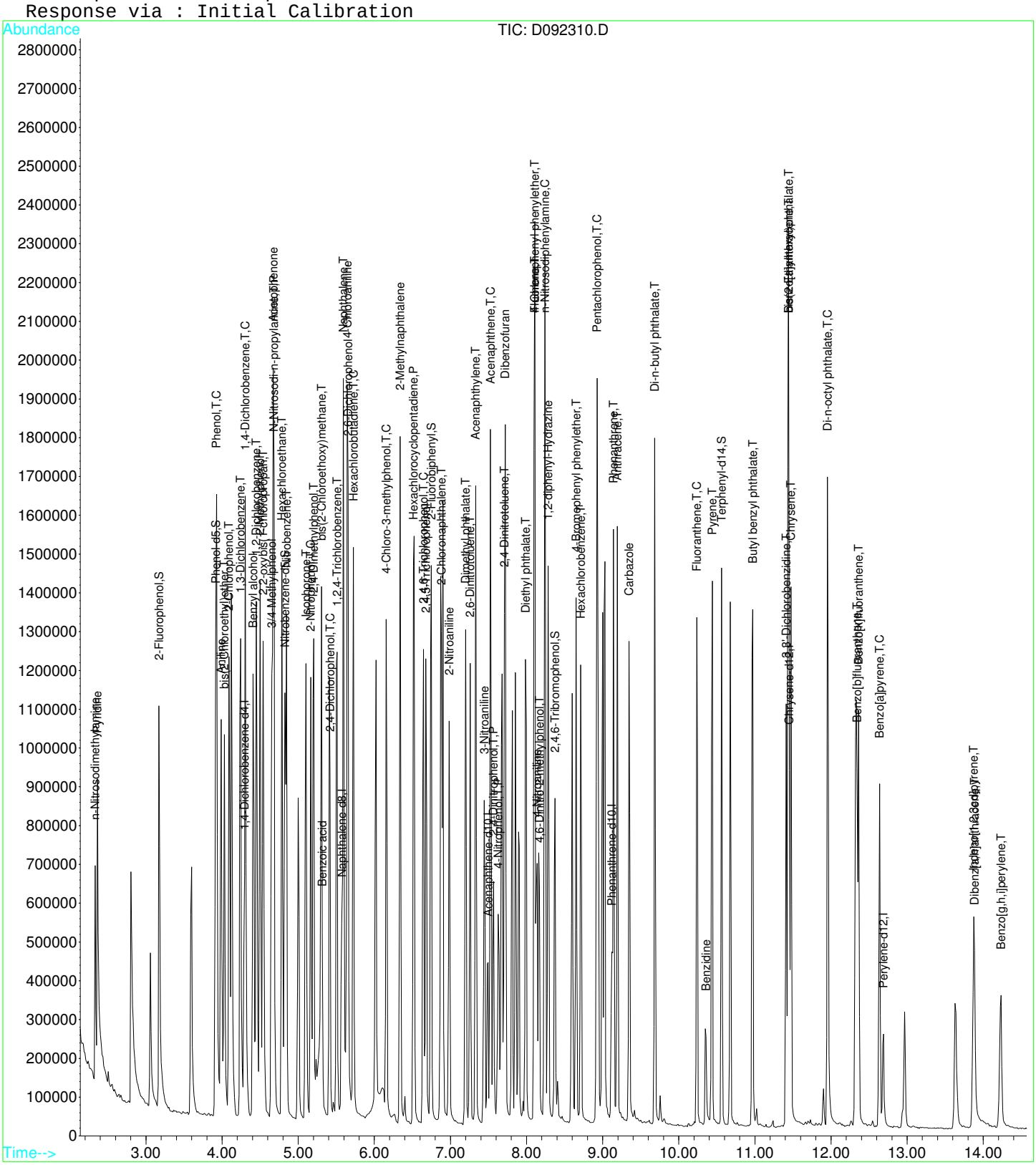
Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 19:48:45 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47)	Acenaphthene	7.53	153	452416	134.54 ug/ml	98
48)	2,4-Dinitrophenol	7.57	184	92729	205.57 ug/ml	90
49)	Dibenzofuran	7.72	168	587336	138.43 ug/ml	99
50)	4-Nitrophenol	7.63	109	125345	212.19 ug/ml	98
51)	2,4-Dinitrotoluene	7.71	165	187044	162.47 ug/ml#	60
52)	Fluorene	8.11	166	415711	137.93 ug/ml	98
53)	4-Chlorophenyl phenylether	8.11	204	188033	138.20 ug/ml	88
54)	Diethyl phthalate	7.99	149	661227	146.04 ug/ml	98
55)	4-Nitroaniline	8.14	138	158840	172.27 ug/ml	91
57)	4,6-Dinitro-2-methylphenol	8.17	198	106528	175.30 ug/ml	85
58)	n-Nitrosodiphenylamine	8.24	169	602395	132.56 ug/ml	100
59)	1,2-diphenyl-Hydrazine	8.28	77	672647	142.18 ug/ml	98
61)	4-Bromophenyl phenylether	8.65	248	136291	139.64 ug/ml#	80
62)	Hexachlorobenzene	8.71	284	156529	140.44 ug/ml#	67
63)	Pentachlorophenol	8.93	266	109003	161.46 ug/ml	98
64)	Phenanthrene	9.14	178	577248	135.78 ug/ml	99
65)	Anthracene	9.19	178	599017	133.16 ug/ml	99
66)	Carbazole	9.35	167	514980	153.88 ug/ml#	93
67)	Di-n-butyl phthalate	9.68	149	1034183	139.65 ug/ml	98
68)	Fluoranthene	10.24	202	543203m2	136.66 ug/ml	
70)	Benzidine	10.36	184	125135	142.62 ug/ml	98
71)	Pyrene	10.44	202	569428	160.82 ug/ml	90
73)	Butyl benzyl phthalate	10.97	149	457786	161.57 ug/ml	77
74)	Benzo[a]anthracene	11.44	228	441262	153.49 ug/ml	100
75)	3,3'-Dichlorobenzidine	11.41	252	195582	174.97 ug/ml	98
76)	Chrysene	11.47	228	391755	141.88 ug/ml	99
77)	bis(2-Ethylhexyl)phthalate	11.44	149	550947	162.58 ug/ml	99
79)	Di-n-octyl phthalate	11.95	149	1048563	184.41 ug/ml	99
80)	Benzo[b]fluoranthene	12.34	252	491657	170.49 ug/ml	96
81)	Benzo[k]fluoranthene	12.36	252	294292	123.66 ug/ml	94
82)	Benzo[a]pyrene	12.64	252	369520	148.93 ug/ml	96
83)	Indeno[1,2,3cd]pyrene	13.88	276	281991	140.92 ug/ml	94
84)	Dibenz[a,h]anthracene	13.89	278	145655	142.35 ug/ml	98
85)	Benzo[g,h,i]perylene	14.23	276	235343	131.63 ug/ml	91

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\D092308\D092310.D Vial: 10
Acq On : 23 Sep 2008 7:58 pm Operator: mills
Sample : ,ical,svoa ical 160ug/ml,1,ab86-07 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 23 20:31 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



CONTINUING CALIBRATION RAW DATA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\D100308\D100302.D Vial: 2
Acq On : 3 Oct 2008 7:12 pm Operator: mills
Sample : ,ccv,svoa ccv 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2		Pyridine	1.263	1.396	-10.5	95	0.00
3		n-Nitrosodimethylamine	0.737	0.809	-9.8	99	0.00
4	S	2-Fluorophenol	1.236	1.247	-0.9	97	0.00
5	S	Phenol-d5	1.509	1.562	-3.5	95	0.00
6	T,C	Phenol	1.486	1.579	-6.3	96	0.00
7		Aniline	1.688	1.780	-5.5	98	0.00
8	T	bis(2-Chloroethyl)ether	1.209	1.234	-2.1	95	0.00
9	T	2-Chlorophenol	1.197	1.230	-2.8	97	0.00
10	T	1,3-Dichlorobenzene	1.371	1.421	-3.6	98	0.00
11	T,C	1,4-Dichlorobenzene	1.411	1.428	-1.2	94	0.00
12	T	1,2-Dichlorobenzene	1.349	1.405	-4.2	99	0.00
13		Benzyl alcohol	0.704	0.737	-4.7	99	0.00
14	T	2,2-oxybis(1-chloropropan	2.235	2.322	-3.9	95	0.00
15		2-Methylphenol	1.039	1.061	-2.1	96	0.00
16	T	Hexachloroethane	0.698	0.720	-3.2	97	0.00
17	T,P	N-Nitrosodi-n-propylamine	0.920	0.955	-3.8	99	0.00
18		3/4-Methylphenol	1.044	1.109	-6.2	102	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	96	0.00
20	S	Nitrobenzene-d5	0.451	0.501	-11.1	102	0.00
21	T	Nitrobenzene	0.401	0.418	-4.2	100	0.00
22		Acetophenone	0.456	0.471	-3.3	100	0.00
23	T	Isophorone	0.739	0.751	-1.6	94	0.00
24	T,C	2-Nitrophenol	0.206	0.209	-1.5	98	0.00
25	T	2,4-Dimethylphenol	0.352	0.371	-5.4	102	0.02
26	T	bis(2-Chloroethoxy)methane	0.415	0.420	-1.2	96	0.00
27	T,C	2,4-Dichlorophenol	0.283	0.288	-1.8	98	0.00
28		Benzoic acid	0.154	0.168	-9.1	113	0.00
29	T	1,2,4-Trichlorobenzene	0.293	0.299	-2.0	97	0.00
30	T	Naphthalene	0.901	0.885	1.8	95	0.00
31		2,6-Dichlorophenol	0.267	0.282	-5.6	97	0.00
32		4-Chloroaniline	0.343	0.364	-6.1	97	0.00
33	T,C	Hexachlorobutadiene	0.182	0.187	-2.7	99	0.00
34	T,C	4-Chloro-3-methylphenol	0.287	0.299	-4.2	98	0.00
35		2-Methylnaphthalene	0.537	0.564	-5.0	103	0.00
36	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
37	P	Hexachlorocyclopentadiene	0.293	0.312	-6.5	95	0.00
38		2,4,5-Trichlorophenol	0.401	0.409	-2.0	99	0.00
39	T,C	2,4,6-Trichlorophenol	0.371	0.392	-5.7	100	0.00
40	S	2-Fluorobiphenyl	1.241	1.315	-6.0	104	0.00
41	T	2-Chloronaphthalene	1.312	1.358	-3.5	103	0.00
42		2-Nitroaniline	0.432	0.481	-11.3	107	0.00
43	T	Acenaphthylene	1.809	1.819	-0.6	98	0.00
44	T	Dimethyl phthalate	1.481	1.517	-2.4	100	0.00
45	T	2,6-Dinitrotoluene	0.326	0.376	-15.3	115	0.00
46		3-Nitroaniline	0.349	0.355	-1.7	101	0.00
47	T,C	Acenaphthene	1.120	1.102	1.6	96	0.00
48	T,P	2,4-Dinitrophenol	0.160	0.170	-6.3	126	0.00
49		Dibenzofuran	1.411	1.472	-4.3	99	0.00
50	T,P	4-Nitrophenol	0.210	0.226	-7.6	111	0.00
51	T	2,4-Dinitrotoluene	0.391	0.472	-20.7#	109	0.00
52	T	Fluorene	1.006	1.035	-2.9	102	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\D100308\D100302.D Vial: 2
Acq On : 3 Oct 2008 7:12 pm Operator: mills
Sample : ,ccv,svoa ccv 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53	T	4-Chlorophenyl phenylether	0.452	0.463	-2.4	102	0.00
54	T	Diethyl phthalate	1.516	1.587	-4.7	101	0.00
55		4-Nitroaniline	0.316	0.329	-4.1	101	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00
57	T	4,6-Dinitro-2-methylphenol	0.169	0.184	-8.9	114	0.00
58	C	n-Nitrosodiphenylamine	1.216	1.318	-8.4	104	0.00
59		1,2-diphenyl-Hydrazine	1.277	1.366	-7.0	104	0.00
60	S	2,4,6-Tribromophenol	0.160	0.171	-6.9	102	0.00
61	T	4-Bromophenyl phenylether	0.263	0.274	-4.2	99	0.00
62	T	Hexachlorobenzene	0.300	0.310	-3.3	99	0.00
63	T,C	Pentachlorophenol	0.185	0.204	-10.3	107	0.00
64	T	Phenanthrene	1.146	1.157	-1.0	100	0.00
65	T	Anthracene	1.211	1.265	-4.5	100	0.00
66		Carbazole	0.913	0.903	1.1	99	0.00
67	T	Di-n-butyl phthalate	1.994	2.058	-3.2	98	0.00
68	T,C	Fluoranthene	1.072	1.070	0.2	98	0.00
69	I	Chrysene-d12	1.000	1.000	0.0	100	0.03
70		Benzidine	0.316	0.355	-12.3	91	0.00
71	T	Pyrene	1.296	1.343	-3.6	101	0.02
72	S	Terphenyl-d14	0.872	0.921	-5.6	97	0.00
73	T	Butyl benzyl phthalate	1.038	1.127	-8.6	105	0.02
74	T	Benzo[a]anthracene	1.047	1.055	-0.8	100	0.03
75	T	3,3'-Dichlorobenzidine	0.414	0.439	-6.0	97	0.03
76	T	Chrysene	0.997	0.998	-0.1	95	0.03
77	T	bis(2-Ethylhexyl)phthalate	1.242	1.332	-7.2	100	0.02
78	I	Perylene-d12	1.000	1.000	0.0	102	0.04
79	T,C	Di-n-octyl phthalate	2.183	2.251	-3.1	101	0.03
80	T	Benzo[b]fluoranthene	1.092	1.003	8.2	97	0.04
81	T	Benzo[k]fluoranthene	0.872	0.898	-3.0	95	0.04
82	T,C	Benzo[a]pyrene	0.925	0.953	-3.0	98	0.04
83	T	Indeno[1,2,3cd]pyrene	0.742	0.843	-13.6	105	0.05
84	T	Dibenz[a,h]anthracene	0.380	0.394	-3.7	109	0.05
85	T	Benzo[g,h,i]perylene	0.659	0.726	-10.2	104	0.05

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100302.D Vial: 2
Acq On : 3 Oct 2008 7:12 pm Operator: mills
Sample : ,ccv,svoa ccv 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 3 19:28 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	81696	40.00 ug/ml	0.00
19) Naphthalene-d8	5.57	136	268102	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	123416	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.12	188	146261	40.00 ug/ml	0.00
69) Chrysene-d12	11.48	240	122894	40.00 ug/ml	0.03
78) Perylene-d12	12.73	264	131742	40.00 ug/ml	0.04
System Monitoring Compounds					
4) 2-Fluorophenol	3.18	112	127318	50.42 ug/ml	0.00
5) Phenol-d5	3.92	99	159518	51.76 ug/ml	0.00
20) Nitrobenzene-d5	4.83	82	167777	55.56 ug/ml	0.00
40) 2-Fluorobiphenyl	6.75	172	202826	52.96 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	31244	53.51 ug/ml	0.00
72) Terphenyl-d14	10.57	244	141439	52.81 ug/ml	0.00
Target Compounds					Qvalue
2) Pyridine	2.37	79	142579	55.29 ug/ml	99
3) n-Nitrosodimethylamine	2.34	74	82597	54.84 ug/ml	98
6) Phenol	3.93	94	161235	53.11 ug/ml	97
7) Aniline	3.99	93	181748	52.71 ug/ml	99
8) bis(2-Chloroethyl)ether	4.03	93	125978	51.04 ug/ml	98
9) 2-Chlorophenol	4.10	128	125634	51.38 ug/ml	97
10) 1,3-Dichlorobenzene	4.24	146	145097	51.80 ug/ml	97
11) 1,4-Dichlorobenzene	4.31	146	145868	50.61 ug/ml	99
12) 1,2-Dichlorobenzene	4.46	146	143475	52.06 ug/ml	99
13) Benzyl alcohol	4.41	108	75297	52.39 ug/ml	94
14) 2,2-oxybis(1-chloropropan	4.54	45	237123	51.96 ug/ml	99
15) 2-Methylphenol	4.50	108	108377	51.07 ug/ml	100
16) Hexachloroethane	4.80	117	73498	51.59 ug/ml	99
17) N-Nitrosodi-n-propylamine	4.67	70	97572	51.93 ug/ml	98
18) 3/4-Methylphenol	4.65	108	113215	53.09 ug/ml	97
21) Nitrobenzene	4.85	77	140027	52.09 ug/ml	99
22) Acetophenone	4.67	105	157693	51.58 ug/ml	99
23) Isophorone	5.09	82	251550	50.81 ug/ml	100
24) 2-Nitrophenol	5.17	139	70049	50.68 ug/ml	95
25) 2,4-Dimethylphenol	5.20	107	124269	52.60 ug/ml	96
26) bis(2-Chloroethoxy)methane	5.31	93	140865	50.68 ug/ml	99
27) 2,4-Dichlorophenol	5.41	162	96541	50.85 ug/ml	97
28) Benzoic acid	5.28	122	56420	54.65 ug/ml	87
29) 1,2,4-Trichlorobenzene	5.51	180	100126	51.02 ug/ml	98
30) Naphthalene	5.59	128	296558	49.12 ug/ml	99
31) 2,6-Dichlorophenol	5.65	162	94408	52.75 ug/ml	96
32) 4-Chloroaniline	5.64	127	122067	53.12 ug/ml	99
33) Hexachlorobutadiene	5.73	225	62724	51.29 ug/ml	97
34) 4-Chloro-3-methylphenol	6.16	107	100218	52.11 ug/ml	98
35) 2-Methylnaphthalene	6.34	142	189041	52.53 ug/ml	99
37) Hexachlorocyclopentadiene	6.51	237	48174	53.24 ug/ml	95
38) 2,4,5-Trichlorophenol	6.69	196	63155	51.07 ug/ml	99
39) 2,4,6-Trichlorophenol	6.65	196	60499	52.83 ug/ml	99
41) 2-Chloronaphthalene	6.88	162	209500	51.76 ug/ml	99
42) 2-Nitroaniline	6.98	65	74205	55.73 ug/ml	97
43) Acenaphthylene	7.33	152	280672	50.30 ug/ml	99
44) Dimethyl phthalate	7.20	163	234055	51.21 ug/ml	99
45) 2,6-Dinitrotoluene	7.26	165	57957	57.56 ug/ml	96
46) 3-Nitroaniline	7.44	138	54712	50.85 ug/ml	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100302.D Vial: 2
Acq On : 3 Oct 2008 7:12 pm Operator: mills
Sample : ,ccv,svoa ccv 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 3 19:28 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

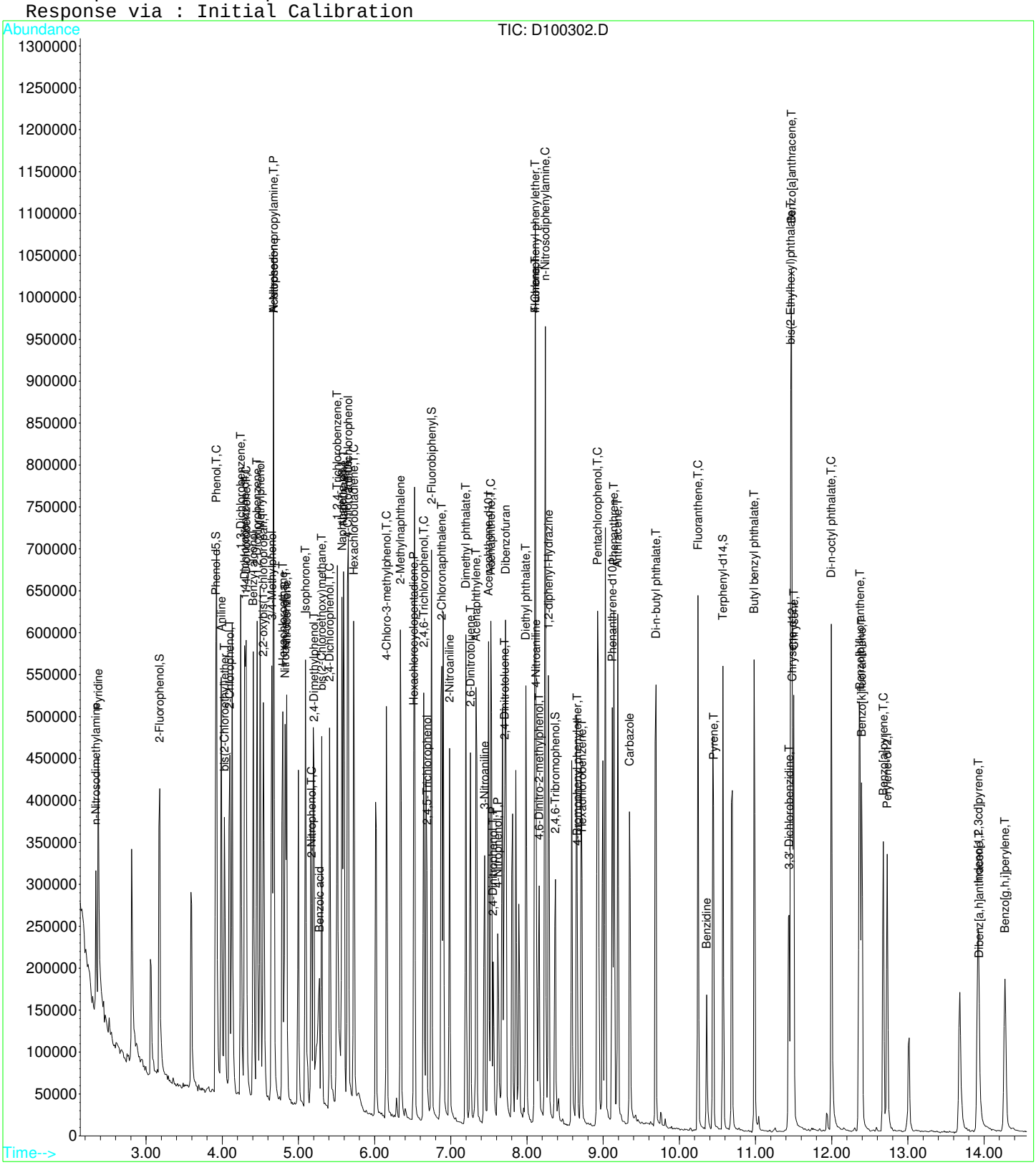
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
47)	Acenaphthene	7.53	153	169933	49.18 ug/ml	99
48)	2,4-Dinitrophenol	7.56	184	26234	53.07 ug/ml	98
49)	Dibenzofuran	7.72	168	227037	52.15 ug/ml	100
50)	4-Nitrophenol	7.62	109	34847	53.88 ug/ml	94
51)	2,4-Dinitrotoluene	7.71	165	72773	60.29 ug/ml	97
52)	Fluorene	8.11	166	159701	51.44 ug/ml	98
53)	4-Chlorophenyl phenylether	8.11	204	71435	51.19 ug/ml	97
54)	Diethyl phthalate	7.99	149	244825	52.34 ug/ml	98
55)	4-Nitroaniline	8.12	138	50782	52.08 ug/ml	95
57)	4,6-Dinitro-2-methylphenol	8.16	198	33640	54.33 ug/ml	97
58)	n-Nitrosodiphenylamine	8.24	169	240991	54.21 ug/ml	99
59)	1,2-diphenyl-Hydrazine	8.28	77	249666	53.47 ug/ml	99
61)	4-Bromophenyl phenylether	8.66	248	50051	52.08 ug/ml	95
62)	Hexachlorobenzene	8.72	284	56728	51.66 ug/ml	97
63)	Pentachlorophenol	8.93	266	37298	55.02 ug/ml	95
64)	Phenanthrene	9.14	178	211470	50.45 ug/ml	99
65)	Anthracene	9.19	178	231298	52.25 ug/ml	99
66)	Carbazole	9.35	167	165120	49.47 ug/ml#	92
67)	Di-n-butyl phthalate	9.69	149	376287	51.61 ug/ml	100
68)	Fluoranthene	10.25	202	195590	49.88 ug/ml	91
70)	Benzidine	10.36	184	54610	56.27 ug/ml	95
71)	Pyrene	10.45	202	206316m2	51.83 ug/ml	
73)	Butyl benzyl phthalate	10.98	149	173100	54.29 ug/ml	97
74)	Benzo[a]anthracene	11.47	228	162078	50.40 ug/ml	98
75)	3,3'-Dichlorobenzidine	11.44	252	67403	52.96 ug/ml	99
76)	Chrysene	11.50	228	153266	50.03 ug/ml	99
77)	bis(2-Ethylhexyl)phthalate	11.46	149	204575	53.60 ug/ml	98
79)	Di-n-octyl phthalate	11.99	149	370716	51.55 ug/ml	100
80)	Benzo[b]fluoranthene	12.37	252	165129	45.93 ug/ml	98
81)	Benzo[k]fluoranthene	12.39	252	147822	51.49 ug/ml	98
82)	Benzo[a]pyrene	12.68	252	156913	51.49 ug/ml	99
83)	Indeno[1,2,3cd]pyrene	13.93	276	138880	56.83 ug/ml	99
84)	Dibenz[a,h]anthracene	13.94	278	64809	51.81 ug/ml	98
85)	Benzo[g,h,i]perylene	14.27	276	119491	55.09 ug/ml	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100302.D Vial: 2
Acq On : 3 Oct 2008 7:12 pm Operator: mills
Sample : ,ccv,svoa ccv 50ug/ml,1,ab86-03 Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 3 19:28 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



SAMPLE RAW DATA

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESDUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-02B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100316.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 9 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Alcohol	2.66	2.4	
	Unknown Alcohol	3.42	11.3	
	Substituted Furan	3.55	1.6	
	Unknown Alcohol	4.12	1.9	
	Unknown Alcohol	4.21	2.2	
	Unknown Alcohol	4.50	0.6	
	Unknown Acid	4.89	1.5	
	Unknown	5.40	0.6	
	Unknown Acid	9.32	0.7	

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100316.D Vial: 93
Acq On : 4 Oct 2008 1:26 am Operator: mills
Sample : ,samp,me0809c97-02b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

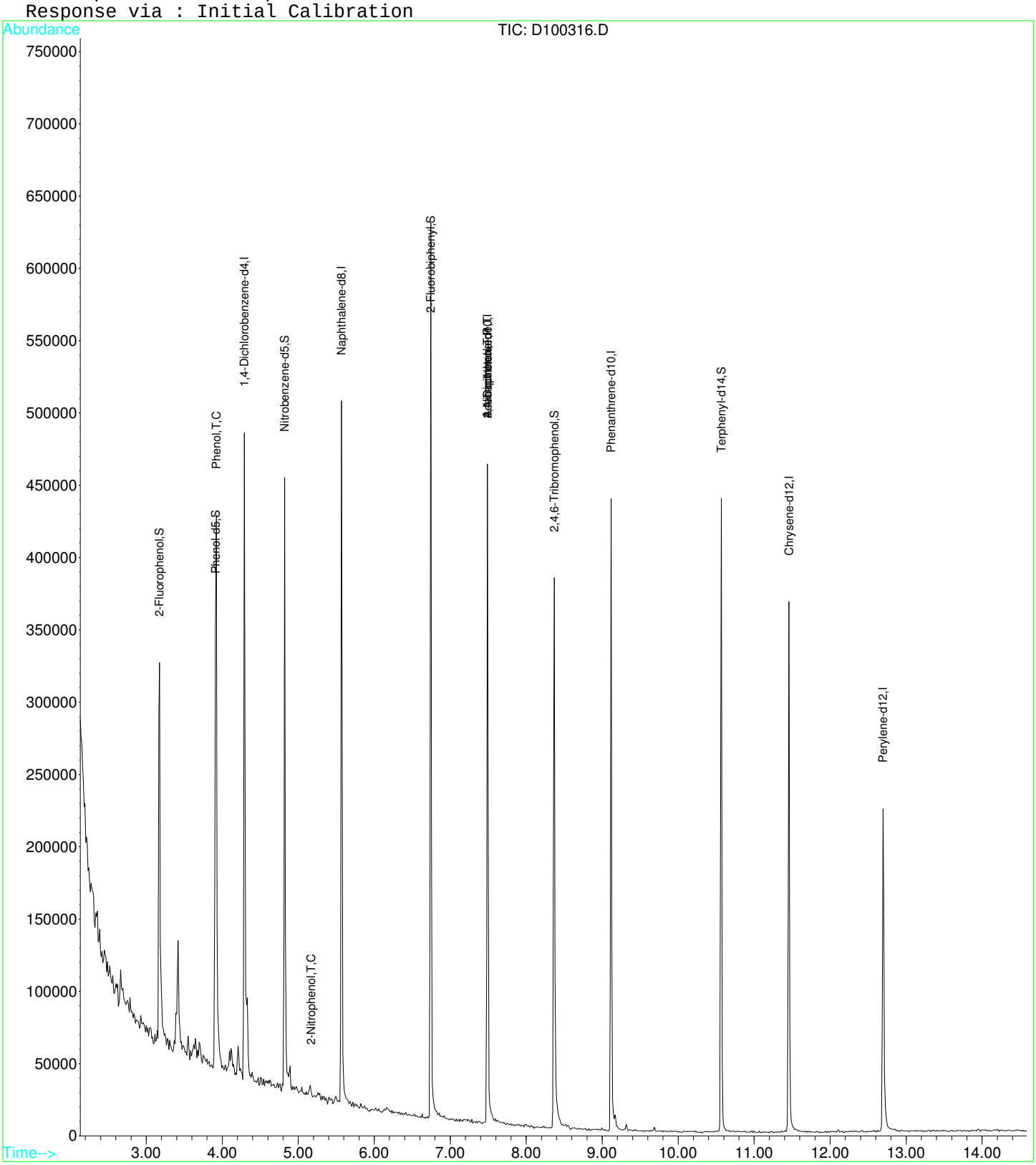
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	75463	40.00	ug/ml	0.00
19) Naphthalene-d8	5.57	136	238264	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.49	164	102134	40.00	ug/ml	0.00
56) Phenanthrene-d10	9.12	188	140776	40.00	ug/ml	0.00
69) Chrysene-d12	11.46	240	118125	40.00	ug/ml	0.00
78) Perylene-d12	12.70	264	108222	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.18	112	103465	44.36	ug/ml	0.00
5) Phenol-d5	3.91	99	87798	30.84	ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	132833	49.50	ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	182141	57.47	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	43151	76.78	ug/ml	0.00
72) Terphenyl-d14	10.57	244	130128	50.55	ug/ml	0.00
Target Compounds						Qvalue
6) Phenol	3.92	94	105178	37.51	ug/ml	97
24) 2-Nitrophenol	5.17	139	912	0.74	ug/ml#	52
50) 4-Nitrophenol	7.49	109	279	0.52	ug/ml#	1
51) 2,4-Dinitrotoluene	7.49	165	11183	11.20	ug/ml#	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100316.D Vial: 93
Acq On : 4 Oct 2008 1:26 am Operator: mills
Sample : ,samp,me0809c97-02b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: mills Date Acquired: 4 Oct 2008 1:26 am
Data File: C:\HPCHEM\1\DATA\D100308\D100316.D
Name: ,samp,me0809c97-02b,1,
Misc: 8270_w
Method: C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title: BNA Quantitation
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
3-Hexanol	2.66	2.4	ug/ml	30377	ISTD01	4.29	508620	40.0
Ethanol, 2-butoxy-	3.42	11.3	ug/ml	143217	ISTD01	4.29	508620	40.0
Furan, 2-(1,1-dimeth	3.55	1.6	ug/ml	20947	ISTD01	4.29	508620	40.0
2-Propanol, 1-(2-met	4.12	1.9	ug/ml	24726	ISTD01	4.29	508620	40.0
2-Propanol, 1-(2-met	4.21	2.2	ug/ml	27453	ISTD01	4.29	508620	40.0
Ethyl Chloride	4.50	0.6	ug/ml	7556	ISTD01	4.29	508620	40.0
Hexanoic acid, 2-eth	4.89	1.5	ug/ml	19431	ISTD01	4.29	508620	40.0
Difluorine monoxide	5.40	0.6	ug/ml	8257	ISTD02	5.57	520003	40.0
2-Acetylbenzoic acid	9.32	0.7	ug/ml	7213	ISTD04	9.12	433816	40.0

D100316.D SVOA0923.M Mon Oct 06 17:13:31 2008 SVOA4

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\D100308\D100316.D Vial: 93
Acq On : 4 Oct 2008 1:26 am Operator: mills
Sample : ,samp,me0809c97-02b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

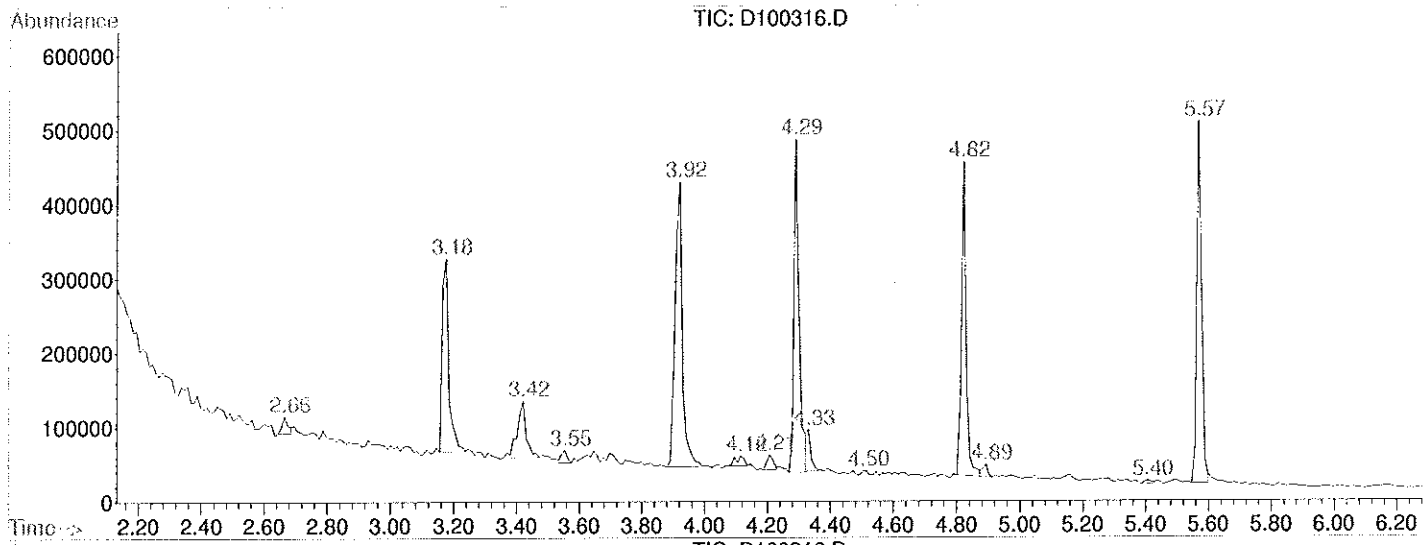
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.664	51	53	55	rBV	22710	30377	4.86%	0.506%
2	3.175	101	103	109	rBV	260034	385687	61.70%	6.427%
3	3.421	123	127	132	rVB2	75453	143217	22.91%	2.387%
4	3.554	138	140	142	rVB2	16508	20947	3.35%	0.349%
5	3.922	172	176	183	rBV2	382748	625059	100.00%	10.416%
6	4.116	191	195	197	rBV3	12986	24726	3.96%	0.412%
7	4.208	202	204	206	rBV	19982	27453	4.39%	0.457%
8	4.290	210	212	215	rBV	447423	508620	81.37%	8.476%
9	4.331	215	216	221	rVB	55311	49824	7.97%	0.830%
10	4.505	231	233	235	rBV3	5598	7556	1.21%	0.126%
11	4.822	262	264	269	rBV	420921	424126	67.85%	7.068%
12	4.893	269	271	273	rVB	16886	19431	3.11%	0.324%
13	5.404	319	321	323	rBV3	5003	8257	1.32%	0.138%
14	5.568	335	337	340	rBV	485261	520003	83.19%	8.665%
15	6.744	449	452	455	rBV	620204	604844	96.77%	10.079%
16	7.490	522	525	528	rBV	455440	477736	76.43%	7.961%
17	8.370	608	611	621	rBV	380516	517947	82.86%	8.631%
18	9.116	681	684	687	rBV	437514	433816	69.40%	7.229%
19	9.321	699	704	706	rVB	4334	7213	1.15%	0.120%
20	10.568	823	826	828	rBV	437523	457327	73.17%	7.621%
21	11.458	910	913	920	rBV	365973	385393	61.66%	6.422%
22	12.695	1031	1034	1047	rBV	222466	321478	51.43%	5.357%

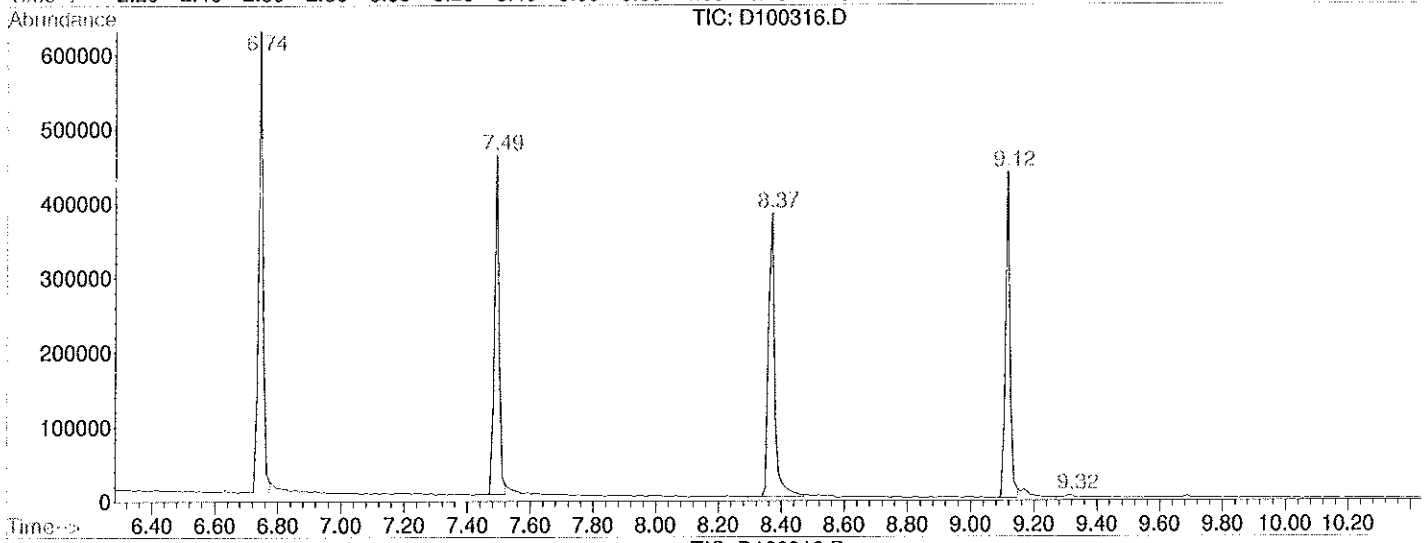
Sum of corrected areas: 6001037

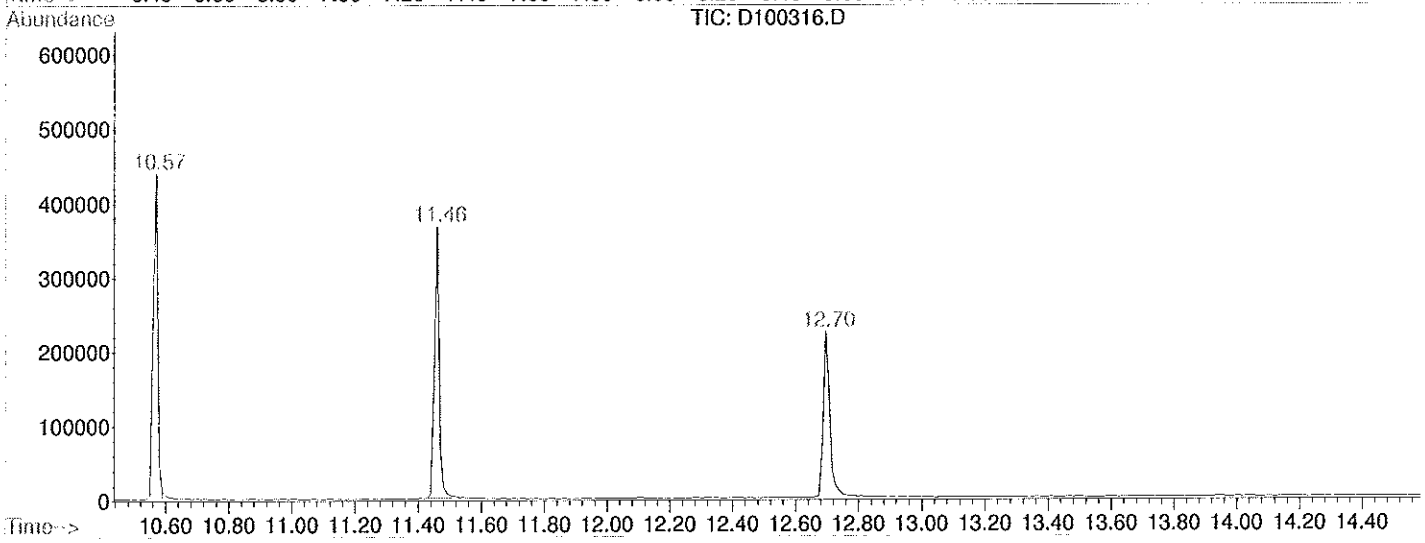
D100316.D SVOA0923.M Mon Oct 06 17:12:59 2008 SVOA4

LSC Report - Integrated Chromatogram

```
File        : C:\HPCHEM\1\DATA\D100308\D100316.D
Operator    : mills
Acquired    :  4 Oct 2008   1:26 am using AcqMethod 8270-AQ
Instrument  :   SVOA 4
Sample Name: ,samp,me0809c97-02b,1,
Misc Info   : 8270_w
Vial Number: 93
Quant File :SVOA0923.RES (RTE Integrator)
```







D100316.D SVOA0923.M Mon Oct 06 17:13:03 2008 SVOA4

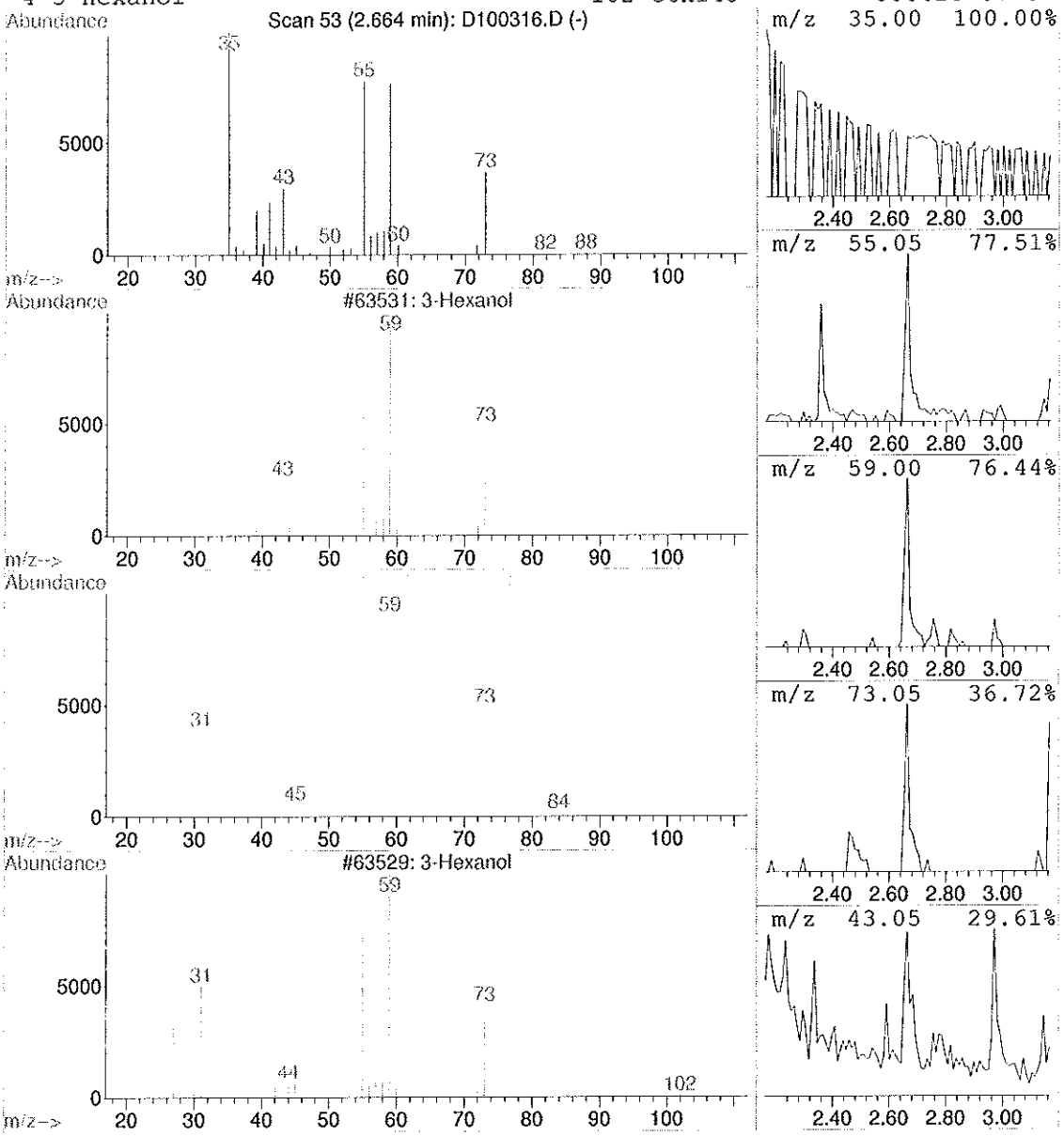
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                     Operator: mills
Sample    : ,samp,me0809c97-02b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*********************************************************************
Peak Number  1  3-Hexanol                        Concentration Rank  2
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.66	2.39 ug/ml	30377	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexanol	102	C6H14O	000623-37-0	83
2	3-Hexanol	102	C6H14O	000623-37-0	14
3	3-Hexanol	102	C6H14O	000623-37-0	14
4	3-Hexanol	102	C6H14O	000623-37-0	10



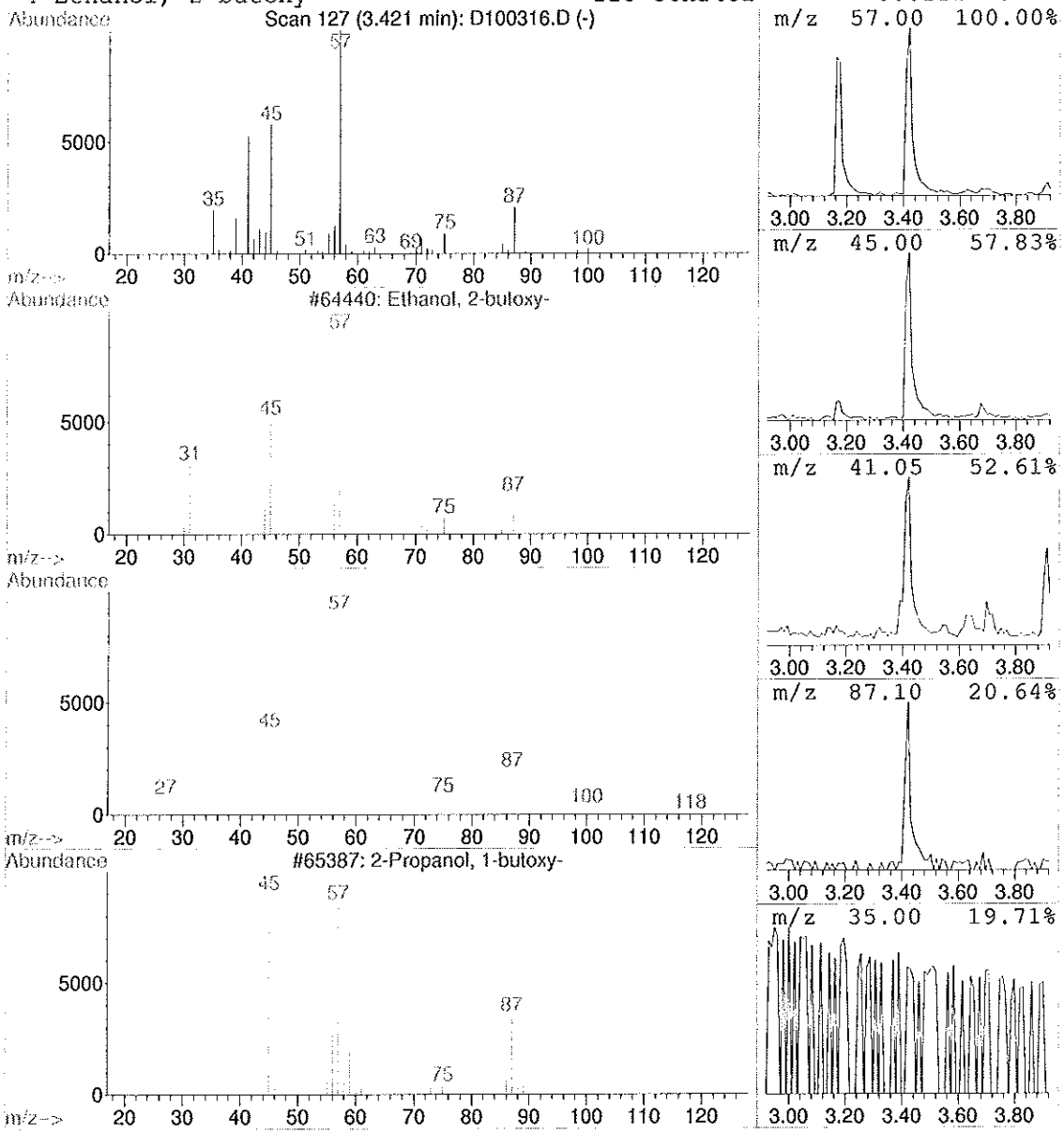
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                     Operator: mills
Sample    : ,samp,me0809c97-02b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  2  Ethanol, 2-butoxy-              Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.42	11.26 ug/ml	143217	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	43
2	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	38
3	2-Propanol, 1-butoxy-	132	C7H16O2	005131-66-8	36
4	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	27



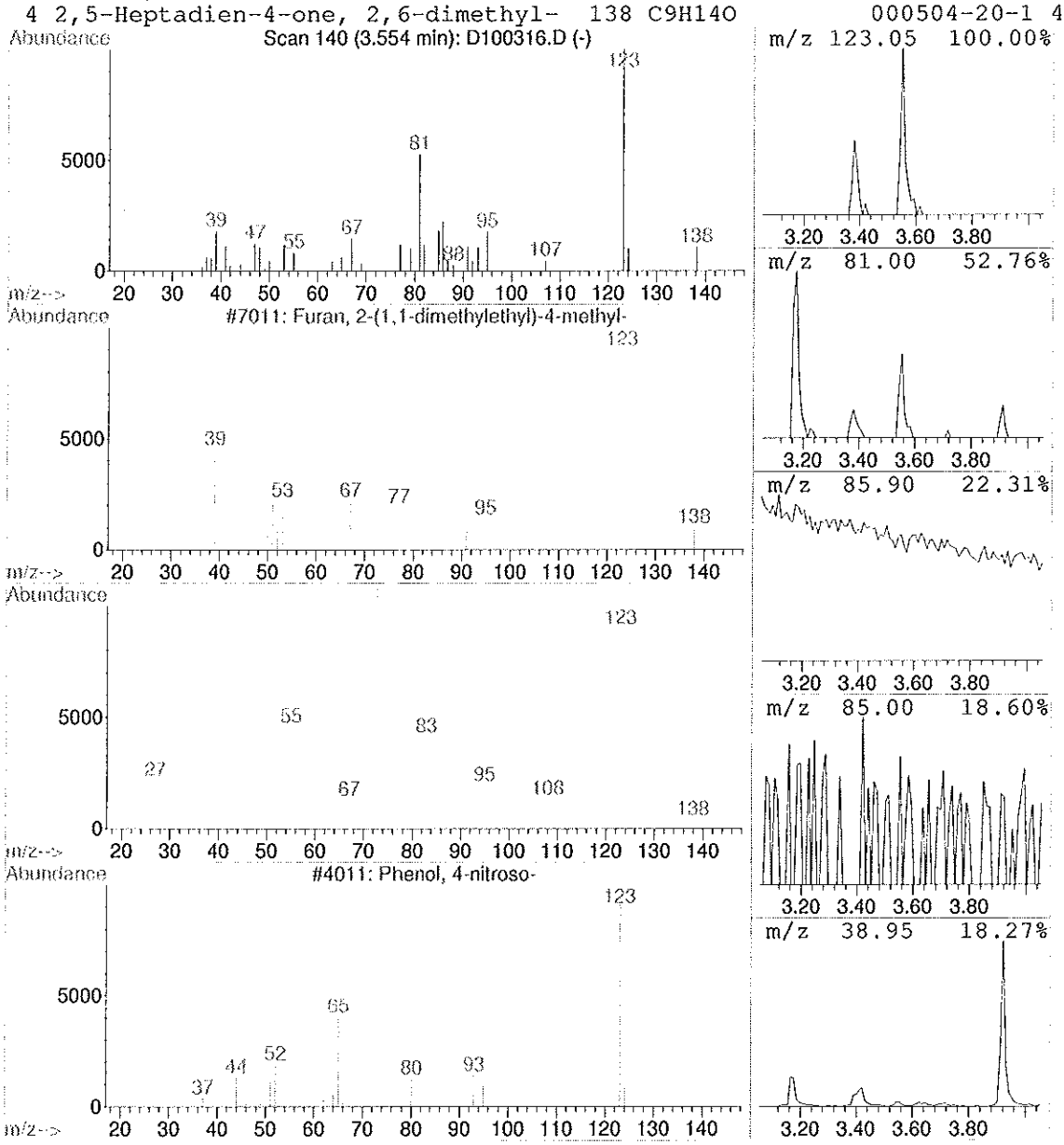
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                    Operator: mills
Sample    : ,samp,me0809c97-02b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  3  Furan, 2-(1,1-dimethylethyl)-4  Concentration Rank  5
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	1.65 ug/ml	20947	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2-(1,1-dimethylethyl)-4-meth	138	C9H14O	006141-68-0	53
2	2,5-Heptadien-4-one, 2,6-dimethyl-	138	C9H14O	000504-20-1	50
3	Phenol, 4-nitroso-	123	C6H5NO2	000104-91-6	47
4	2,5-Heptadien-4-one, 2,6-dimethyl-	138	C9H14O	000504-20-1	40



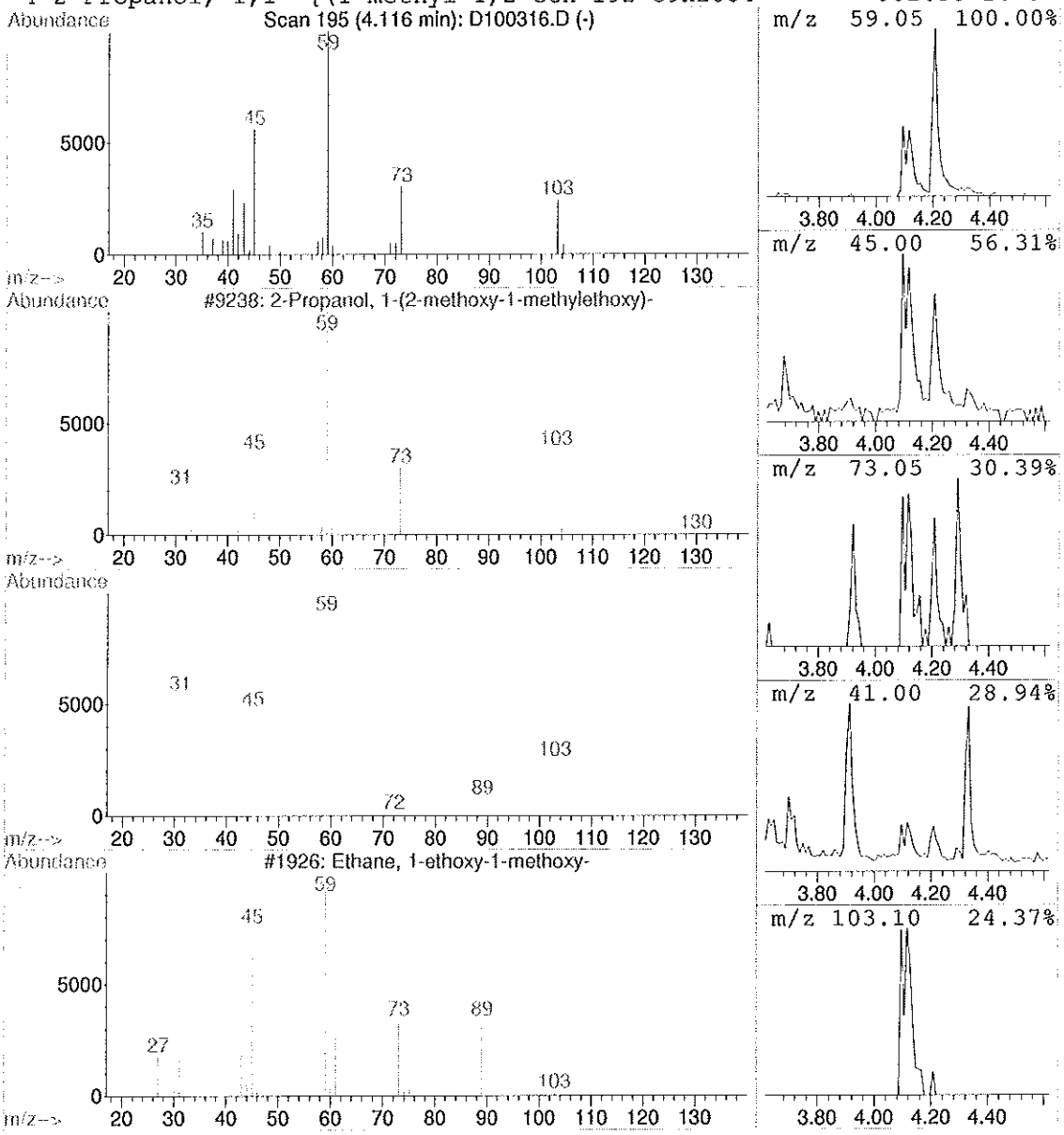
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                     Operator: mills
Sample    : ,samp,me0809c97-02b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  4  2-Propanol, 1-(2-methoxy-1-met  Concentration Rank  4
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.12	1.94 ug/ml	24726	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methylet	148	C7H16O3	020324-32-7	64
2	2-Propanol, 1,1'-oxybis-	134	C6H14O3	000110-98-5	42
3	Ethane, 1-ethoxy-1-methoxy-	104	C5H12O2	010471-14-4	42
4	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	40



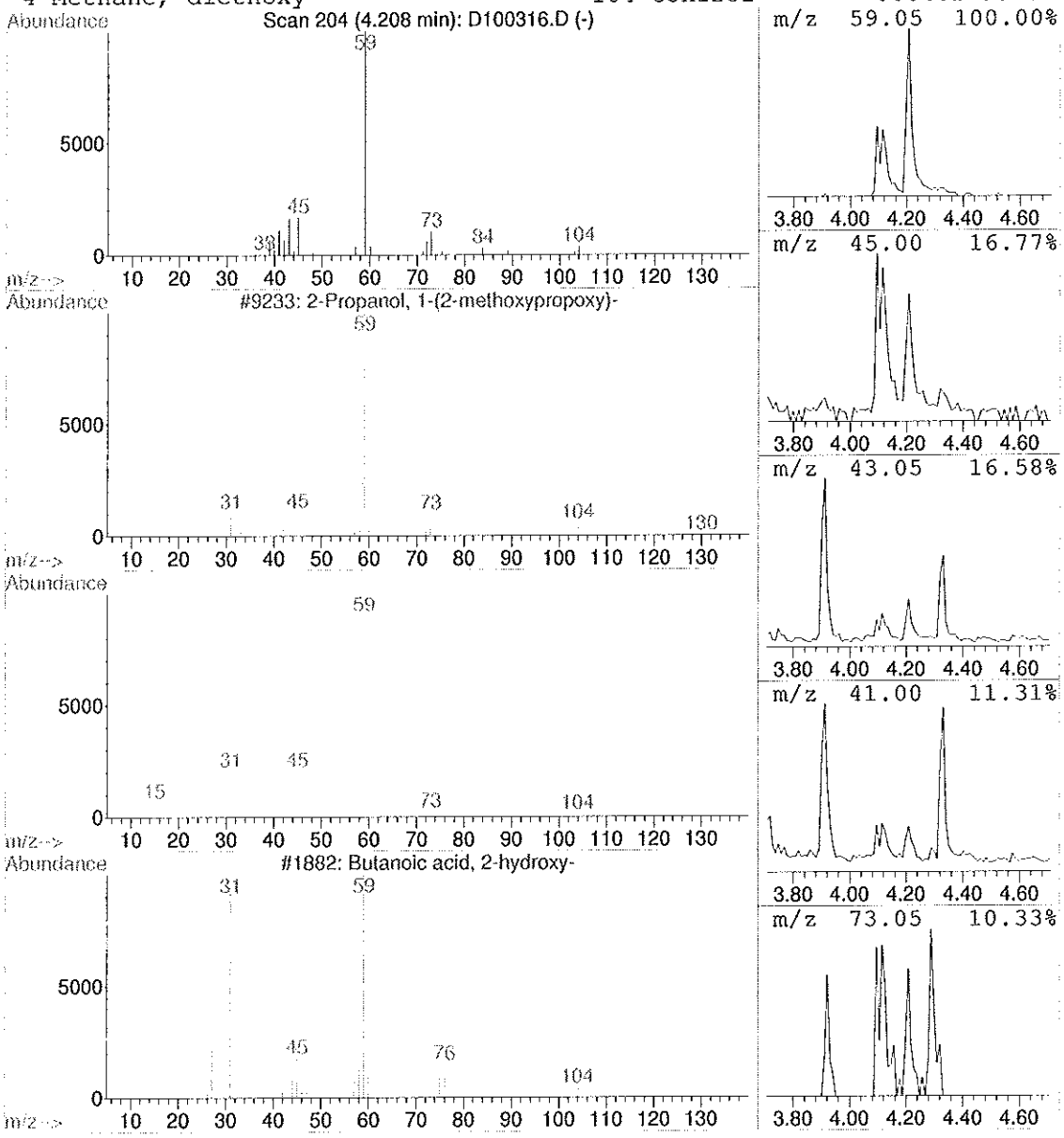
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                     Operator: mills
Sample    : ,samp,me0809c97-02b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*****************************************************************
Peak Number  5  2-Propanol, 1-(2-methoxypropox  Concentration Rank  3
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.21	2.16 ug/ml	27453	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	64
2	Propane, 1,2-dimethoxy-	104	C5H12O2	007778-85-0	38
3	Butanoic acid, 2-hydroxy-	104	C4H8O3	000565-70-8	9
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	9



Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                    Operator: mills
Sample    : ,samp,me0809c97-02b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  6  Ethyl Chloride                  Concentration Rank  9

 R.T.   EstConc          Area       Relative to ISTD          R.T.
-------------------------------------------------------------------
 4.50    0.59 ug/ml      7556    1,4-Dichlorobenzene-d4       4.29

 Hit# of  5    Tentative ID              MW  MolForm       CAS#        Qual
-------------------------------------------------------------------------
 1 Ethyl Chloride                        64 C2H5Cl        000075-00-3 2
 2 Ethanol, 2,2-dichloro-               114 C2H4Cl2O      000598-38-9 2
 3 Ethanol, 2-chloro-                    80 C2H5ClO       000107-07-3 1
 4 Difluorine monoxide                   54 F2O           007783-41-7 1
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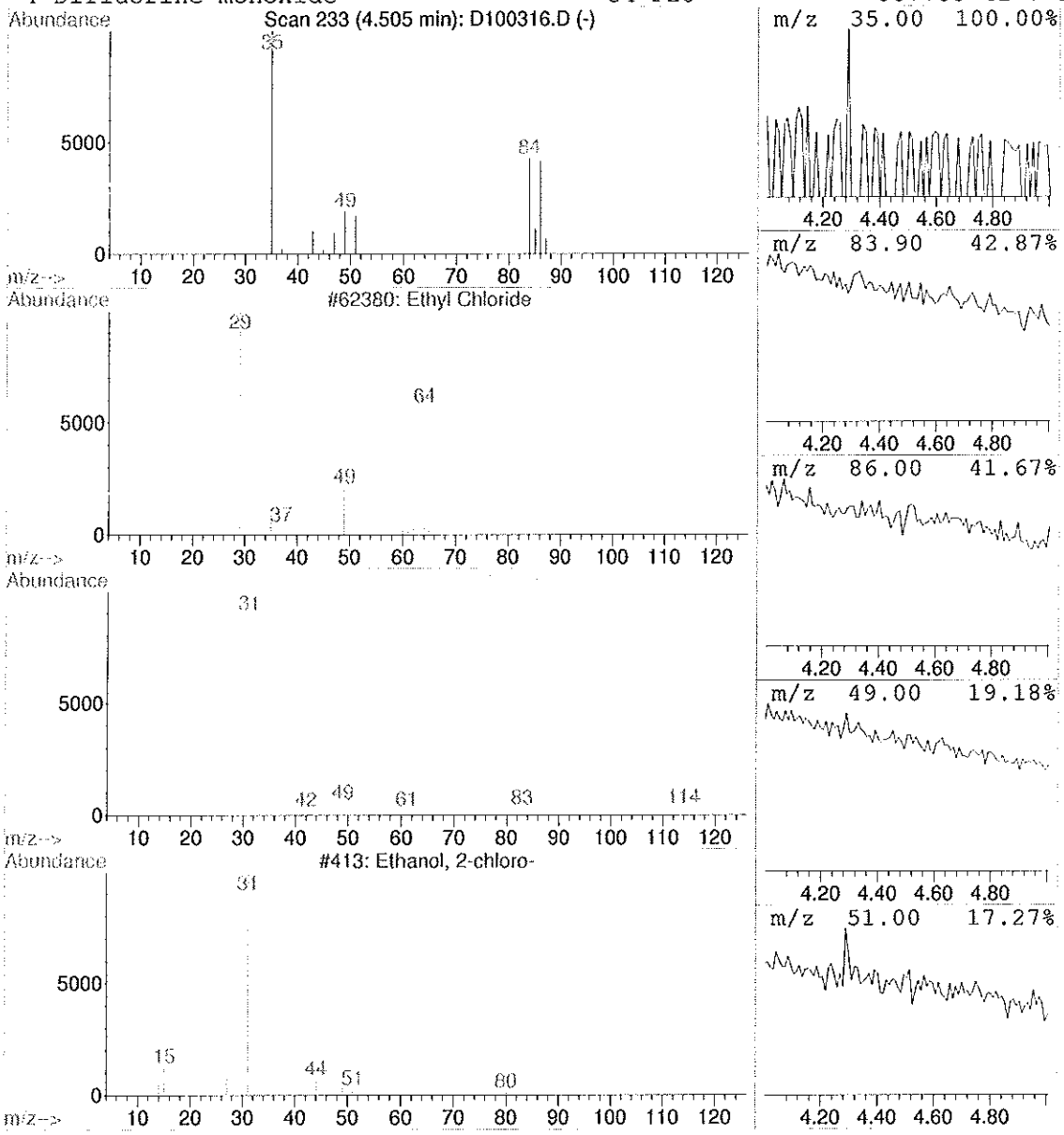


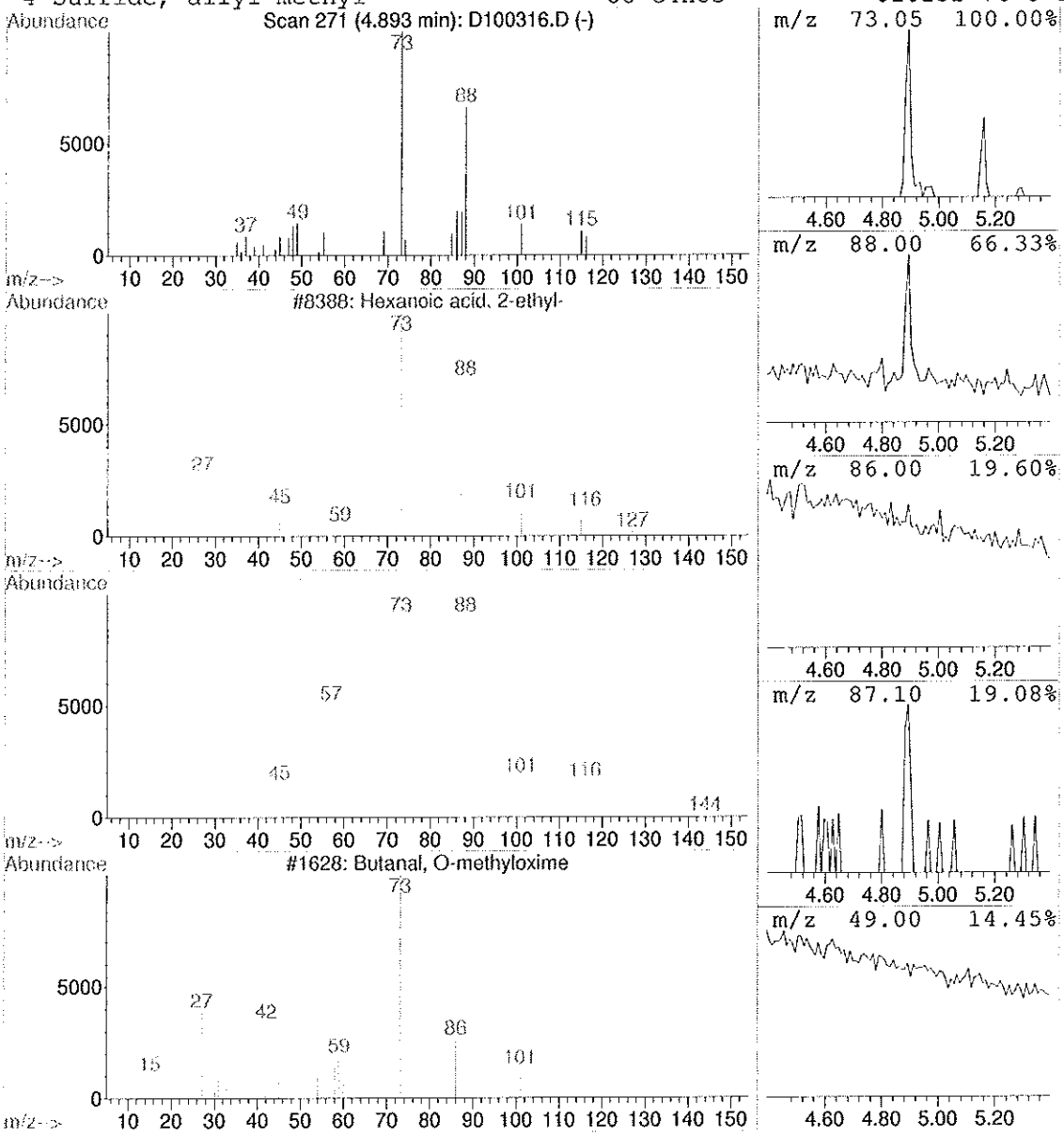
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                     Operator: mills
Sample    : ,samp,me0809c97-02b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  7  Hexanoic acid, 2-ethyl-        Concentration Rank  6
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.89	1.53 ug/ml	19431	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	38
2	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	25
3	Butanal, O-methyloxime	101	C5H11NO	031376-98-4	10
4	Sulfide, allyl methyl	88	C4H8S	010152-76-8	9



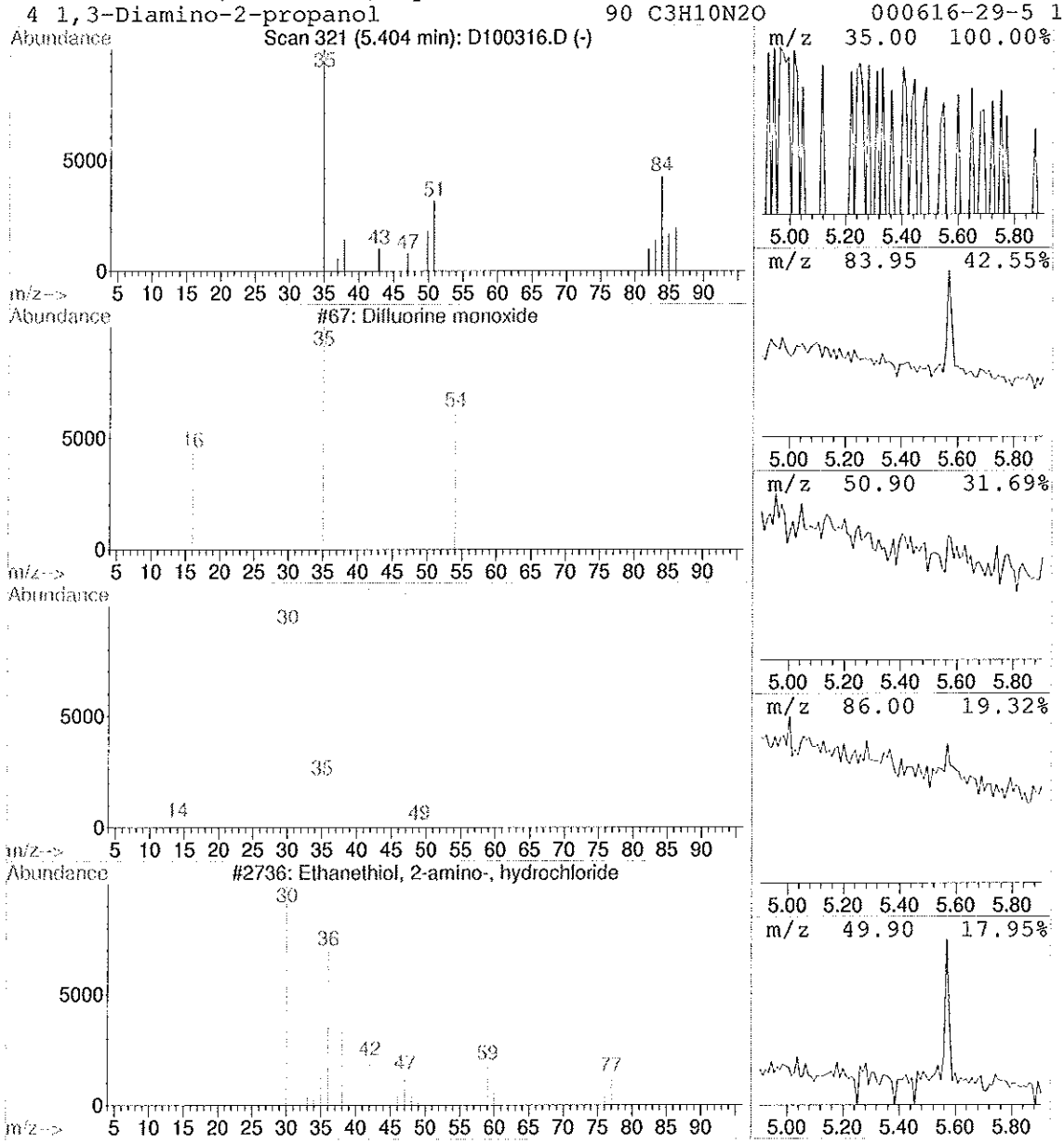
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                     Operator: mills
Sample    : ,samp,me0809c97-02b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  8  Difluorine monoxide            Concentration Rank  8
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.40	0.64 ug/ml	8257	Naphthalene-d8	5.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Difluorine monoxide	54	F2O	007783-41-7	1
2	Nitrosyl chloride	65	ClNO	002696-92-6	1
3	Ethanethiol, 2-amino-, hydrochlorid	113	C2H8ClNS	000156-57-0	1
4	1,3-Diamino-2-propanol	90	C3H10N2O	000616-29-5	1



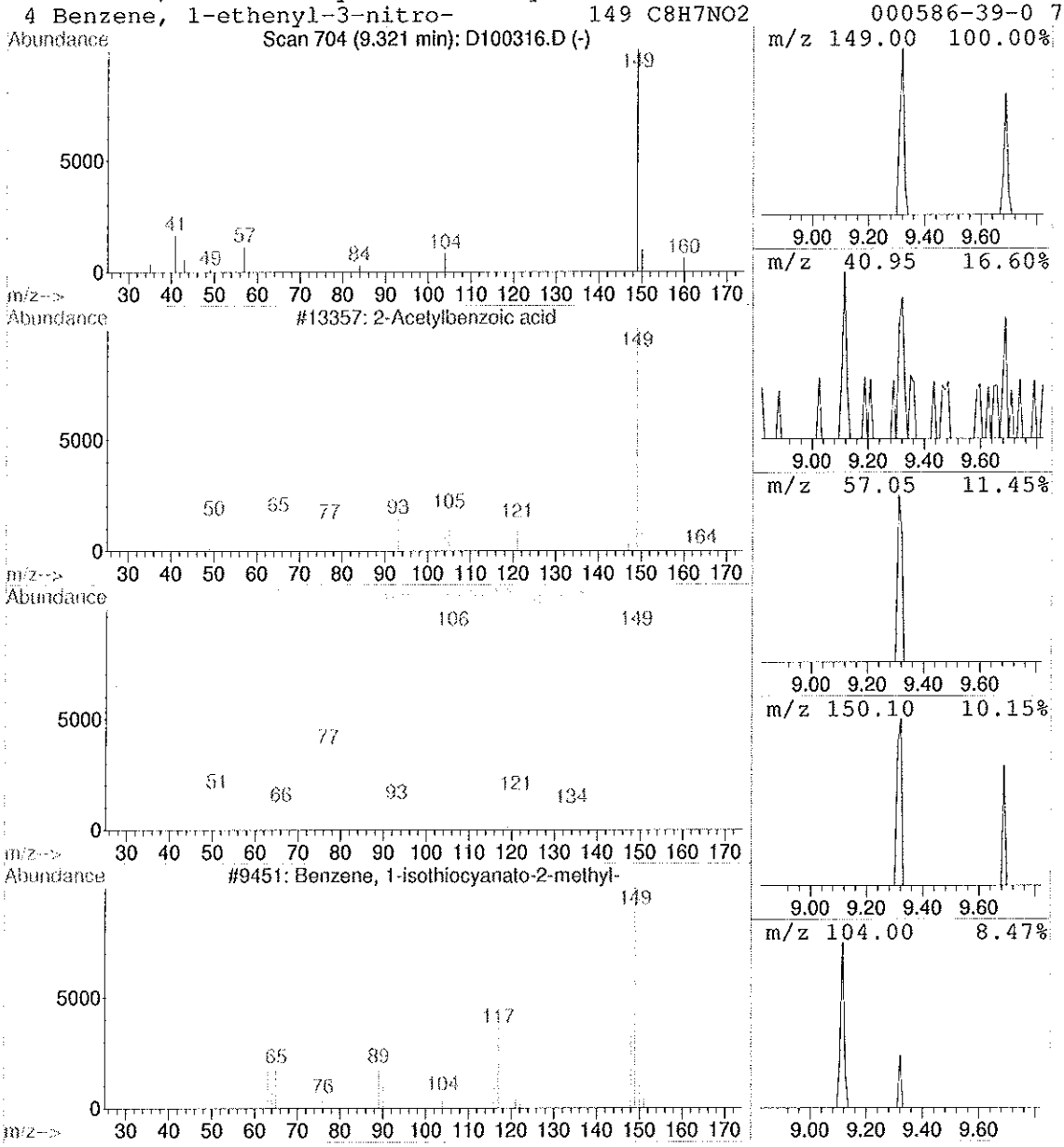
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100316.D          Vial: 93
Acq On    :  4 Oct 2008   1:26 am                    Operator: mills
Sample    : ,samp,me0809c97-02b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  9  2-Acetylbenzoic acid            Concentration Rank  7
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.32	0.67 ug/ml	7213	Phenanthrene-d10	9.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Acetylbenzoic acid	164	C9H8O3	000577-56-0	9
2	Formamide, n-ethyl-N-phenyl-	149	C9H11NO	005461-49-4	7
3	Benzene, 1-isothiocyanato-2-methyl-	149	C8H7NS	000614-69-7	7
4	Benzene, 1-ethenyl-3-nitro-	149	C8H7NO2	000586-39-0	7



Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-03B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100317.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Amine	3.55	1.6	
	Unknown	6.39	4.9	
	Unknown	9.63	61.7	
	Unknown Phthalate	9.85	71.5	

FORM I TIC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100317.D Vial: 94
Acq On : 4 Oct 2008 1:52 am Operator: mills
Sample : ,samp,me0809c97-03b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 14:00 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

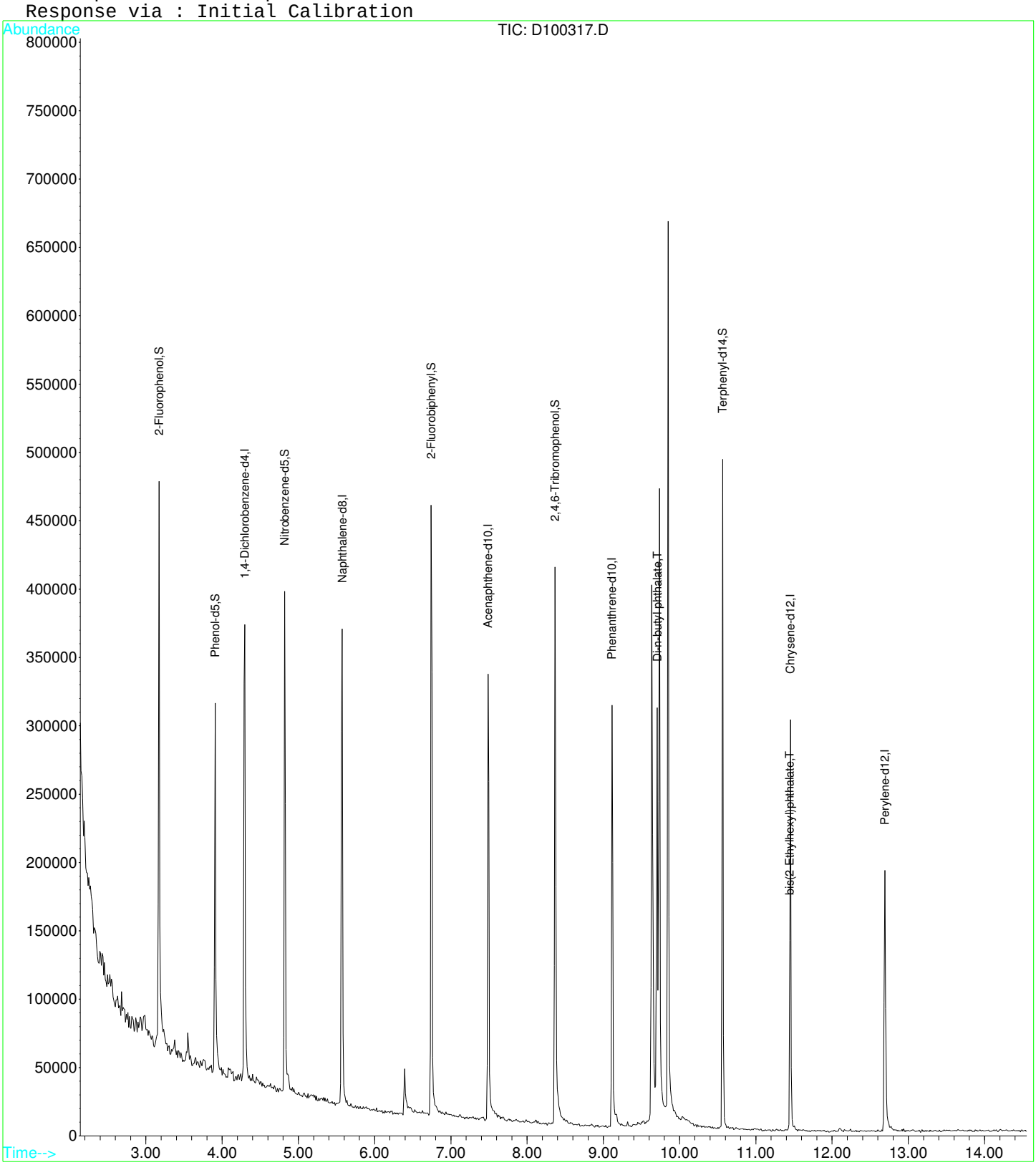
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.30	152	68181	40.00	ug/ml	0.01
19) Naphthalene-d8	5.58	136	198106	40.00	ug/ml	0.01
36) Acenaphthene-d10	7.49	164	93643	40.00	ug/ml	0.00
56) Phenanthrene-d10	9.11	188	115328	40.00	ug/ml	0.00
69) Chrysene-d12	11.45	240	96674	40.00	ug/ml	0.00
78) Perylene-d12	12.69	264	89487	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.17	112	110428	52.40	ug/ml	0.00
5) Phenol-d5	3.91	99	90283	35.10	ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	128307	57.50	ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	162019	55.76	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	42871	93.11	ug/ml	0.00
72) Terphenyl-d14	10.57	244	122684	58.23	ug/ml	0.00
Target Compounds						Qvalue
67) Di-n-butyl phthalate	9.71	149	121269m2	21.09	ug/ml	
77) bis(2-Ethylhexyl)phthalate	11.44	149	1634	0.54	ug/ml#	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100317.D Vial: 94
Acq On : 4 Oct 2008 1:52 am Operator: mills
Sample : ,samp,me0809c97-03b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 14:00 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: mills Date Acquired: 4 Oct 2008 1:52 am
Data File: C:\HPCHEM\1\DATA\D100308\D100317.D
Name: ,samp,me0809c97-03b,1,
Misc: 8270_w
Method: C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title: BNA Quantitation
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
4-Pyrimidinamine, 2,	3.55	1.6	ug/ml	17826	ISTD01	4.30	447843	40.0
Phthalic anhydride	6.39	4.9	ug/ml	54379	ISTD02	5.58	445665	40.0
1,2-Benzenedicarboxy	9.63	61.7	ug/ml	542890	ISTD04	9.11	351844	40.0
Dibutyl phthalate	9.85	71.5	ug/ml	628738	ISTD04	9.11	351844	40.0

D100317.D SVOA0923.M Mon Oct 06 17:13:52 2008 SVOA4

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\D100308\D100317.D Vial: 94
Acq On : 4 Oct 2008 1:52 am Operator: mills
Sample : ,samp,me0809c97-03b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

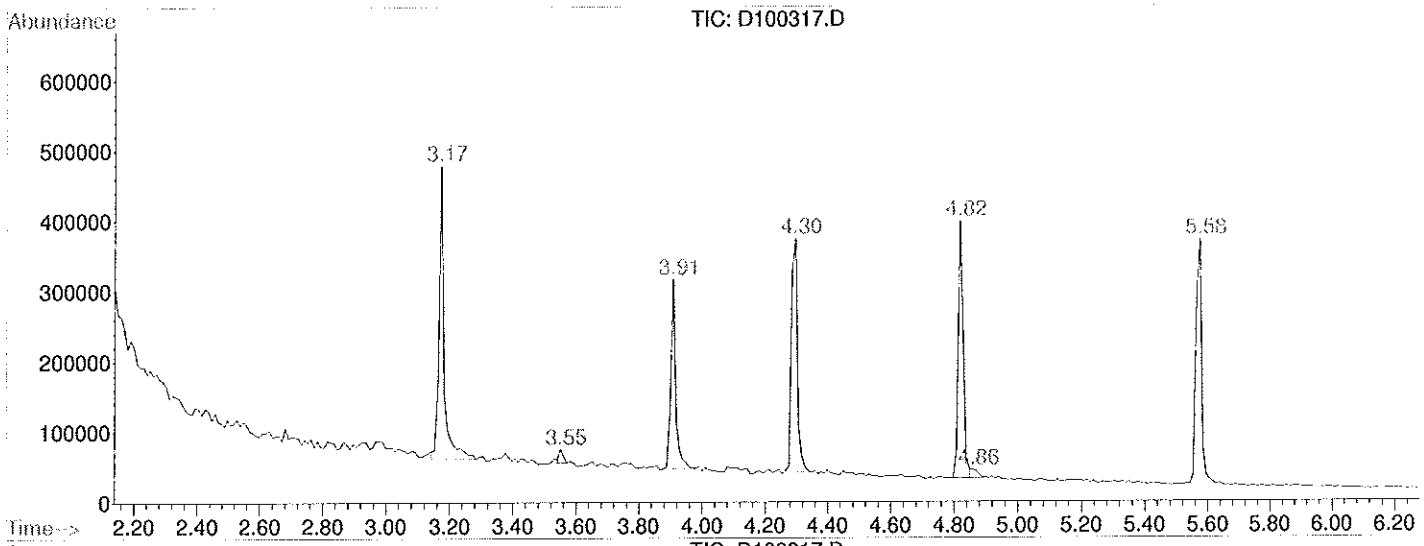
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.172	99	102	113	rVB	416823	479307	76.23%	6.986%
2	3.550	138	139	141	rVB2	19403	17826	2.84%	0.260%
3	3.908	171	174	181	rBV	269894	290624	46.22%	4.236%
4	4.297	209	212	217	rVB	331973	447843	71.23%	6.527%
5	4.818	261	263	266	rBV	364845	401489	63.86%	5.851%
6	4.859	266	267	272	rVB4	12235	18071	2.87%	0.263%
7	5.575	334	337	345	rVB	348784	445665	70.88%	6.495%
8	6.393	415	417	421	rBV	33796	54379	8.65%	0.793%
9	6.741	449	451	454	rBV	445090	534383	84.99%	7.788%
10	7.487	522	524	527	rBV	325178	403891	64.24%	5.886%
11	8.367	607	610	624	rBV	407056	515968	82.06%	7.520%
12	9.113	681	683	686	rBV	308376	351844	55.96%	5.128%
13	9.635	731	734	738	rBV	390940	542890	86.35%	7.912%
14	9.706	738	741	742	rVV	280726	308527	49.07%	4.497%
15	9.737	742	744	746	rVB	431002	421427	67.03%	6.142%
16	9.849	752	755	762	rVB	650732	628738	100.00%	9.163%
17	10.565	822	825	828	rBV	488233	427373	67.97%	6.229%
18	11.455	909	912	916	rBV	299218	303226	48.23%	4.419%
19	12.692	1030	1033	1040	rBV	190845	267958	42.62%	3.905%

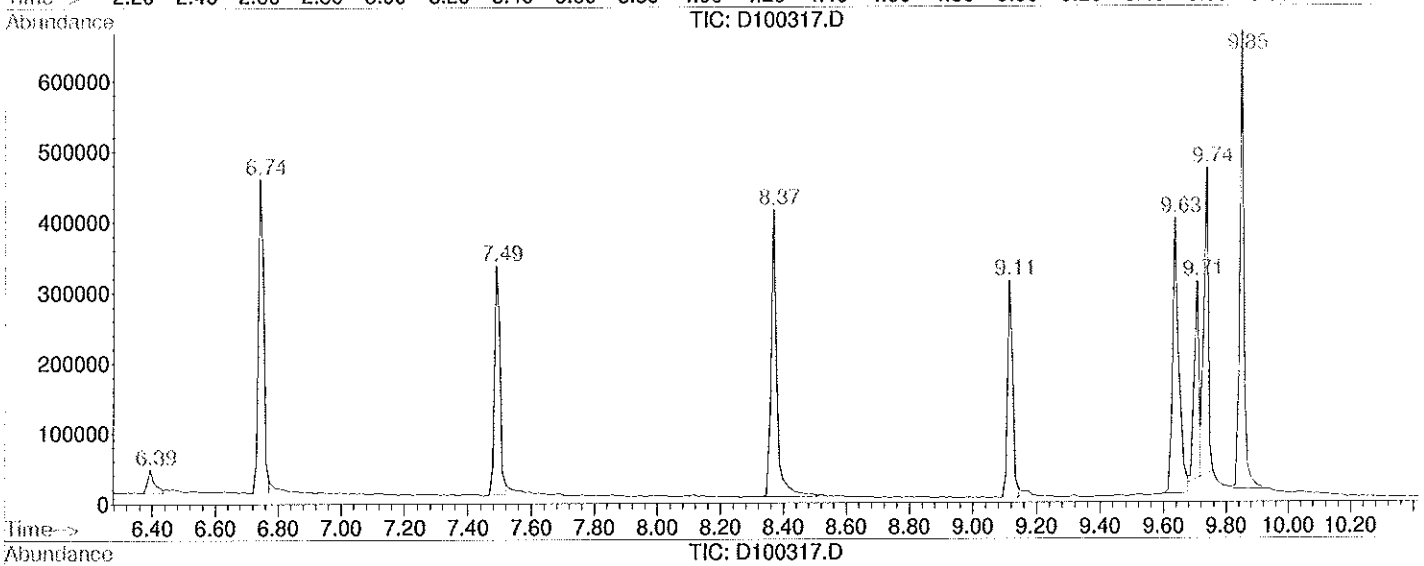
Sum of corrected areas: 6861429

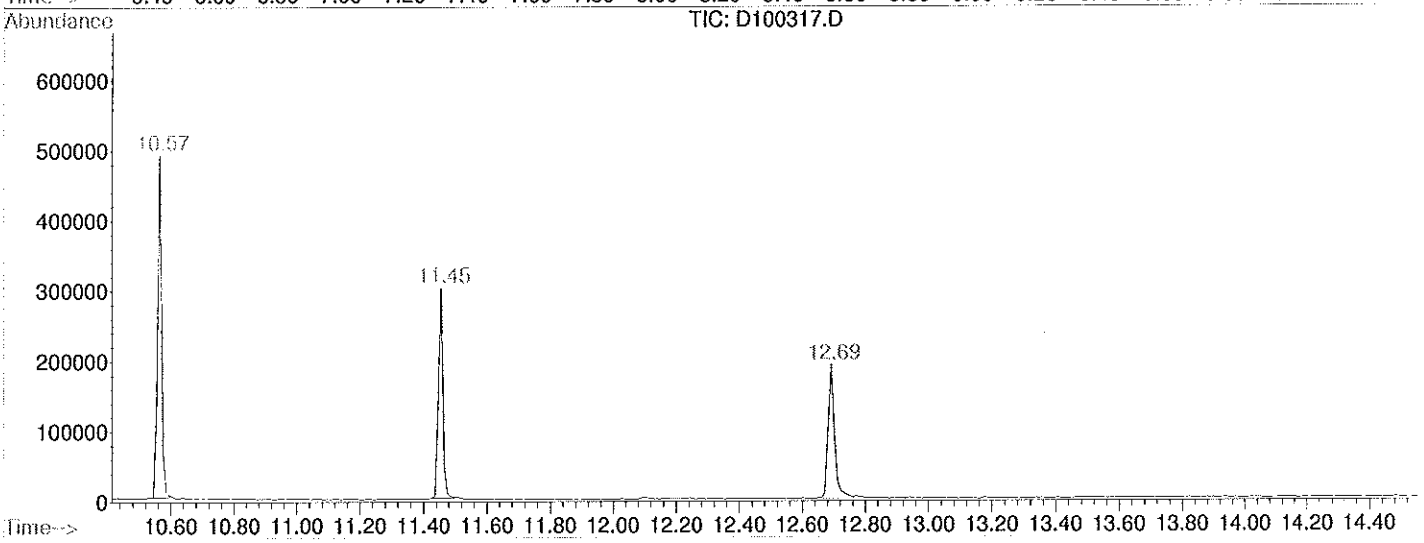
D100317.D SVOA0923.M Mon Oct 06 17:13:34 2008 SVOA4

LSC Report - Integrated Chromatogram

```
File        : C:\HPCHEM\1\DATA\D100308\D100317.D
Operator    : mills
Acquired    :  4 Oct 2008   1:52 am using AcqMethod 8270-AQ
Instrument  :   SVOA 4
Sample Name: ,samp,me0809c97-03b,1,
Misc Info   : 8270_w
Vial Number: 94
Quant File :SVOA0923.RES (RTE Integrator)
```







D100317.D SVOA0923.M Mon Oct 06 17:13:39 2008 SVOA4

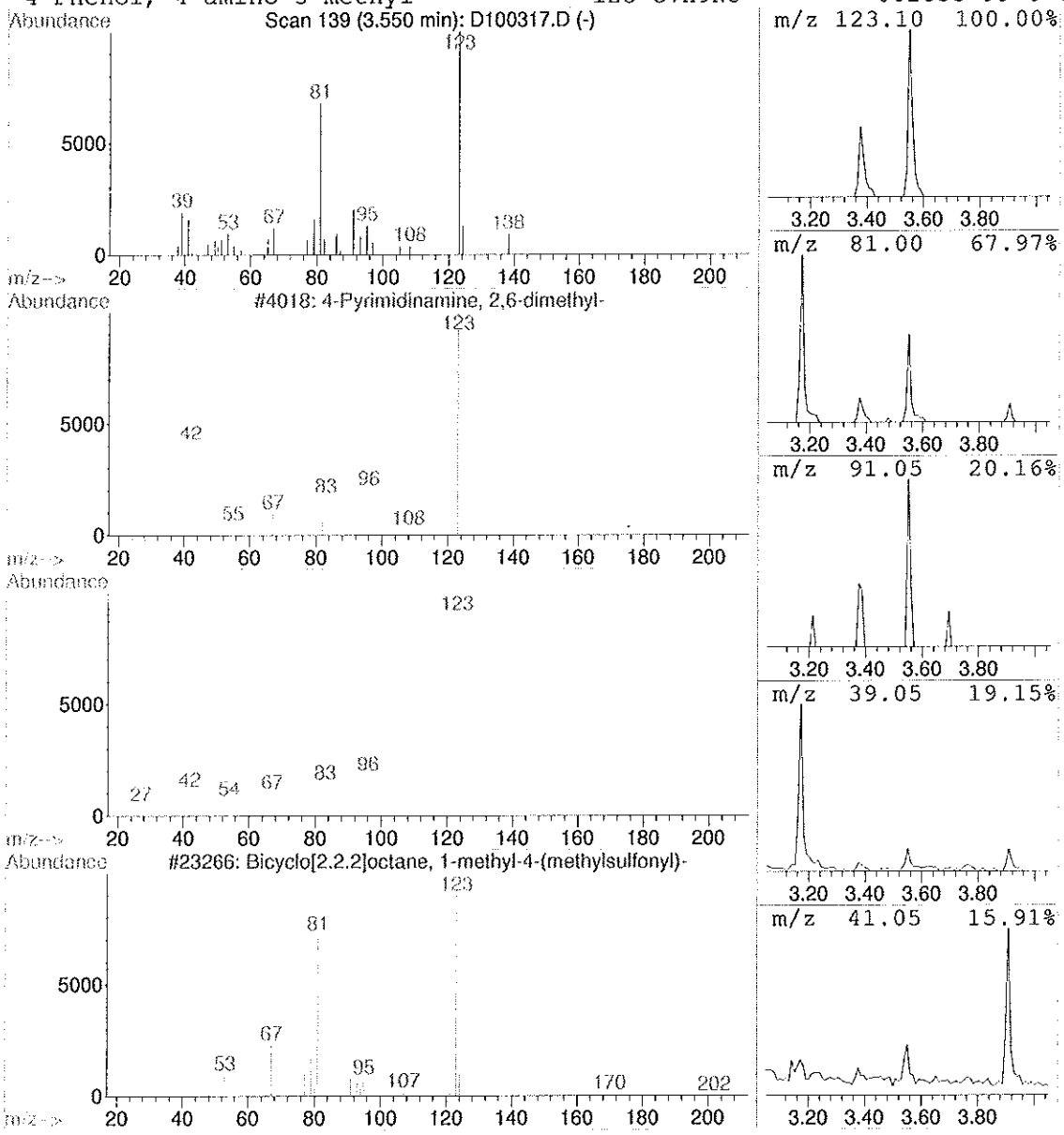
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100317.D          Vial: 94
Acq On    :  4 Oct 2008   1:52 am                    Operator: mills
Sample    : ,samp,me0809c97-03b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  1  4-Pyrimidinamine, 2,6-dimethyl  Concentration Rank  4
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	1.59 ug/ml	17826	1,4-Dichlorobenzene-d4	4.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Pyrimidinamine, 2,6-dimethyl-	123	C6H9N3	000461-98-3	59
2	4-Pyrimidinamine, 2,6-dimethyl-	123	C6H9N3	000461-98-3	47
3	Bicyclo[2.2.2]octane, 1-methyl-4-(m	202	C10H18O2S	069855-48-7	42
4	Phenol, 4-amino-3-methyl-	123	C7H9NO	002835-99-6	40



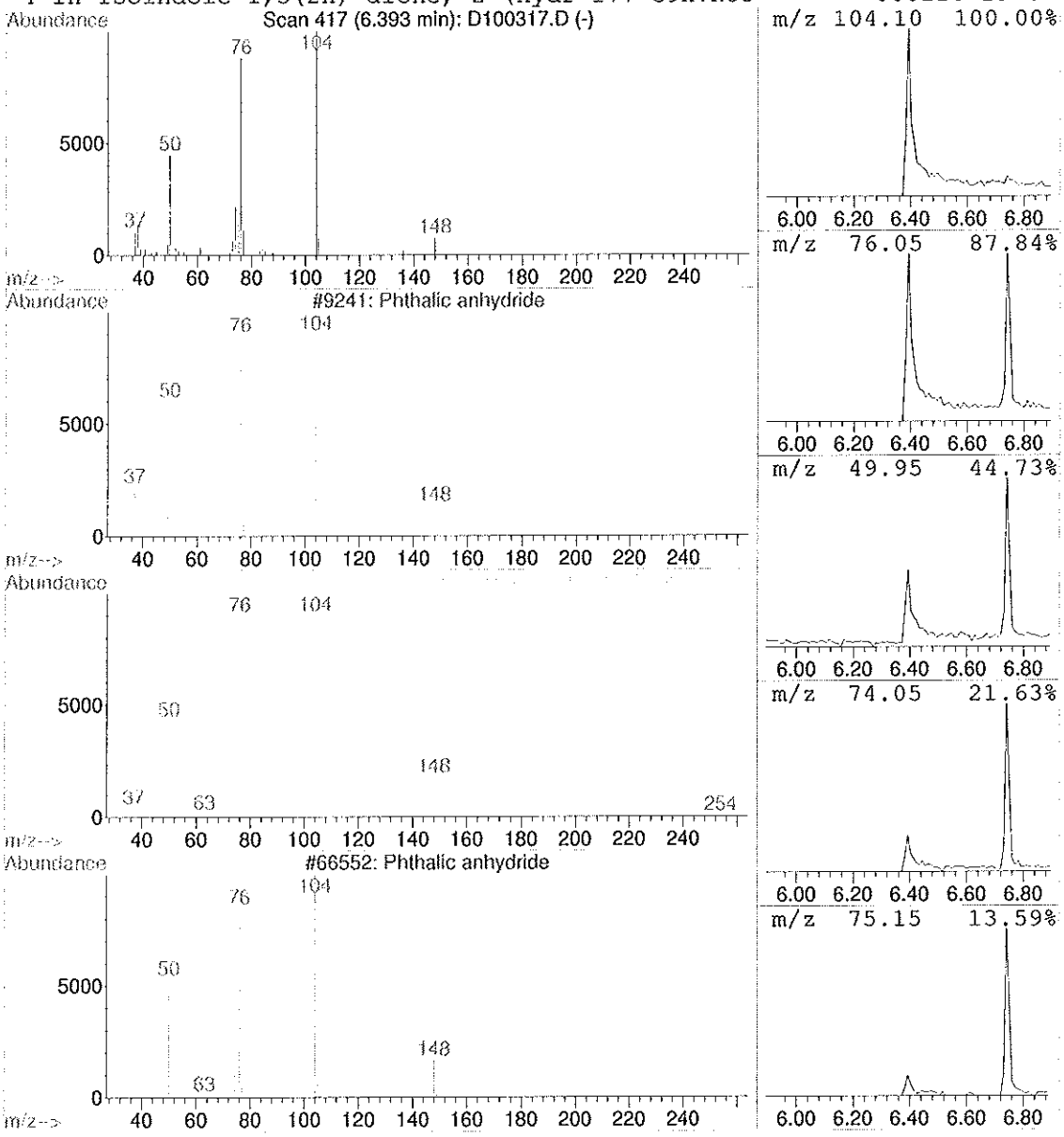
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100317.D          Vial: 94
Acq On    :  4 Oct 2008   1:52 am                     Operator: mills
Sample    : ,samp,me0809c97-03b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  2  Phthalic anhydride              Concentration Rank  3
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.39	4.88 ug/ml	54379	Naphthalene-d8	5.58

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic anhydride	148	C8H4O3	000085-44-9	91
2	Benzoic acid, 2-[[[4-[(acetylamino)	362	C16H14N2O6S	000131-69-1	86
3	Phthalic anhydride	148	C8H4O3	000085-44-9	78
4	1H-Isoindole-1,3(2H)-dione, 2-(hydr	177	C9H7NO3	000118-29-6	72



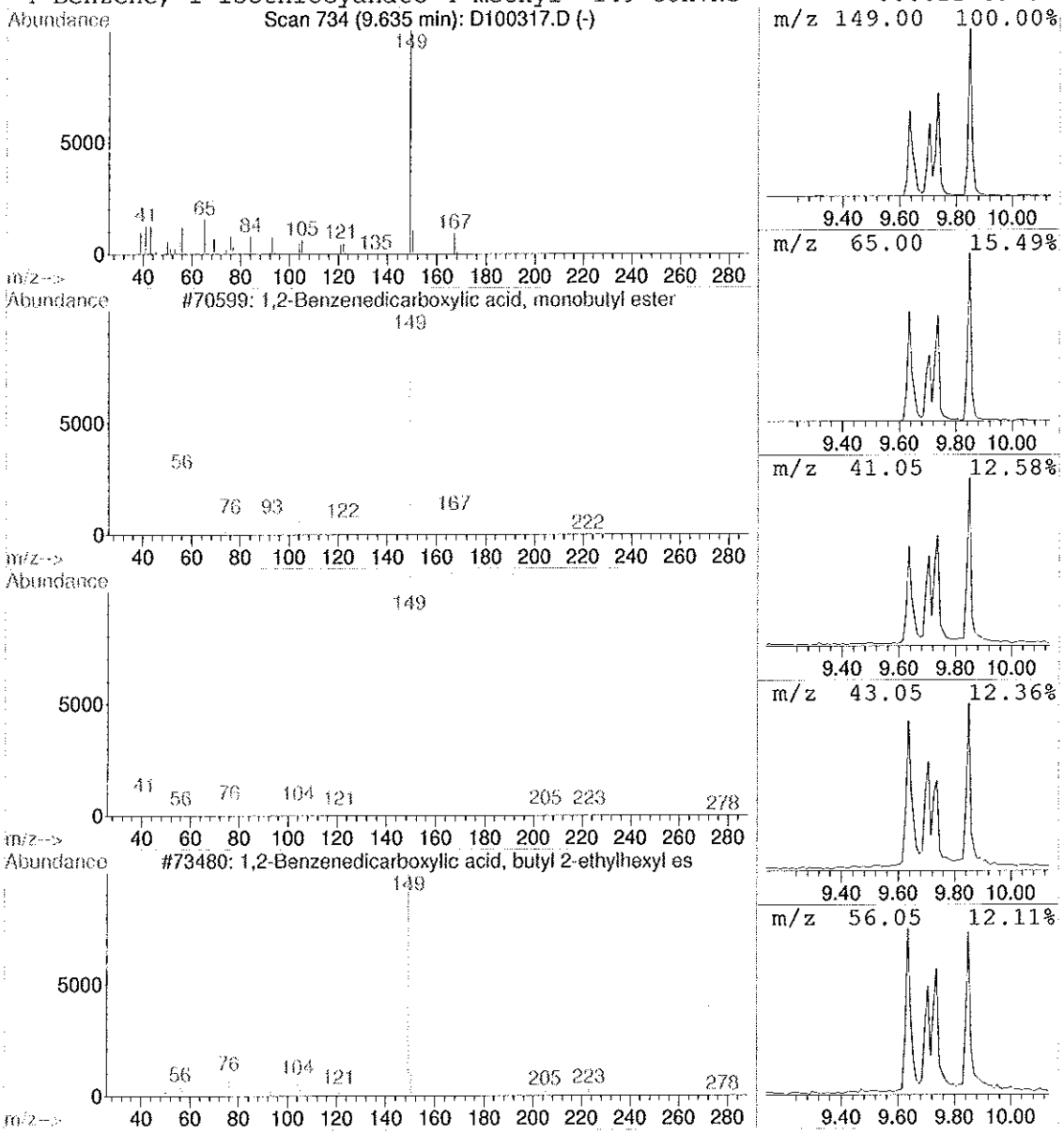
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100317.D          Vial: 94
Acq On    :  4 Oct 2008   1:52 am                     Operator: mills
Sample    : ,samp,me0809c97-03b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  3  1,2-Benzenedicarboxylic acid,   Concentration Rank  2
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.63	61.72 ug/ml	542890	Phenanthrene-d10	9.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, monob	222	C12H14O4	000131-70-4	86
2	Dibutyl phthalate	278	C16H22O4	000084-74-2	59
3	1,2-Benzenedicarboxylic acid, butyl	334	C20H30O4	000085-69-8	50
4	Benzene, 1-isothiocyanato-4-methyl-	149	C8H7NS	000622-59-3	45



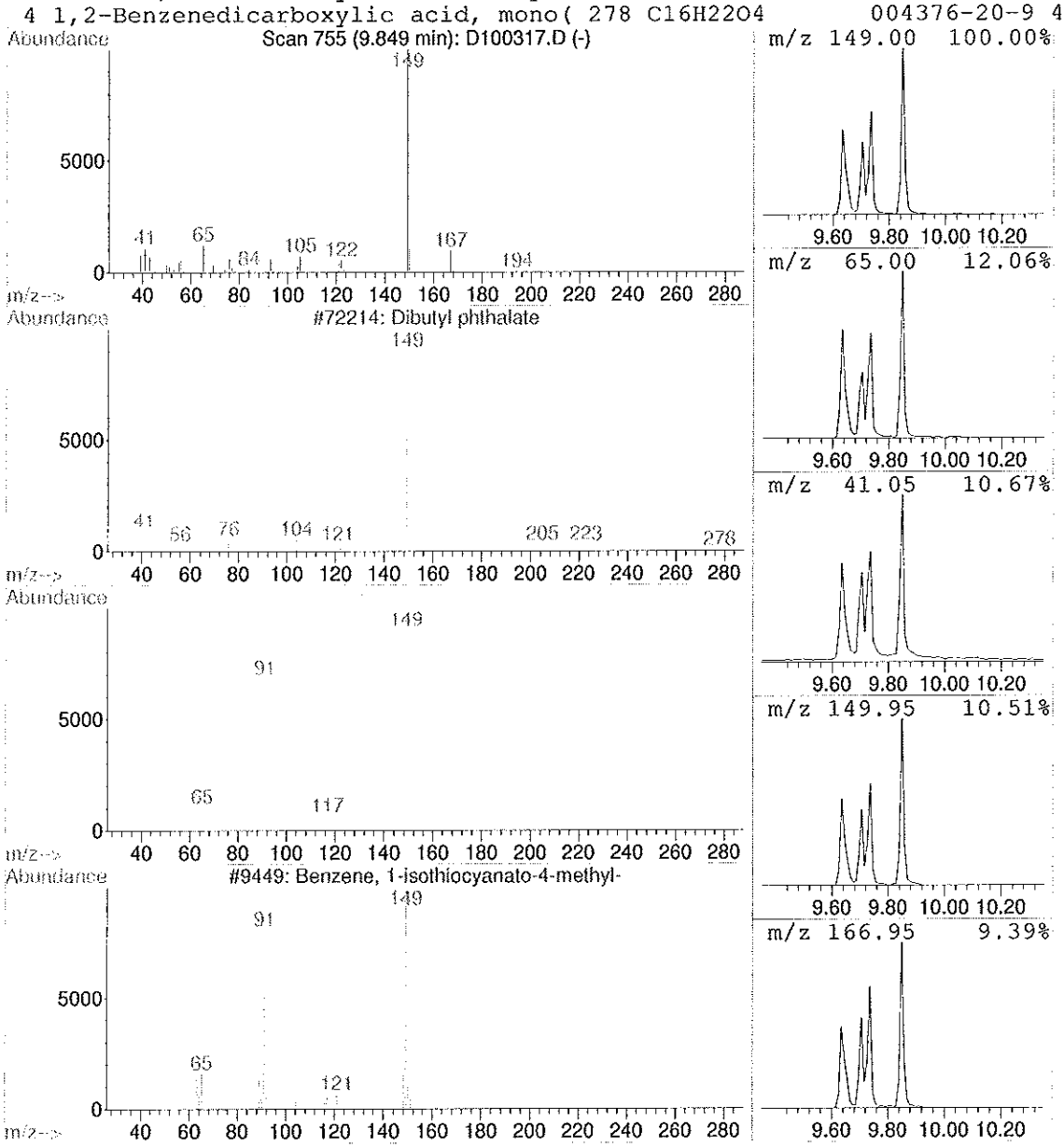
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100317.D          Vial: 94
Acq On    :  4 Oct 2008   1:52 am                     Operator: mills
Sample    : ,samp,me0809c97-03b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  4  Dibutyl phthalate              Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	71.48 ug/ml	628738	Phenanthrene-d10	9.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibutyl phthalate	278	C16H22O4	000084-74-2	59
2	m-Tolyl isothiocyanate	149	C8H7NS	000621-30-7	50
3	Benzene, 1-isothiocyanato-4-methyl-	149	C8H7NS	000622-59-3	50
4	1,2-Benzenedicarboxylic acid, mono(	278	C16H22O4	004376-20-9	45



Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWC-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-04B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100318.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituted Furan	3.55	2.2	
	Unknown	4.40	1.0	
	Unknown	5.52	0.5	

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100318.D Vial: 95
Acq On : 4 Oct 2008 2:18 am Operator: mills
Sample : ,samp,me0809c97-04b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

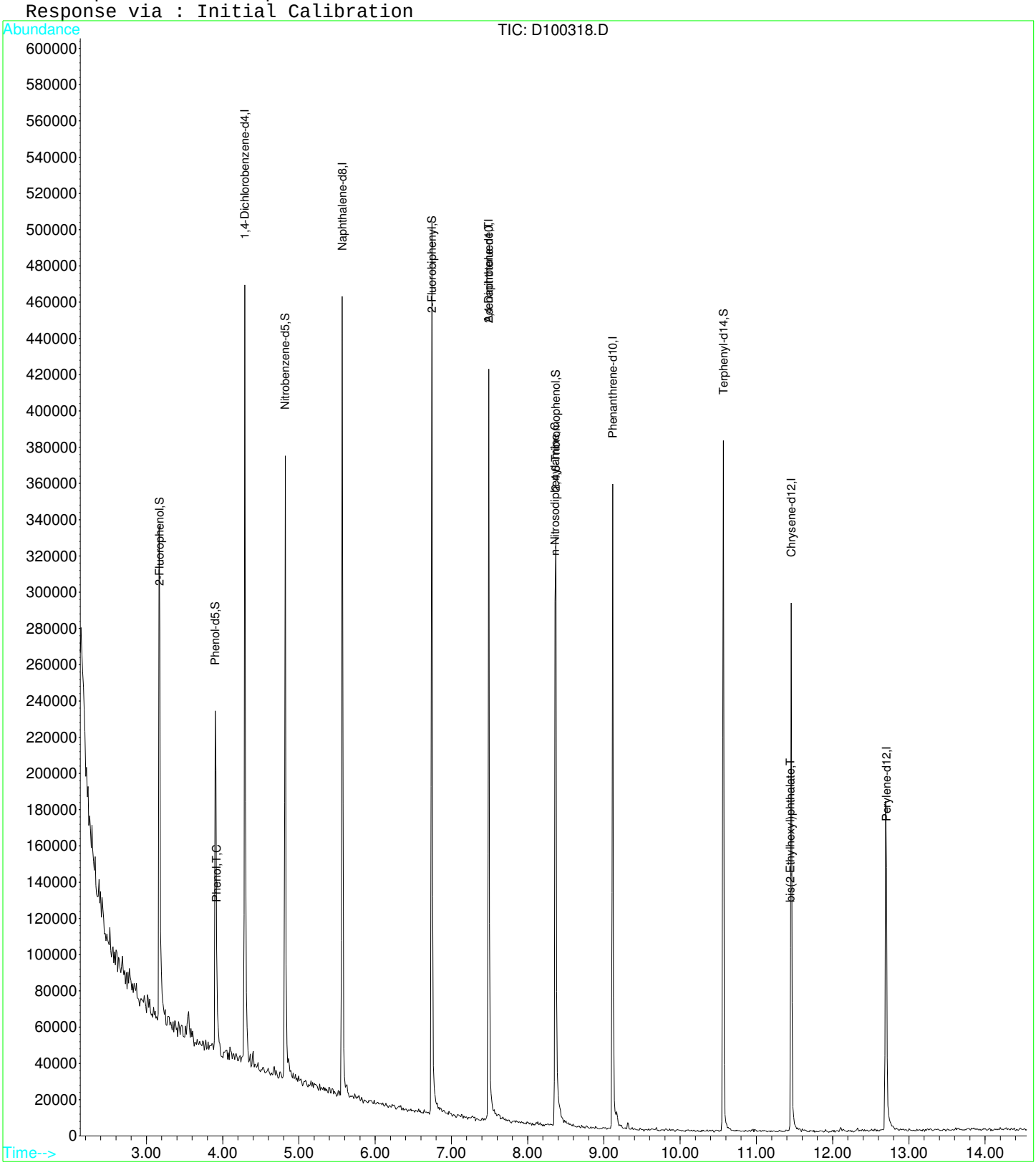
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	67330	40.00	ug/ml	0.00
19) Naphthalene-d8	5.57	136	204023	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.49	164	94535	40.00	ug/ml	0.00
56) Phenanthrene-d10	9.12	188	117518	40.00	ug/ml	0.00
69) Chrysene-d12	11.46	240	93774	40.00	ug/ml	0.00
78) Perylene-d12	12.71	264	89144	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	3.18	112	93706	45.03	ug/ml	0.00
5) Phenol-d5	3.90	99	76944	30.29	ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	115784	50.39	ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	158506	54.03	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	41879	89.26	ug/ml	0.00
72) Terphenyl-d14	10.57	244	116284	56.90	ug/ml	0.00
Target Compounds						Qvalue
6) Phenol	3.92	94	9450	3.78	ug/ml	95
51) 2,4-Dinitrotoluene	7.49	165	9635	10.42	ug/ml#	34
58) n-Nitrosodiphenylamine	8.36	169	1745	0.49	ug/ml#	30
77) bis(2-Ethylhexyl)phthalate	11.45	149	1631	0.56	ug/ml#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100318.D Vial: 95
Acq On : 4 Oct 2008 2:18 am Operator: mills
Sample : ,samp,me0809c97-04b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: mills Date Acquired: 4 Oct 2008 2:18 am
Data File: C:\HPCHEM\1\DATA\D100308\D100318.D
Name: ,samp,me0809c97-04b,1,
Misc: 8270_w
Method: C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title: BNA Quantitation
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Furan, 2-(1,1-dimeth	3.55	2.2	ug/ml	23840	ISTD01	4.29	442813	40.0
Methane, chlorotrini	4.40	1.0	ug/ml	10796	ISTD01	4.29	442813	40.0
Nitrosyl chloride	5.52	0.5	ug/ml	5537	ISTD02	5.57	445933	40.0

D100318.D SVOA0923.M Mon Oct 06 17:14:09 2008 SVOA4

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\D100308\D100318.D Vial: 95
Acq On : 4 Oct 2008 2:18 am Operator: mills
Sample : ,samp,me0809c97-04b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

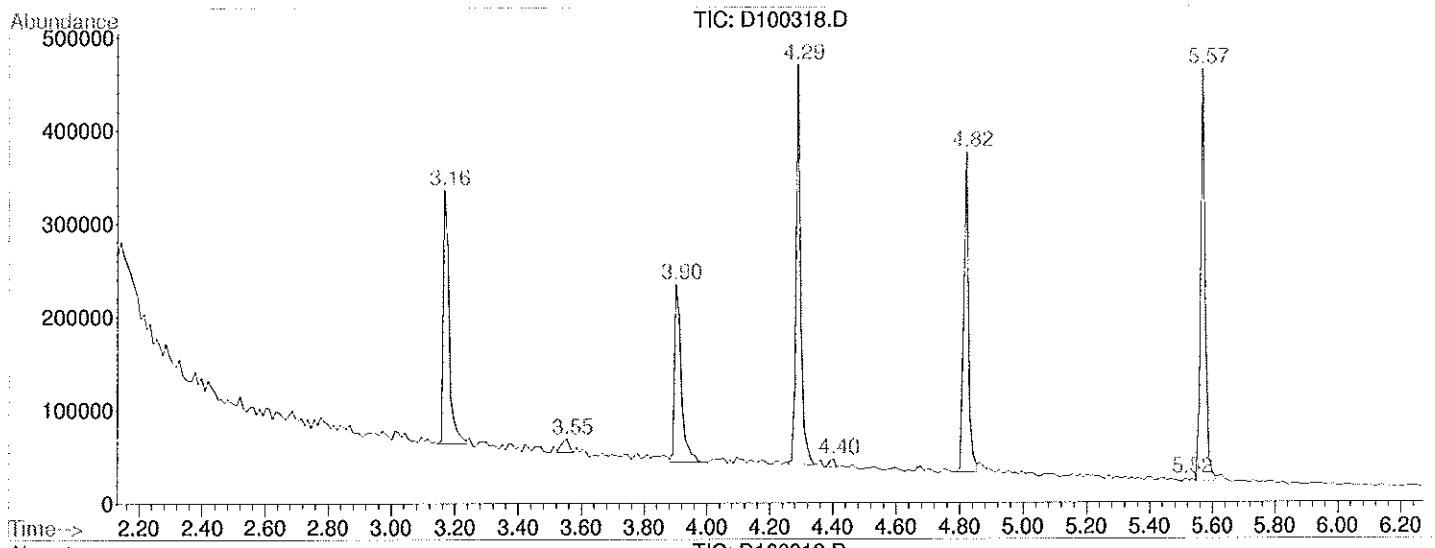
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.165	100	102	109	rBV	272453	367446	69.57%	7.756%
2	3.553	137	140	142	rVB2	14291	23840	4.51%	0.503%
3	3.901	172	174	182	rVB2	190773	290778	55.05%	6.138%
4	4.290	209	212	217	rVV	428802	442813	83.84%	9.347%
5	4.402	220	223	224	rVB3	8879	10796	2.04%	0.228%
6	4.821	261	264	267	rBV	342613	359610	68.08%	7.590%
7	5.517	330	332	335	rBV4	3471	5537	1.05%	0.117%
8	5.568	335	337	341	rBV	440718	445933	84.43%	9.412%
9	6.744	449	452	458	rBV	492741	528192	100.00%	11.149%
10	7.490	522	525	528	rBV	413005	430140	81.44%	9.079%
11	8.370	608	611	621	rBV	324217	489435	92.66%	10.331%
12	9.116	681	684	688	rBV	355572	363811	68.88%	7.679%
13	10.568	823	826	828	rBV	380939	398045	75.36%	8.402%
14	11.458	910	913	922	rBV	291190	305664	57.87%	6.452%
15	12.695	1031	1034	1046	rBV	181397	275647	52.19%	5.818%

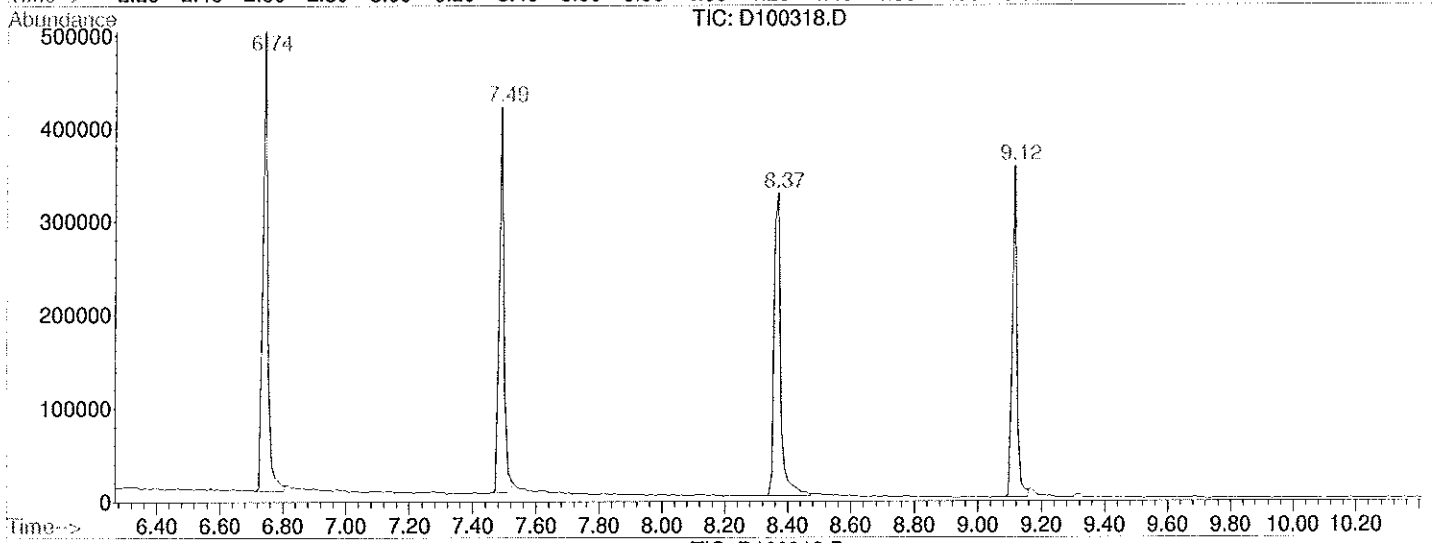
Sum of corrected areas: 4737687

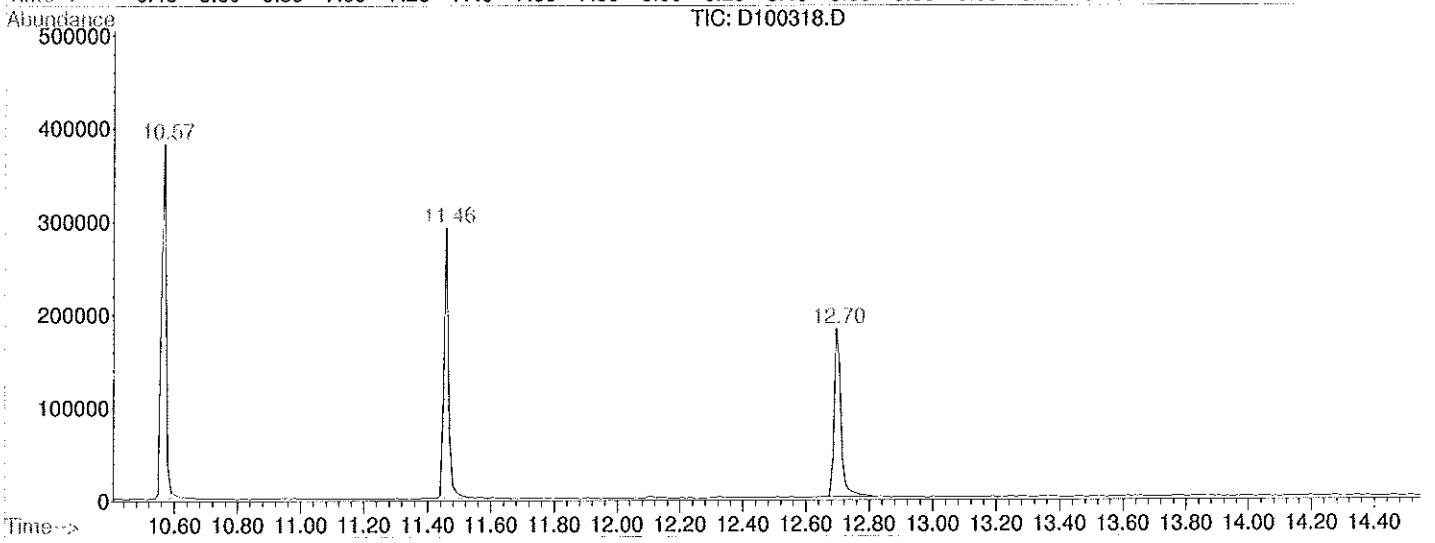
D100318.D SVOA0923.M Mon Oct 06 17:13:55 2008 SVOA4

LSC Report - Integrated Chromatogram

```
File        : C:\HPCHEM\1\DATA\D100308\D100318.D
Operator    : mills
Acquired    :  4 Oct 2008   2:18 am using AcqMethod 8270-AQ
Instrument  :   SVOA 4
Sample Name: ,samp,me0809c97-04b,1,
Misc Info   : 8270_w
Vial Number: 95
Quant File :SVOA0923.RES (RTE Integrator)
```







D100318.D SVOA0923.M Mon Oct 06 17:13:59 2008 SVOA4

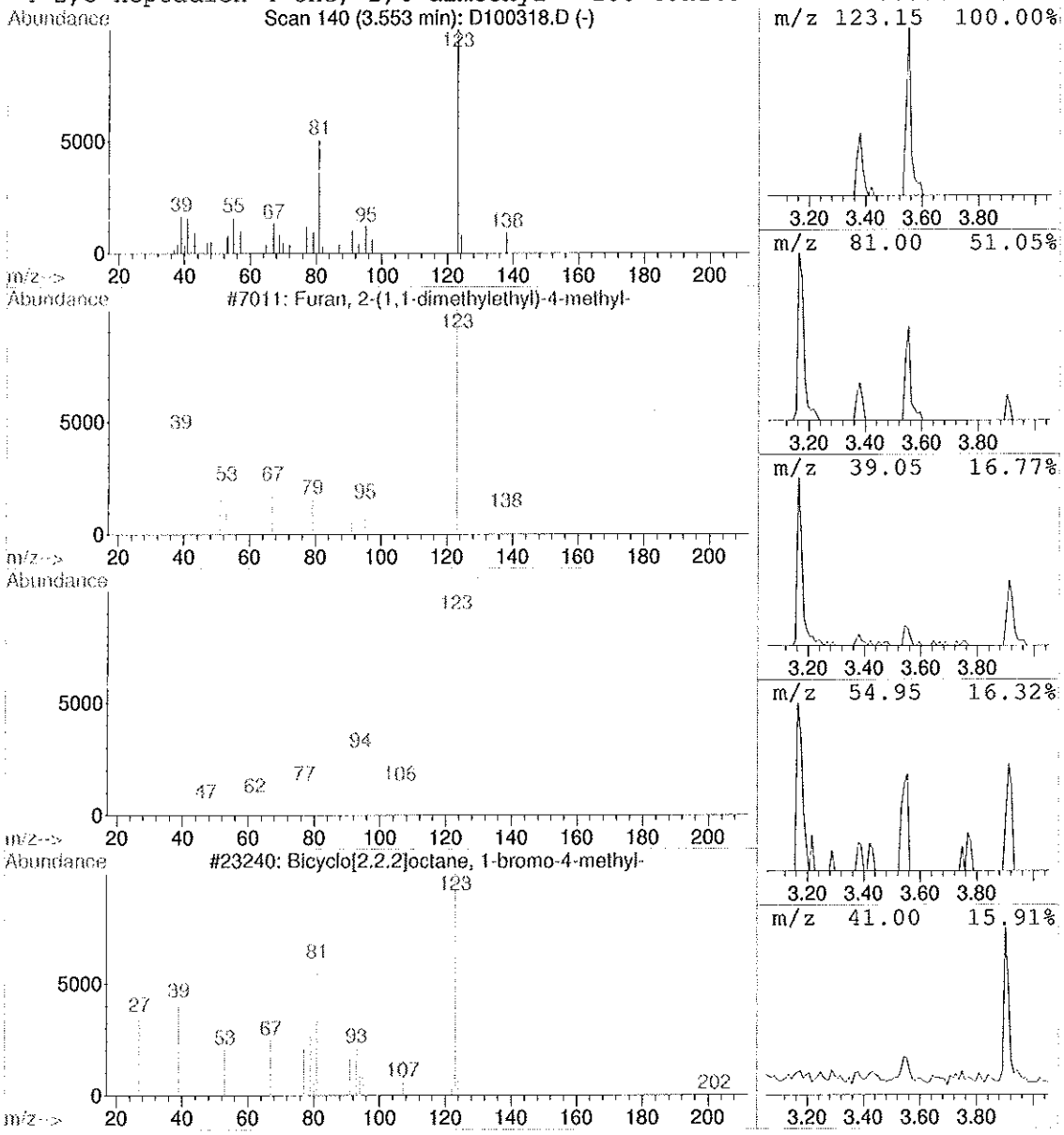
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100318.D          Vial: 95
Acq On    :  4 Oct 2008   2:18 am                    Operator: mills
Sample    : ,samp,me0809c97-04b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  1  Furan, 2-(1,1-dimethylethyl)-4  Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	2.15 ug/ml	23840	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2-(1,1-dimethylethyl)-4-meth	138	C9H14O	006141-68-0	74
2	Phenol, 4-amino-2-methyl-	123	C7H9NO	002835-96-3	47
3	Bicyclo[2.2.2]octane, 1-bromo-4-met	202	C9H15Br	000697-40-5	45
4	2,5-Heptadien-4-one, 2,6-dimethyl-	138	C9H14O	000504-20-1	42



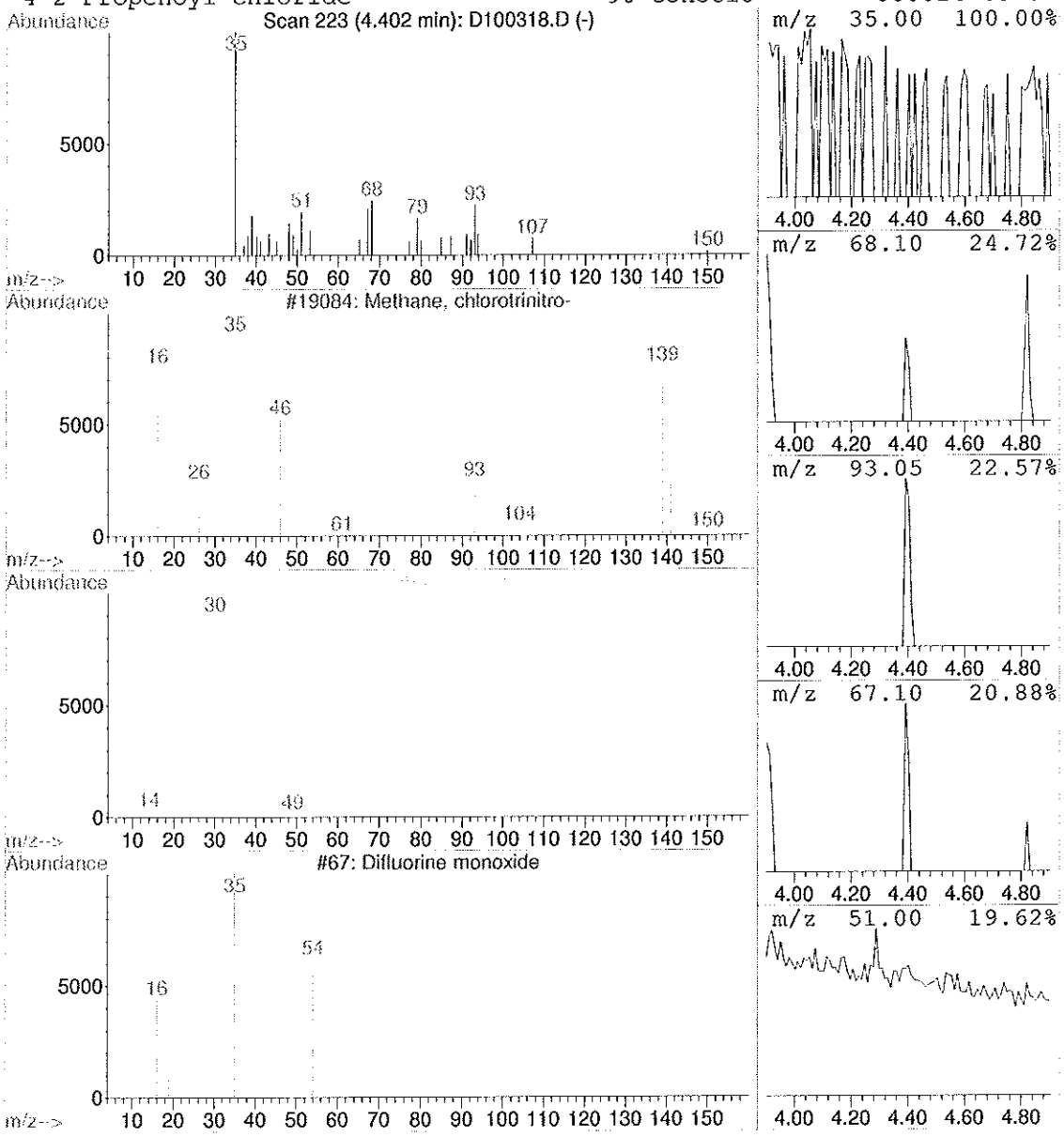
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100318.D          Vial: 95
Acq On    :  4 Oct 2008   2:18 am                    Operator: mills
Sample    : ,samp,me0809c97-04b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  2  Methane, chlorotrinitro-        Concentration Rank  2
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.40	0.98 ug/ml	10796	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, chlorotrinitro-	185	CClN3O6	001943-16-4	4
2	Nitrosyl chloride	65	ClNO	002696-92-6	2
3	Difluorine monoxide	54	F2O	007783-41-7	1
4	2-Propenoyl chloride	90	C3H3ClO	000814-68-6	1



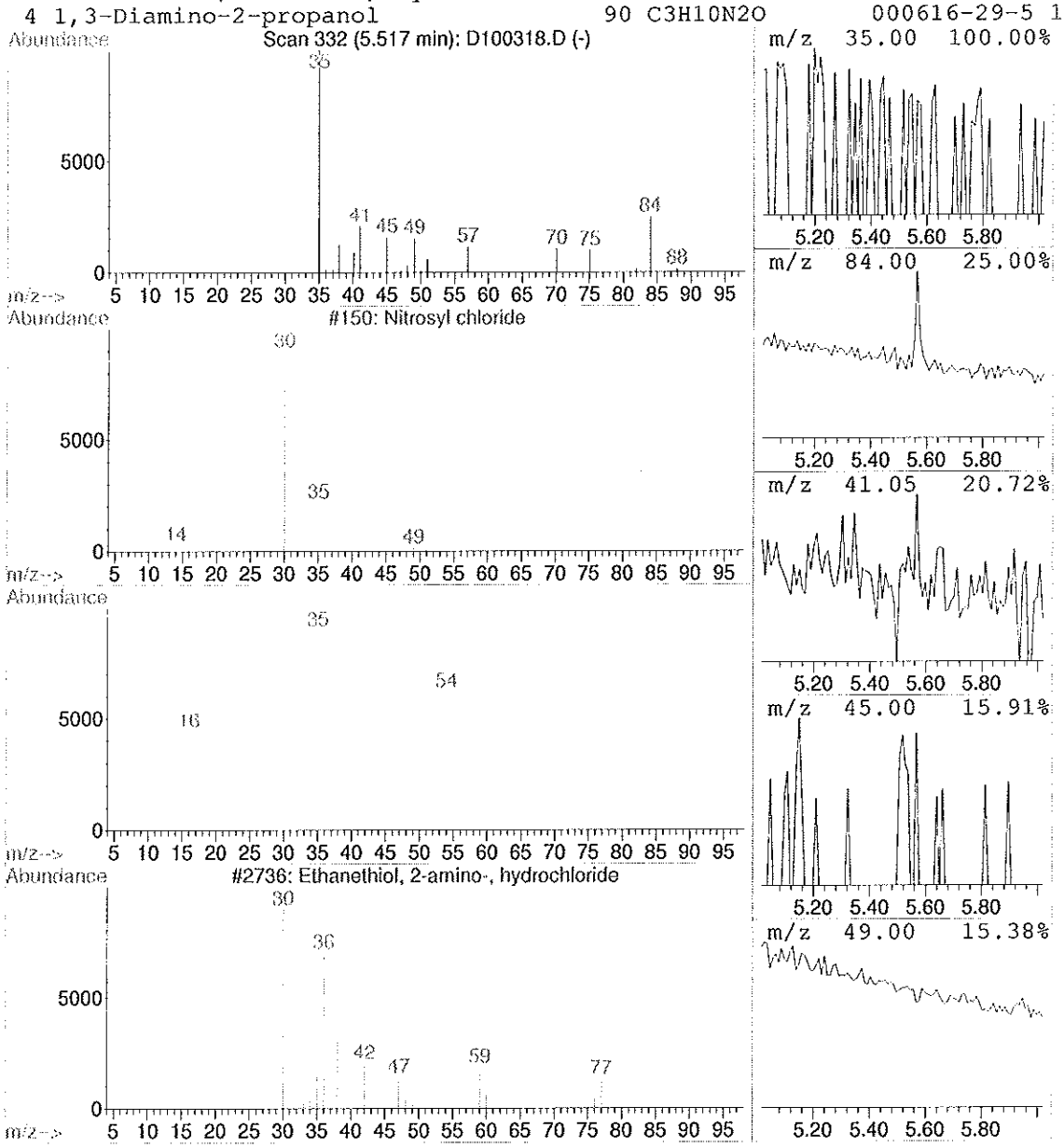
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100318.D          Vial: 95
Acq On    :  4 Oct 2008   2:18 am                     Operator: mills
Sample    : ,samp,me0809c97-04b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  3  Nitrosyl chloride              Concentration Rank  3
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.52	0.50 ug/ml	5537	Naphthalene-d8	5.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitrosyl chloride	65	ClNO	002696-92-6	2
2	Difluorine monoxide	54	F2O	007783-41-7	1
3	Ethanethiol, 2-amino-, hydrochlorid	113	C2H8ClNS	000156-57-0	1
4	1,3-Diamino-2-propanol	90	C3H10N2O	000616-29-5	1



Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWT-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-05B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100319.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Amine	3.55	1.8	
	Unknown	4.40	1.7	
	Unknown	5.15	0.6	
	Unknown	9.16	1.6	

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100319.D Vial: 96
Acq On : 4 Oct 2008 2:43 am Operator: mills
Sample : ,samp,me0809c97-05b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

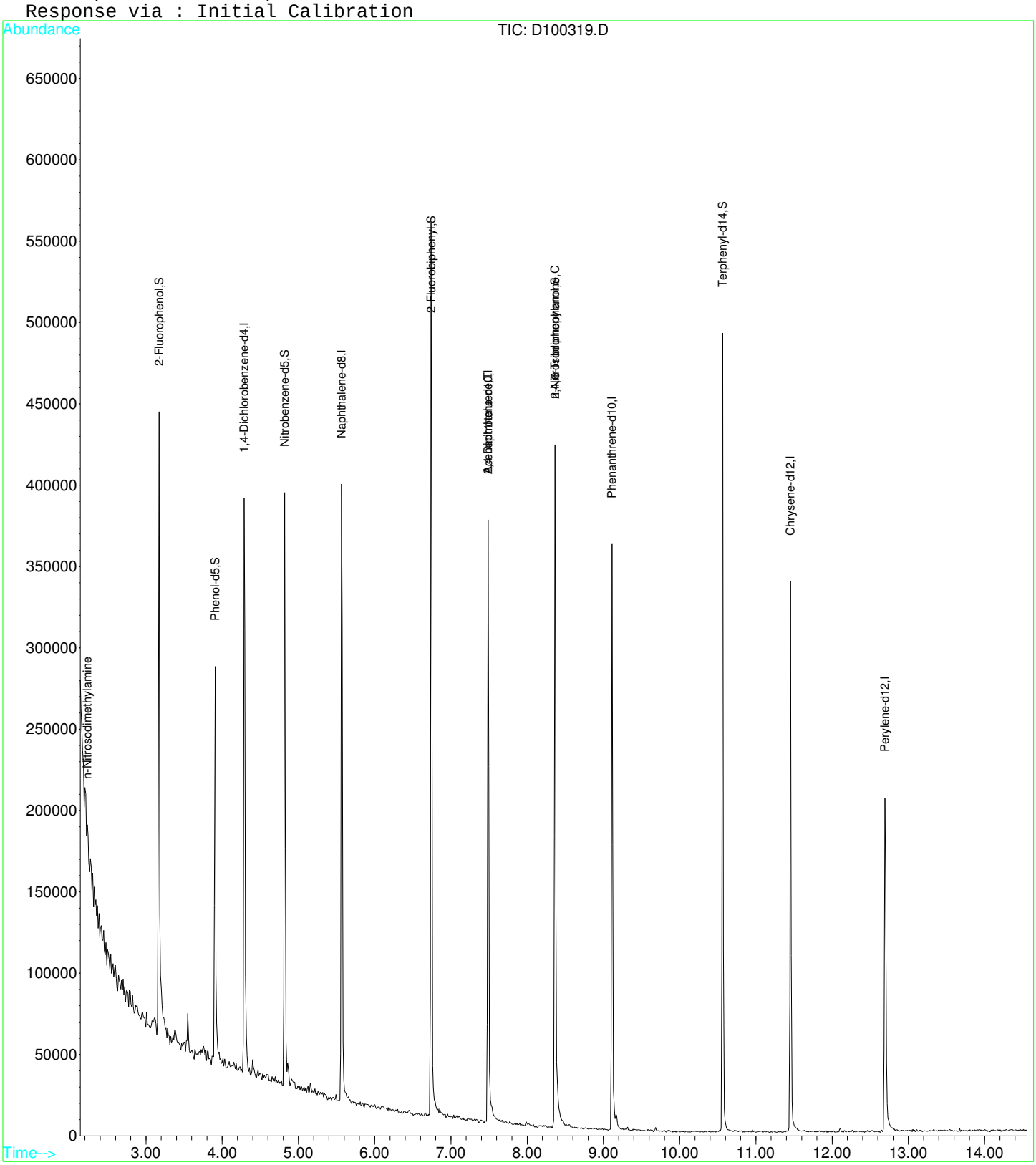
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	67842	40.00 ug/ml	0.00
19) Naphthalene-d8	5.56	136	212092	40.00 ug/ml	0.00
36) Acenaphthene-d10	7.49	164	97807	40.00 ug/ml	0.00
56) Phenanthrene-d10	9.11	188	126680	40.00 ug/ml	0.00
69) Chrysene-d12	11.45	240	106406	40.00 ug/ml	0.00
78) Perylene-d12	12.69	264	100137	40.00 ug/ml	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	3.17	112	103025	49.13 ug/ml	0.00
5) Phenol-d5	3.91	99	84308	32.94 ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	119467	50.01 ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	173595	57.20 ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	43570	86.15 ug/ml	0.00
72) Terphenyl-d14	10.56	244	130286	56.18 ug/ml	0.00
Target Compounds					Qvalue
3) n-Nitrosodimethylamine	2.23	74	802	0.64 ug/ml#	17
51) 2,4-Dinitrotoluene	7.49	165	10482	10.96 ug/ml#	38
58) n-Nitrosodiphenylamine	8.37	169	1997	0.52 ug/ml#	37

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100319.D Vial: 96
Acq On : 4 Oct 2008 2:43 am Operator: mills
Sample : ,samp,me0809c97-05b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: mills Date Acquired: 4 Oct 2008 2:43 am
Data File: C:\HPCHEM\1\DATA\D100308\D100319.D
Name: ,samp,me0809c97-05b,1,
Misc: 8270_w
Method: C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title: BNA Quantitation
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
4-Pyrimidinamine, 2,	3.55	1.8	ug/ml	20689	ISTD01	4.29	455553	40.0
Difluorine monoxide	4.40	1.7	ug/ml	18842	ISTD01	4.29	455553	40.0
1-Trichlorosilyl-1-t	5.15	0.6	ug/ml	6918	ISTD02	5.56	458911	40.0
N-(Methylsulfonyl)-O	9.16	1.6	ug/ml	15321	ISTD04	9.11	381623	40.0

D100319.D SVOA0923.M Mon Oct 06 17:14:29 2008 SVOA4

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\D100308\D100319.D Vial: 96
Acq On : 4 Oct 2008 2:43 am Operator: mills
Sample : ,samp,me0809c97-05b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

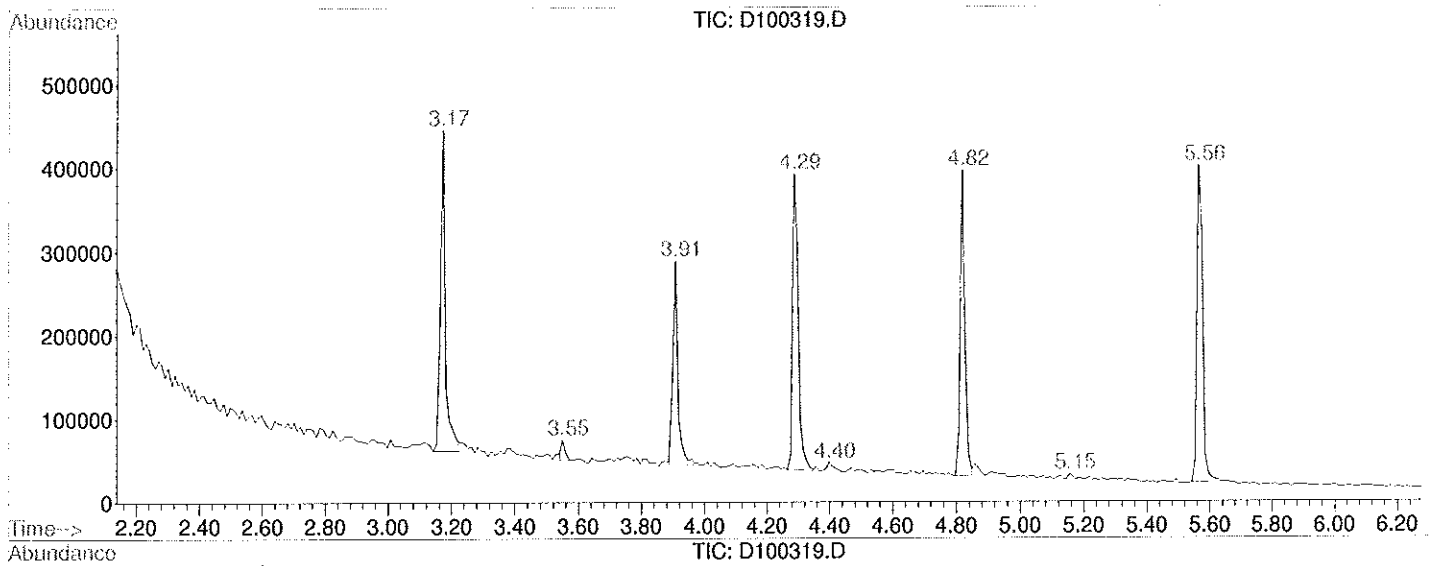
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.171	99	102	107	rBV	383420	419598	72.94%	8.303%
2	3.549	138	139	142	rVB	24264	20689	3.60%	0.409%
3	3.907	172	174	182	rVB	244074	276628	48.09%	5.474%
4	4.286	209	211	217	rBV	353107	455553	79.19%	9.014%
5	4.398	220	222	227	rVB4	11332	18842	3.28%	0.373%
6	4.817	261	263	266	rBV	364584	367032	63.80%	7.263%
7	5.155	294	296	298	rBV3	6338	6918	1.20%	0.137%
8	5.564	334	336	339	rBV	378567	458911	79.77%	9.081%
9	6.740	449	451	454	rBV	549461	575259	100.00%	11.383%
10	7.486	522	524	527	rBV	369963	425309	73.93%	8.416%
11	8.366	607	610	623	rBV	419147	527383	91.68%	10.436%
12	9.112	680	683	686	rBV	359814	381623	66.34%	7.551%
13	9.163	687	688	696	rVB	9228	15321	2.66%	0.303%
14	10.564	822	825	828	rBV	490357	445761	77.49%	8.821%
15	11.454	909	912	924	rVB	337960	347598	60.42%	6.878%
16	12.691	1030	1033	1046	rBV	205440	311256	54.11%	6.159%

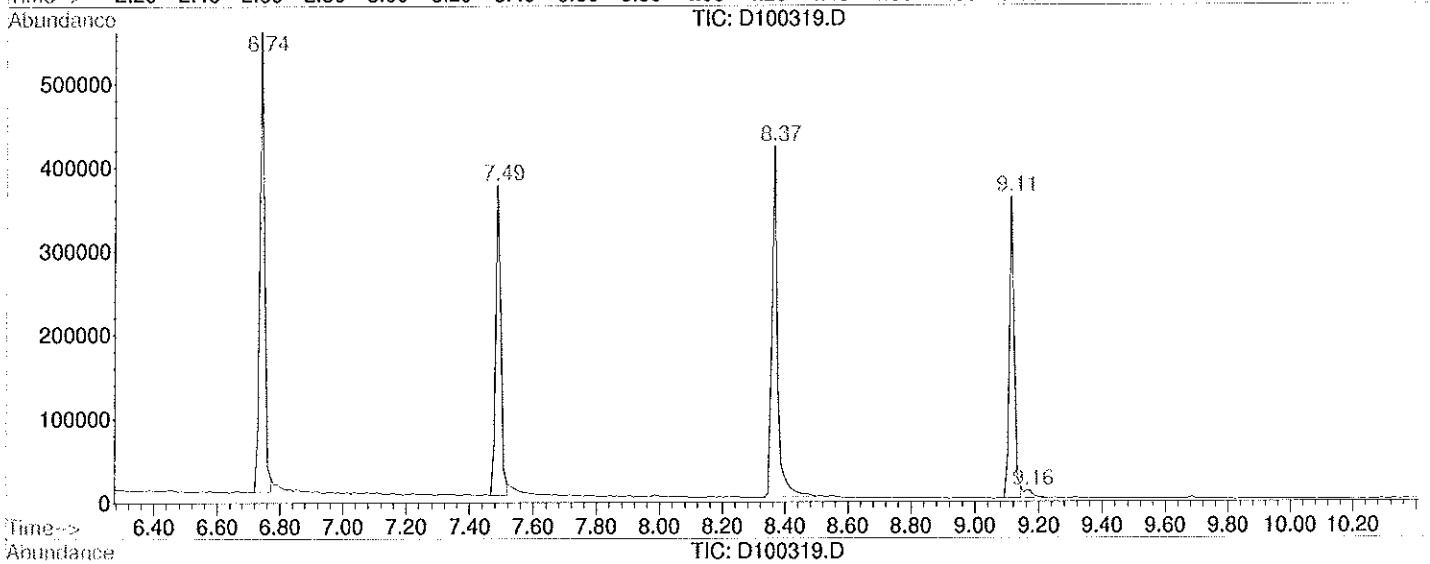
Sum of corrected areas: 5053681

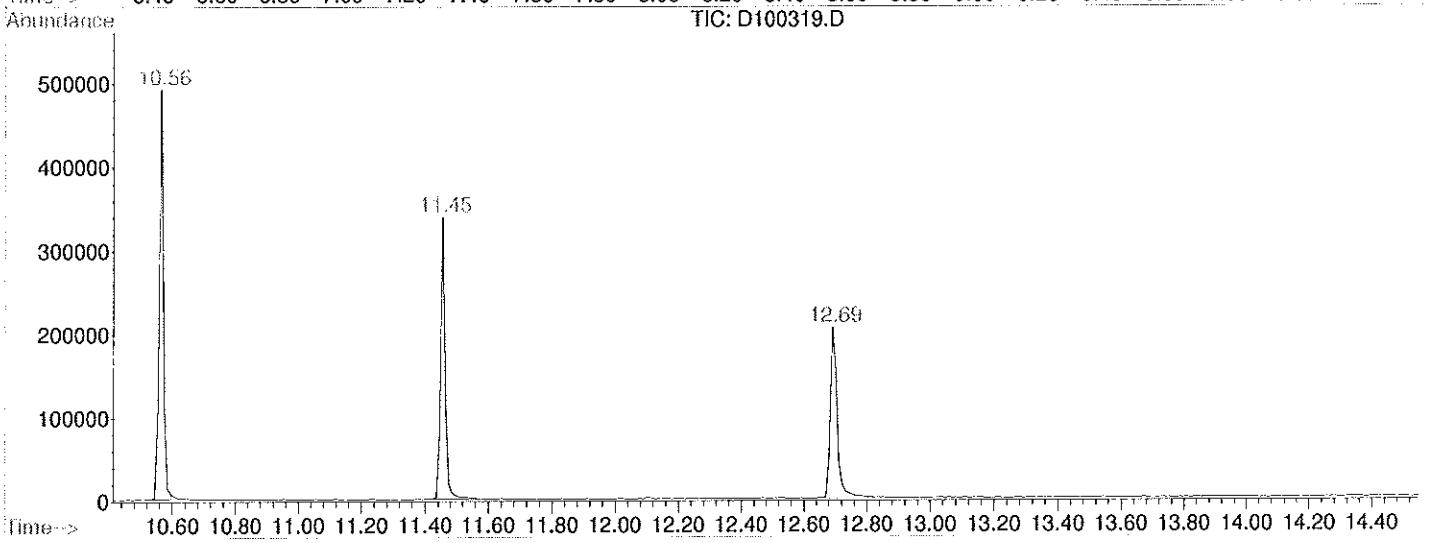
D100319.D SVOA0923.M Mon Oct 06 17:14:12 2008 SVOA4

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\D100308\D100319.D
Operator : mills
Acquired : 4 Oct 2008 2:43 am using AcqMethod 8270-AQ
Instrument : SVOA 4
Sample Name: ,samp,me0809c97-05b,1,
Misc Info : 8270_w
Vial Number: 96
Quant File :SVOA0923.RES (RTE Integrator)







D100319.D SVOA0923.M Mon Oct 06 17:14:16 2008 SVOA4

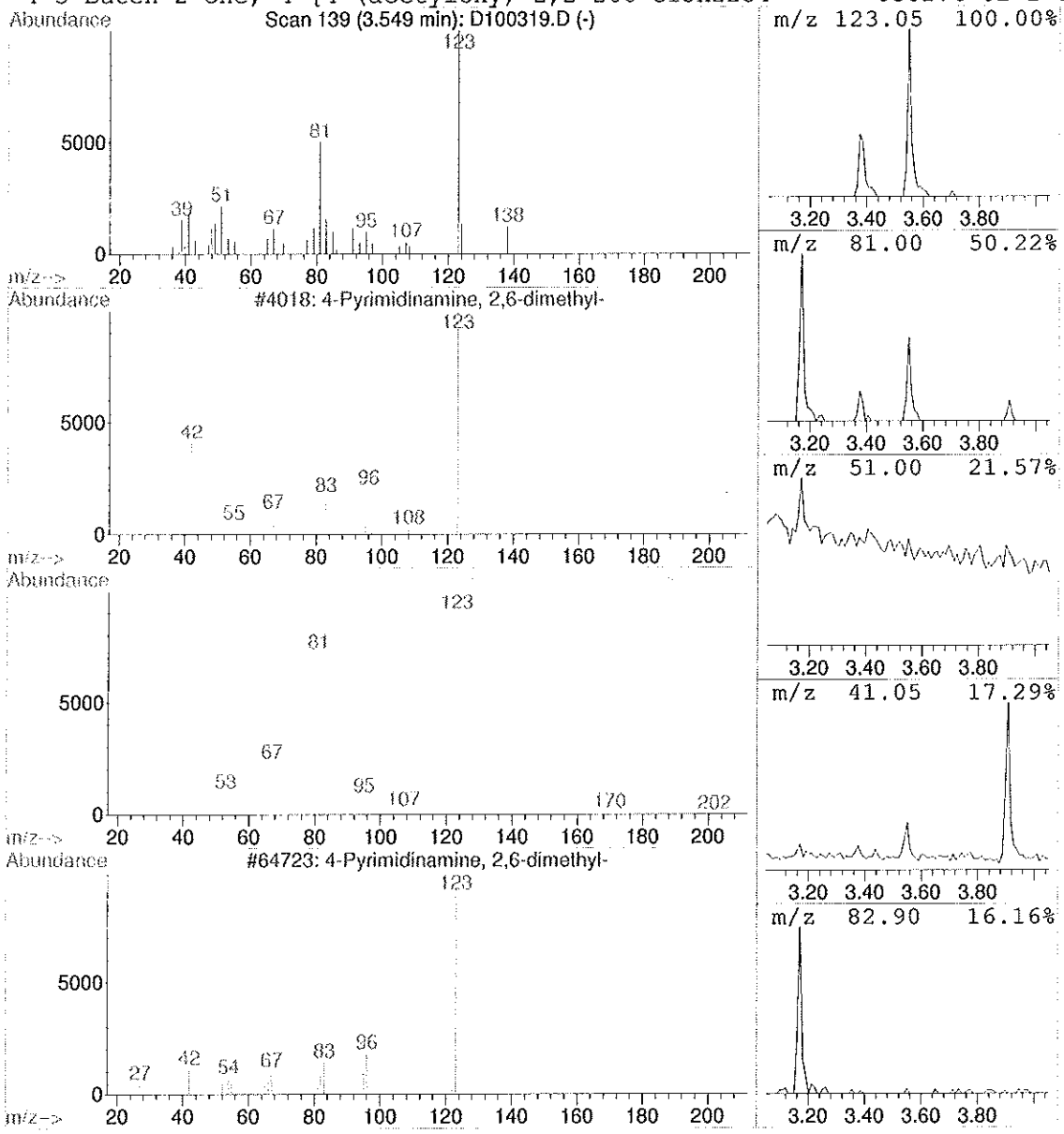
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100319.D          Vial: 96
Acq On    :  4 Oct 2008   2:43 am                     Operator: mills
Sample    : ,samp,me0809c97-05b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  1  4-Pyrimidinamine, 2,6-dimethyl  Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	1.82 ug/ml	20689	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Pyrimidinamine, 2,6-dimethyl-	123	C6H9N3	000461-98-3	49
2	Bicyclo[2.2.2]octane, 1-methyl-4-(m	202	C10H18O2S	069855-48-7	43
3	4-Pyrimidinamine, 2,6-dimethyl-	123	C6H9N3	000461-98-3	38
4	3-Buten-2-one, 4-[4-(acetyloxy)-2,2	266	C15H22O4	038274-02-1	32



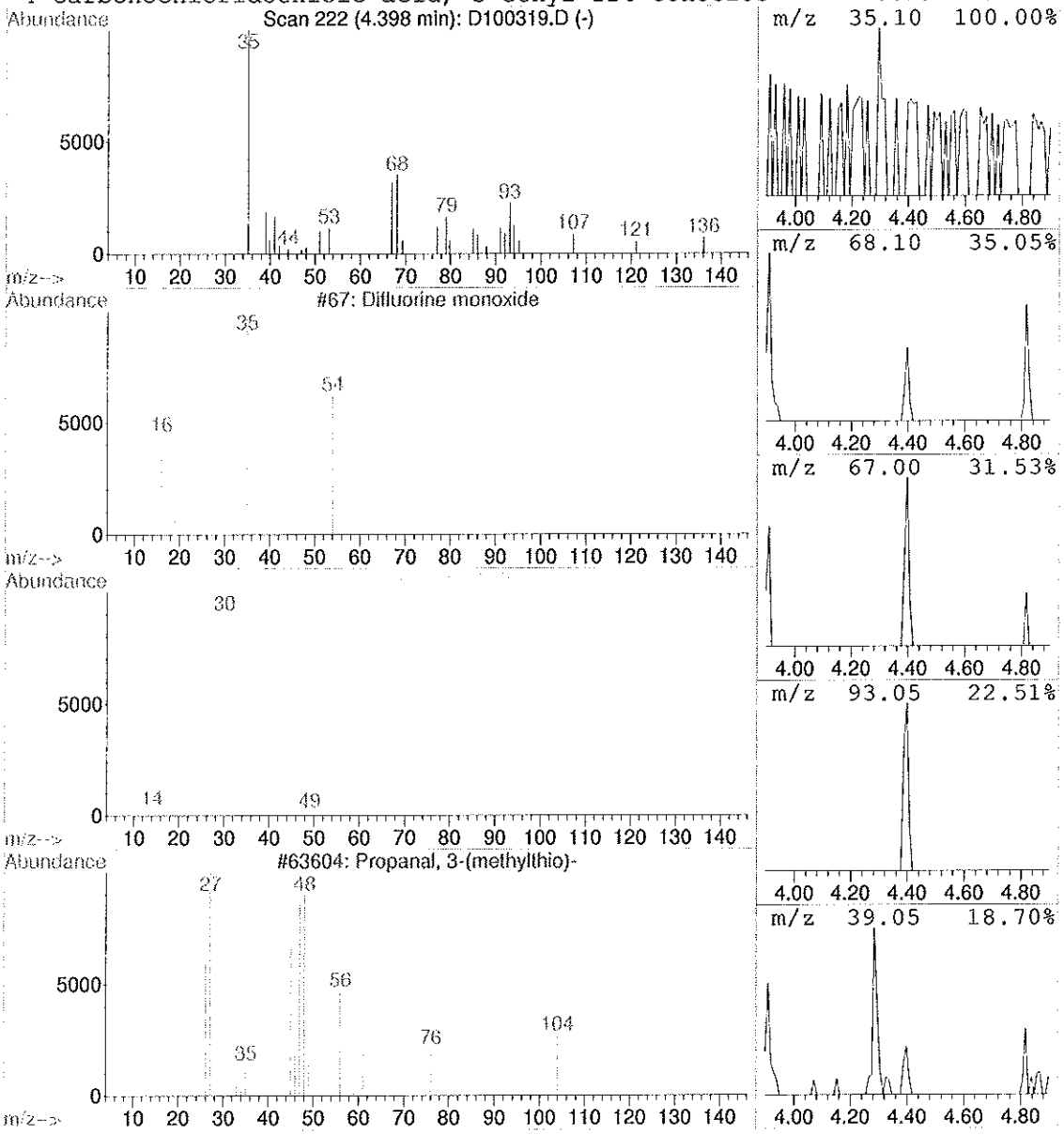
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100319.D          Vial: 96
Acq On    :  4 Oct 2008   2:43 am                     Operator: mills
Sample    : ,samp,me0809c97-05b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  2  Difluorine monoxide            Concentration Rank  2
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.40	1.65 ug/ml	18842	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Difluorine monoxide	54	F2O	007783-41-7	1
2	Nitrosyl chloride	65	ClNO	002696-92-6	1
3	Propanal, 3-(methylthio)-	104	C4H8OS	003268-49-3	1
4	Carbonochloridothioic acid, S-ethyl	124	C3H5ClOS	002941-64-2	1



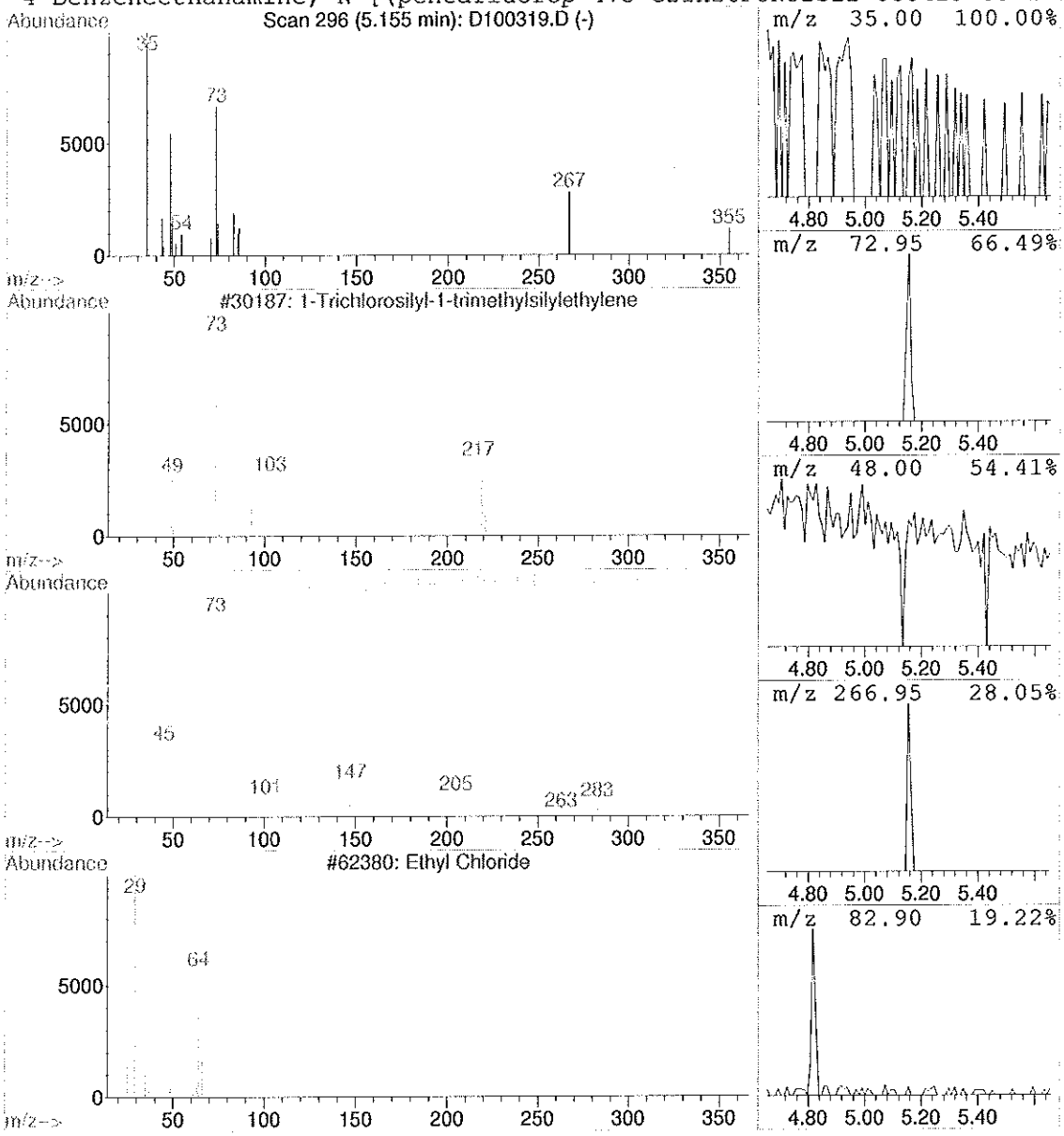
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100319.D          Vial: 96
Acq On    :  4 Oct 2008   2:43 am                     Operator: mills
Sample    : ,samp,me0809c97-05b,1,                    Inst    : SVOA 4
Misc      : 8270_w                                    Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*****************************************************************
Peak Number  3  1-Trichlorosilyl-1-trimethylsi  Concentration Rank  4
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.15	0.60 ug/ml	6918	Naphthalene-d8	5.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Trichlorosilyl-1-trimethylsilylet	232	C5H11Cl3Si2	000000-00-0	4
2	Disilane, pentamethyl(pentafluoroph	298	C11H15F5Si2	033558-55-3	2
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	2
4	Benzeneethanamine, N-[(pentafluorop	475	C21H26F5NO2Si2	055429-85-1	1



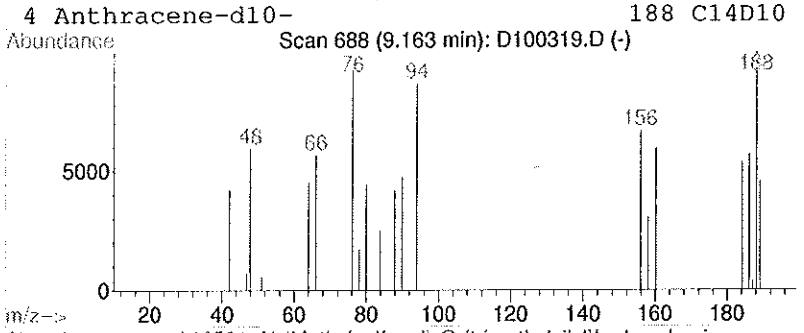
Library Search Compound Report

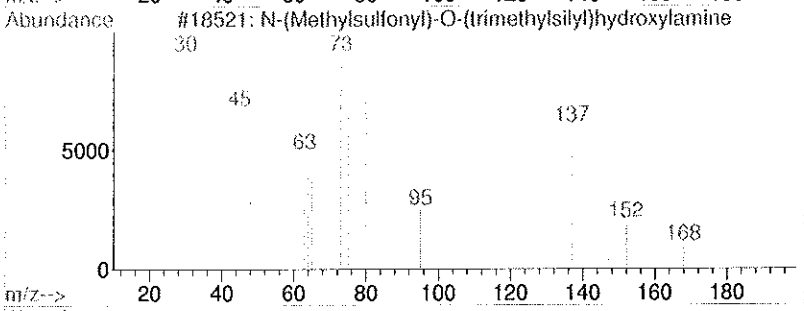
```
Data File : C:\HPCHEM\1\DATA\D100308\D100319.D          Vial: 96
Acq On    :  4 Oct 2008   2:43 am                     Operator: mills
Sample    : ,samp,me0809c97-05b,1,                     Inst    : SVOA 4
Misc      : 8270_w                                     Multiplr: 1.00
MS Integration Params: LSCINT.P

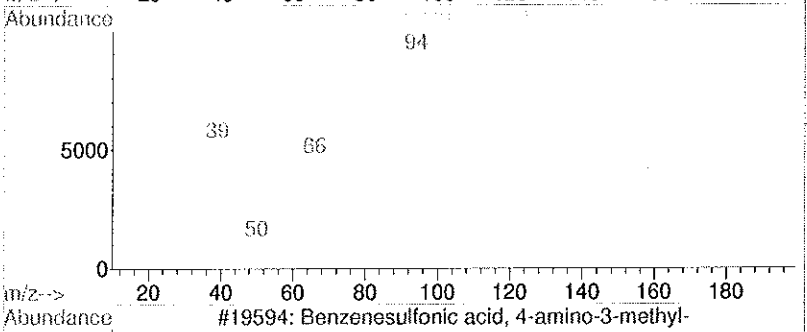
Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*********************************************************************
Peak Number  4  N-(Methylsulfonyl)-O-(trimethy  Concentration Rank  3
```

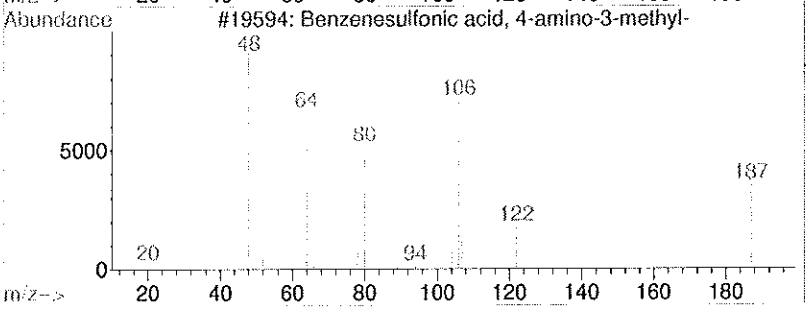
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.16	1.61 ug/ml	15321	Phenanthrene-d10	9.11

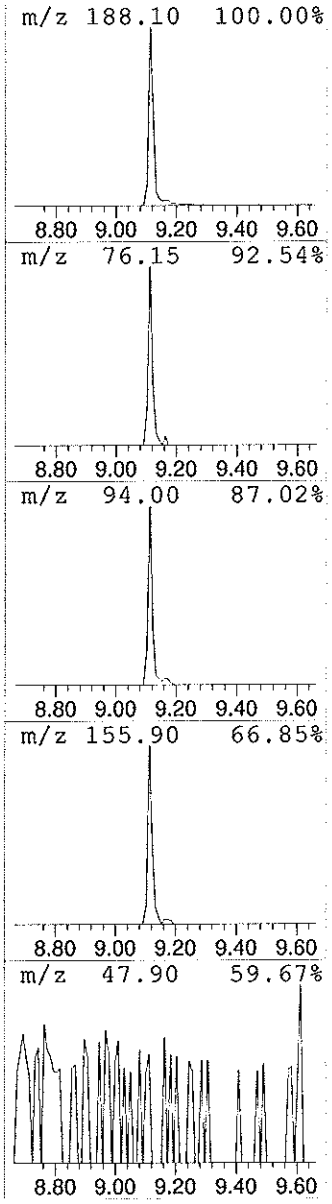
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N-(Methylsulfonyl)-O-(trimethylsily	183	C4H13NO3SSi	000000-00-0	10
2	Phenol	94	C6H6O	000108-95-2	9
3	Benzenesulfonic acid, 4-amino-3-met	187	C7H9NO3S	000098-33-9	9
4	Anthracene-d10-	188	C14D10	001719-06-8	9











Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWD-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-06B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100322.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 5 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituteed Furan	3.55	1.1	
	Unknown	3.86	0.7	
	Unknown acid	4.09	1.3	
	Unknown	9.17	1.9	
	Unknown	12.35	1.0	

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\D100308\D100322.D Vial: 99
Acq On : 4 Oct 2008 4:00 am Operator: mills
Sample : ,samp,me0809c97-06b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration
DataAcq Meth : 8270-AQ

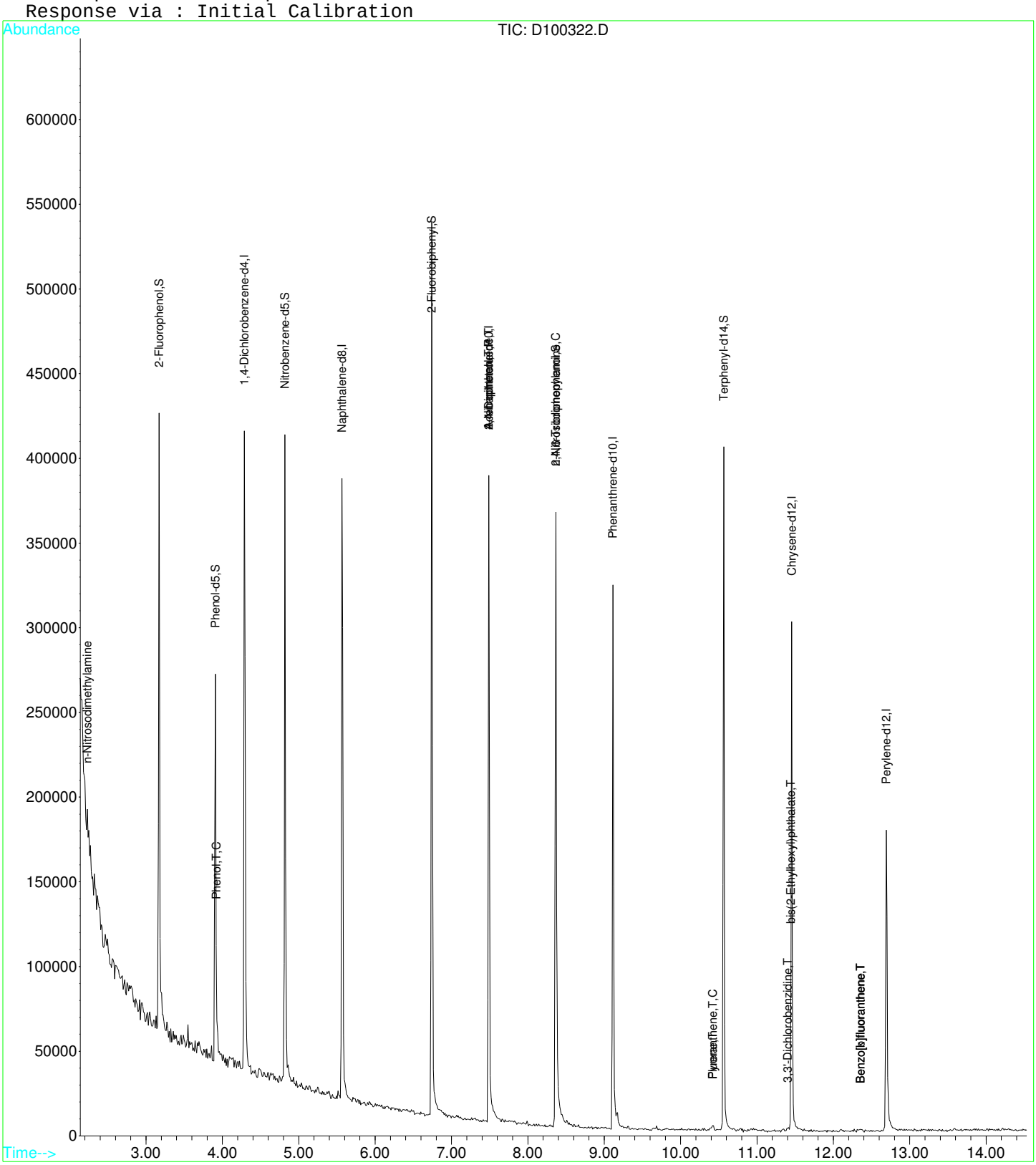
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.29	152	65803	40.00	ug/ml	0.00
19) Naphthalene-d8	5.56	136	203608	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.49	164	91876	40.00	ug/ml	0.00
56) Phenanthrene-d10	9.11	188	112255	40.00	ug/ml	0.00
69) Chrysene-d12	11.45	240	94186	40.00	ug/ml	0.00
78) Perylene-d12	12.69	264	83549	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.17	112	100240	49.29	ug/ml	0.00
5) Phenol-d5	3.91	99	81911	33.00	ug/ml	0.00
20) Nitrobenzene-d5	4.82	82	121632	53.04	ug/ml	0.00
40) 2-Fluorobiphenyl	6.74	172	168644	59.15	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.37	330	41273	92.10	ug/ml	0.00
72) Terphenyl-d14	10.57	244	109883	53.53	ug/ml	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	2.23	74	732	0.60	ug/ml	70
6) Phenol	3.92	94	6226	2.55	ug/ml#	80
50) 4-Nitrophenol	7.49	109	251	0.52	ug/ml#	18
51) 2,4-Dinitrotoluene	7.49	165	10676	11.88	ug/ml#	34
58) n-Nitrosodiphenylamine	8.37	169	1720	0.50	ug/ml#	25
68) Fluoranthene	10.42	202	3791	1.26	ug/ml#	73
71) Pyrene	10.42	202	3896	1.28	ug/ml	92
75) 3,3'-Dichlorobenzidine	11.40	252	649	0.67	ug/ml#	84
77) bis(2-Ethylhexyl)phthalate	11.44	149	2950	1.01	ug/ml#	98
80) Benzo[b]fluoranthene	12.35	252	1882	0.83	ug/ml#	66
81) Benzo[k]fluoranthene	12.35	252	1882	1.03	ug/ml#	70

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\D100308\D100322.D Vial: 99
Acq On : 4 Oct 2008 4:00 am Operator: mills
Sample : ,samp,me0809c97-06b,1, Inst : SVOA 4
Misc : 8270_w Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Oct 5 10:54 2008 Quant Results File: SVOA0923.RES

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Last Update : Tue Sep 23 20:31:52 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: mills Date Acquired: 4 Oct 2008 4:00 am
Data File: C:\HPCHEM\1\DATA\D100308\D100322.D
Name: ,samp,me0809c97-06b,1,
Misc: 8270_w
Method: C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title: BNA Quantitation
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Furan, 2-(1,1-dimeth	3.55	1.1	ug/ml	11654	ISTD01	4.29	443777	40.0
Ethyl Chloride	3.86	0.7	ug/ml	7806	ISTD01	4.29	443777	40.0
Acetic acid, chloro-	4.09	1.3	ug/ml	14932	ISTD01	4.29	443777	40.0
2(1H)-Pyridinone, 4-	9.17	1.9	ug/ml	15926	ISTD04	9.11	341572	40.0
Cytidine, 5-methyl-	12.35	1.0	ug/ml	6050	ISTD06	12.69	251435	40.0

D100322.D SVOA0923.M Mon Oct 06 17:14:52 2008 SVOA4

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\D100308\D100322.D
Acq On : 4 Oct 2008 4:00 am
Sample : ,samp,me0809c97-06b,1,
Misc : 8270_w
MS Integration Params: LSCINT.P

Vial: 99
Operator: mills
Inst : SVOA 4
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title : BNA Quantitation
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

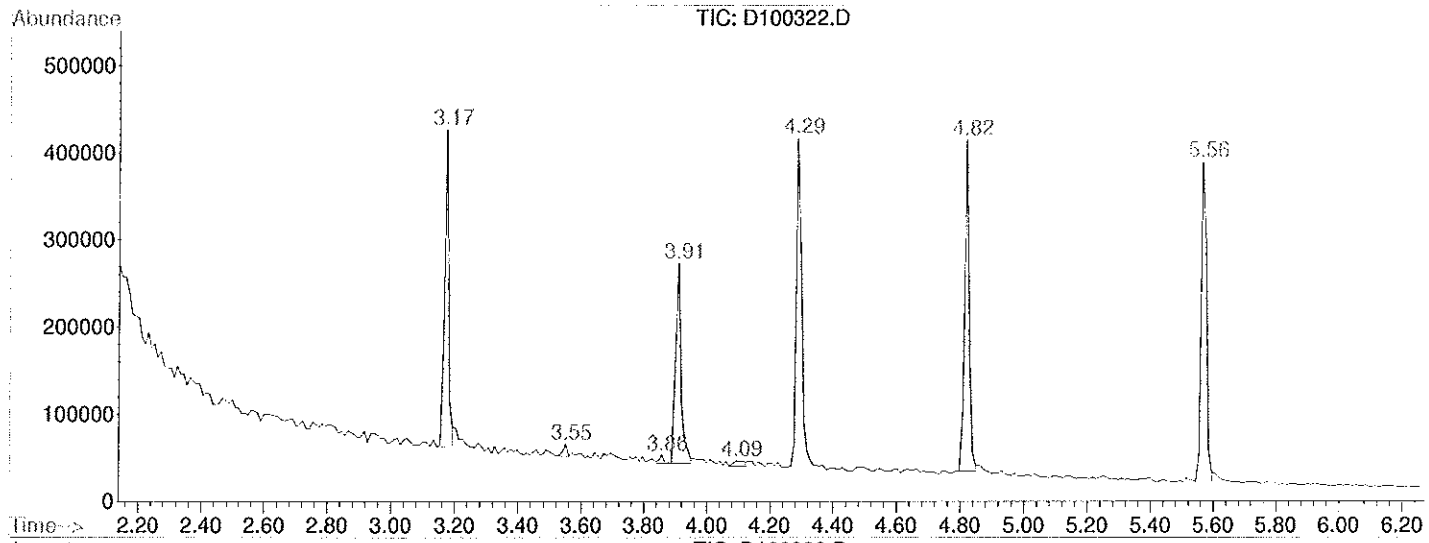
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.172	99	102	104	rBV	363424	344379	64.08%	7.355%
2	3.550	137	139	140	rVB2	13682	11654	2.17%	0.249%
3	3.857	167	169	172	rVB2	9170	7806	1.45%	0.167%
4	3.908	172	174	178	rBV	228669	275390	51.25%	5.882%
5	4.092	190	192	195	rBV4	6296	14932	2.78%	0.319%
6	4.287	209	211	218	rBV	375994	443777	82.58%	9.478%
7	4.818	261	263	266	rBV	379083	369384	68.74%	7.889%
8	5.565	334	336	339	rBV	365967	444026	82.63%	9.483%
9	6.741	449	451	454	rBV	527380	537387	100.00%	11.477%
10	7.487	522	524	527	rBV	381874	421914	78.51%	9.011%
11	8.367	607	610	623	rBV	363024	490706	91.31%	10.480%
12	9.113	681	683	686	rBV	321481	341572	63.56%	7.295%
13	9.174	687	689	694	rVB3	8742	15926	2.96%	0.340%
14	10.565	822	825	836	rVB	403142	395574	73.61%	8.449%
15	11.455	909	912	920	rBV	299896	310186	57.72%	6.625%
16	12.355	997	1000	1005	rVB3	1790	6050	1.13%	0.129%
17	12.692	1030	1033	1041	rBV	176522	251435	46.79%	5.370%

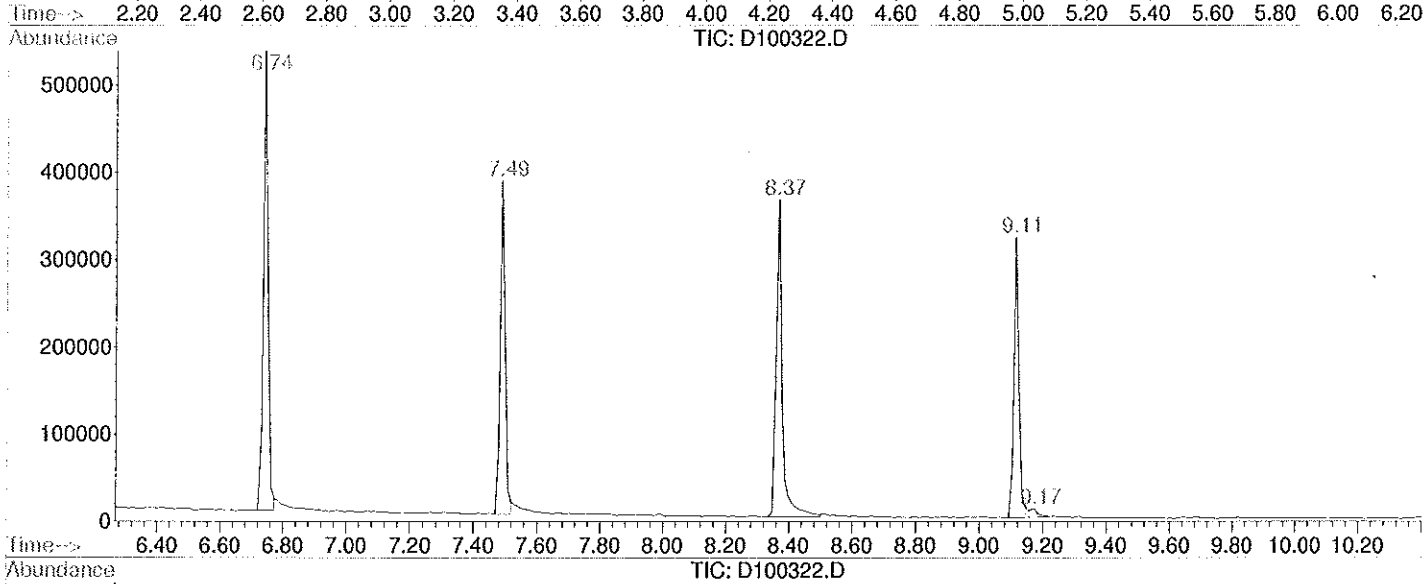
Sum of corrected areas: 4682098

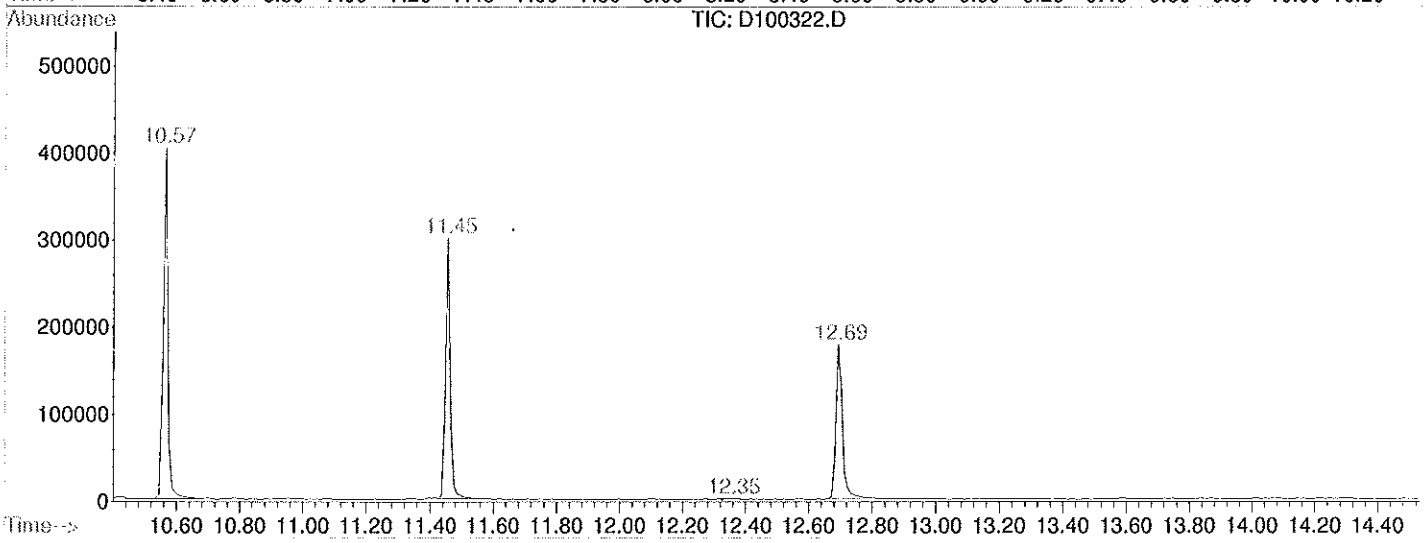
D100322.D SVOA0923.M Mon Oct 06 17:14:32 2008 SVOA4

LSC Report - Integrated Chromatogram

```
File        : C:\HPCHEM\1\DATA\D100308\D100322.D
Operator    : mills
Acquired    :  4 Oct 2008   4:00 am using AcqMethod 8270-AQ
Instrument  :   SVOA 4
Sample Name: ,samp,me0809c97-06b,1,
Misc Info   : 8270_w
Vial Number: 99
Quant File :SVOA0923.RES (RTE Integrator)
```







D100322.D SVOA0923.M Mon Oct 06 17:14:36 2008 SVOA4

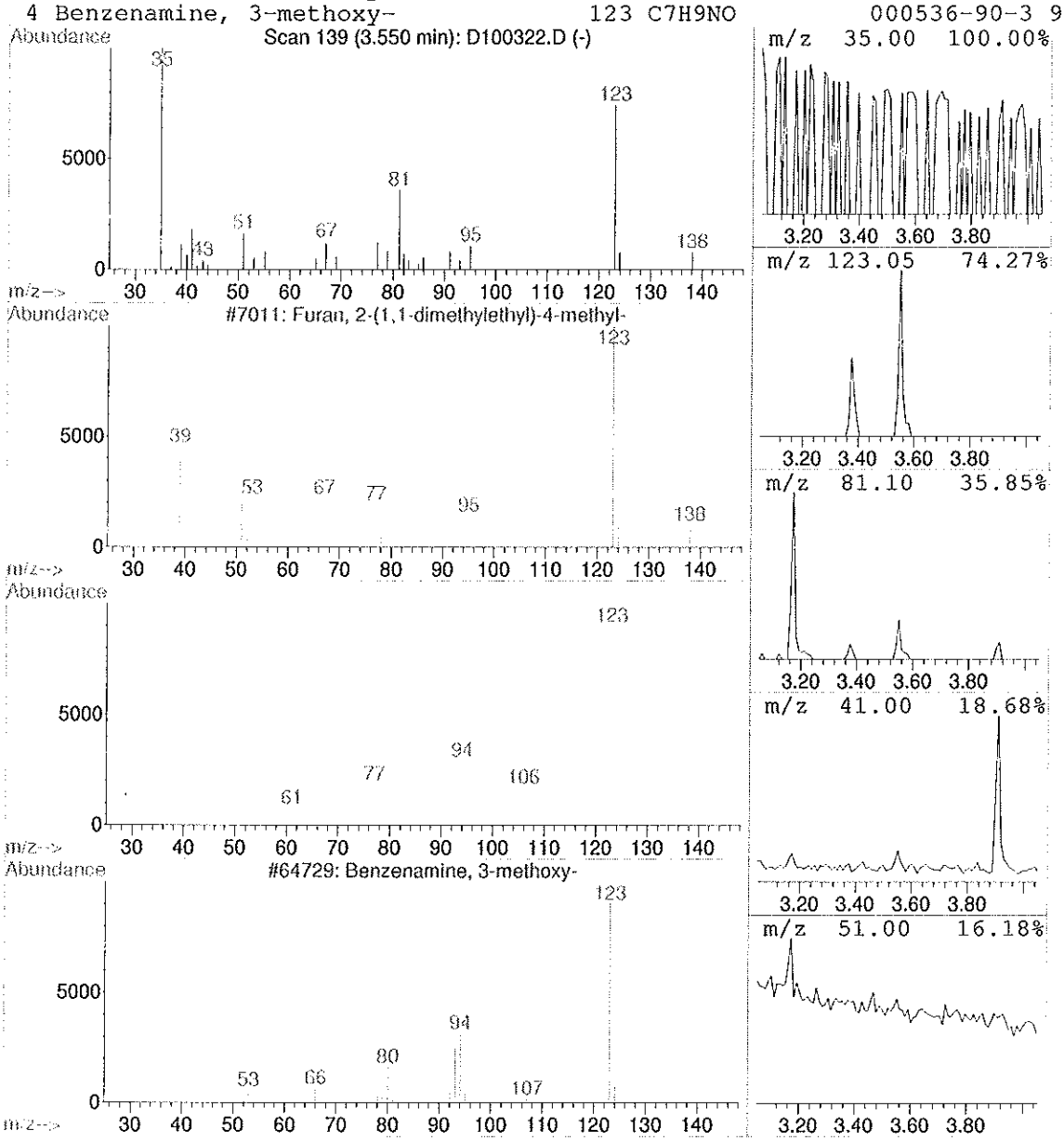
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100322.D          Vial: 99
Acq On    :  4 Oct 2008   4:00 am                    Operator: mills
Sample    : ,samp,me0809c97-06b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*******************************************************************
Peak Number  1  Furan, 2-(1,1-dimethylethyl)-4  Concentration Rank  3
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	1.05 ug/ml	11654	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2-(1,1-dimethylethyl)-4-meth	138	C9H14O	006141-68-0	86
2	Phenol, 3-amino-2-methyl-	123	C7H9NO	053222-92-7	45
3	Benzenamine, 3-methoxy-	123	C7H9NO	000536-90-3	9
4	Benzenamine, 3-methoxy-	123	C7H9NO	000536-90-3	9



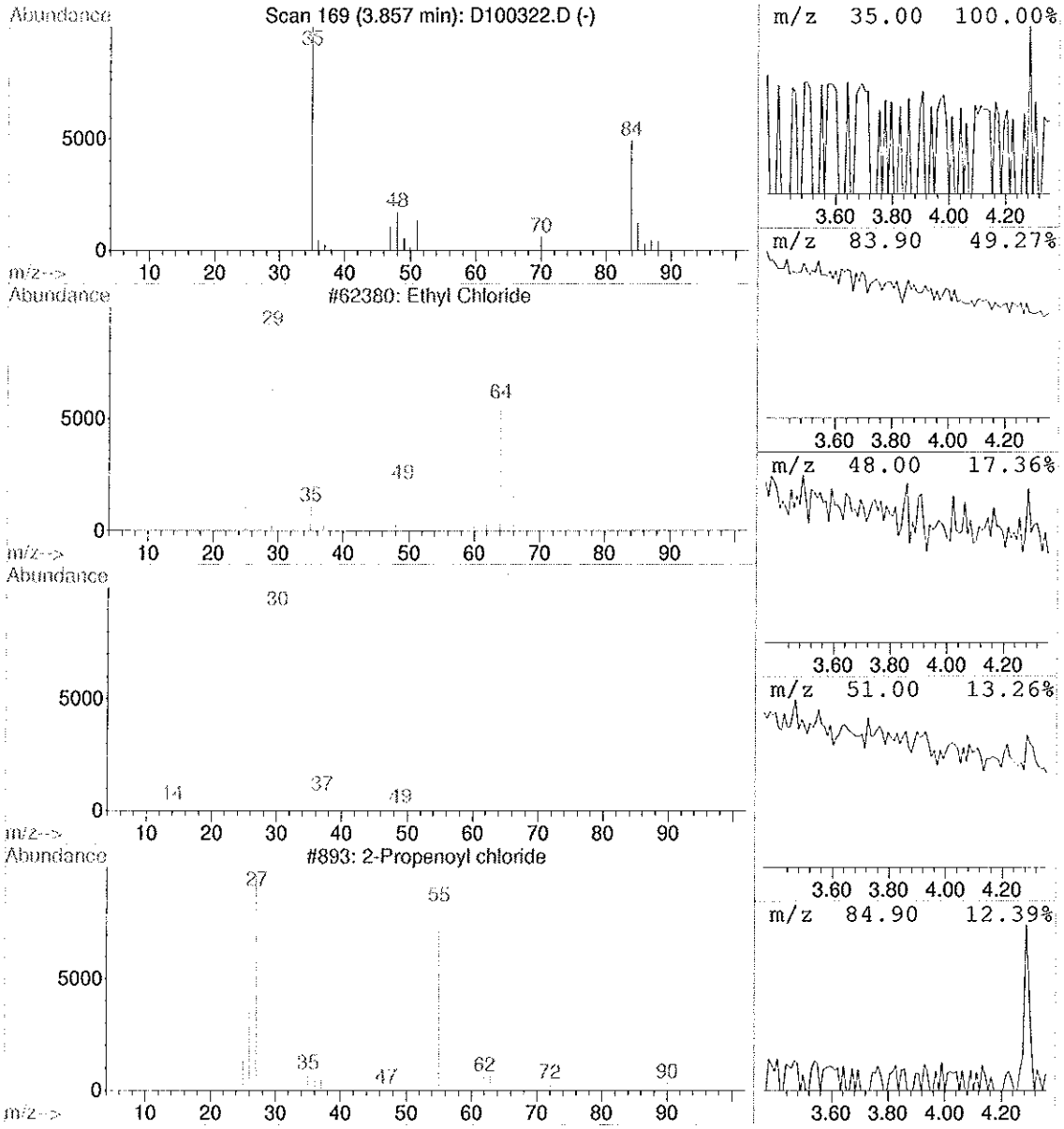
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100322.D          Vial: 99
Acq On    :  4 Oct 2008   4:00 am                    Operator: mills
Sample    : ,samp,me0809c97-06b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*****************************************************************
Peak Number  2  Ethyl Chloride                  Concentration Rank  5
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.86	0.70 ug/ml	7806	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl Chloride	64	C2H5Cl	000075-00-3	2
2	Nitrosyl chloride	65	ClNO	002696-92-6	2
3	2-Propenoyl chloride	90	C3H3ClO	000814-68-6	1
4	Difluorine monoxide	54	F2O	007783-41-7	1



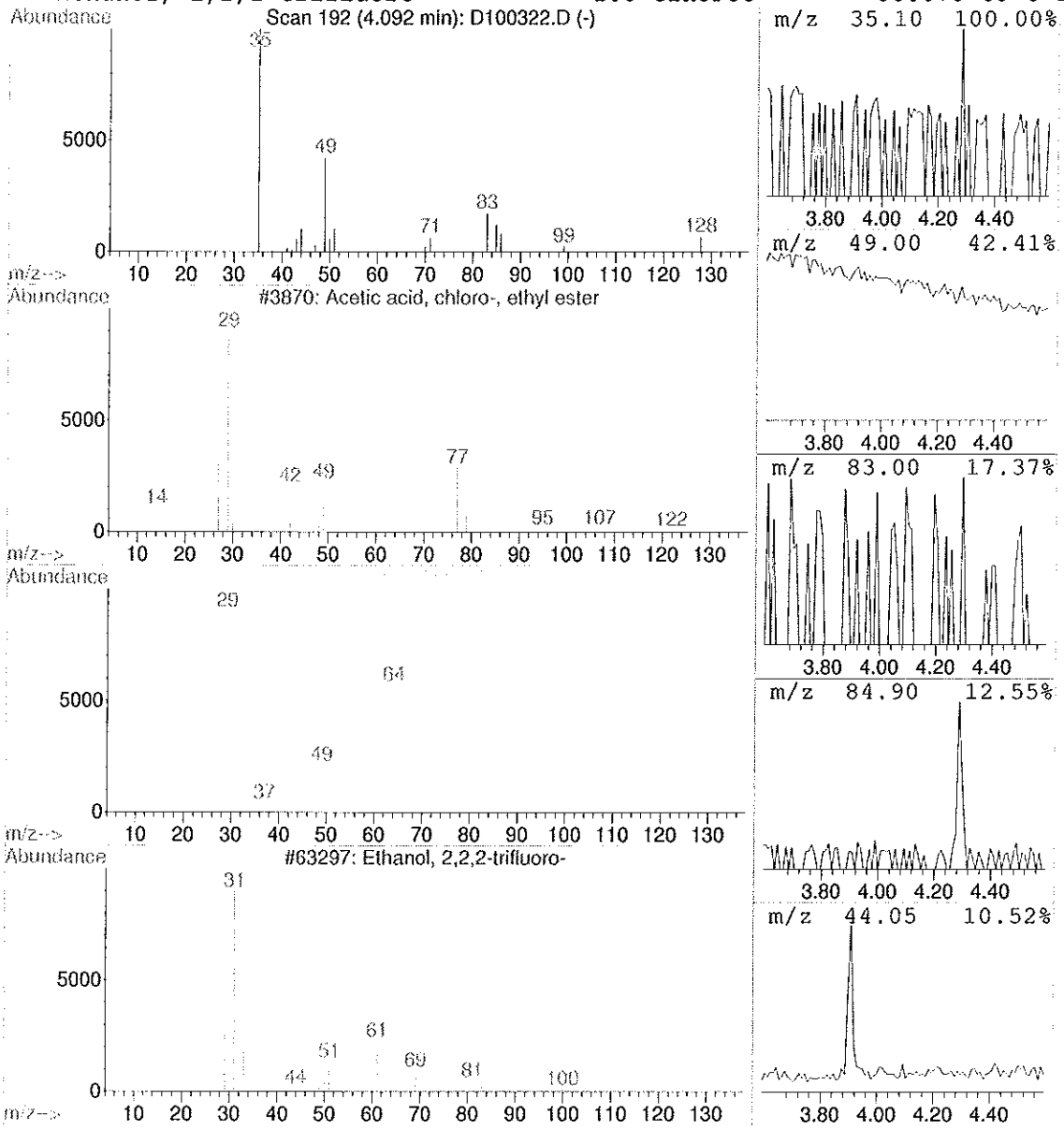
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100322.D          Vial: 99
Acq On    :  4 Oct 2008   4:00 am                    Operator: mills
Sample    : ,samp,me0809c97-06b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*****************************************************************
Peak Number  3  Acetic acid, chloro-, ethyl es  Concentration Rank  2
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.09	1.35 ug/ml	14932	1,4-Dichlorobenzene-d4	4.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, chloro-, ethyl ester	122	C4H7ClO2	000105-39-5	1
2	Ethyl Chloride	64	C2H5Cl	000075-00-3	1
3	Ethanol, 2,2,2-trifluoro-	100	C2H3F3O	000075-89-8	1
4	Ethanol, 2,2,2-trifluoro-	100	C2H3F3O	000075-89-8	1



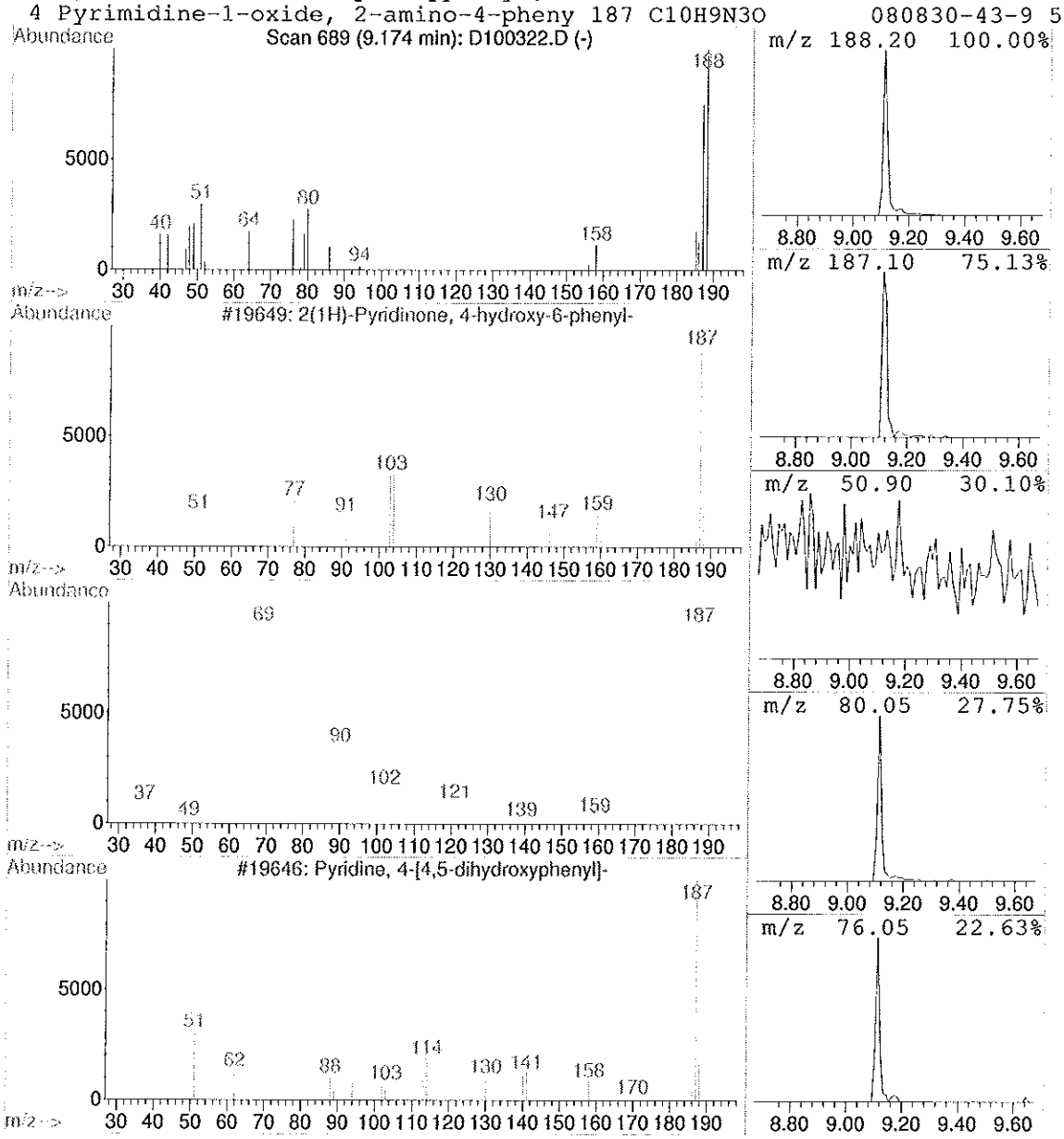
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100322.D          Vial: 99
Acq On    :  4 Oct 2008   4:00 am                    Operator: mills
Sample    : ,samp,me0809c97-06b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*****************************************************************
Peak Number  4  2(1H)-Pyridinone, 4-hydroxy-6-  Concentration Rank  1
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.17	1.87 ug/ml	15926	Phenanthrene-d10	9.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Pyridinone, 4-hydroxy-6-pheny	187	C11H9NO2	017424-17-8	9
2	p-Cyanophenyl trifluoromethyl ether	187	C8H4F3NO	000332-25-2	7
3	Pyridine, 4-[4,5-dihydroxyphenyl]-	187	C11H9NO2	000000-00-0	7
4	Pyrimidine-1-oxide, 2-amino-4-pheny	187	C10H9N3O	080830-43-9	5



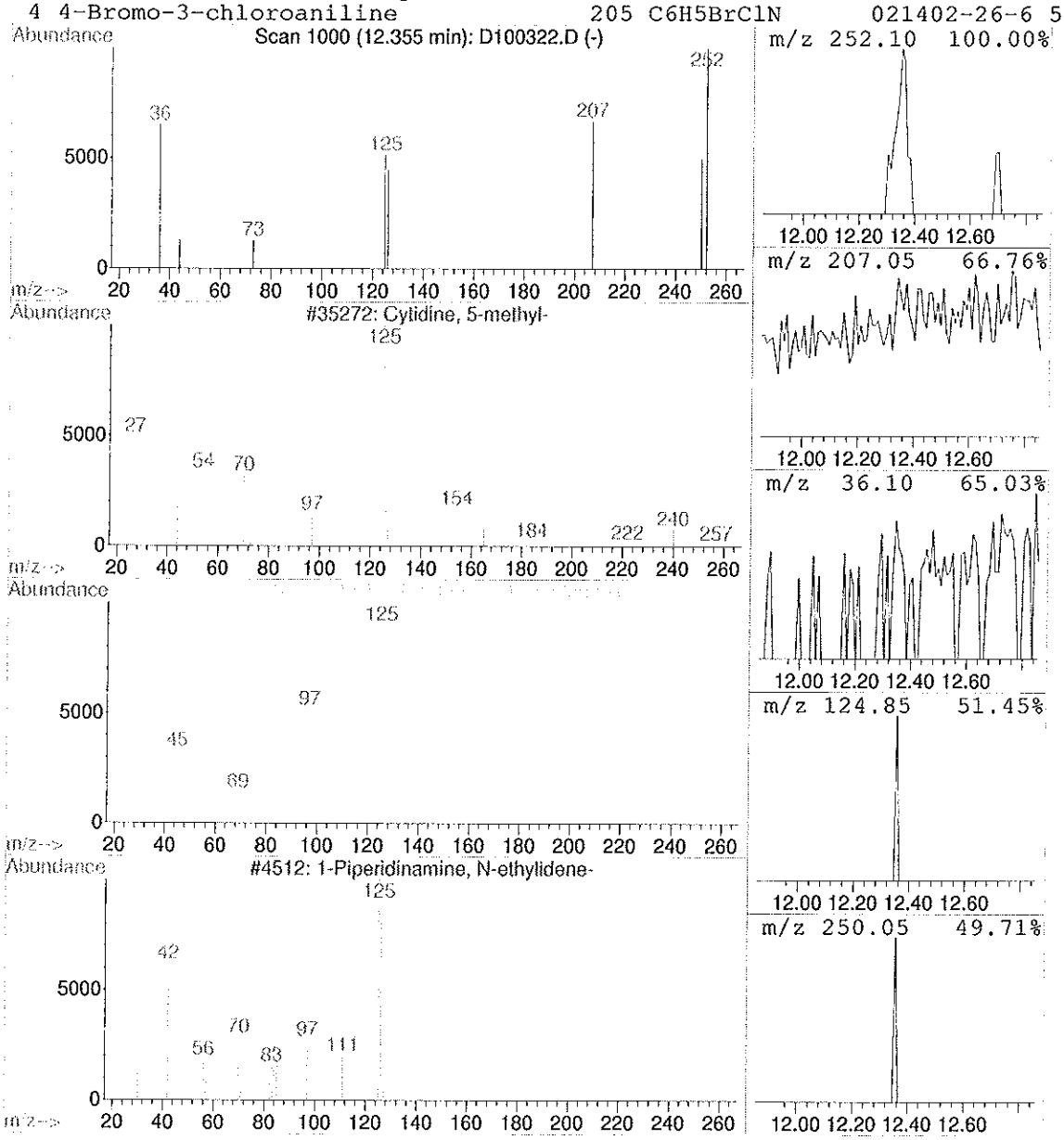
Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\D100308\D100322.D          Vial: 99
Acq On    :  4 Oct 2008   4:00 am                    Operator: mills
Sample    : ,samp,me0809c97-06b,1,                   Inst    : SVOA 4
Misc      : 8270_w                                   Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\SVOA0923.M (RTE Integrator)
Title        : BNA Quantitation
Library      : C:\DATABASE\NBS75K.L
*****************************************************************
Peak Number  5  Cytidine, 5-methyl-            Concentration Rank  4
```

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	0.96 ug/ml	6050	Perylene-d12	12.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cytidine, 5-methyl-	257	C10H15N3O5	002140-61-6	8
2	3-Methyl-2-thiophenecarboxaldehyde	126	C6H6OS	005834-16-2	5
3	1-Piperidinamine, N-ethylidene-	126	C7H14N2	075267-99-1	5
4	4-Bromo-3-chloroaniline	205	C6H5BrClN	021402-26-6	5



EXTRACTION LOG(S)

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **65965** Prep Code: **3510_B** Technician: **James Manley**

Prep Start Date: **10/3/2008 7:36:00 AM**
Prep End Date: **10/3/2008 3:00:00 PM**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
BK-2-100308				1000	0	0	1	0.001	10/3/2008	10/3/2008
LCS-2-100308				1000	0	0	1	0.001	10/3/2008	10/3/2008
ME0809C97-02B	Aqueous			970	0	0	1	0.0010309	10/3/2008	10/3/2008
ME0809C97-03B	Aqueous			920	0	0	1	0.001087	10/3/2008	10/3/2008
ME0809C97-04B	Aqueous			940	0	0	1	0.0010638	10/3/2008	10/3/2008
ME0809C97-05B	Aqueous			970	0	0	1	0.0010309	10/3/2008	10/3/2008
ME0809C97-05BM	Aqueous			490	0	0	1	0.0020408	10/3/2008	10/3/2008
ME0809C97-05BM	Aqueous			500	0	0	1	0.002	10/3/2008	10/3/2008
ME0809C97-06B	Aqueous			990	0	0	1	0.0010101	10/3/2008	10/3/2008

Spk ID	Spike Name	SampType	AmtAdd
1MLSPAB94-04			0
1MLSRAB96-18			0

Injection Log

Directory: C:\HPCHEM\1\DATA\D100308

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	D100301.D	1.	,tune,dftpp tune,1,	dftpp	3 Oct 2008 18:52
2	2	D100302.D	1.	,ccv,svoa ccv 50ug/ml,1,ab86-03	8270_w	3 Oct 2008 19:12
3	80	D100303.D	1.	,mblk,blk1001fl1,1,	1311_b	3 Oct 2008 19:40
4	81	D100304.D	1.	,mblk,blk1001fl2,1,	1311_b	3 Oct 2008 20:07
5	82	D100305.D	1.	,mblk,blk1002fl1,1,	1311_b	3 Oct 2008 20:34
6	83	D100306.D	1.	,mblk,bk-2-100308,1,	8270_w	3 Oct 2008 21:01
7	84	D100307.D	1.	,lcs,lcs-2-100308,1,	8270_w	3 Oct 2008 21:27
8	85	D100308.D	1.	,lcs,lcs-1-100308,1,	1311_b	3 Oct 2008 21:53
9	86	D100309.D	1.	,samp,me0810031-01a,1,	1311_b	3 Oct 2008 22:19
10	87	D100310.D	1.	,ms,me0810031-01ams,1,	1311_b	3 Oct 2008 22:46
11	88	D100311.D	1.	,msd,me0810031-01amsd,1,	1311_b	3 Oct 2008 23:13
12	89	D100312.D	1.	,samp,me0810025-01a,1,	1311_b	3 Oct 2008 23:39
13	90	D100313.D	1.	,samp,me0810027-01a,1,	1311_b	4 Oct 2008 00:06
14	91	D100314.D	1.	,samp,me0810086-01a,1,	1311_b	4 Oct 2008 00:33
15	92	D100315.D	1.	,samp,me0810086-02a,1,	1311_b	4 Oct 2008 01:00
16	93	D100316.D	1.	,samp,me0809c97-02b,1,	8270_w	4 Oct 2008 01:26
17	94	D100317.D	1.	,samp,me0809c97-03b,1,	8270_w	4 Oct 2008 01:52
18	95	D100318.D	1.	,samp,me0809c97-04b,1,	8270_w	4 Oct 2008 02:18
19	96	D100319.D	1.	,samp,me0809c97-05b,1,	8270_w	4 Oct 2008 02:43
20	97	D100320.D	1.	,ms,me0809c97-05bms,1,	8270_w	4 Oct 2008 03:09
21	98	D100321.D	1.	,msd,me0809c97-05bmsd,1,	8270_w	4 Oct 2008 03:35
22	99	D100322.D	1.	,samp,me0809c97-06b,1,	8270_w	4 Oct 2008 04:00
23	18	D100323.D	1.	,samp,me0810040-03a,20,	625+_w	4 Oct 2008 04:26
24	19	D100324.D	1.	,samp,me0810057-01a,1,	625+_w	4 Oct 2008 04:51
25	20	D100325.D	1.	,samp,me0810074-01b,1,	625+_w	4 Oct 2008 05:16
26	100	D100326.D	1.	rinse	625+_w	4 Oct 2008 05:34
27	100	D100327.D	1.	rinse	625+_w	4 Oct 2008 05:45

VOA GC/MS
RAW DATA

METHOD BLANK
RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100103.D Vial: 3
Acq On : 1 Oct 2008 8:31 am Operator: NLT
Sample : ,MBLK,MBLK-W25-10/01,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 9:26 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

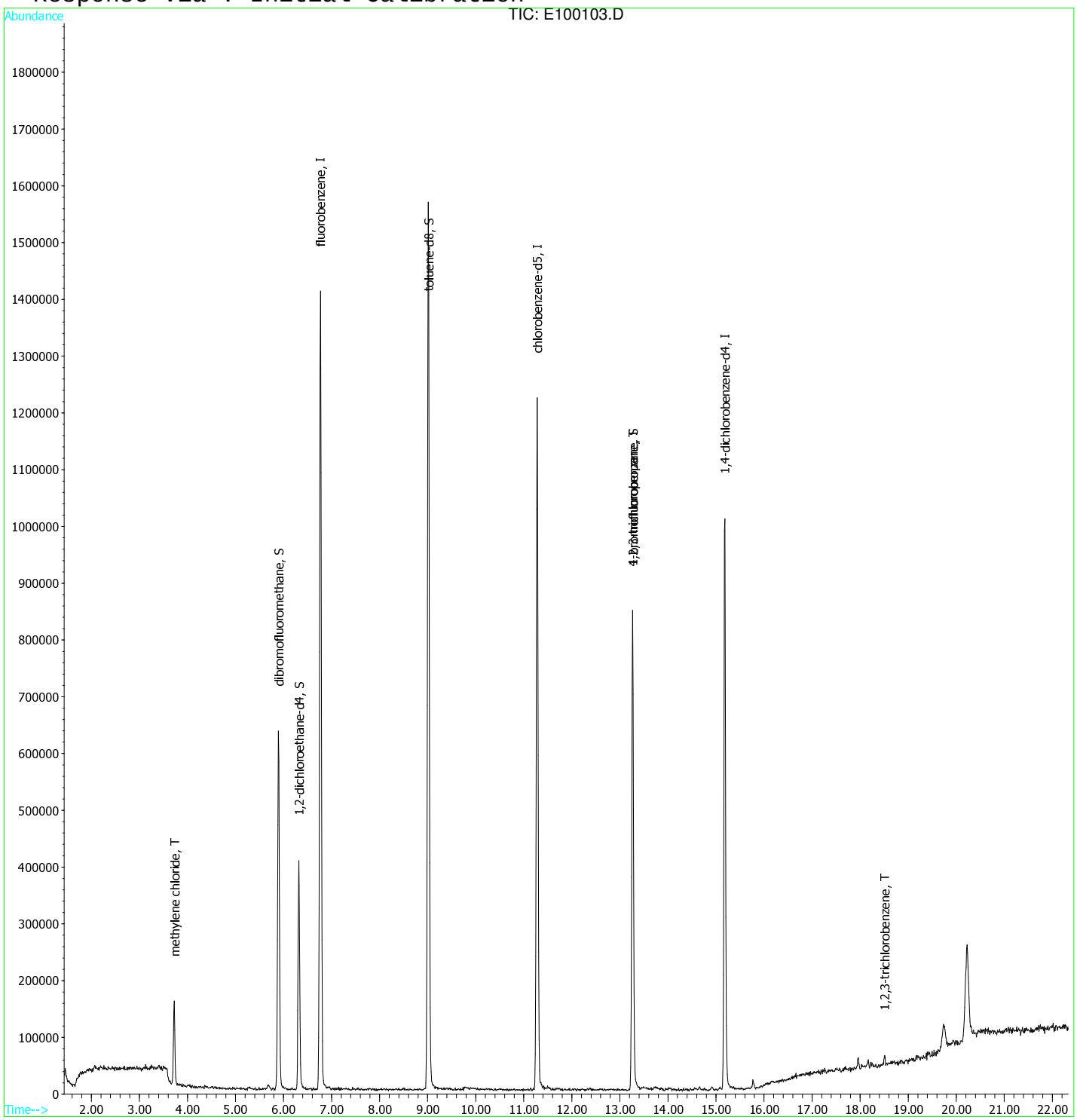
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	1743593	10.00 ug/L	0.02
44) chlorobenzene-d5	11.28	117	1046633	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.19	152	396247	10.00 ug/L	0.02
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	501676	10.47 ug/L	0.00
33) 1,2-dichloroethane-d4	6.32	65	359396	11.62 ug/L	0.00
47) toluene-d8	9.01	98	1486233	11.05 ug/L	0.00
66) 4-bromofluorobenzene	13.27	95	447777	9.95 ug/L	0.02
Target Compounds					Qvalue
15) methylene chloride	3.73	84	67325	1.17 ug/L	98
67) 1,2,3-trichloropropane	13.27	75	185762	9.68 ug/L #	57
88) 1,2,3-trichlorobenzene	18.51	180	7728	0.32 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100103.D Vial: 3
Acq On : 1 Oct 2008 8:31 am Operator: NLT
Sample : ,MBLK,MBLK-W25-10/01,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 9:26 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



LABORATORY CONTROL SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100105.D Vial: 5
Acq On : 1 Oct 2008 9:51 am Operator: NLT
Sample : ,LCS,LCS-W25-10 PPB,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 10:17 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	1773952	10.00 ug/L	0.01
44) chlorobenzene-d5	11.27	117	1058011	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	515170	10.00 ug/L	0.01
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	505597	10.37 ug/L	0.00
33) 1,2-dichloroethane-d4	6.32	65	362754	11.52 ug/L	0.01
47) toluene-d8	9.01	98	1551806	11.41 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	512824	11.27 ug/L	0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	73770	3.31 ug/L	97
3) chloromethane	1.68	50	295612	7.23 ug/L	97
4) vinyl chloride	1.80	62	196715	4.70 ug/L	93
6) bromomethane	2.16	94	138815	7.52 ug/L	99
7) chloroethane	2.28	64	144717	6.84 ug/L	98
8) trichlorofluoromethane	2.56	101	232979	5.82 ug/L	92
9) acrolein	3.05	56	23468	42.21 ug/L	73
11) 1,1-dichloroethene	3.15	96	184535	6.88 ug/L	94
12) acetone	3.22	43	70073	16.53 ug/L	83
14) carbon disulfide	3.40	76	545208	4.55 ug/L	100
15) methylene chloride	3.72	84	619338	10.57 ug/L	92
16) acrylonitrile	4.01	53	65263	10.22 ug/L	95
17) trans-1,2-dichloroethene	4.05	96	364993	8.40 ug/L	98
18) methyl-t-butyl ether	4.06	73	568011	10.44 ug/L	99
19) acetonitrile	3.53	41	28615	16.77 ug/L #	91
21) 1,1-dichloroethane	4.55	63	711533	9.27 ug/L	98
22) vinyl acetate	4.63	43	367681	14.41 ug/L	96
23) cis-1,2-dichloroethene	5.28	96	451378	9.48 ug/L	95
24) 2,2-dichloropropane	5.26	77	482803	9.06 ug/L	96
25) 2-butanone	5.30	72	17134	9.00 ug/L #	63
27) bromochloromethane	5.58	49	322275	9.88 ug/L	100
28) chloroform	5.69	83	755700	11.08 ug/L	98
30) 1,1,1-trichloroethane	5.91	97	468118	8.97 ug/L	97
32) carbon tetrachloride	6.13	117	396540	8.13 ug/L	97
34) benzene	6.39	78	1394008	8.74 ug/L	99
35) 1,1-dichloropropene	6.13	75	397785	7.33 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100105.D Vial: 5
Acq On : 1 Oct 2008 9:51 am Operator: NLT
Sample : ,LCS,LCS-W25-10 PPB,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 10:17 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,2-dichloroethane	6.42	62	453406	12.22 ug/L	97
37) trichloroethene	7.28	95	357178	8.37 ug/L	91
39) 1,2-dichloropropane	7.57	63	350492	8.62 ug/L	99
41) dibromomethane	7.75	93	185942	11.23 ug/L	96
42) bromodichloromethane	7.99	83	492078	11.10 ug/L	95
43) 2-chloroethyl vinyl ether	8.43	63	52263	10.13 ug/L #	88
45) cis-1,3-dichloropropene	8.63	75	515174	11.49 ug/L	92
46) 4-methyl-2-pentanone	8.85	43	141774	10.69 ug/L	98
48) toluene	9.11	92	909773	10.57 ug/L	100
49) 1,1,2-trichloroethane	9.75	83	179688	11.11 ug/L	89
50) 1,3-dichloropropane	9.99	76	377958	11.17 ug/L	99
51) tetrachloroethene	9.97	164	253314	8.56 ug/L	95
52) trans-1,3-dichloropropene	9.47	75	382878	12.81 ug/L	92
53) 2-hexanone	10.14	43	71390	9.60 ug/L	97
54) dibromochloromethane	10.37	129	297608	12.04 ug/L	95
55) 1,2-dibromoethane	10.52	107	236683	11.54 ug/L	94
56) chlorobenzene	11.32	112	1016732	10.54 ug/L	95
57) 1,1,1,2-tetrachloroethane	11.47	131	336345	10.96 ug/L	96
58) ethylbenzene	11.51	91	1638707	10.54 ug/L	98
59) m,p-xylene	11.71	106	1293897	20.98 ug/L	91
61) o-xylene	12.37	106	664647	11.19 ug/L	95
62) styrene	12.40	104	1097219	11.73 ug/L	97
63) isopropylbenzene	13.00	105	1491903	11.19 ug/L	98
64) bromobenzene	13.50	156	416277	11.57 ug/L	89
65) bromoform	12.70	173	156944	12.16 ug/L	97
67) 1,2,3-trichloropropane	13.60	75	159894	8.24 ug/L #	69
68) 1,4-dichloro-2-butene	13.72	89	39008	10.88 ug/L	62
69) n-propylbenzene	13.72	91	1820139	10.30 ug/L	95
70) 2-chlorotoluene	13.84	91	1237044	11.92 ug/L	90
71) 4-chlorotoluene	14.04	91	1421184	12.58 ug/L	95
72) 1,3,5-trimethylbenzene	14.03	105	1333961	11.41 ug/L	92
74) 1,1,2,2-tetrachloroethane	13.55	83	223612	9.67 ug/L	98
75) tert-butylbenzene	14.56	119	957940	8.34 ug/L	95
76) sec-butylbenzene	14.92	105	1447221	7.97 ug/L	97
77) 1,2,4-trimethylbenzene	14.65	105	1402974	10.01 ug/L	94
78) 1,3-dichlorobenzene	15.07	146	792873	10.37 ug/L	99
79) p-isopropyltoluene	15.15	119	1280679	9.25 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100105.D Vial: 5
Acq On : 1 Oct 2008 9:51 am Operator: NLT
Sample : ,LCS,LCS-W25-10 PPB,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 10:17 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

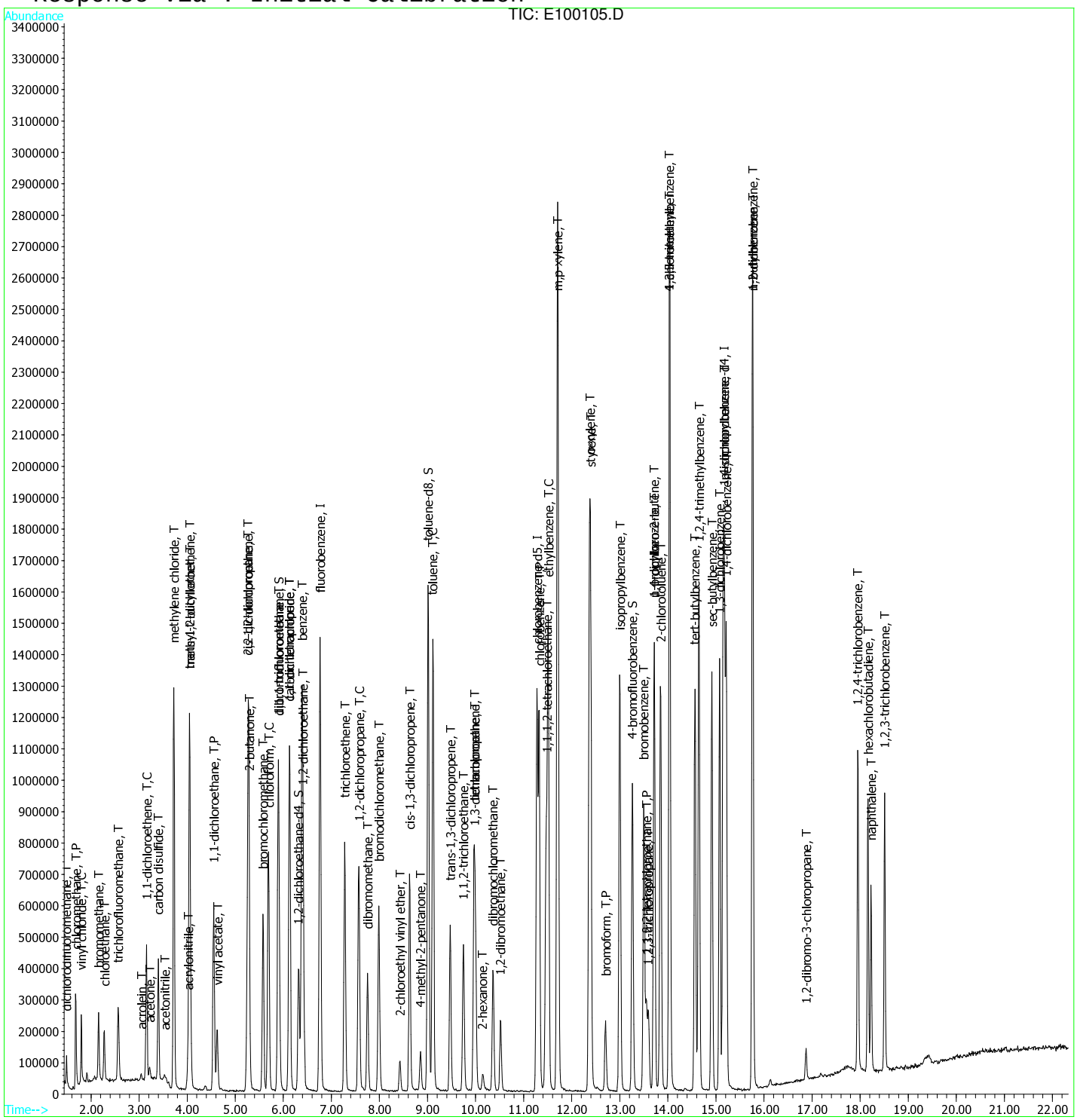
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 1,4-dichlorobenzene	15.21	146	807961	10.59 ug/L	97
82) 1,2-dichlorobenzene	15.76	146	696742	10.95 ug/L	99
83) n-butylbenzene	15.76	91	1198757	9.40 ug/L	98
84) 1,2-dibromo-3-chloropropan	16.88	75	32146	10.70 ug/L	92
85) 1,2,4-trichlorobenzene	17.96	180	431261	10.62 ug/L	93
86) hexachlorobutadiene	18.16	225	211770	8.99 ug/L	99
87) naphthalene	18.22	128	539842	9.57 ug/L	100
88) 1,2,3-trichlorobenzene	18.51	180	323616	10.31 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100105.D Vial: 5
Acq On : 1 Oct 2008 9:51 am Operator: NLT
Sample : ,LCS,LCS-W25-10 PPB,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 10:17 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



MATRIX SPIKE/MATRIX SPIKE DUPLICATE RAW DATA

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100128.D Vial: 25
Acq On : 1 Oct 2008 11:01 pm Operator: BR
Sample : ,SAMP,ME0809C97-05A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:26 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

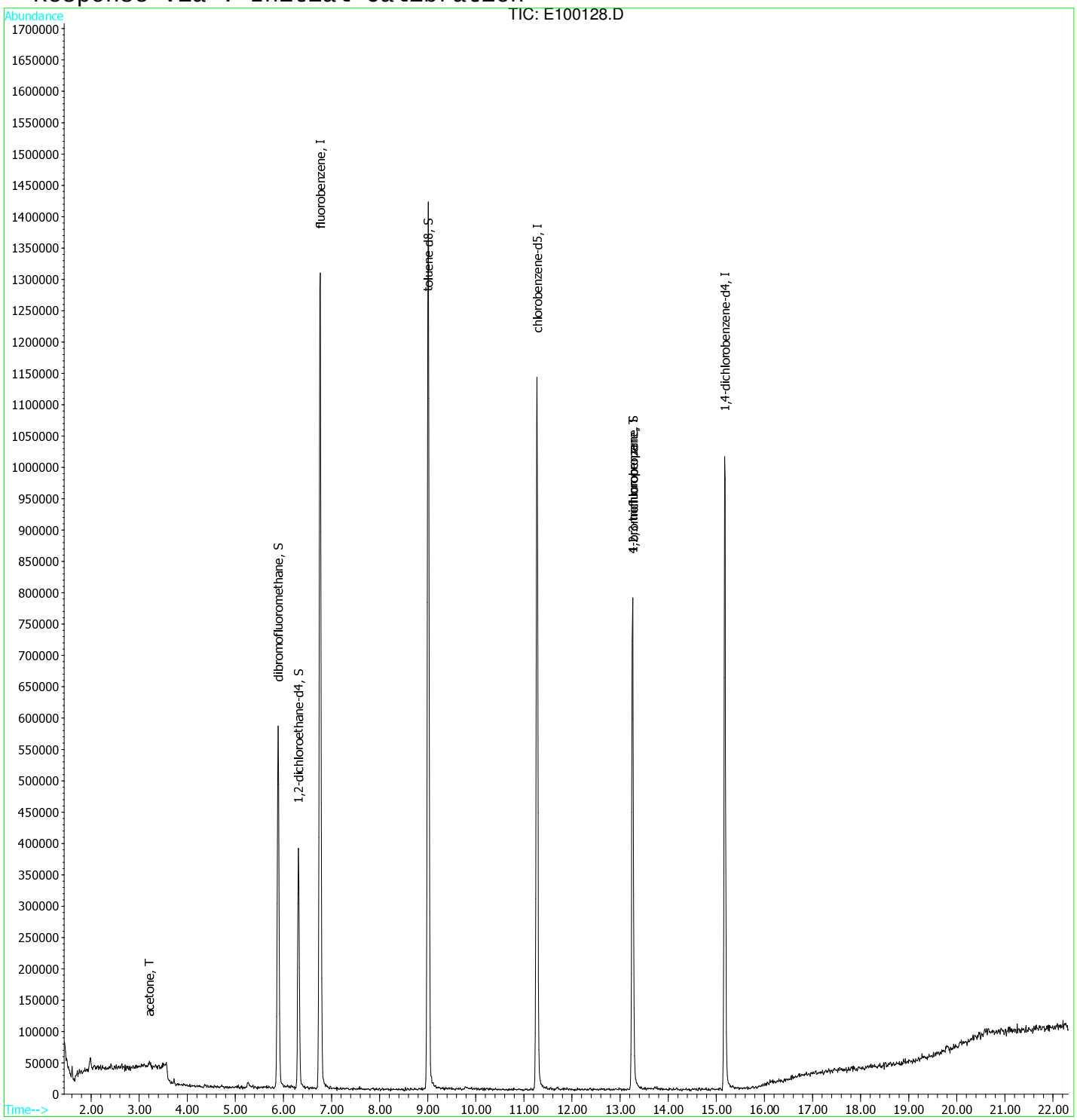
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	1637898	10.00 ug/L	0.01
44) chlorobenzene-d5	11.27	117	974247	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	385279	10.00 ug/L	0.01
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	458847	10.19 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	349948	12.04 ug/L	0.00
47) toluene-d8	9.01	98	1329130	10.62 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	430185	10.27 ug/L	0.01
Target Compounds					Qvalue
12) acetone	3.22	43	15289	3.91 ug/L	73
67) 1,2,3-trichloropropane	13.26	75	173114	9.69 ug/L #	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100128.D Vial: 25
Acq On : 1 Oct 2008 11:01 pm Operator: BR
Sample : ,SAMP,ME0809C97-05A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:26 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100129.D Vial: 26
Acq On : 1 Oct 2008 11:32 pm Operator: BR
Sample : ,MS,ME0809C97-05AMS,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 19:06 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1648245	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	993841	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	511937	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	454362	10.03 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	350495	11.98 ug/L	0.00
47) toluene-d8	9.01	98	1375739	10.77 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	490554	11.48 ug/L	0.00
Target Compounds					Qvalue
9) acrolein	3.04	56	19388	37.53 ug/L	92
11) 1,1-dichloroethene	3.15	96	251373	10.09 ug/L	94
12) acetone	3.22	43	60682	15.40 ug/L	77
14) carbon disulfide	3.40	76	1249354	11.22 ug/L	99
15) methylene chloride	3.72	84	382528	7.03 ug/L	93
16) acrylonitrile	4.01	53	55640	9.38 ug/L	90
17) trans-1,2-dichloroethene	4.04	96	407931	10.11 ug/L	94
18) methyl-t-butyl ether	4.05	73	548801	10.86 ug/L	96
19) acetonitrile	3.53	41	25557	16.12 ug/L #	82
21) 1,1-dichloroethane	4.55	63	752111	10.55 ug/L	99
22) vinyl acetate	4.62	43	314547	13.27 ug/L	92
23) cis-1,2-dichloroethene	5.28	96	456719	10.33 ug/L	96
24) 2,2-dichloropropane	5.26	77	585807	11.83 ug/L #	89
25) 2-butanone	5.29	72	16435	9.29 ug/L #	87
27) bromochloromethane	5.57	49	295299	9.74 ug/L	100
28) chloroform	5.69	83	790681	12.47 ug/L	96
30) 1,1,1-trichloroethane	5.90	97	639147	13.17 ug/L	97
32) carbon tetrachloride	6.12	117	588922	12.99 ug/L	94
34) benzene	6.38	78	1449296	9.78 ug/L	99
35) 1,1-dichloropropene	6.12	75	536679	10.65 ug/L	98
36) 1,2-dichloroethane	6.41	62	435784	12.64 ug/L	97
37) trichloroethene	7.27	95	424047	10.69 ug/L	87
39) 1,2-dichloropropane	7.57	63	328135	8.69 ug/L	98
41) dibromomethane	7.75	93	172174	11.19 ug/L	96
42) bromodichloromethane	7.98	83	475166	11.54 ug/L	98
45) cis-1,3-dichloropropene	8.62	75	456918	10.85 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100129.D Vial: 26
Acq On : 1 Oct 2008 11:32 pm Operator: BR
Sample : ,MS,ME0809C97-05AMS,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 19:06 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

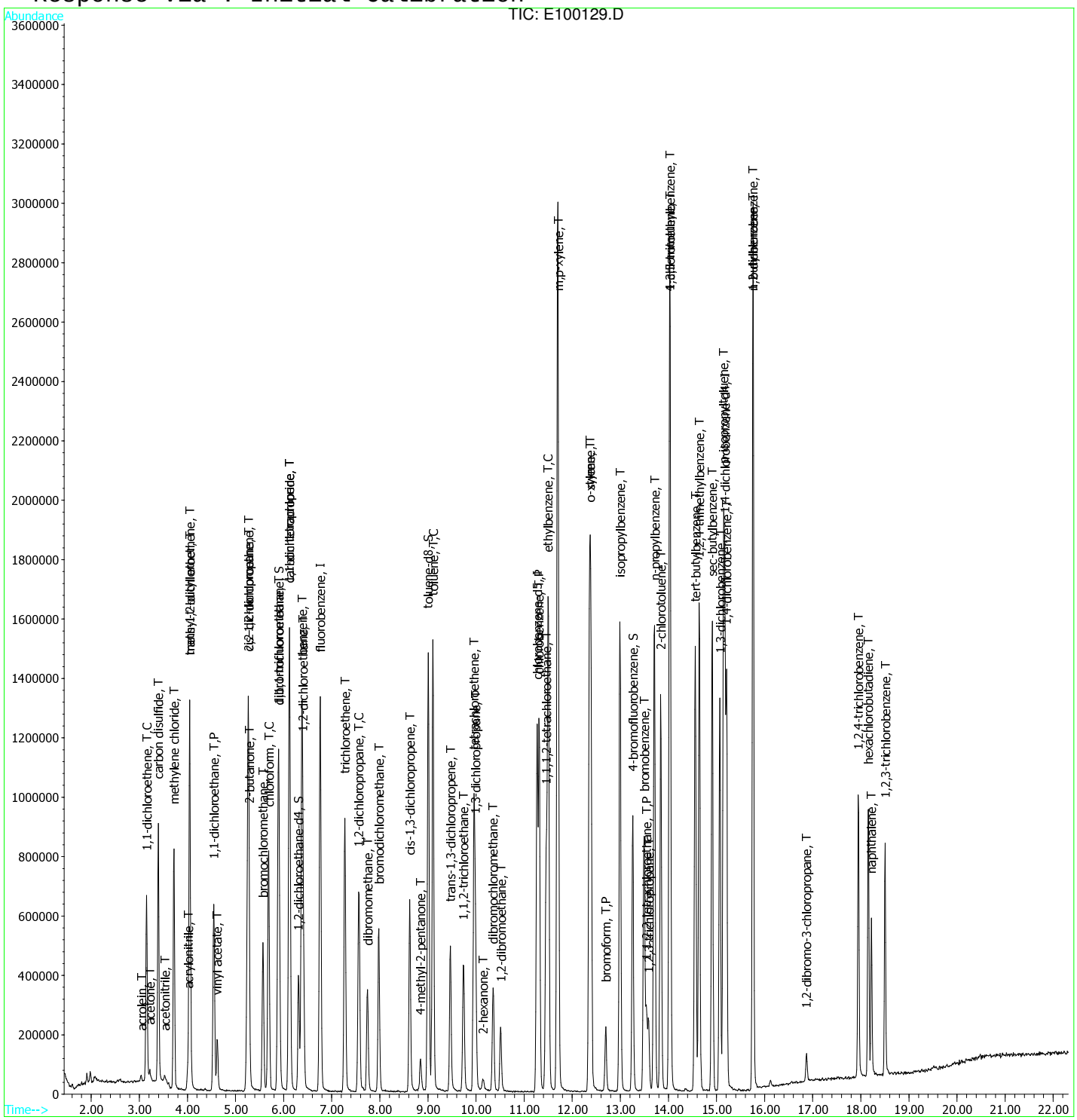
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) 4-methyl-2-pentanone	8.85	43	123685	9.93 ug/L	98
48) toluene	9.10	92	946930	11.72 ug/L	96
49) 1,1,2-trichloroethane	9.74	83	165914	10.92 ug/L	87
50) 1,3-dichloropropane	9.99	76	352117	11.08 ug/L	99
51) tetrachloroethene	9.96	164	327540	11.78 ug/L	92
52) trans-1,3-dichloropropene	9.47	75	359805	12.81 ug/L	94
53) 2-hexanone	10.14	43	58336	8.35 ug/L	91
54) dibromochloromethane	10.35	129	266291	11.47 ug/L	95
55) 1,2-dibromoethane	10.51	107	225173	11.69 ug/L #	98
56) chlorobenzene	11.32	112	1004814	11.09 ug/L	99
57) 1,1,1,2-tetrachloroethane	11.46	131	329657	11.44 ug/L	99
58) ethylbenzene	11.50	91	1806139	12.37 ug/L	96
59) m,p-xylene	11.70	106	1391692	24.03 ug/L	91
61) o-xylene	12.35	106	653234	11.71 ug/L #	86
62) styrene	12.38	104	1037217	11.81 ug/L	97
63) isopropylbenzene	12.99	105	1788775	14.28 ug/L	92
64) bromobenzene	13.49	156	388495	11.49 ug/L	92
65) bromoform	12.70	173	155820	12.85 ug/L	96
67) 1,2,3-trichloropropane	13.59	75	141209	7.75 ug/L	93
69) n-propylbenzene	13.71	91	2055967	12.39 ug/L	96
70) 2-chlorotoluene	13.84	91	1239912	12.72 ug/L	91
71) 4-chlorotoluene	14.03	91	1400253m2	13.19 ug/L	
72) 1,3,5-trimethylbenzene	14.03	105	1418826	12.92 ug/L	90
74) 1,1,2,2-tetrachloroethane	13.54	83	211589	9.21 ug/L	97
75) tert-butylbenzene	14.56	119	1082948	9.49 ug/L	91
76) sec-butylbenzene	14.91	105	1712475	9.50 ug/L	99
77) 1,2,4-trimethylbenzene	14.64	105	1434699	10.30 ug/L	90
78) 1,3-dichlorobenzene	15.07	146	777745	10.24 ug/L	97
79) p-isopropyltoluene	15.15	119	1428451	10.38 ug/L	96
81) 1,4-dichlorobenzene	15.21	146	756763	9.98 ug/L	97
82) 1,2-dichlorobenzene	15.76	146	650003	10.28 ug/L	97
83) n-butylbenzene	15.76	91	1384641	10.92 ug/L	100
84) 1,2-dibromo-3-chloropropan	16.86	75	30490	10.22 ug/L #	67
85) 1,2,4-trichlorobenzene	17.95	180	381405	9.45 ug/L	96
86) hexachlorobutadiene	18.16	225	221154	9.44 ug/L	98
87) naphthalene	18.22	128	467191	8.34 ug/L	100
88) 1,2,3-trichlorobenzene	18.50	180	297390	9.54 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100129.D Vial: 26
Acq On : 1 Oct 2008 11:32 pm Operator: BR
Sample : ,MS,ME0809C97-05AMS,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 19:06 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100130.D Vial: 27
Acq On : 2 Oct 2008 12:03 am Operator: BR
Sample : ,MSD,ME0809C97-05AMSD,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:27 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1692332	10.00 ug/L	0.01
44) chlorobenzene-d5	11.27	117	1031055	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.17	152	526083	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	476673	10.25 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	345617	11.51 ug/L	0.00
47) toluene-d8	9.01	98	1422090	10.73 ug/L	0.00
66) 4-bromofluorobenzene	13.25	95	504782	11.39 ug/L	0.00
Target Compounds					Qvalue
9) acrolein	3.03	56	21145	39.86 ug/L	83
11) 1,1-dichloroethene	3.14	96	259719	10.15 ug/L	96
12) acetone	3.22	43	54012	13.35 ug/L	89
14) carbon disulfide	3.40	76	1287129	11.26 ug/L	100
15) methylene chloride	3.72	84	389419	6.97 ug/L	88
16) acrylonitrile	4.00	53	53849	8.84 ug/L	88
17) trans-1,2-dichloroethene	4.05	96	419894	10.13 ug/L	96
18) methyl-t-butyl ether	4.05	73	545807	10.52 ug/L	100
19) acetonitrile	3.52	41	24840	15.26 ug/L #	81
21) 1,1-dichloroethane	4.55	63	748347	10.22 ug/L	96
22) vinyl acetate	4.62	43	313857	12.89 ug/L	95
23) cis-1,2-dichloroethene	5.27	96	447716	9.86 ug/L	99
24) 2,2-dichloropropane	5.26	77	590871	11.62 ug/L #	90
25) 2-butanone	5.30	72	17855	9.83 ug/L #	98
27) bromochloromethane	5.57	49	289249	9.29 ug/L	100
28) chloroform	5.68	83	765647	11.76 ug/L	99
30) 1,1,1-trichloroethane	5.90	97	643319	12.91 ug/L	99
32) carbon tetrachloride	6.12	117	585187	12.57 ug/L	97
34) benzene	6.38	78	1442713	9.48 ug/L	98
35) 1,1-dichloropropene	6.12	75	541782	10.47 ug/L	99
36) 1,2-dichloroethane	6.41	62	425271	12.02 ug/L	97
37) trichloroethene	7.28	95	428394	10.52 ug/L	89
39) 1,2-dichloropropane	7.56	63	331385	8.55 ug/L	95
41) dibromomethane	7.75	93	170436	10.79 ug/L	97
42) bromodichloromethane	7.98	83	472875	11.18 ug/L	98
45) cis-1,3-dichloropropene	8.63	75	468056	10.71 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100130.D Vial: 27
Acq On : 2 Oct 2008 12:03 am Operator: BR
Sample : ,MSD,ME0809C97-05AMSD,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:27 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

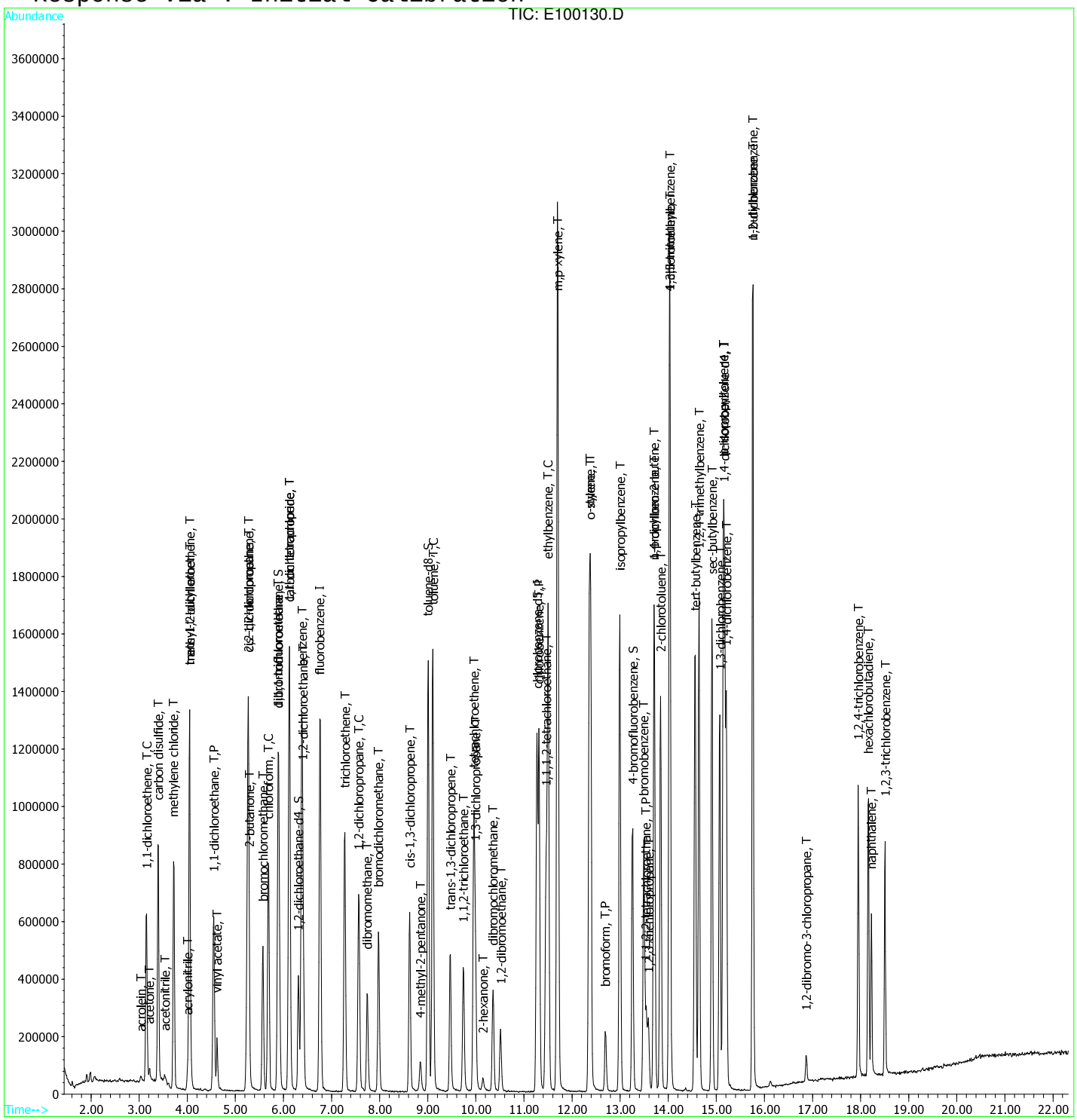
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	4-methyl-2-pentanone	8.85	43	119048	9.21 ug/L	97
48)	toluene	9.11	92	987720	11.78 ug/L	99
49)	1,1,2-trichloroethane	9.74	83	160585	10.19 ug/L	93
50)	1,3-dichloropropane	9.99	76	341190	10.35 ug/L	97
51)	tetrachloroethene	9.96	164	334437	11.59 ug/L	94
52)	trans-1,3-dichloropropene	9.47	75	363464	12.47 ug/L	90
53)	2-hexanone	10.14	43	62711	8.65 ug/L	88
54)	dibromochloromethane	10.36	129	272497	11.31 ug/L	99
55)	1,2-dibromoethane	10.52	107	217683	10.90 ug/L	96
56)	chlorobenzene	11.31	112	1025380	10.91 ug/L	94
57)	1,1,1,2-tetrachloroethane	11.46	131	325287	10.88 ug/L	96
58)	ethylbenzene	11.50	91	1825409	12.05 ug/L	94
59)	m,p-xylene	11.70	106	1406188	23.40 ug/L	90
61)	o-xylene	12.36	106	664651	11.49 ug/L	93
62)	styrene	12.39	104	1081491	11.87 ug/L	97
63)	isopropylbenzene	13.00	105	1789279	13.77 ug/L	98
64)	bromobenzene	13.50	156	399562	11.40 ug/L	95
65)	bromoform	12.69	173	154202	12.26 ug/L	97
67)	1,2,3-trichloropropane	13.59	75	142187	7.52 ug/L #	78
68)	1,4-dichloro-2-butene	13.71	89	46076	13.18 ug/L	58
69)	n-propylbenzene	13.70	91	2171110	12.61 ug/L	95
70)	2-chlorotoluene	13.84	91	1265530	12.51 ug/L	90
71)	4-chlorotoluene	14.03	91	1429845	12.98 ug/L	92
72)	1,3,5-trimethylbenzene	14.03	105	1430985	12.56 ug/L	94
74)	1,1,2,2-tetrachloroethane	13.54	83	217521	9.21 ug/L	93
75)	tert-butylbenzene	14.56	119	1148677	9.80 ug/L	95
76)	sec-butylbenzene	14.91	105	1796612	9.69 ug/L	99
77)	1,2,4-trimethylbenzene	14.64	105	1444345	10.09 ug/L	92
78)	1,3-dichlorobenzene	15.07	146	781666	10.01 ug/L	98
79)	p-isopropyltoluene	15.14	119	1518405	10.74 ug/L	97
81)	1,4-dichlorobenzene	15.21	146	768156	9.86 ug/L	99
82)	1,2-dichlorobenzene	15.75	146	643655	9.91 ug/L	98
83)	n-butylbenzene	15.76	91	1396822	10.72 ug/L	99
84)	1,2-dibromo-3-chloropropan	16.86	75	31450	10.25 ug/L #	76
85)	1,2,4-trichlorobenzene	17.95	180	394958	9.53 ug/L	95
86)	hexachlorobutadiene	18.16	225	221508	9.21 ug/L	96
87)	naphthalene	18.22	128	499242	8.67 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100130.D Vial: 27
Acq On : 2 Oct 2008 12:03 am Operator: BR
Sample : ,MSD,ME0809C97-05AMSD,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:27 2008 Quant Results File: 25ML0929.RES

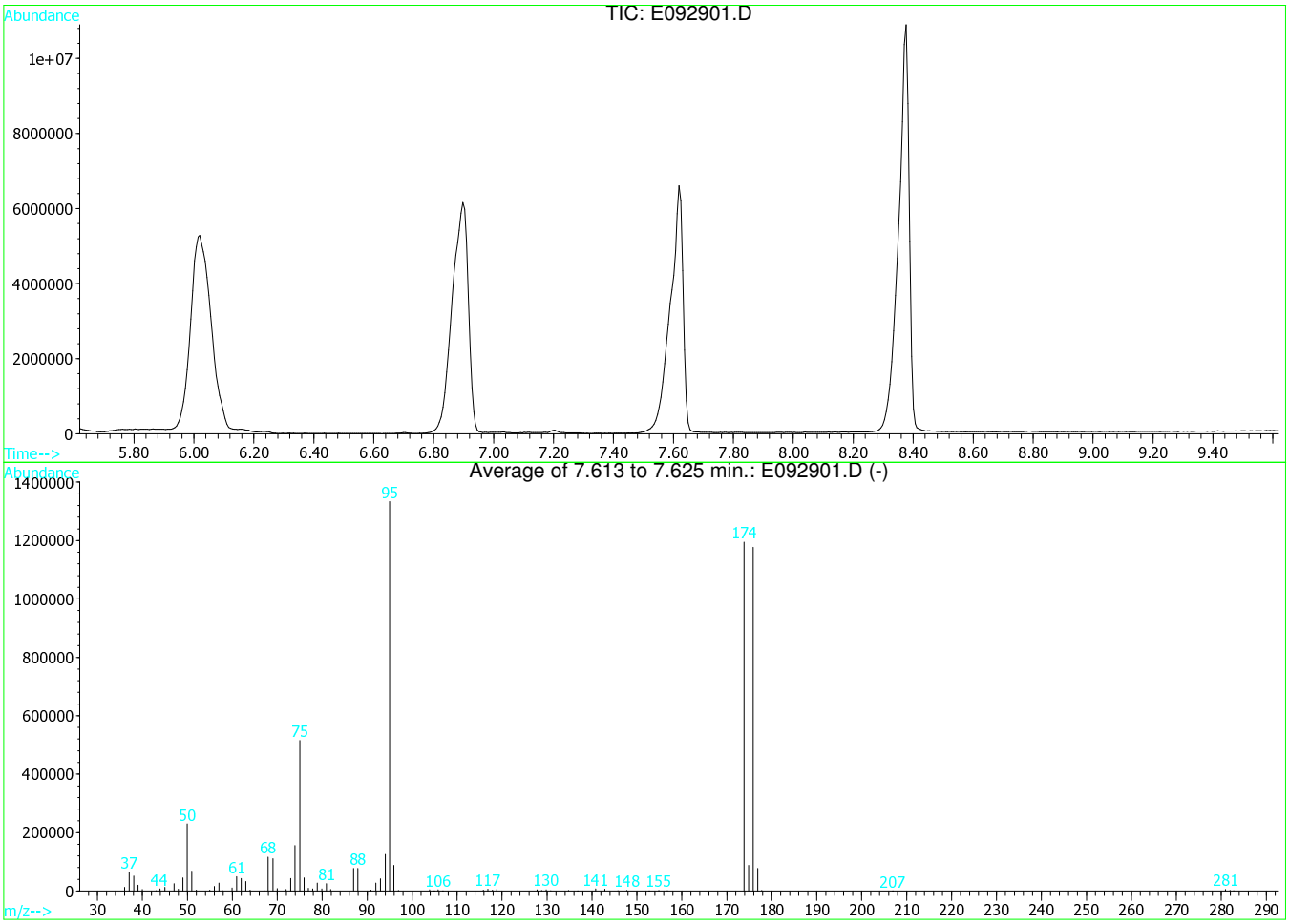
Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



TUNING RAW DATA

BFB

Data File : C:\HPCHEM\4\DATA\E092908\E092901.D Vial: 1
Acq On : 29 Sep 2008 8:23 am Operator: BR
Sample : ,TUNE,BFB TUNE,1, Inst : VOA5
Misc : BFB Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\4\METHODS\25ML0806.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/06/08-MISC& admirality



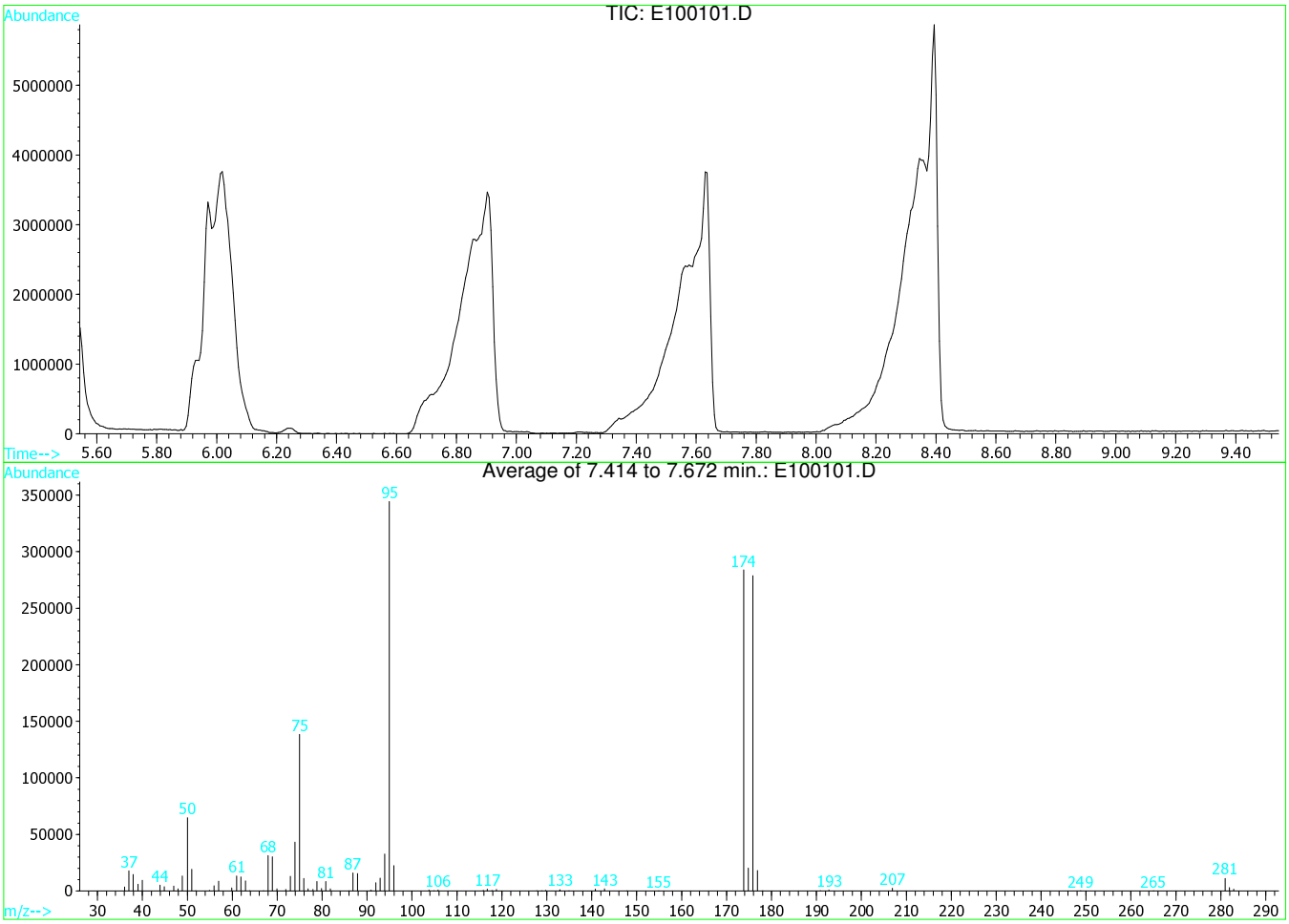
AutoFind: Scans 479, 480, 481; Background Corrected with Scan 454

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	229717	PASS
75	95	30	60	38.6	515371	PASS
95	95	100	100	100.0	1333760	PASS
96	95	5	9	6.6	88013	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	89.5	1194155	PASS
175	174	5	9	7.3	87643	PASS
176	174	95	101	98.6	1176917	PASS
177	176	5	9	6.6	77221	PASS

E092901.D 25ML0806.M Mon Sep 29 09:16:28 2008

BFB

Data File : C:\HPCHEM\4\DATA\E100108\E100101.D Vial: 1
Acq On : 1 Oct 2008 7:31 am Operator: NLT
Sample : ,TUNE,BFB TUNE,1, Inst : VOA5
Misc : BFB Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality



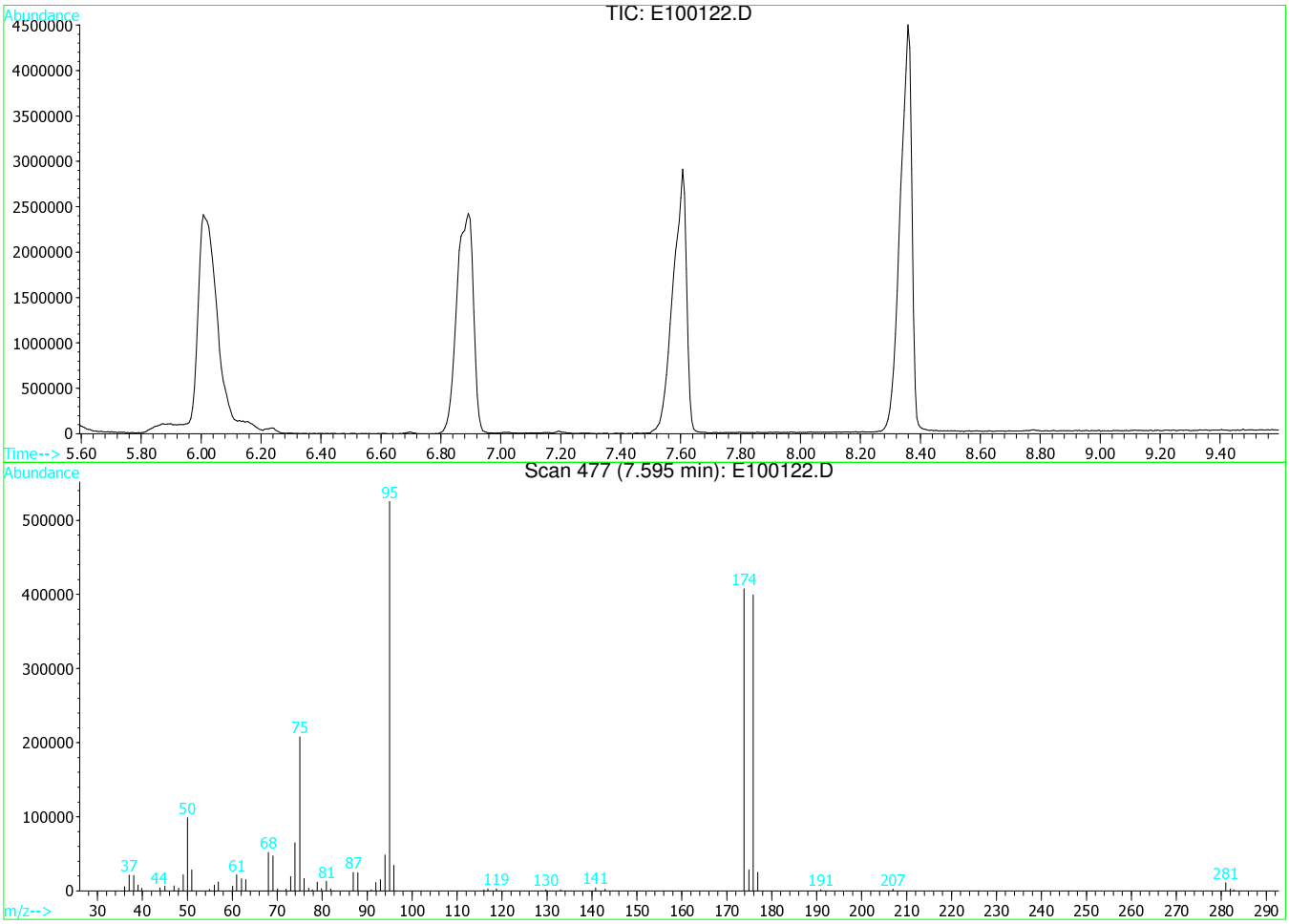
Spectrum Information: Average of 7.414 to 7.672 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	64788	PASS
75	95	30	60	40.2	138582	PASS
95	95	100	100	100.0	344447	PASS
96	95	5	9	6.5	22412	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	82.4	283816	PASS
175	174	5	9	7.1	20128	PASS
176	174	95	101	98.2	278829	PASS
177	176	5	9	6.4	17965	PASS

E100101.D 25ML0929.M Wed Oct 01 08:14:49 2008

BFB

Data File : C:\HPCHEM\4\DATA\E100108\E100122.D Vial: 19
Acq On : 1 Oct 2008 7:45 pm Operator: BR
Sample : ,TUNE,BFB TUNE,1, Inst : VOA5
Misc : BFB Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality



Spectrum Information: Scan 477

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	98728	PASS
75	95	30	60	39.6	208000	PASS
95	95	100	100	100.0	525440	PASS
96	95	5	9	6.6	34784	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	250	77.6	407616	PASS
175	174	5	9	7.0	28552	PASS
176	174	95	101	97.9	399168	PASS
177	176	5	9	6.3	25088	PASS

E100122.D 25ML0929.M Wed Oct 01 19:58:32 2008

INITIAL CALIBRATION RAW DATA

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration

Calibration Files
1 =E092915.D 2 =E092914.D 4 =E092905.D
8 =E092906.D 10 =E092907.D 20 =E092908.D

		Compound	1	2	4	8	10	20	Avg	%RSD
1)	I	fluorobenzene	----------ISTD----------							
2)	T	dichlorodifluoromet	0.088	0.132	0.118	0.122	0.137	0.137	0.126	15.30
3)	T,P	chloromethane	0.199	0.254	0.195	0.214	0.250	0.242	0.231	11.74
4)	T,C	vinyl chloride	0.200	0.255	0.201	0.220	0.245	0.255	0.236	12.40
5)	T	1,3-butadiene	0.165	0.212	0.171	0.186	0.215	0.216	0.199	12.58
6)	T	bromomethane	0.139	0.141	0.104	0.095	0.105	0.095	0.104	29.55
7)	T	chloroethane	0.103	0.128	0.109	0.120	0.129	0.125	0.119	8.14
8)	T	trichlorofluorometh	0.180	0.216	0.217	0.220	0.243	0.245	0.226	11.42
9)	T	acrolein	0.004	0.005	0.003	0.003	0.003	0.003	0.003	27.84
10)	T	trichlorotrifluoroe	0.125	0.154	0.163	0.154	0.168	0.173	0.161	11.99
11)	T,C	1,1-dichloroethene	0.141	0.152	0.142	0.148	0.154	0.160	0.151	5.41
12)	T	acetone		0.031	0.024	0.023	0.022	0.022	0.024	14.83
13)	T	iodomethane	0.108	0.120	0.185	0.212	0.233	0.257	0.198	32.11
14)	T	carbon disulfide	0.769	0.560	0.916	0.560	0.678	0.621	0.676	18.99
15)	T	methylene chloride		0.408	0.394	0.322	0.315	0.281	0.330	17.90
16)	T	acrylonitrile	0.036	0.036	0.035	0.035	0.036	0.037	0.036	3.82
17)	T	trans-1,2-dichloroe	0.229	0.252	0.228	0.238	0.250	0.261	0.245	5.50
18)	T	methyl-t-butyl ethe	0.284	0.280	0.292	0.308	0.317	0.333	0.307	7.29
19)	T	acetonitrile	0.011	0.010	0.009	0.009	0.009	0.009	0.010	8.70
20)	T	hexane	0.230	0.300	0.252	0.263	0.296	0.299	0.279	10.89
21)	T,P	1,1-dichloroethane	0.377	0.435	0.412	0.434	0.440	0.460	0.433	7.14
22)	T	vinyl acetate	0.131	0.128	0.140	0.140	0.145	0.157	0.144	9.45
23)	T	cis-1,2-dichloroeth	0.254	0.264	0.254	0.267	0.273	0.283	0.268	4.49
24)	T	2,2-dichloropropane	0.275	0.313	0.286	0.298	0.302	0.312	0.300	5.09
25)	T	2-butanone	0.012	0.012	0.009	0.010	0.010	0.011	0.011	11.29
26)	T	methyl acrylate	0.070	0.072	0.078	0.078	0.084	0.090	0.081	11.71
27)	T	bromochloromethane	0.174	0.173	0.172	0.184	0.192	0.191	0.184	6.34
28)	T,C	chloroform	0.362	0.370	0.372	0.386	0.392	0.404	0.385	4.51
29)	S	dibromofluoromethan	0.281	0.275	0.275	0.268	0.276	0.281	0.275	1.91
30)	T	1,1,1-trichloroetha	0.257	0.291	0.277	0.288	0.304	0.317	0.294	7.97
31)	T	cyclohexane	0.312	0.376	0.344	0.359	0.384	0.400	0.371	9.59
32)	T	carbon tetrachlorid	0.230	0.269	0.262	0.269	0.290	0.300	0.275	9.53
33)	S	1,2-dichloroethane-	0.188	0.175	0.177	0.176	0.180	0.175	0.177	2.90
34)	T	benzene	0.793	0.900	0.873	0.882	0.931	0.952	0.899	6.39
35)	T	1,1-dichloropropene	0.259	0.307	0.289	0.306	0.317	0.329	0.306	8.49
36)	T	1,2-dichloroethane	0.187	0.197	0.201	0.214	0.215	0.224	0.209	6.78
37)	T	trichloroethene	0.213	0.236	0.233	0.236	0.246	0.258	0.241	6.93
38)	T	ethyl acrylate		0.088	0.106	0.110	0.121	0.136	0.118	18.63
39)	T,C	1,2-dichloropropane	0.198	0.216	0.225	0.228	0.237	0.244	0.229	8.31

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA5

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration

Calibration Files
1 =E092915.D 2 =E092914.D 4 =E092905.D
8 =E092906.D 10 =E092907.D 20 =E092908.D

		Compound	1	2	4	8	10	20	Avg	%RSD
40)	T	methyl methacrylate		0.069	0.071	0.075	0.086	0.090	0.082	14.96
41)	T	dibromomethane	0.080	0.082	0.089	0.094	0.098	0.103	0.093	10.57
42)	T	bromodichloromethan	0.212	0.224	0.239	0.251	0.259	0.277	0.250	10.81
43)	T	2-chloroethyl vinyl		0.032	0.029	0.031	0.031	0.028	0.029	10.75
44)	I	chlorobenzene-d5	----------ISTD----------							
45)	T	cis-1,3-dichloropro	0.345	0.389	0.401	0.440	0.438	0.466	0.424	11.52
46)	T	4-methyl-2-pentanon		0.092	0.109	0.127	0.127	0.143	0.125	17.98
47)	S	toluene-d8	1.305	1.308	1.276	1.294	1.273	1.286	1.285	1.48
48)	T,C	toluene	0.697	0.836	0.771	0.831	0.831	0.852	0.813	7.41
49)	T	1,1,2-trichloroetha	0.130	0.144	0.143	0.159	0.153	0.169	0.153	10.08
50)	T	1,3-dichloropropane	0.287	0.297	0.298	0.337	0.324	0.338	0.320	8.34
51)	T	tetrachloroethene	0.240	0.299	0.263	0.284	0.276	0.289	0.280	8.16
52)	T	trans-1,3-dichlorop	0.222	0.240	0.268	0.299	0.295	0.318	0.283	14.68
53)	T	2-hexanone			0.050	0.061	0.065	0.079	0.070	26.00
54)	T	dibromochloromethan	0.181	0.209	0.212	0.242	0.239	0.268	0.234	15.34
55)	T	1,2-dibromoethane	0.162	0.173	0.188	0.202	0.196	0.212	0.194	10.95
56)	T,P	chlorobenzene	0.804	0.918	0.872	0.901	0.927	0.964	0.912	6.84
57)	T	1,1,1,2-tetrachloro	0.251	0.274	0.263	0.294	0.300	0.317	0.290	10.12
58)	T,C	ethylbenzene	1.294	1.429	1.389	1.491	1.492	1.578	1.470	7.50
59)	T	m,p-xylene	0.504	0.592	0.552	0.602	0.595	0.612	0.583	7.09
60)	T	butyl acrylate		0.225	0.254	0.333	0.340	0.384	0.328	23.95
61)	T	o-xylene	0.458	0.555	0.527	0.587	0.585	0.603	0.561	9.68
62)	T	styrene	0.670	0.830	0.774	0.948	0.947	0.996	0.884	14.64
63)	T	isopropylbenzene	1.028	1.235	1.171	1.291	1.301	1.384	1.260	10.43
64)	T	bromobenzene		0.315	0.307	0.339	0.338	0.363	0.340	8.01
65)	T,P	bromoform	0.094	0.103	0.105	0.127	0.129	0.140	0.122	18.25
66)	S	4-bromofluorobenzen	0.410	0.416	0.417	0.434	0.435	0.443	0.430	3.80
67)	T	1,2,3-trichloroprop		0.132	0.158	0.193	0.189	0.211	0.183	17.92
68)	T	1,4-dichloro-2-bute	0.028	0.034	0.030	0.036	0.033	0.037	0.034	11.85
69)	T	n-propylbenzene	1.340	1.644	1.498	1.732	1.746	1.831	1.670	11.64
70)	T	2-chlorotoluene	0.849	0.951	0.910	1.002	1.011	1.056	0.981	8.46
71)	T	4-chlorotoluene	0.909	1.055	1.000	1.115	1.105	1.143	1.068	8.17
72)	T	1,3,5-trimethylbenz	0.922	1.078	1.029	1.146	1.146	1.192	1.105	9.41
73)	I	1,4-dichlorobenzene-d	----------ISTD----------							
74)	T,P	1,1,2,2-tetrachloro	0.401	0.418	0.425	0.454	0.451	0.487	0.449	8.50
75)	T	tert-butylbenzene	1.837	2.396	2.134	2.207	2.198	2.406	2.229	9.36
76)	T	sec-butylbenzene		3.765	3.217	3.360	3.440	3.672	3.523	6.13
77)	T	1,2,4-trimethylbenz	2.340	2.837	2.593	2.746	2.735	2.900	2.721	7.35

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration

Calibration Files
1 =E092915.D 2 =E092914.D 4 =E092905.D
8 =E092906.D 10 =E092907.D 20 =E092908.D

		Compound	1	2	4	8	10	20	Avg	%RSD
78)	T	1,3-dichlorobenzene	1.252	1.530	1.419	1.488	1.499	1.598	1.484	8.10
79)	T	p-isopropyltoluene	2.205	3.056	2.467	2.588	2.729	2.897	2.688	10.83
80)	T	dicyclopentadiene	3.321	4.184	3.517	3.597	3.727	4.004	3.766	8.26
81)	T	1,4-dichlorobenzene	1.439	1.579	1.382	1.425	1.458	1.538	1.481	4.94
82)	T	1,2-dichlorobenzene	1.080	1.273	1.156	1.248	1.233	1.337	1.235	7.30
83)	T	n-butylbenzene	2.066	2.791	2.285	2.438	2.484	2.654	2.476	9.84
84)	T	1,2-dibromo-3-chlor	0.060	0.067	0.060	0.055	0.054	0.055	0.058	7.77
85)	T	1,2,4-trichlorobenz	0.730	0.875	0.702	0.747	0.781	0.825	0.788	8.40
86)	T	hexachlorobutadiene	0.456	0.518	0.404	0.425	0.433	0.469	0.457	8.85
87)	T	naphthalene	0.909	1.195	0.963	1.068	1.092	1.202	1.094	11.38
88)	T	1,2,3-trichlorobenz	0.603	0.686	0.538	0.584	0.582	0.622	0.609	7.95
89)	T	2-Methylnaphthalene		0.288	0.352	0.390	0.434	0.487	0.413	21.20

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092905.D Vial: 5
Acq On : 29 Sep 2008 10:14 am Operator: BR
Sample : ,ICAL,ICAL_W25 4 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:02 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	2386590	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	1620299	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.17	152	672887	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.88	113	655666	10.71 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	423070	11.14 ug/L	0.00
47) toluene-d8	9.00	98	2067756	10.55 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	676082	8.88 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	112240	1.94 ug/L	89
3) chloromethane	1.67	50	186575	2.34 ug/L	97
4) vinyl chloride	1.79	62	192321	2.56 ug/L	100
5) 1,3-butadiene	1.83	39	163076	3.42 ug/L	95
6) bromomethane	2.15	94	99738	4.96 ug/L	98
7) chloroethane	2.26	64	104063	2.61 ug/L	99
8) trichlorofluoromethane	2.56	101	207244	3.93 ug/L	95
9) acrolein	3.03	56	25434	33.18 ug/L	86
10) trichlorotrifluoroethane	3.15	101	155613	4.17 ug/L	100
11) 1,1-dichloroethene	3.15	96	135224	3.84 ug/L	94
12) acetone	3.22	43	23101	2.29 ug/L	92
13) iodomethane	3.32	142	176973	4.80 ug/L	100
14) carbon disulfide	3.39	76	874223	4.84 ug/L	99
15) methylene chloride	3.72	84	375967	4.43 ug/L	90
16) acrylonitrile	3.99	53	330175	46.45 ug/L	94
17) trans-1,2-dichloroethene	4.04	96	217354	3.67 ug/L	94
18) methyl-t-butyl ether	4.04	73	278405	4.29 ug/L	91
19) acetonitrile	3.52	41	82414	30.02 ug/L	91
20) hexane	4.37	57	240368	4.13 ug/L #	95
21) 1,1-dichloroethane	4.55	63	393146	4.06 ug/L	95
22) vinyl acetate	4.61	43	133818	4.79 ug/L	99
23) cis-1,2-dichloroethene	5.27	96	242888	3.83 ug/L	93
24) 2,2-dichloropropane	5.25	77	272993	3.97 ug/L	98
25) 2-butanone	5.28	72	8716	4.32 ug/L #	77
26) methyl acrylate	5.41	55	74162	4.37 ug/L #	91
27) bromochloromethane	5.56	49	163896	4.81 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092905.D Vial: 5
Acq On : 29 Sep 2008 10:14 am Operator: BR
Sample : ,ICAL,ICAL_W25 4 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:02 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.68	83	355121	4.05 ug/L	98
30) 1,1,1-trichloroethane	5.89	97	264260	3.56 ug/L	99
31) cyclohexane	5.97	56	328820	4.34 ug/L	99
32) carbon tetrachloride	6.12	117	249833	3.81 ug/L	96
34) benzene	6.38	78	833840	4.14 ug/L	99
35) 1,1-dichloropropene	6.12	75	275669	4.07 ug/L	96
36) 1,2-dichloroethane	6.41	62	192067	4.18 ug/L	94
37) trichloroethene	7.27	95	222673	3.92 ug/L	95
38) ethyl acrylate	7.43	55	101409	4.02 ug/L	94
39) 1,2-dichloropropane	7.56	63	215058	4.47 ug/L	98
40) methyl methacrylate	7.75	41	67725	3.82 ug/L	91
41) dibromomethane	7.73	93	85270	4.04 ug/L	96
42) bromodichloromethane	7.98	83	228123	4.05 ug/L	100
43) 2-chloroethyl vinyl ether	8.41	63	27830	3.00 ug/L #	85
45) cis-1,3-dichloropropene	8.62	75	259787	4.76 ug/L	98
46) 4-methyl-2-pentanone	8.85	43	70910	4.38 ug/L	99
48) toluene	9.10	92	499830	4.11 ug/L	97
49) 1,1,2-trichloroethane	9.73	83	92800	4.90 ug/L	95
50) 1,3-dichloropropane	9.99	76	192965	4.89 ug/L	99
51) tetrachloroethene	9.96	164	170456	4.07 ug/L	96
52) trans-1,3-dichloropropene	9.47	75	173547	4.68 ug/L	95
53) 2-hexanone	10.15	43	32264	3.24 ug/L	87
54) dibromochloromethane	10.35	129	137481	4.04 ug/L	100
55) 1,2-dibromoethane	10.51	107	121844	4.53 ug/L	97
56) chlorobenzene	11.31	112	565133	3.80 ug/L	96
57) 1,1,1,2-tetrachloroethane	11.46	131	170266	3.86 ug/L	90
58) ethylbenzene	11.49	91	900232	3.50 ug/L	97
59) m,p-xylene	11.70	106	714892	6.26 ug/L	95
60) butyl acrylate	12.35	55	164458	2.78 ug/L	91
61) o-xylene	12.35	106	341791	3.13 ug/L	92
62) styrene	12.38	104	501485	2.95 ug/L	95
63) isopropylbenzene	12.99	105	759076	2.93 ug/L	100
64) bromobenzene	13.49	156	199051	3.11 ug/L	100
65) bromoform	12.70	173	68014	3.36 ug/L	85
67) 1,2,3-trichloropropane	13.58	75	102223	3.73 ug/L #	82
68) 1,4-dichloro-2-butene	13.70	89	19434	3.06 ug/L	84
69) n-propylbenzene	13.70	91	970833	2.99 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092905.D Vial: 5
Acq On : 29 Sep 2008 10:14 am Operator: BR
Sample : ,ICAL,ICAL_W25 4 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:02 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

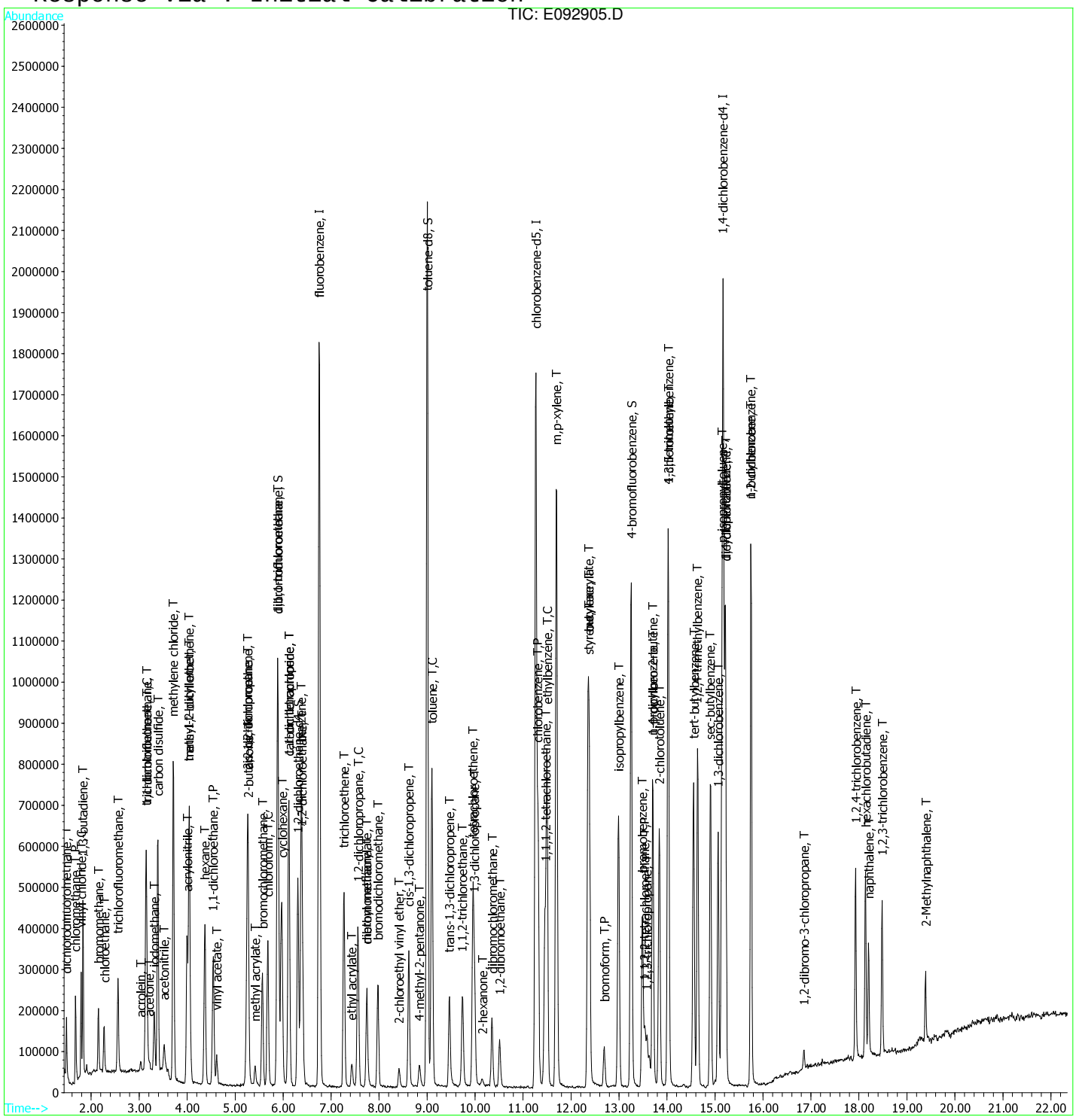
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70) 2-chlorotoluene	13.84	91	589846	2.98 ug/L	100
71) 4-chlorotoluene	14.02	91	648332	3.00 ug/L	98
72) 1,3,5-trimethylbenzene	14.02	105	666637	2.72 ug/L	98
74) 1,1,2,2-tetrachloroethane	13.54	83	114287	4.73 ug/L	98
75) tert-butylbenzene	14.56	119	574278	3.61 ug/L	98
76) sec-butylbenzene	14.90	105	865873	3.57 ug/L	98
77) 1,2,4-trimethylbenzene	14.64	105	697986	3.57 ug/L	98
78) 1,3-dichlorobenzene	15.07	146	382054	3.71 ug/L	99
79) p-isopropyltoluene	15.14	119	663957	3.44 ug/L	99
80) dicyclopentadiene	15.23	66	946629	4.47 ug/L	98
81) 1,4-dichlorobenzene	15.21	146	371927	3.76 ug/L	98
82) 1,2-dichlorobenzene	15.75	146	311112	3.77 ug/L	97
83) n-butylbenzene	15.75	91	615048	3.73 ug/L	100
84) 1,2-dibromo-3-chloropropan	16.85	75	16050	5.06 ug/L	84
85) 1,2,4-trichlorobenzene	17.93	180	188881	4.45 ug/L	95
86) hexachlorobutadiene	18.14	225	108793	4.72 ug/L	99
87) naphthalene	18.20	128	259255	4.51 ug/L	100
88) 1,2,3-trichlorobenzene	18.48	180	144735	4.56 ug/L	97
89) 2-Methylnaphthalene	19.39	142	94694	4.91 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092908\E092905.D Vial: 5
Acq On : 29 Sep 2008 10:14 am Operator: BR
Sample : ,ICAL,ICAL_W25 4 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:02 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092906.D Vial: 6
Acq On : 29 Sep 2008 10:45 am Operator: BR
Sample : ,ICAL,ICAL_W25 8 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:09 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	2363654	10.00 ug/L	0.00
44) chlorobenzene-d5	11.26	117	1563752	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.17	152	694252	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	634215	10.23 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	415668	10.60 ug/L	0.00
47) toluene-d8	9.01	98	2023160	10.62 ug/L	0.00
66) 4-bromofluorobenzene	13.25	95	678310	9.43 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	230901	4.38 ug/L	100
3) chloromethane	1.67	50	404981	5.59 ug/L	97
4) vinyl chloride	1.79	62	415700	5.92 ug/L	99
5) 1,3-butadiene	1.83	39	352421	7.65 ug/L	95
6) bromomethane	2.15	94	179813	8.69 ug/L	99
7) chloroethane	2.27	64	226307	6.18 ug/L	97
8) trichlorofluoromethane	2.56	101	415346	7.81 ug/L	100
9) acrolein	3.03	56	49866	68.03 ug/L	97
10) trichlorotrifluoroethane	3.15	101	292039	7.96 ug/L	100
11) 1,1-dichloroethene	3.15	96	280157	8.19 ug/L	93
12) acetone	3.21	43	43614	5.59 ug/L	100
13) iodomethane	3.32	142	400156	10.04 ug/L	100
14) carbon disulfide	3.39	76	1058492	5.54 ug/L	99
15) methylene chloride	3.71	84	609694	7.19 ug/L	96
16) acrylonitrile	4.00	53	656396	90.21 ug/L	100
17) trans-1,2-dichloroethene	4.04	96	449133	7.95 ug/L	91
18) methyl-t-butyl ether	4.05	73	581976	8.85 ug/L	91
19) acetonitrile	3.52	41	177001	69.06 ug/L #	96
20) hexane	4.37	57	497045	8.52 ug/L #	100
21) 1,1-dichloroethane	4.54	63	820511	8.61 ug/L	99
22) vinyl acetate	4.62	43	264372	9.21 ug/L	93
23) cis-1,2-dichloroethene	5.27	96	505800	8.20 ug/L	96
24) 2,2-dichloropropane	5.26	77	563778	8.37 ug/L	95
25) 2-butanone	5.28	72	18566	9.21 ug/L #	65
26) methyl acrylate	5.42	55	147164	8.77 ug/L	96
27) bromochloromethane	5.56	49	347116	9.84 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092906.D Vial: 6
Acq On : 29 Sep 2008 10:45 am Operator: BR
Sample : ,ICAL,ICAL_W25 8 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:09 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.68	83	728998	8.44 ug/L	98
30) 1,1,1-trichloroethane	5.90	97	545399	7.62 ug/L	97
31) cyclohexane	5.97	56	679535	8.81 ug/L	97
32) carbon tetrachloride	6.12	117	508994	7.97 ug/L	98
34) benzene	6.38	78	1668469	8.46 ug/L	99
35) 1,1-dichloropropene	6.11	75	578921	8.67 ug/L	99
36) 1,2-dichloroethane	6.41	62	404814	8.76 ug/L	100
37) trichloroethene	7.27	95	446057	8.02 ug/L	97
38) ethyl acrylate	7.43	55	208471	8.29 ug/L	99
39) 1,2-dichloropropane	7.56	63	430267	8.88 ug/L	98
40) methyl methacrylate	7.75	41	141168	8.08 ug/L	94
41) dibromomethane	7.74	93	177114	8.44 ug/L	91
42) bromodichloromethane	7.97	83	475031	8.46 ug/L	98
43) 2-chloroethyl vinyl ether	8.42	63	57811	6.52 ug/L #	92
45) cis-1,3-dichloropropene	8.62	75	550561	10.06 ug/L	97
46) 4-methyl-2-pentanone	8.84	43	158589	10.13 ug/L	96
48) toluene	9.11	92	1039723	9.01 ug/L	97
49) 1,1,2-trichloroethane	9.74	83	198299	10.20 ug/L	97
50) 1,3-dichloropropane	9.99	76	421694	10.52 ug/L	96
51) tetrachloroethene	9.96	164	354783	8.86 ug/L	96
52) trans-1,3-dichloropropene	9.46	75	374568	10.11 ug/L	94
53) 2-hexanone	10.14	43	75956	8.07 ug/L	84
54) dibromochloromethane	10.36	129	303236	9.15 ug/L	98
55) 1,2-dibromoethane	10.51	107	252986	9.49 ug/L	97
56) chlorobenzene	11.31	112	1127370	8.13 ug/L	96
57) 1,1,1,2-tetrachloroethane	11.46	131	367590	8.71 ug/L	94
58) ethylbenzene	11.50	91	1864910	7.98 ug/L	96
59) m,p-xylene	11.70	106	1506161	14.84 ug/L	97
60) butyl acrylate	12.35	55	416454	7.86 ug/L	100
61) o-xylene	12.35	106	733775	7.52 ug/L	100
62) styrene	12.38	104	1186561	7.85 ug/L	98
63) isopropylbenzene	12.99	105	1615047	7.09 ug/L	98
64) bromobenzene	13.50	156	423789	7.21 ug/L	95
65) bromoform	12.70	173	159337	8.30 ug/L	95
67) 1,2,3-trichloropropane	13.59	75	241169	9.10 ug/L	91
68) 1,4-dichloro-2-butene	13.70	89	44674	7.78 ug/L	74
69) n-propylbenzene	13.70	91	2167188	7.58 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092906.D Vial: 6
Acq On : 29 Sep 2008 10:45 am Operator: BR
Sample : ,ICAL,ICAL_W25 8 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:09 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

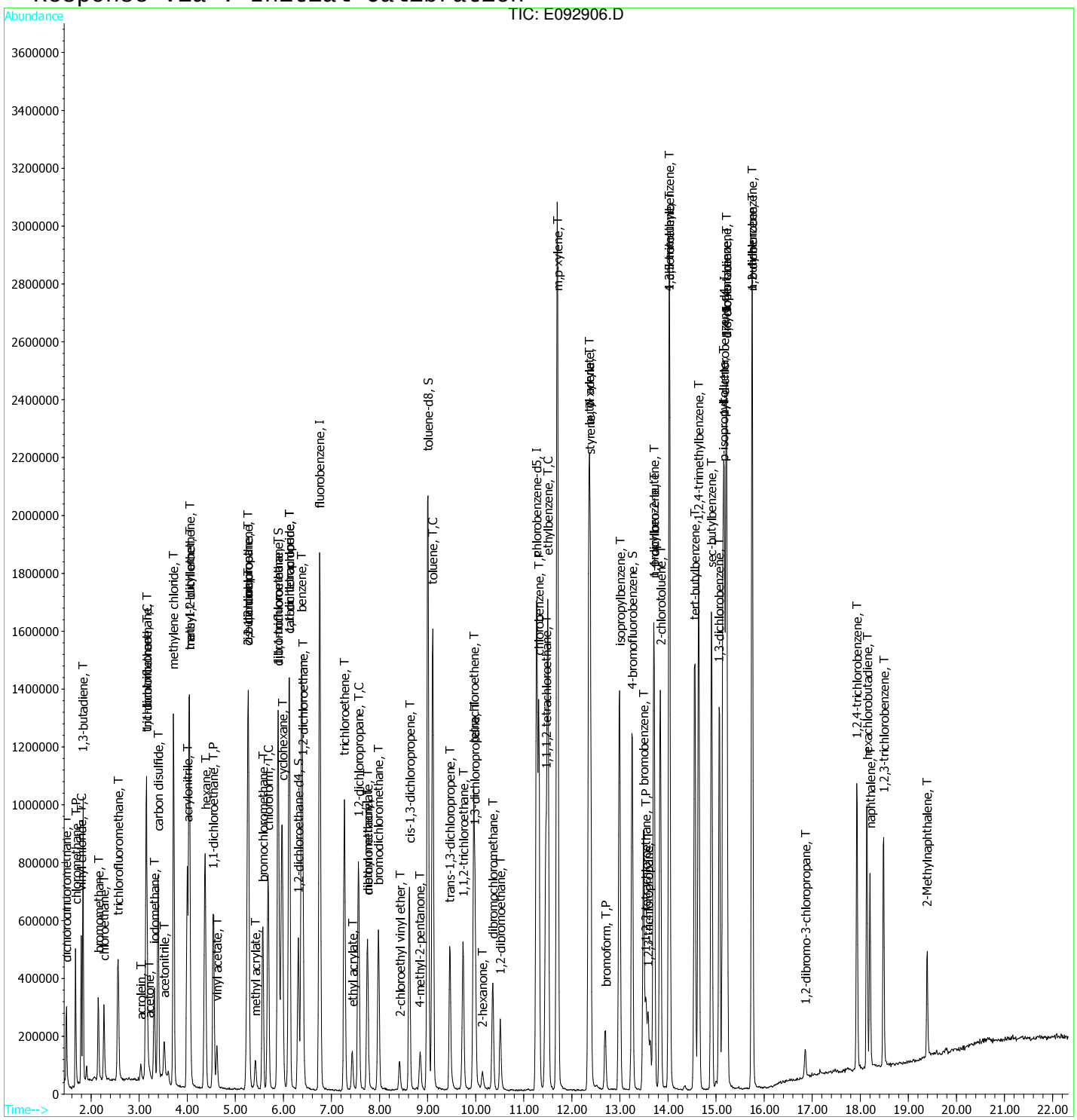
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70) 2-chlorotoluene	13.84	91	1254014	7.10 ug/L	99
71) 4-chlorotoluene	14.03	91	1395135	7.23 ug/L	98
72) 1,3,5-trimethylbenzene	14.03	105	1433493	6.75 ug/L	100
74) 1,1,2,2-tetrachloroethane	13.54	83	251890	9.59 ug/L	93
75) tert-butylbenzene	14.56	119	1225960	7.89 ug/L	94
76) sec-butylbenzene	14.90	105	1865881	8.02 ug/L	99
77) 1,2,4-trimethylbenzene	14.64	105	1524890	8.05 ug/L	98
78) 1,3-dichlorobenzene	15.07	146	826332	8.10 ug/L	99
79) p-isopropyltoluene	15.14	119	1437243	7.77 ug/L	98
80) dicyclopentadiene	15.22	66	1997906	9.00 ug/L	98
81) 1,4-dichlorobenzene	15.21	146	791651	8.08 ug/L	98
82) 1,2-dichlorobenzene	15.75	146	693087	8.46 ug/L	97
83) n-butylbenzene	15.75	91	1353821	8.36 ug/L	98
84) 1,2-dibromo-3-chloropropan	16.85	75	30796	9.00 ug/L	90
85) 1,2,4-trichlorobenzene	17.94	180	414823	9.24 ug/L	97
86) hexachlorobutadiene	18.14	225	236184	9.82 ug/L	99
87) naphthalene	18.20	128	593266	9.55 ug/L	100
88) 1,2,3-trichlorobenzene	18.49	180	324245	9.57 ug/L	99
89) 2-Methylnaphthalene	19.39	142	216567	10.09 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092908\E092906.D Vial: 6
Acq On : 29 Sep 2008 10:45 am Operator: BR
Sample : ,ICAL,ICAL_W25 8 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:09 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092907.D Vial: 7
Acq On : 29 Sep 2008 11:16 am Operator: BR
Sample : ,ICAL,ICAL_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:40 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Tue Aug 12 08:58:36 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	2271233	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	1565290	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.17	152	691891	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	626099	11.37 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	408523	12.60 ug/L	0.00
47) toluene-d8	9.01	98	1992888	11.01 ug/L	0.00
66) 4-bromofluorobenzene	13.25	95	680654	8.71 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	310439	3.98 ug/L	92
3) chloromethane	1.67	50	566774	5.94 ug/L	97
4) vinyl chloride	1.79	62	555805	6.21 ug/L	99
5) 1,3-butadiene	1.83	39	487780	10.10 ug/L	91
6) bromomethane	2.15	94	237623	15.26 ug/L	97
7) chloroethane	2.27	64	292063	6.27 ug/L	90
8) trichlorofluoromethane	2.56	101	551424	10.18 ug/L	95
9) acrolein	3.03	56	58665	73.36 ug/L	99
10) trichlorotrifluoroethane	3.15	101	382127	9.78 ug/L	100
11) 1,1-dichloroethene	3.14	96	349278	10.31 ug/L	98
12) acetone	3.21	43	49293	4.77 ug/L	83
13) iodomethane	3.32	142	529570	18.69 ug/L	100
14) carbon disulfide	3.39	76	1538876	12.30 ug/L	97
15) methylene chloride	3.71	84	714768	9.44 ug/L #	85
16) acrylonitrile	4.00	53	807713	129.90 ug/L	98
17) trans-1,2-dichloroethene	4.05	96	568887	9.71 ug/L	99
18) methyl-t-butyl ether	4.05	73	719638	12.23 ug/L	100
19) acetonitrile	3.53	41	212577	62.22 ug/L	95
20) hexane	4.37	57	673066	12.65 ug/L #	98
21) 1,1-dichloroethane	4.54	63	1000365	11.02 ug/L	97
22) vinyl acetate	4.62	43	330060	12.65 ug/L	97
23) cis-1,2-dichloroethene	5.27	96	620140	9.94 ug/L	91
24) 2,2-dichloropropane	5.26	77	686878	10.76 ug/L	96
25) 2-butanone	5.29	72	22913	11.84 ug/L #	68
26) methyl acrylate	5.42	55	191382	11.32 ug/L #	89
27) bromochloromethane	5.57	49	437192	15.50 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092907.D Vial: 7
Acq On : 29 Sep 2008 11:16 am Operator: BR
Sample : ,ICAL,ICAL_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:40 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Tue Aug 12 08:58:36 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.68	83	890361	10.67 ug/L	97
30) 1,1,1-trichloroethane	5.90	97	690244	9.41 ug/L	92
31) cyclohexane	5.98	56	872533	12.82 ug/L	93
32) carbon tetrachloride	6.12	117	658100	10.52 ug/L	92
34) benzene	6.38	78	2114609	10.44 ug/L	98
35) 1,1-dichloropropene	6.11	75	719206	11.65 ug/L	91
36) 1,2-dichloroethane	6.41	62	488801	11.25 ug/L	93
37) trichloroethene	7.28	95	559093	9.83 ug/L	97
38) ethyl acrylate	7.43	55	275209	10.53 ug/L	98
39) 1,2-dichloropropane	7.56	63	537608	12.47 ug/L	90
40) methyl methacrylate	7.76	41	194498	11.41 ug/L	86
41) dibromomethane	7.74	93	222932	11.14 ug/L	93
42) bromodichloromethane	7.97	83	588959	10.90 ug/L	90
43) 2-chloroethyl vinyl ether	8.42	63	70486	7.23 ug/L #	91
45) cis-1,3-dichloropropene	8.62	75	685154	14.45 ug/L	92
46) 4-methyl-2-pentanone	8.85	43	198733	12.56 ug/L	93
48) toluene	9.11	92	1300799	10.97 ug/L	97
49) 1,1,2-trichloroethane	9.74	83	238781	14.88 ug/L	87
50) 1,3-dichloropropane	9.99	76	506378	15.30 ug/L	96
51) tetrachloroethene	9.96	164	431825	10.68 ug/L	93
52) trans-1,3-dichloropropene	9.47	75	461664	14.13 ug/L	94
53) 2-hexanone	10.14	43	101521	9.31 ug/L	85
54) dibromochloromethane	10.36	129	374123	11.50 ug/L	94
55) 1,2-dibromoethane	10.51	107	306596	12.25 ug/L #	99
56) chlorobenzene	11.31	112	1451180	9.42 ug/L	94
57) 1,1,1,2-tetrachloroethane	11.46	131	469870	11.20 ug/L	96
58) ethylbenzene	11.50	91	2335713	8.44 ug/L	95
59) m,p-xylene	11.70	106	1864258	14.51 ug/L	90
60) butyl acrylate	12.35	55	532653	7.89 ug/L	99
61) o-xylene	12.35	106	915028	7.53 ug/L	95
62) styrene	12.38	104	1482017	7.79 ug/L	94
63) isopropylbenzene	12.99	105	2036194	6.89 ug/L	100
64) bromobenzene	13.50	156	529702	7.40 ug/L	89
65) bromoform	12.70	173	202103	10.15 ug/L	93
67) 1,2,3-trichloropropane	13.59	75	295979	11.13 ug/L #	73
68) 1,4-dichloro-2-butene	13.70	89	51584	7.01 ug/L	66
69) n-propylbenzene	13.70	91	2733545	7.38 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092907.D Vial: 7
Acq On : 29 Sep 2008 11:16 am Operator: BR
Sample : ,ICAL,ICAL_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:40 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Tue Aug 12 08:58:36 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

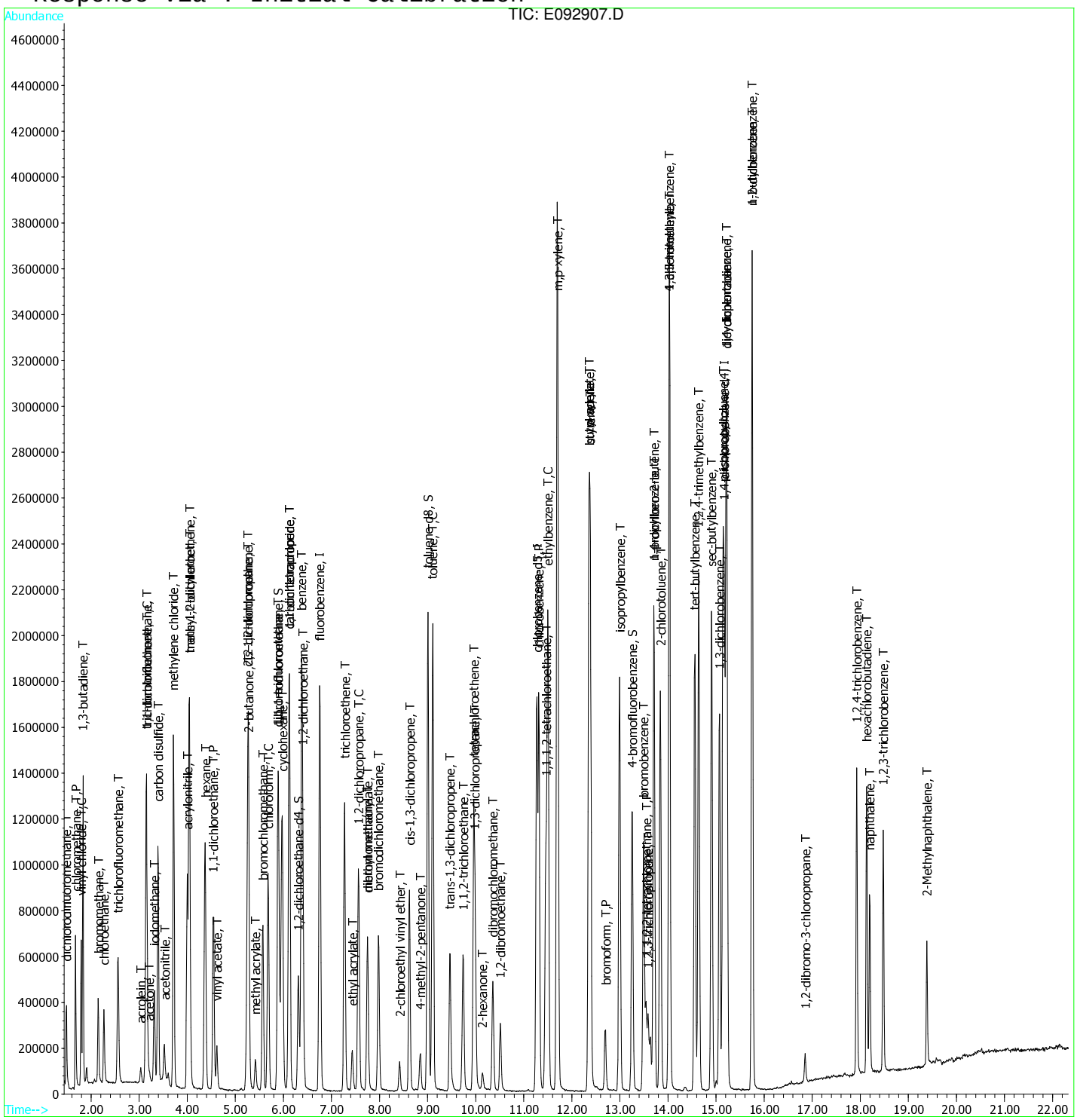
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70)	2-chlorotoluene	13.84	91	1582761	7.07	ug/L		99
71)	4-chlorotoluene	14.03	91	1729674	7.24	ug/L		96
72)	1,3,5-trimethylbenzene	14.03	105	1793373	6.09	ug/L		98
74)	1,1,2,2-tetrachloroethane	13.55	83	312005	14.05	ug/L		91
75)	tert-butylbenzene	14.56	119	1520463	8.30	ug/L		95
76)	sec-butylbenzene	14.90	105	2380329	8.32	ug/L		96
77)	1,2,4-trimethylbenzene	14.64	105	1892541	8.16	ug/L		99
78)	1,3-dichlorobenzene	15.07	146	1037400	8.80	ug/L		98
79)	p-isopropyltoluene	15.14	119	1888347	8.36	ug/L		98
80)	dicyclopentadiene	15.23	66	2578830	12.17	ug/L		96
81)	1,4-dichlorobenzene	15.21	146	1008836	8.95	ug/L		98
82)	1,2-dichlorobenzene	15.75	146	853180	9.09	ug/L		100
83)	n-butylbenzene	15.75	91	1718349	9.50	ug/L		97
84)	1,2-dibromo-3-chloropropan	16.85	75	37187	12.12	ug/L	#	84
85)	1,2,4-trichlorobenzene	17.93	180	540144	13.80	ug/L		91
86)	hexachlorobutadiene	18.13	225	299525	13.46	ug/L		96
87)	naphthalene	18.19	128	755203	14.71	ug/L		100
88)	1,2,3-trichlorobenzene	18.48	180	402995	13.99	ug/L		95
89)	2-Methylnaphthalene	19.38	142	300487	24.96	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092908\E092907.D Vial: 7
Acq On : 29 Sep 2008 11:16 am Operator: BR
Sample : ,ICAL,ICAL_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:40 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Tue Aug 12 08:58:36 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092908.D Vial: 8
Acq On : 29 Sep 2008 11:47 am Operator: BR
Sample : ,ICAL,ICAL_W25 20 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:15 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	2304257	10.00 ug/L	0.00
44) chlorobenzene-d5	11.26	117	1586658	10.00 ug/L	-0.01
73) 1,4-dichlorobenzene-d4	15.17	152	692428	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	647933	10.53 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	403137	10.16 ug/L	0.00
47) toluene-d8	9.01	98	2039762	10.43 ug/L	0.00
66) 4-bromofluorobenzene	13.25	95	703659	9.73 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	630105	14.16 ug/L	99
3) chloromethane	1.67	50	1113261	17.20 ug/L	98
4) vinyl chloride	1.79	62	1176866	18.56 ug/L	97
5) 1,3-butadiene	1.83	39	996097	22.76 ug/L	97
6) bromomethane	2.14	94	435528	21.02 ug/L	98
7) chloroethane	2.26	64	575202	17.45 ug/L	97
8) trichlorofluoromethane	2.56	101	1130065	21.94 ug/L	97
9) acrolein	3.03	56	118110	172.03 ug/L	87
10) trichlorotrifluoroethane	3.15	101	794987	22.32 ug/L	100
11) 1,1-dichloroethene	3.14	96	737236	22.19 ug/L	98
12) acetone	3.21	43	99422	15.08 ug/L	95
13) iodomethane	3.31	142	1183758	28.51 ug/L	100
14) carbon disulfide	3.39	76	2862807	15.30 ug/L	99
15) methylene chloride	3.71	84	1295301	15.61 ug/L	95
16) acrylonitrile	4.00	53	1723566	236.08 ug/L	99
17) trans-1,2-dichloroethene	4.04	96	1202156	22.28 ug/L	88
18) methyl-t-butyl ether	4.05	73	1533048	23.38 ug/L	96
19) acetonitrile	3.52	41	435329	180.20 ug/L	95
20) hexane	4.37	57	1378659	24.59 ug/L #	99
21) 1,1-dichloroethane	4.54	63	2117721	22.84 ug/L	96
22) vinyl acetate	4.62	43	724467	25.25 ug/L	97
23) cis-1,2-dichloroethene	5.27	96	1302268	21.86 ug/L	97
24) 2,2-dichloropropane	5.25	77	1437319	21.88 ug/L	97
25) 2-butanone	5.29	72	50069	25.27 ug/L	90
26) methyl acrylate	5.41	55	412716	24.74 ug/L	98
27) bromochloromethane	5.56	49	882317	24.18 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092908.D Vial: 8
Acq On : 29 Sep 2008 11:47 am Operator: BR
Sample : ,ICAL,ICAL_W25 20 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:15 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.68	83	1861958	21.97 ug/L	100
30) 1,1,1-trichloroethane	5.90	97	1463112	21.39 ug/L	99
31) cyclohexane	5.97	56	1841377	24.44 ug/L	96
32) carbon tetrachloride	6.12	117	1383814	22.41 ug/L	98
34) benzene	6.38	78	4387677	22.96 ug/L	99
35) 1,1-dichloropropene	6.11	75	1515044	23.17 ug/L	99
36) 1,2-dichloroethane	6.41	62	1030503	22.50 ug/L	97
37) trichloroethene	7.27	95	1189546	22.35 ug/L	96
38) ethyl acrylate	7.42	55	628465	25.53 ug/L	96
39) 1,2-dichloropropane	7.56	63	1123620	23.42 ug/L	98
40) methyl methacrylate	7.75	41	416397	24.23 ug/L	94
41) dibromomethane	7.74	93	476134	22.75 ug/L	98
42) bromodichloromethane	7.97	83	1276545	23.14 ug/L	99
43) 2-chloroethyl vinyl ether	8.42	63	128365	15.29 ug/L	92
45) cis-1,3-dichloropropene	8.62	75	1478777	25.46 ug/L	97
46) 4-methyl-2-pentanone	8.84	43	452960	26.98 ug/L	92
48) toluene	9.11	92	2704126	23.12 ug/L	99
49) 1,1,2-trichloroethane	9.74	83	537497	25.68 ug/L	92
50) 1,3-dichloropropane	9.99	76	1072523	24.74 ug/L	100
51) tetrachloroethene	9.96	164	916863	22.57 ug/L	95
52) trans-1,3-dichloropropene	9.46	75	1008611	25.50 ug/L	95
53) 2-hexanone	10.13	43	251008	26.72 ug/L	89
54) dibromochloromethane	10.36	129	849663	24.69 ug/L	96
55) 1,2-dibromoethane	10.51	107	672726	24.08 ug/L	97
56) chlorobenzene	11.31	112	3060354	22.28 ug/L	98
57) 1,1,1,2-tetrachloroethane	11.46	131	1006854	23.32 ug/L	94
58) ethylbenzene	11.50	91	5006572	21.96 ug/L	98
59) m,p-xylene	11.69	106	3886061	40.43 ug/L	100
60) butyl acrylate	12.34	55	1219831	23.67 ug/L	96
61) o-xylene	12.35	106	1913680	20.48 ug/L	98
62) styrene	12.38	104	3160246	21.64 ug/L	97
63) isopropylbenzene	12.99	105	4390837	20.48 ug/L	97
64) bromobenzene	13.50	156	1152167	20.33 ug/L	99
65) bromoform	12.70	173	443306	22.54 ug/L	99
67) 1,2,3-trichloropropane	13.58	75	669403	24.16 ug/L #	91
68) 1,4-dichloro-2-butene	13.70	89	118866	20.70 ug/L	93
69) n-propylbenzene	13.70	91	5811649	21.39 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092908.D Vial: 8
Acq On : 29 Sep 2008 11:47 am Operator: BR
Sample : ,ICAL,ICAL_W25 20 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:15 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

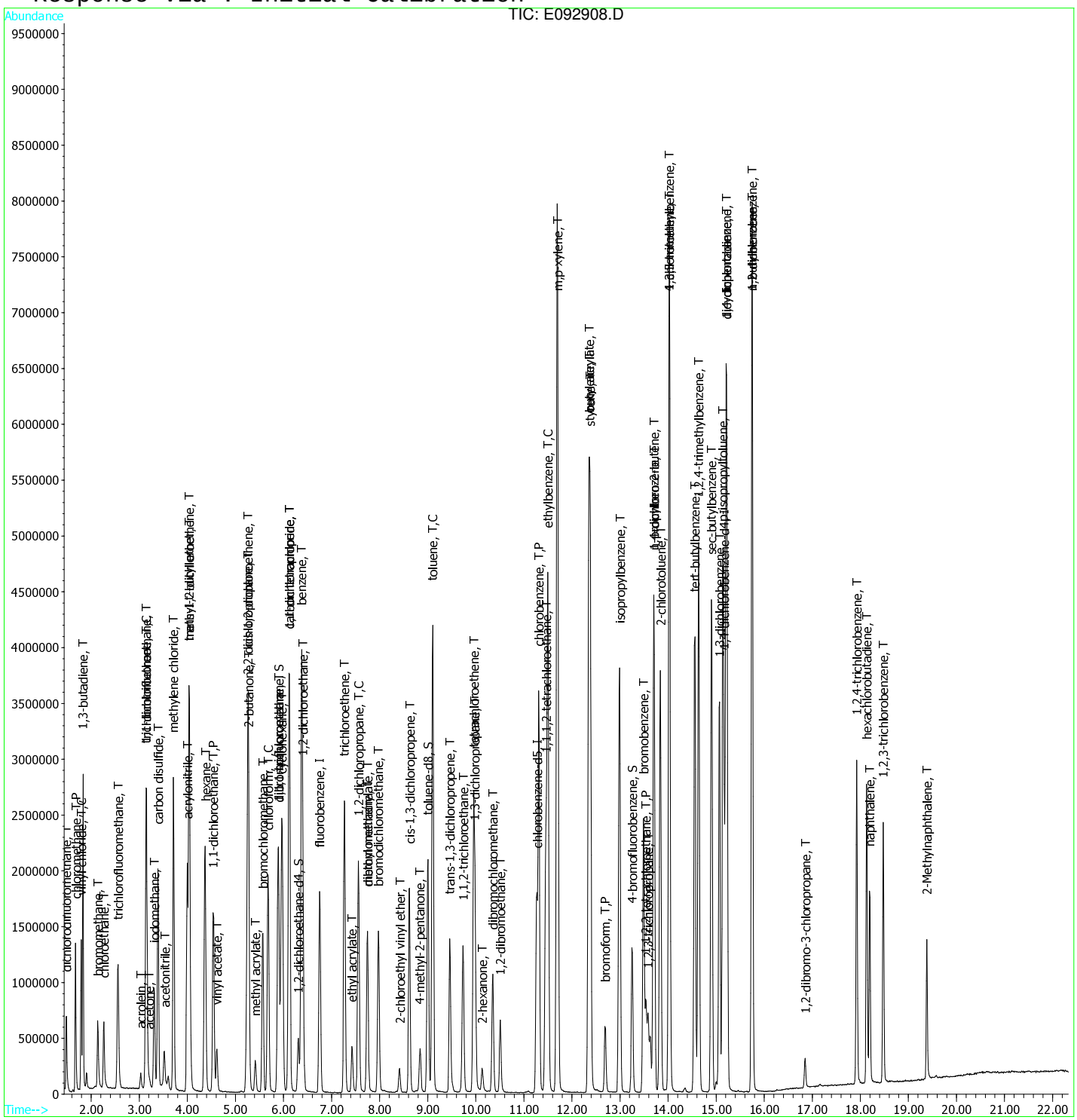
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70) 2-chlorotoluene	13.84	91	3350074	19.88 ug/L	98
71) 4-chlorotoluene	14.03	91	3628571	19.65 ug/L	99
72) 1,3,5-trimethylbenzene	14.03	105	3782047	19.20 ug/L	99
74) 1,1,2,2-tetrachloroethane	13.54	83	674115	24.41 ug/L	96
75) tert-butylbenzene	14.56	119	3332598	22.52 ug/L	96
76) sec-butylbenzene	14.90	105	5084810	23.14 ug/L	98
77) 1,2,4-trimethylbenzene	14.64	105	4016525	22.38 ug/L	95
78) 1,3-dichlorobenzene	15.07	146	2212888	22.41 ug/L	99
79) p-isopropyltoluene	15.14	119	4012469	23.14 ug/L	100
80) dicyclopentadiene	15.22	66	5544719	24.79 ug/L	99
81) 1,4-dichlorobenzene	15.21	146	2129875	22.52 ug/L	99
82) 1,2-dichlorobenzene	15.75	146	1852107	23.43 ug/L	98
83) n-butylbenzene	15.75	91	3675870	23.85 ug/L	99
84) 1,2-dibromo-3-chloropropan	16.84	75	76066	21.55 ug/L #	80
85) 1,2,4-trichlorobenzene	17.93	180	1142931	25.09 ug/L	97
86) hexachlorobutadiene	18.13	225	648928	26.54 ug/L	95
87) naphthalene	18.20	128	1664627	25.80 ug/L	100
88) 1,2,3-trichlorobenzene	18.48	180	861745	24.64 ug/L	99
89) 2-Methylnaphthalene	19.38	142	673889	28.77 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092908\E092908.D Vial: 8
Acq On : 29 Sep 2008 11:47 am Operator: BR
Sample : ,ICAL,ICAL_W25 20 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:15 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092909.D Vial: 9
Acq On : 29 Sep 2008 12:18 pm Operator: BR
Sample : ,ICAL,ICAL_W25 40 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:41 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.75	96	2412856	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	1670529	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.17	152	741514	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	647133	9.90 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	414892	9.87 ug/L	0.00
47) toluene-d8	9.01	98	2095506	10.02 ug/L	0.00
66) 4-bromofluorobenzene	13.25	95	759368	10.21 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	1413859	37.31 ug/L	96
3) chloromethane	1.67	50	2511819	40.74 ug/L	97
4) vinyl chloride	1.79	62	2655569	43.91 ug/L	100
5) 1,3-butadiene	1.83	39	2222204	49.29 ug/L	98
6) bromomethane	2.14	94	482642	21.81 ug/L	96
7) chloroethane	2.25	64	1181718	37.59 ug/L	98
8) trichlorofluoromethane	2.55	101	2490439	47.44 ug/L	100
9) acrolein	3.03	56	259581	383.81 ug/L	95
10) trichlorotrifluoroethane	3.15	101	1805433	48.84 ug/L	100
11) 1,1-dichloroethene	3.14	96	1557855	44.30 ug/L	97
12) acetone	3.21	43	212503	34.88 ug/L	88
13) iodomethane	3.31	142	2598964	56.41 ug/L	100
14) carbon disulfide	3.39	76	6034028	30.40 ug/L	99
15) methylene chloride	3.71	84	2527997	28.91 ug/L	94
16) acrylonitrile	4.00	53	3698040	462.52 ug/L	99
17) trans-1,2-dichloroethene	4.04	96	2482960	43.71 ug/L	89
18) methyl-t-butyl ether	4.05	73	3223418	45.57 ug/L	91
19) acetonitrile	3.52	41	932067	385.02 ug/L	93
20) hexane	4.37	57	2988232	49.25 ug/L #	99
21) 1,1-dichloroethane	4.54	63	4540091	45.69 ug/L	97
22) vinyl acetate	4.62	43	1598514	50.32 ug/L	96
23) cis-1,2-dichloroethene	5.27	96	2731844	43.68 ug/L	97
24) 2,2-dichloropropane	5.25	77	3055712	44.07 ug/L	95
25) 2-butanone	5.29	72	102438	46.54 ug/L #	81
26) methyl acrylate	5.41	55	928637	50.84 ug/L	97
27) bromochloromethane	5.56	49	1945251	48.08 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092909.D Vial: 9
Acq On : 29 Sep 2008 12:18 pm Operator: BR
Sample : ,ICAL,ICAL_W25 40 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:41 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.68	83	3924703	43.88 ug/L	98
30) 1,1,1-trichloroethane	5.90	97	3137827	44.58 ug/L	99
31) cyclohexane	5.98	56	4038263	49.50 ug/L	99
32) carbon tetrachloride	6.12	117	2951157	45.45 ug/L	98
34) benzene	6.38	78	9267559	45.10 ug/L	98
35) 1,1-dichloropropene	6.11	75	3236853	45.84 ug/L	98
36) 1,2-dichloroethane	6.41	62	2171711	45.03 ug/L	96
37) trichloroethene	7.27	95	2529559	45.14 ug/L	99
38) ethyl acrylate	7.42	55	1439702	54.31 ug/L	98
39) 1,2-dichloropropane	7.56	63	2472840	47.34 ug/L	98
40) methyl methacrylate	7.75	41	961404	51.86 ug/L	89
41) dibromomethane	7.74	93	1022788	45.79 ug/L	98
42) bromodichloromethane	7.97	83	2765864	47.30 ug/L	98
43) 2-chloroethyl vinyl ether	8.42	63	227232	28.04 ug/L #	87
45) cis-1,3-dichloropropene	8.62	75	3260592	50.44 ug/L	98
46) 4-methyl-2-pentanone	8.84	43	1031613	54.40 ug/L	94
48) toluene	9.11	92	5844365	46.52 ug/L	100
49) 1,1,2-trichloroethane	9.74	83	1155356	49.21 ug/L	97
50) 1,3-dichloropropane	9.99	76	2397553	49.50 ug/L	98
51) tetrachloroethene	9.96	164	2056728	47.50 ug/L	96
52) trans-1,3-dichloropropene	9.46	75	2249154	51.64 ug/L	96
53) 2-hexanone	10.13	43	648626	63.93 ug/L	87
54) dibromochloromethane	10.36	129	1900405	51.32 ug/L	96
55) 1,2-dibromoethane	10.51	107	1489664	49.25 ug/L	96
56) chlorobenzene	11.31	112	6650960	45.87 ug/L	96
57) 1,1,1,2-tetrachloroethane	11.46	131	2217863	48.16 ug/L	95
58) ethylbenzene	11.50	91	10793737	45.59 ug/L	100
59) m,p-xylene	11.70	106	8320334	85.88 ug/L	97
60) butyl acrylate	12.34	55	2904781	55.03 ug/L	98
61) o-xylene	12.35	106	4104457	43.54 ug/L	98
62) styrene	12.38	104	6829274	45.83 ug/L	99
63) isopropylbenzene	12.99	105	9437838	44.02 ug/L	96
64) bromobenzene	13.50	156	2527408	44.51 ug/L	100
65) bromoform	12.70	173	1041756	50.78 ug/L	96
67) 1,2,3-trichloropropane	13.58	75	1457421	48.89 ug/L	99
68) 1,4-dichloro-2-butene	13.70	89	263619	44.68 ug/L	98
69) n-propylbenzene	13.70	91	12679029	46.57 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092909.D Vial: 9
Acq On : 29 Sep 2008 12:18 pm Operator: BR
Sample : ,ICAL,ICAL_W25 40 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:41 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

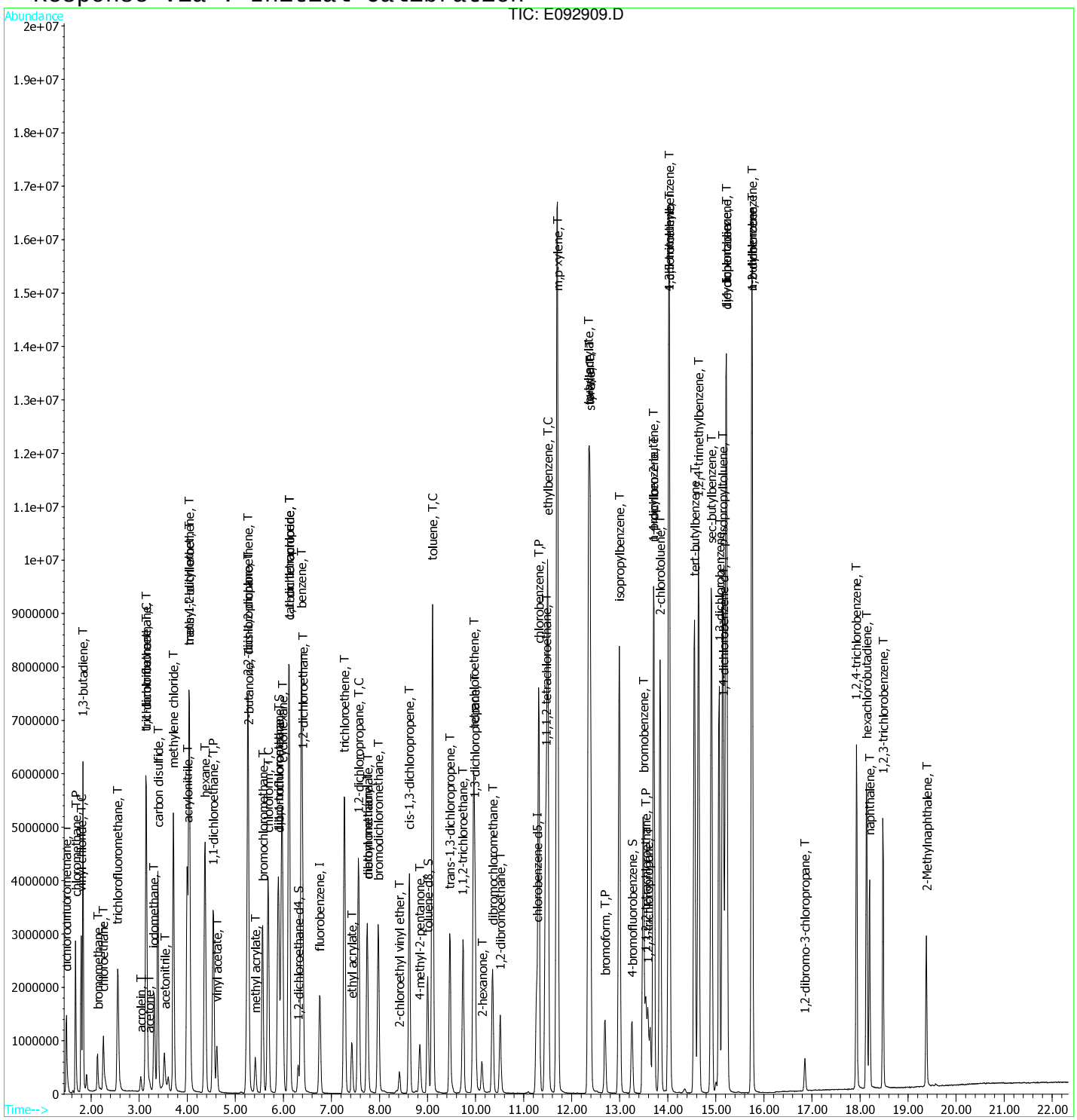
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70) 2-chlorotoluene	13.84	91	7256453	43.20 ug/L	99
71) 4-chlorotoluene	14.03	91	7675631	42.06 ug/L	97
72) 1,3,5-trimethylbenzene	14.03	105	8174290	43.05 ug/L	98
74) 1,1,2,2-tetrachloroethane	13.55	83	1503863	47.56 ug/L	96
75) tert-butylbenzene	14.56	119	7186681	44.99 ug/L	96
76) sec-butylbenzene	14.90	105	10922374	46.33 ug/L	96
77) 1,2,4-trimethylbenzene	14.64	105	8598350	44.99 ug/L	97
78) 1,3-dichlorobenzene	15.07	146	4743940	44.81 ug/L	100
79) p-isopropyltoluene	15.14	119	8524538	46.12 ug/L	99
80) dicyclopentadiene	15.23	66	11892757	47.52 ug/L	100
81) 1,4-dichlorobenzene	15.21	146	4581321	44.97 ug/L	98
82) 1,2-dichlorobenzene	15.75	146	3898947	45.75 ug/L	98
83) n-butylbenzene	15.75	91	7757930	46.39 ug/L	99
84) 1,2-dibromo-3-chloropropan	16.85	75	170151	42.86 ug/L	98
85) 1,2,4-trichlorobenzene	17.93	180	2541996	49.24 ug/L	97
86) hexachlorobutadiene	18.14	225	1473163	52.04 ug/L	98
87) naphthalene	18.20	128	3654775	49.55 ug/L	100
88) 1,2,3-trichlorobenzene	18.48	180	1925107	48.34 ug/L	96
89) 2-Methylnaphthalene	19.38	142	1555737	54.52 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092908\E092909.D Vial: 9
Acq On : 29 Sep 2008 12:18 pm Operator: BR
Sample : ,ICAL,ICAL_W25 40 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 12:41 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 11:56:15 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092914.D Vial: 4
Acq On : 29 Sep 2008 7:22 pm Operator: BR
Sample : ,ICAL,ICAL_W25 2 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:30 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2755177	10.00 ug/L	0.02
44) chlorobenzene-d5	11.29	117	1814988	10.00 ug/L	0.02
73) 1,4-dichlorobenzene-d4	15.19	152	713638	10.00 ug/L	0.02
System Monitoring Compounds					
29) dibromofluoromethane	5.90	113	758301	10.03 ug/L	0.02
33) 1,2-dichloroethane-d4	6.33	65	480794	9.83 ug/L	0.02
47) toluene-d8	9.02	98	2374351	10.27 ug/L	0.02
66) 4-bromofluorobenzene	13.27	95	754421	9.70 ug/L	0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	72462	2.23 ug/L	93
3) chloromethane	1.69	50	139808	2.30 ug/L	98
4) vinyl chloride	1.80	62	140577	2.30 ug/L	96
5) 1,3-butadiene	1.85	39	116649	2.31 ug/L	95
6) bromomethane	2.16	94	77629	3.00 ug/L	97
7) chloroethane	2.28	64	70336	2.19 ug/L	96
8) trichlorofluoromethane	2.58	101	118862	2.00 ug/L	93
9) acrolein	3.05	56	25184	34.96 ug/L	93
10) trichlorotrifluoroethane	3.17	101	84859	2.01 ug/L	100
11) 1,1-dichloroethene	3.16	96	83964	2.12 ug/L	97
12) acetone	3.24	43	16999	2.74 ug/L	96
13) iodomethane	3.32	142	66175	1.20 ug/L	100
14) carbon disulfide	3.40	76	308532	1.39 ug/L	97
15) methylene chloride	3.73	84	224852	2.28 ug/L	96
16) acrylonitrile	4.01	53	197088	21.07 ug/L	96
17) trans-1,2-dichloroethene	4.06	96	138661	2.16 ug/L	95
18) methyl-t-butyl ether	4.06	73	154170	1.87 ug/L	97
19) acetonitrile	3.54	41	52492	20.42 ug/L #	87
20) hexane	4.39	57	165409	2.33 ug/L #	99
21) 1,1-dichloroethane	4.56	63	239710	2.08 ug/L	99
22) vinyl acetate	4.63	43	70537	1.86 ug/L	99
23) cis-1,2-dichloroethene	5.28	96	145260	2.05 ug/L	97
24) 2,2-dichloropropane	5.27	77	172556	2.20 ug/L	100
25) 2-butanone	5.31	72	6689	2.59 ug/L #	58
26) methyl acrylate	5.44	55	39616	1.74 ug/L	95
27) bromochloromethane	5.58	49	95206	1.96 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092914.D Vial: 4
Acq On : 29 Sep 2008 7:22 pm Operator: BR
Sample : ,ICAL,ICAL_W25 2 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:30 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.70	83	203728	2.00 ug/L	97
30) 1,1,1-trichloroethane	5.91	97	160600	2.07 ug/L	98
31) cyclohexane	5.99	56	207442	2.03 ug/L	95
32) carbon tetrachloride	6.14	117	148124	2.03 ug/L	98
34) benzene	6.40	78	496071	2.08 ug/L	97
35) 1,1-dichloropropene	6.13	75	168946	2.08 ug/L	95
36) 1,2-dichloroethane	6.43	62	108801	1.98 ug/L	93
37) trichloroethene	7.28	95	129769	2.07 ug/L	99
38) ethyl acrylate	7.45	55	48309	1.47 ug/L	96
39) 1,2-dichloropropane	7.58	63	119197	1.94 ug/L	84
40) methyl methacrylate	7.77	41	37845	1.69 ug/L #	82
41) dibromomethane	7.76	93	45395	1.78 ug/L	98
42) bromodichloromethane	7.99	83	123377	1.85 ug/L	95
43) 2-chloroethyl vinyl ether	8.43	63	17822	2.30 ug/L	98
45) cis-1,3-dichloropropene	8.64	75	141291	1.90 ug/L	99
46) 4-methyl-2-pentanone	8.87	43	33280	1.46 ug/L #	94
48) toluene	9.12	92	303341	2.18 ug/L	97
49) 1,1,2-trichloroethane	9.75	83	52107	1.94 ug/L	97
50) 1,3-dichloropropane	10.01	76	107850	1.94 ug/L	98
51) tetrachloroethene	9.98	164	108540	2.28 ug/L	90
52) trans-1,3-dichloropropene	9.49	75	87071	1.75 ug/L	95
53) 2-hexanone	10.19	43	12216	0.96 ug/L	86
54) dibromochloromethane	10.37	129	76031	1.86 ug/L	97
55) 1,2-dibromoethane	10.53	107	62780	1.87 ug/L	98
56) chlorobenzene	11.33	112	333300	2.13 ug/L	98
57) 1,1,1,2-tetrachloroethane	11.48	131	99289	1.98 ug/L	96
58) ethylbenzene	11.51	91	518739	2.04 ug/L	97
59) m,p-xylene	11.72	106	429655	4.27 ug/L	98
60) butyl acrylate	12.37	55	81554	1.29 ug/L	93
61) o-xylene	12.37	106	201436	2.08 ug/L	96
62) styrene	12.41	104	301373	1.96 ug/L	90
63) isopropylbenzene	13.01	105	448288	2.05 ug/L	100
64) bromobenzene	13.51	156	114277	1.88 ug/L	94
65) bromoform	12.72	173	37233	1.75 ug/L	95
67) 1,2,3-trichloropropane	13.60	75	47851	1.42 ug/L #	76
68) 1,4-dichloro-2-butene	13.73	89	12203	2.04 ug/L	95
69) n-propylbenzene	13.72	91	596671	2.08 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092914.D Vial: 4
Acq On : 29 Sep 2008 7:22 pm Operator: BR
Sample : ,ICAL,ICAL_W25 2 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:30 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

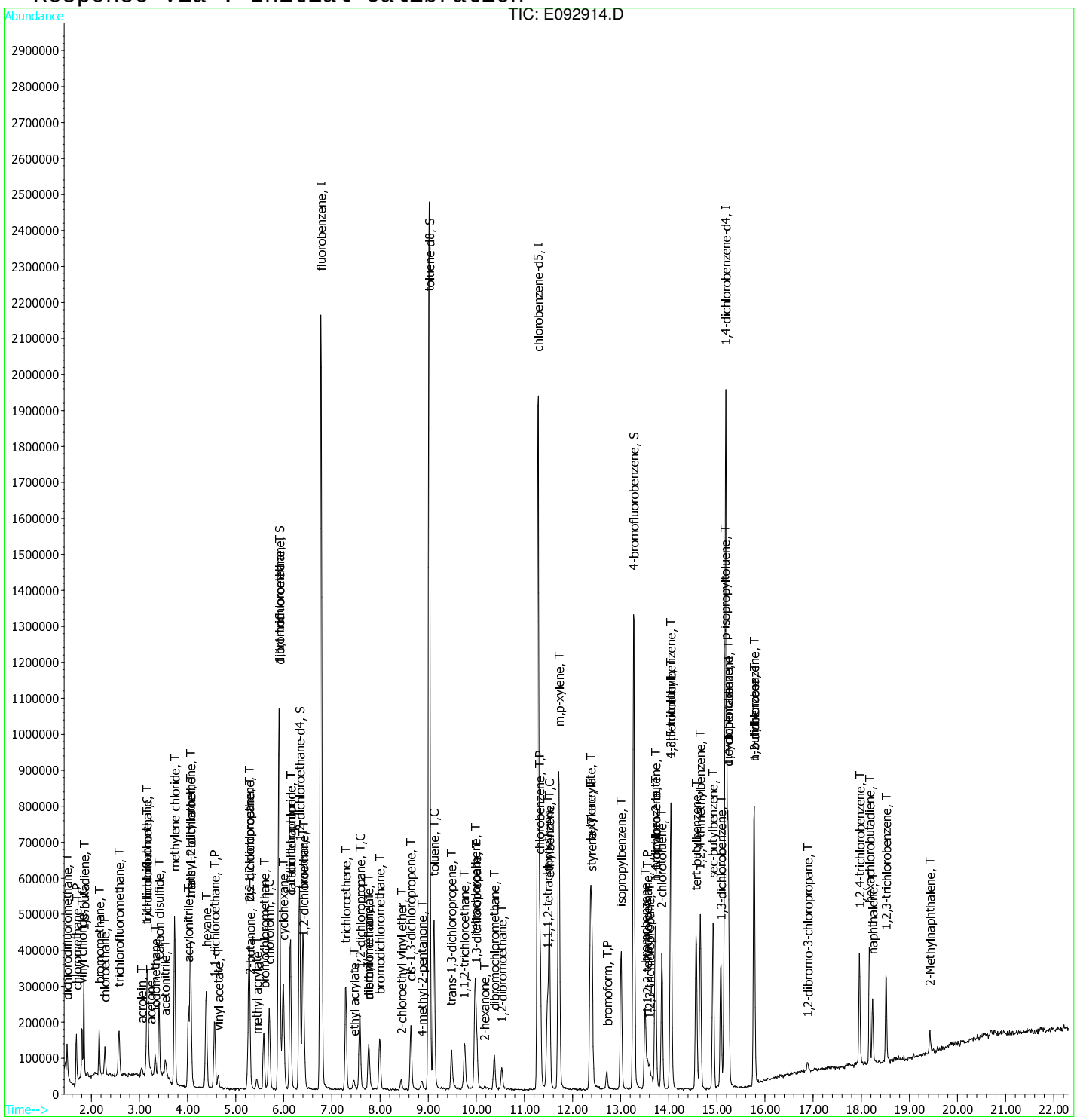
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70) 2-chlorotoluene	13.86	91	345207	2.04 ug/L	93
71) 4-chlorotoluene	14.04	91	382848	2.08 ug/L	96
72) 1,3,5-trimethylbenzene	14.04	105	391354	2.06 ug/L	97
74) 1,1,2,2-tetrachloroethane	13.56	83	59624	1.93 ug/L	98
75) tert-butylbenzene	14.57	119	341988	2.17 ug/L	97
76) sec-butylbenzene	14.92	105	537385	2.23 ug/L	96
77) 1,2,4-trimethylbenzene	14.65	105	404980	2.11 ug/L	99
78) 1,3-dichlorobenzene	15.09	146	218435	2.07 ug/L	96
79) p-isopropyltoluene	15.16	119	436124	2.33 ug/L	98
80) dicyclopentadiene	15.24	66	597112	2.27 ug/L	97
81) 1,4-dichlorobenzene	15.23	146	225374	2.30 ug/L	96
82) 1,2-dichlorobenzene	15.78	146	181751	2.19 ug/L	96
83) n-butylbenzene	15.78	91	398318	2.32 ug/L	95
84) 1,2-dibromo-3-chloropropan	16.88	75	9581	2.39 ug/L #	73
85) 1,2,4-trichlorobenzene	17.96	180	124911	2.39 ug/L	95
86) hexachlorobutadiene	18.17	225	73958	2.42 ug/L	97
87) naphthalene	18.24	128	170593	2.22 ug/L	100
88) 1,2,3-trichlorobenzene	18.52	180	97842	2.42 ug/L	99
89) 2-Methylnaphthalene	19.43	142	41088	1.33 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092908\E092914.D Vial: 4
Acq On : 29 Sep 2008 7:22 pm Operator: BR
Sample : ,ICAL,ICAL_W25 2 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:30 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092915.D Vial: 3
Acq On : 29 Sep 2008 7:53 pm Operator: BR
Sample : ,ICAL,ICAL_W25 1 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:37 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	2448055	10.00 ug/L	0.01
44) chlorobenzene-d5	11.27	117	1646160	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	667163	10.00 ug/L	0.01
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	687705	10.23 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	459466	10.65 ug/L	0.00
47) toluene-d8	9.01	98	2148485	10.20 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	674648	9.54 ug/L	0.01
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	21523	0.72 ug/L	98
3) chloromethane	1.68	50	48716	0.88 ug/L	99
4) vinyl chloride	1.79	62	48846	0.87 ug/L	96
5) 1,3-butadiene	1.84	39	40444	0.87 ug/L	97
6) bromomethane	2.16	94	34045	1.40 ug/L	92
7) chloroethane	2.28	64	25226	0.87 ug/L	88
8) trichlorofluoromethane	2.57	101	44154	0.82 ug/L	90
9) acrolein	3.04	56	10365	14.34 ug/L	86
10) trichlorotrifluoroethane	3.15	101	30699	0.80 ug/L	100
11) 1,1-dichloroethene	3.15	96	34426	0.96 ug/L	94
12) acetone	3.21	43	10965	1.99 ug/L	85
13) iodomethane	3.32	142	26555	0.55 ug/L	100
14) carbon disulfide	3.40	76	188292	1.07 ug/L	100
15) methylene chloride	3.72	84	147502	1.82 ug/L	92
16) acrylonitrile	4.01	53	87257	10.25 ug/L	93
17) trans-1,2-dichloroethene	4.05	96	56060	0.96 ug/L	93
18) methyl-t-butyl ether	4.06	73	69474	0.95 ug/L	88
19) acetonitrile	3.53	41	27826	12.23 ug/L #	88
20) hexane	4.38	57	56243	0.86 ug/L #	96
21) 1,1-dichloroethane	4.55	63	92348	0.89 ug/L	95
22) vinyl acetate	4.63	43	31995	0.94 ug/L	85
23) cis-1,2-dichloroethene	5.28	96	62105	0.97 ug/L	92
24) 2,2-dichloropropane	5.26	77	67395	0.94 ug/L	95
25) 2-butanone	5.30	72	3050	1.27 ug/L #	75
26) methyl acrylate	5.44	55	17129	0.84 ug/L #	85
27) bromochloromethane	5.57	49	42570	0.98 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092915.D Vial: 3
Acq On : 29 Sep 2008 7:53 pm Operator: BR
Sample : ,ICAL,ICAL_W25 1 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:37 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.69	83	88667	0.97 ug/L	91
30) 1,1,1-trichloroethane	5.91	97	62963	0.90 ug/L	93
31) cyclohexane	5.99	56	76409	0.82 ug/L	97
32) carbon tetrachloride	6.13	117	56186	0.85 ug/L	98
34) benzene	6.39	78	194075	0.90 ug/L	95
35) 1,1-dichloropropene	6.13	75	63288	0.86 ug/L	96
36) 1,2-dichloroethane	6.41	62	45819	0.92 ug/L	91
37) trichloroethene	7.28	95	52127	0.91 ug/L	89
38) ethyl acrylate	7.45	55	15919	0.55 ug/L	90
39) 1,2-dichloropropane	7.57	63	48407	0.88 ug/L	95
40) methyl methacrylate	7.77	41	13053	0.65 ug/L #	72
41) dibromomethane	7.74	93	19703	0.87 ug/L #	75
42) bromodichloromethane	7.99	83	51968	0.87 ug/L	97
43) 2-chloroethyl vinyl ether	8.43	63	6527	0.92 ug/L #	93
45) cis-1,3-dichloropropene	8.63	75	56766	0.84 ug/L	95
46) 4-methyl-2-pentanone	8.86	43	13746	0.67 ug/L #	91
48) toluene	9.11	92	114670	0.88 ug/L	97
49) 1,1,2-trichloroethane	9.75	83	21346	0.86 ug/L	96
50) 1,3-dichloropropane	10.00	76	47184	0.93 ug/L	98
51) tetrachloroethene	9.96	164	39526	0.89 ug/L	93
52) trans-1,3-dichloropropene	9.47	75	36520	0.80 ug/L	97
53) 2-hexanone	10.16	43	1978	0.17 ug/L	82
54) dibromochloromethane	10.36	129	29722	0.79 ug/L	88
55) 1,2-dibromoethane	10.53	107	26749	0.87 ug/L	84
56) chlorobenzene	11.32	112	132334	0.91 ug/L	94
57) 1,1,1,2-tetrachloroethane	11.46	131	41299	0.89 ug/L	89
58) ethylbenzene	11.51	91	212953	0.91 ug/L	99
59) m,p-xylene	11.71	106	165958	1.78 ug/L	96
60) butyl acrylate	12.37	55	27218	0.47 ug/L	77
61) o-xylene	12.37	106	75316	0.84 ug/L	96
62) styrene	12.40	104	110298	0.78 ug/L	97
63) isopropylbenzene	13.00	105	169147	0.84 ug/L	99
64) bromobenzene	13.50	156	43548	0.78 ug/L #	79
65) bromoform	12.71	173	15536	0.80 ug/L	82
67) 1,2,3-trichloropropane	13.60	75	21364	0.71 ug/L #	74
68) 1,4-dichloro-2-butene	13.72	89	4625	0.84 ug/L	66
69) n-propylbenzene	13.72	91	220626	0.82 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\4\DATA\E092908\E092915.D Vial: 3
Acq On : 29 Sep 2008 7:53 pm Operator: BR
Sample : ,ICAL,ICAL_W25 1 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:37 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

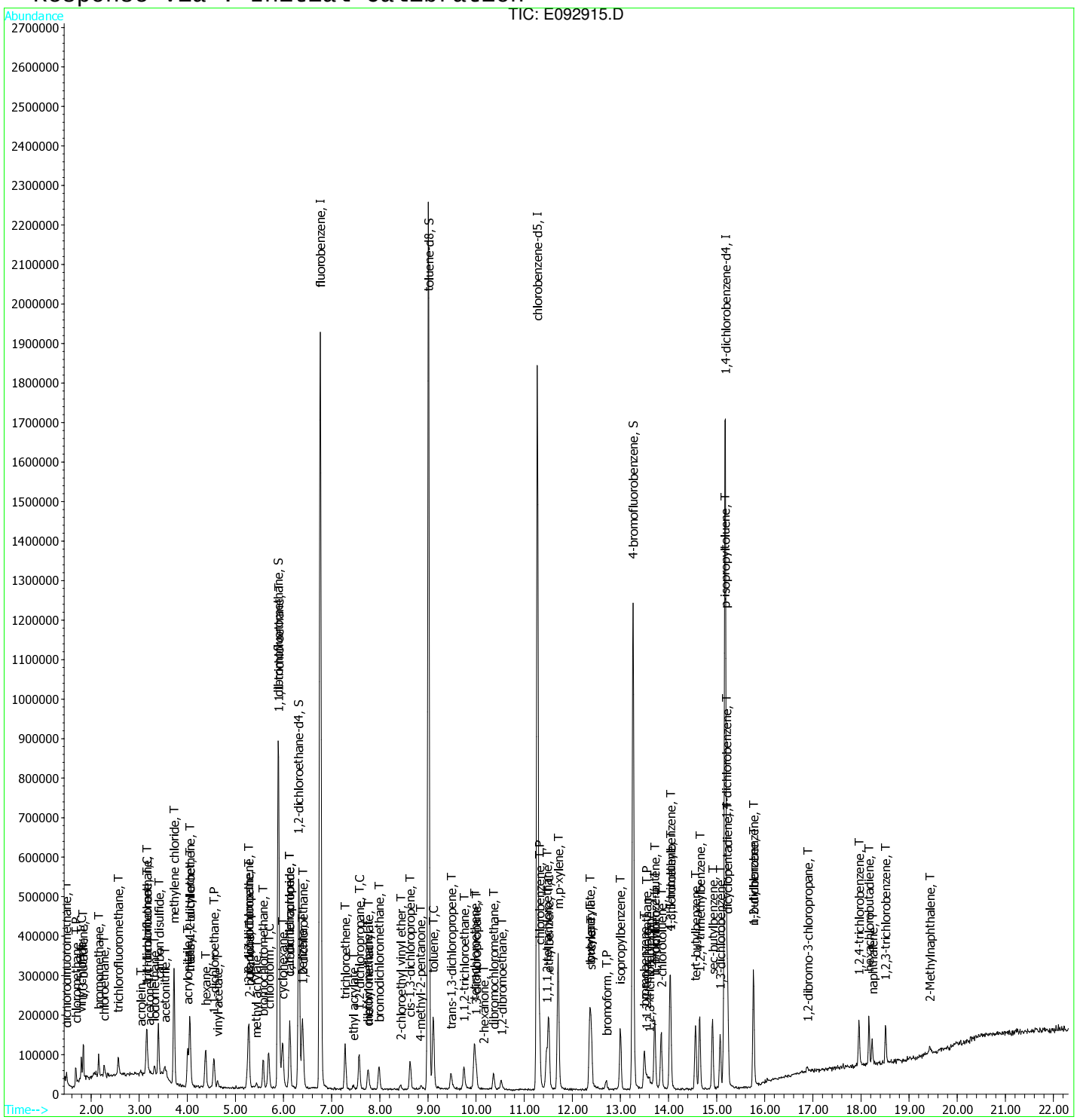
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70) 2-chlorotoluene	13.84	91	139778	0.89 ug/L	88
71) 4-chlorotoluene	14.04	91	149708	0.88 ug/L	94
72) 1,3,5-trimethylbenzene	14.03	105	151800	0.86 ug/L	95
74) 1,1,2,2-tetrachloroethane	13.55	83	26729	0.92 ug/L	90
75) tert-butylbenzene	14.56	119	122557	0.80 ug/L	97
76) sec-butylbenzene	14.92	105	192092	0.82 ug/L	97
77) 1,2,4-trimethylbenzene	14.65	105	156089	0.84 ug/L	96
78) 1,3-dichlorobenzene	15.07	146	83540	0.82 ug/L	98
79) p-isopropyltoluene	15.15	119	147079	0.80 ug/L	97
80) dicyclopentadiene	15.23	66	221583	0.86 ug/L	98
81) 1,4-dichlorobenzene	15.21	146	96031	1.01 ug/L	93
82) 1,2-dichlorobenzene	15.76	146	72064	0.90 ug/L	99
83) n-butylbenzene	15.76	91	137861	0.81 ug/L	96
84) 1,2-dibromo-3-chloropropan	16.88	75	3993	1.02 ug/L	93
85) 1,2,4-trichlorobenzene	17.96	180	48693	0.95 ug/L	98
86) hexachlorobutadiene	18.16	225	30427	1.00 ug/L	93
87) naphthalene	18.23	128	60627	0.81 ug/L	100
88) 1,2,3-trichlorobenzene	18.52	180	40262	1.01 ug/L	95
89) 2-Methylnaphthalene	19.42	142	11746	0.42 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E092908\E092915.D Vial: 3
Acq On : 29 Sep 2008 7:53 pm Operator: BR
Sample : ,ICAL,ICAL_W25 1 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 21:37 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 08/11/08-MISC& admirality
Last Update : Mon Sep 29 13:02:10 2008
Response via : Initial Calibration



CONTINUING CALIBRATION RAW DATA

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E100108\E100102.D Vial: 2
Acq On : 1 Oct 2008 7:50 am Operator: NLT
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	77	0.02
2	T	dichlorodifluoromethane	0.126	0.095	24.6#	54	0.00
3	T,P	chloromethane	0.231	0.205	11.3	63	0.00
4	T,C	vinyl chloride	0.236	0.242	-2.5	77	0.00
5	T	1,3-butadiene	0.199	0.208	-4.5	75	0.00
6	T	bromomethane	0.104	0.102	1.9	76	0.00
7	T	chloroethane	0.119	0.136	-14.3	82	0.00
8	T	trichlorofluoromethane	0.226	0.304	-34.5#	97	0.00
9	T	acrolein	0.003	0.004	-33.3#	118	0.00
10	T	trichlorotrifluoroethane	0.161	0.214	-32.9#	99	0.02
11	T,C	1,1-dichloroethene	0.151	0.174	-15.2	88	0.02
12	T	acetone	0.024	0.029	-20.8#	105	0.02
13	T	iodomethane	0.198	0.226	-14.1	75	0.00
14	T	carbon disulfide	0.676	0.593	12.3	68	0.02
15	T	methylene chloride	0.330	0.288	12.7	71	0.02
16	T	acrylonitrile	0.036	0.031	13.9	68	0.02
17	T	trans-1,2-dichloroethene	0.245	0.256	-4.5	79	0.00
18	T	methyl-t-butyl ether	0.307	0.283	7.8	69	0.02
19	T	acetonitrile	0.010	0.010	0.0	84	0.00
20	T	hexane	0.279	0.282	-1.1	74	0.00
21	T,P	1,1-dichloroethane	0.433	0.414	4.4	73	0.02
22	T	vinyl acetate	0.144	0.106	26.4#	56	0.02
23	T	cis-1,2-dichloroethene	0.268	0.264	1.5	75	0.02
24	T	2,2-dichloropropane	0.300	0.352	-17.3	90	0.00
25	T	2-butanone	0.011	0.009	18.2	66	0.00
26	T	methyl acrylate	0.081	0.070	13.6	64	0.02
27	T	bromochloromethane	0.184	0.173	6.0	70	0.00
28	T,C	chloroform	0.385	0.409	-6.2	81	0.02
29	S	dibromofluoromethane	0.275	0.288	-4.7	81	0.00
30	T	1,1,1-trichloroethane	0.294	0.351	-19.4	89	0.02
31	T	cyclohexane	0.371	0.362	2.4	73	0.00
32	T	carbon tetrachloride	0.275	0.315	-14.5	84	0.00
33	S	1,2-dichloroethane-d4	0.177	0.204	-15.3	88	0.02
34	T	benzene	0.899	0.830	7.7	69	0.02
35	T	1,1-dichloropropene	0.306	0.304	0.7	74	0.02
36	T	1,2-dichloroethane	0.209	0.236	-12.9	85	0.02
37	T	trichloroethene	0.241	0.237	1.7	74	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E100108\E100102.D Vial: 2
Acq On : 1 Oct 2008 7:50 am Operator: NLT
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	ethyl acrylate	0.118	0.101	14.4	64	0.00
39	T,C	1,2-dichloropropane	0.229	0.184	19.7	60	0.02
40	T	methyl methacrylate	0.082	0.071	13.4	64	0.00
41	T	dibromomethane	0.093	0.090	3.2	71	0.02
42	T	bromodichloromethane	0.250	0.266	-6.4	79	0.02
43	T	2-chloroethyl vinyl ether	0.029	0.021	27.6#	51	0.02
44	I	chlorobenzene-d5	1.000	1.000	0.0	68	0.00
45	T	cis-1,3-dichloropropene	0.424	0.434	-2.4	67	0.02
46	T	4-methyl-2-pentanone	0.125	0.097	22.4#	52	0.00
47	S	toluene-d8	1.285	1.437	-11.8	76	0.02
48	T,C	toluene	0.813	0.938	-15.4	76	0.02
49	T	1,1,2-trichloroethane	0.153	0.154	-0.7	68	0.02
50	T	1,3-dichloropropane	0.320	0.304	5.0	64	0.02
51	T	tetrachloroethene	0.280	0.302	-7.9	74	0.00
52	T	trans-1,3-dichloropropene	0.283	0.299	-5.7	69	0.00
53	T	2-hexanone	0.070	0.049	30.0#	51	0.00
54	T	dibromochloromethane	0.234	0.236	-0.9	67	0.02
55	T	1,2-dibromoethane	0.194	0.196	-1.0	68	0.02
56	T,P	chlorobenzene	0.912	0.915	-0.3	67	0.02
57	T	1,1,1,2-tetrachloroethane	0.290	0.302	-4.1	68	0.02
58	T,C	ethylbenzene	1.470	1.638	-11.4	74	0.02
59	T	m,p-xylene	0.583	0.664	-13.9	75	0.02
60	T	butyl acrylate	0.328	0.319	2.7	63	0.02
61	T	o-xylene	0.561	0.622	-10.9	72	0.02
62	T	styrene	0.884	0.986	-11.5	71	0.02
63	T	isopropylbenzene	1.260	1.472	-16.8	77	0.02
64	T	bromobenzene	0.340	0.354	-4.1	71	0.00
65	T,P	bromoform	0.122	0.137	-12.3	72	0.02
66	S	4-bromofluorobenzene	0.430	0.496	-15.3	77	0.02
67	T	1,2,3-trichloropropane	0.183	0.169	7.7	60	0.02
68	T	1,4-dichloro-2-butene	0.034	0.044	-29.4#	90	0.02
69	T	n-propylbenzene	1.670	1.978	-18.4	77	0.02
70	T	2-chlorotoluene	0.981	1.194	-21.7#	80	0.02
71	T	4-chlorotoluene	1.068	1.309	-22.6#	80	0.02
72	T	1,3,5-trimethylbenzene	1.105	1.343	-21.5#	79	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E100108\E100102.D Vial: 2
Acq On : 1 Oct 2008 7:50 am Operator: NLT
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
74	T,P	1,1,2,2-tetrachloroethane	0.449	0.373	16.9	64	0.00
75	T	tert-butylbenzene	2.229	2.085	6.5	73	0.00
76	T	sec-butylbenzene	3.523	3.496	0.8	78	0.02
77	T	1,2,4-trimethylbenzene	2.721	2.778	-2.1	78	0.02
78	T	1,3-dichlorobenzene	1.484	1.356	8.6	69	0.00
79	T	p-isopropyltoluene	2.688	2.635	2.0	74	0.02
80	T	dicyclopentadiene	3.766	3.994	-6.1	82	0.00
81	T	1,4-dichlorobenzene	1.481	1.380	6.8	73	0.02
82	T	1,2-dichlorobenzene	1.235	1.171	5.2	73	0.02
83	T	n-butylbenzene	2.476	2.700	-9.0	83	0.02
84	T	1,2-dibromo-3-chloropropane	0.058	0.057	1.7	81	0.03
85	T	1,2,4-trichlorobenzene	0.788	0.702	10.9	69	0.04
86	T	hexachlorobutadiene	0.457	0.472	-3.3	84	0.04
87	T	naphthalene	1.094	0.831	24.0#	58	0.04
88	T	1,2,3-trichlorobenzene	0.609	0.526	13.6	69	0.04
89	T	2-Methylnaphthalene	0.413	0.296	28.3#	52	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100102.D Vial: 2
Acq On : 1 Oct 2008 7:50 am Operator: NLT
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:10 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	1757132	10.00 ug/L	0.02
44) chlorobenzene-d5	11.28	117	1059278	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.19	152	530808	10.00 ug/L	0.02
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	506918	10.49 ug/L	0.00
33) 1,2-dichloroethane-d4	6.33	65	359056	11.52 ug/L	0.02
47) toluene-d8	9.02	98	1521974	11.18 ug/L	0.02
66) 4-bromofluorobenzene	13.27	95	525741	11.54 ug/L	0.02
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.49	85	167719	7.60 ug/L	89
3) chloromethane	1.68	50	359626	8.88 ug/L	96
4) vinyl chloride	1.80	62	426094	10.28 ug/L	99
5) 1,3-butadiene	1.84	39	365477	10.44 ug/L	94
6) bromomethane	2.15	94	179933	9.84 ug/L	98
7) chloroethane	2.27	64	238975	11.40 ug/L	94
8) trichlorofluoromethane	2.57	101	534480	13.49 ug/L	98
9) acrolein	3.04	56	69039	125.35 ug/L	91
10) trichlorotrifluoroethane	3.17	101	376614	13.34 ug/L	100
11) 1,1-dichloroethene	3.16	96	305770	11.51 ug/L	98
12) acetone	3.23	43	51540	12.27 ug/L	94
13) iodomethane	3.32	142	396893	11.42 ug/L	100
14) carbon disulfide	3.40	76	1042854	8.79 ug/L	98
15) methylene chloride	3.73	84	506929	8.73 ug/L	93
16) acrylonitrile	4.01	53	553279	87.47 ug/L	96
17) trans-1,2-dichloroethene	4.05	96	450572	10.47 ug/L	96
18) methyl-t-butyl ether	4.06	73	498131	9.25 ug/L	96
19) acetonitrile	3.53	41	178414	105.53 ug/L	96
20) hexane	4.38	57	495316	10.12 ug/L #	97
21) 1,1-dichloroethane	4.55	63	726776	9.56 ug/L	99
22) vinyl acetate	4.63	43	186043	7.36 ug/L	98
23) cis-1,2-dichloroethene	5.28	96	464423	9.85 ug/L	95
24) 2,2-dichloropropane	5.26	77	617655	11.70 ug/L	93
25) 2-butanone	5.29	72	15064	7.99 ug/L #	77
26) methyl acrylate	5.43	55	122617	8.61 ug/L	99
27) bromochloromethane	5.58	49	304366	9.42 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100102.D Vial: 2
Acq On : 1 Oct 2008 7:50 am Operator: NLT
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:10 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.70	83	719096	10.64 ug/L	99
30) 1,1,1-trichloroethane	5.91	97	617392	11.94 ug/L	100
31) cyclohexane	5.98	56	635358	9.76 ug/L	95
32) carbon tetrachloride	6.13	117	553706	11.46 ug/L	97
34) benzene	6.40	78	1459210	9.24 ug/L	98
35) 1,1-dichloropropene	6.13	75	534397	9.94 ug/L	99
36) 1,2-dichloroethane	6.42	62	415431	11.31 ug/L	96
37) trichloroethene	7.28	95	416517	9.85 ug/L	91
38) ethyl acrylate	7.44	55	177049	8.50 ug/L	95
39) 1,2-dichloropropane	7.58	63	323178	8.03 ug/L	94
40) methyl methacrylate	7.76	41	125276	8.73 ug/L	92
41) dibromomethane	7.75	93	158060	9.64 ug/L	98
42) bromodichloromethane	7.99	83	466542	10.63 ug/L	98
43) 2-chloroethyl vinyl ether	8.43	63	36052	7.05 ug/L #	83
45) cis-1,3-dichloropropene	8.64	75	460241	10.25 ug/L	93
46) 4-methyl-2-pentanone	8.86	43	102575	7.73 ug/L	97
48) toluene	9.12	92	993734	11.54 ug/L	98
49) 1,1,2-trichloroethane	9.75	83	163553	10.10 ug/L	95
50) 1,3-dichloropropane	10.01	76	322357	9.51 ug/L	97
51) tetrachloroethene	9.97	164	320219	10.81 ug/L	95
52) trans-1,3-dichloropropene	9.48	75	316798	10.58 ug/L	90
53) 2-hexanone	10.15	43	52266	7.02 ug/L	89
54) dibromochloromethane	10.37	129	249564	10.08 ug/L	91
55) 1,2-dibromoethane	10.53	107	207771	10.12 ug/L	98
56) chlorobenzene	11.33	112	969230	10.04 ug/L	99
57) 1,1,1,2-tetrachloroethane	11.47	131	319859	10.41 ug/L	97
58) ethylbenzene	11.51	91	1734594	11.14 ug/L	96
59) m,p-xylene	11.71	106	1406226	22.78 ug/L	93
60) butyl acrylate	12.36	55	337513	9.70 ug/L	94
61) o-xylene	12.37	106	658988	11.09 ug/L	91
62) styrene	12.40	104	1044874	11.16 ug/L	97
63) isopropylbenzene	13.01	105	1558893	11.68 ug/L	97
64) bromobenzene	13.50	156	374658	10.40 ug/L	94
65) bromoform	12.71	173	145058	11.22 ug/L	95
67) 1,2,3-trichloropropane	13.60	75	178838	9.20 ug/L	94
68) 1,4-dichloro-2-butene	13.72	89	46604	12.98 ug/L #	44
69) n-propylbenzene	13.72	91	2095753	11.85 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100102.D Vial: 2
Acq On : 1 Oct 2008 7:50 am Operator: NLT
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:10 2008 Quant Results File: 25ML0929.RES

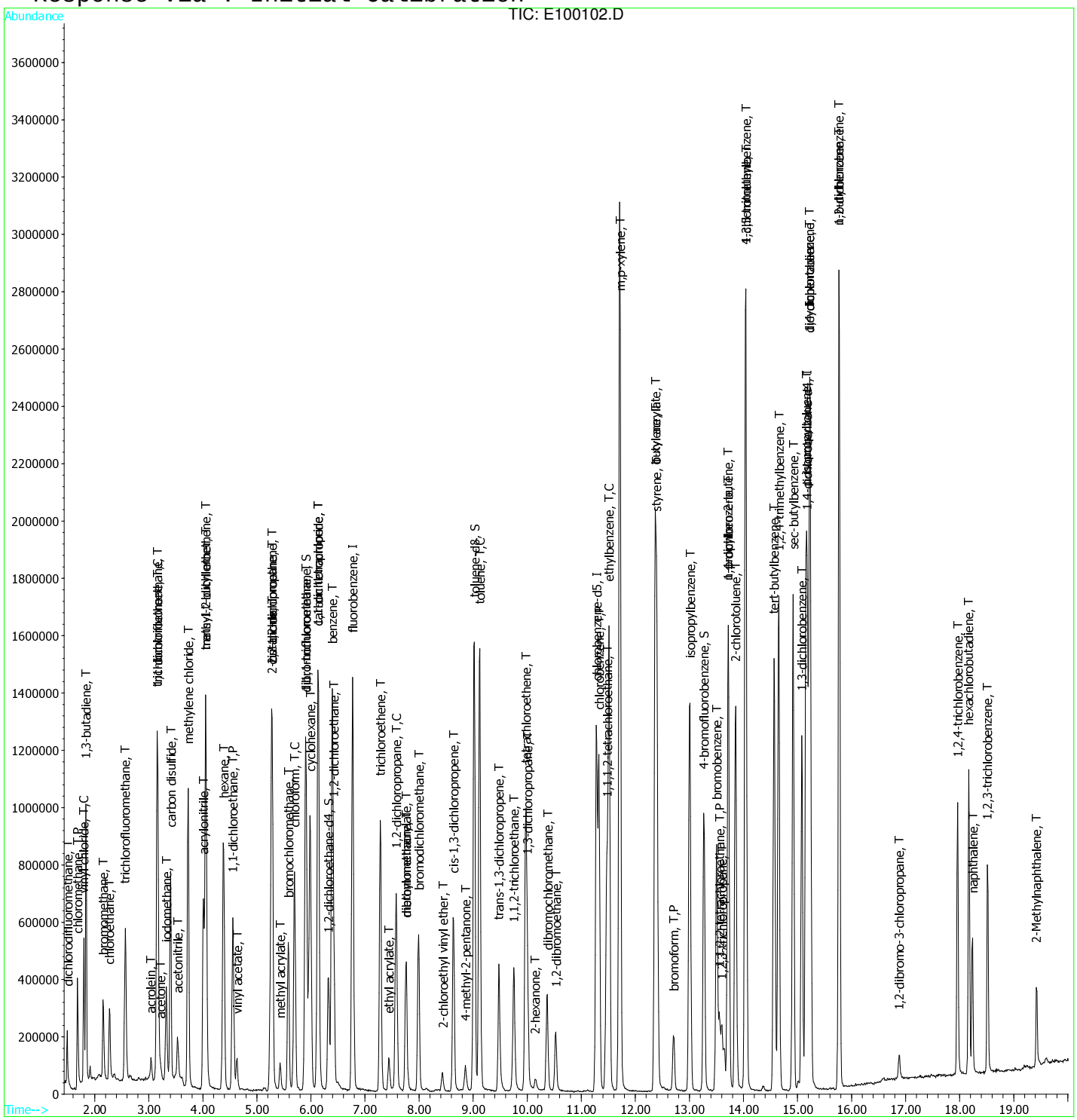
Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
70)	2-chlorotoluene	13.86	91	1265090	12.18 ug/L		92
71)	4-chlorotoluene	14.04	91	1387025	12.26 ug/L		91
72)	1,3,5-trimethylbenzene	14.03	105	1423017	12.16 ug/L		91
74)	1,1,2,2-tetrachloroethane	13.55	83	198165	8.32 ug/L		97
75)	tert-butylbenzene	14.57	119	1106898	9.36 ug/L		95
76)	sec-butylbenzene	14.92	105	1855576	9.92 ug/L		98
77)	1,2,4-trimethylbenzene	14.65	105	1474615	10.21 ug/L		97
78)	1,3-dichlorobenzene	15.08	146	719757	9.14 ug/L		97
79)	p-isopropyltoluene	15.16	119	1398516	9.80 ug/L		96
80)	dicyclopentadiene	15.23	66	2120170	10.61 ug/L		98
81)	1,4-dichlorobenzene	15.22	146	732448	9.32 ug/L		97
82)	1,2-dichlorobenzene	15.77	146	621657	9.49 ug/L		100
83)	n-butylbenzene	15.77	91	1433067	10.90 ug/L		98
84)	1,2-dibromo-3-chloropropan	16.88	75	30168	9.75 ug/L	#	84
85)	1,2,4-trichlorobenzene	17.96	180	372807	8.91 ug/L		98
86)	hexachlorobutadiene	18.17	225	250576	10.32 ug/L		98
87)	naphthalene	18.24	128	441355	7.60 ug/L		100
88)	1,2,3-trichlorobenzene	18.51	180	279456	8.64 ug/L		99
89)	2-Methylnaphthalene	19.42	142	157170	7.18 ug/L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\4\DATA\E100108\E100102.D Vial: 2
Acq On : 1 Oct 2008 7:50 am Operator: NLT
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 8:10 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E100108\E100123.D Vial: 20
Acq On : 1 Oct 2008 8:03 pm Operator: BR
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	78	0.00
2	T	dichlorodifluoromethane	0.126	0.133	-5.6	76	0.00
3	T,P	chloromethane	0.231	0.242	-4.8	75	0.00
4	T,C	vinyl chloride	0.236	0.258	-9.3	82	0.00
5	T	1,3-butadiene	0.199	0.155	22.1#	56	0.00
6	T	bromomethane	0.104	0.122	-17.3	91	0.00
7	T	chloroethane	0.119	0.138	-16.0	83	0.00
8	T	trichlorofluoromethane	0.226	0.313	-38.5#	100	0.00
9	T	acrolein	0.003	0.004	-33.3#	107	0.00
10	T	trichlorotrifluoroethane	0.161	0.190	-18.0	88	0.00
11	T,C	1,1-dichloroethene	0.151	0.153	-1.3	77	0.00
12	T	acetone	0.024	0.027	-12.5	97	0.00
13	T	iodomethane	0.198	0.206	-4.0	68	0.00
14	T	carbon disulfide	0.676	0.530	21.6#	61	0.00
15	T	methylene chloride	0.330	0.256	22.4#	63	0.00
16	T	acrylonitrile	0.036	0.036	0.0	78	0.00
17	T	trans-1,2-dichloroethene	0.245	0.243	0.8	75	0.00
18	T	methyl-t-butyl ether	0.307	0.273	11.1	67	0.00
19	T	acetonitrile	0.010	0.010	0.0	85	0.00
20	T	hexane	0.279	0.251	10.0	66	0.00
21	T,P	1,1-dichloroethane	0.433	0.407	6.0	72	0.00
22	T	vinyl acetate	0.144	0.115	20.1#	61	0.00
23	T	cis-1,2-dichloroethene	0.268	0.264	1.5	75	0.00
24	T	2,2-dichloropropane	0.300	0.334	-11.3	86	0.00
25	T	2-butanone	0.011	0.010	9.1	74	0.00
26	T	methyl acrylate	0.081	0.068	16.0	62	0.00
27	T	bromochloromethane	0.184	0.181	1.6	73	0.00
28	T,C	chloroform	0.385	0.407	-5.7	81	0.00
29	S	dibromofluoromethane	0.275	0.263	4.4	74	0.00
30	T	1,1,1-trichloroethane	0.294	0.343	-16.7	88	0.00
31	T	cyclohexane	0.371	0.347	6.5	70	0.00
32	T	carbon tetrachloride	0.275	0.308	-12.0	83	0.00
33	S	1,2-dichloroethane-d4	0.177	0.183	-3.4	79	0.00
34	T	benzene	0.899	0.828	7.9	69	0.00
35	T	1,1-dichloropropene	0.306	0.304	0.7	74	0.00
36	T	1,2-dichloroethane	0.209	0.230	-10.0	83	0.00
37	T	trichloroethene	0.241	0.248	-2.9	78	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E100108\E100123.D Vial: 20
Acq On : 1 Oct 2008 8:03 pm Operator: BR
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
38	T	ethyl acrylate	0.118	0.094	20.3#	60	0.00
39	T,C	1,2-dichloropropane	0.229	0.198	13.5	65	0.00
40	T	methyl methacrylate	0.082	0.067	18.3	61	0.00
41	T	dibromomethane	0.093	0.095	-2.2	75	0.00
42	T	bromodichloromethane	0.250	0.258	-3.2	77	0.00
43	T	2-chloroethyl vinyl ether	0.029	0.025	13.8	62	0.00
44	I	chlorobenzene-d5	1.000	1.000	0.0	69	0.00
45	T	cis-1,3-dichloropropene	0.424	0.440	-3.8	70	0.00
46	T	4-methyl-2-pentanone	0.125	0.096	23.2#	53	0.00
47	S	toluene-d8	1.285	1.343	-4.5	73	0.00
48	T,C	toluene	0.813	0.889	-9.3	74	0.00
49	T	1,1,2-trichloroethane	0.153	0.151	1.3	69	0.00
50	T	1,3-dichloropropane	0.320	0.306	4.4	66	0.00
51	T	tetrachloroethene	0.280	0.301	-7.5	76	0.00
52	T	trans-1,3-dichloropropene	0.283	0.310	-9.5	73	0.00
53	T	2-hexanone	0.070	0.051	27.1#	55	0.01
54	T	dibromochloromethane	0.234	0.237	-1.3	69	0.00
55	T	1,2-dibromoethane	0.194	0.191	1.5	68	0.00
56	T,P	chlorobenzene	0.912	0.936	-2.6	70	0.00
57	T	1,1,1,2-tetrachloroethane	0.290	0.301	-3.8	70	0.00
58	T,C	ethylbenzene	1.470	1.650	-12.2	77	0.00
59	T	m,p-xylene	0.583	0.654	-12.2	76	0.00
60	T	butyl acrylate	0.328	0.295	10.1	60	0.00
61	T	o-xylene	0.561	0.628	-11.9	75	0.00
62	T	styrene	0.884	1.005	-13.7	74	0.00
63	T	isopropylbenzene	1.260	1.520	-20.6#	81	0.00
64	T	bromobenzene	0.340	0.347	-2.1	71	0.00
65	T,P	bromoform	0.122	0.126	-3.3	68	0.00
66	S	4-bromofluorobenzene	0.430	0.462	-7.4	74	0.00
67	T	1,2,3-trichloropropane	0.183	0.186	-1.6	68	0.00
68	T	1,4-dichloro-2-butene	0.034	0.043	-26.5#	91	0.00
69	T	n-propylbenzene	1.670	2.003	-19.9	80	0.00
70	T	2-chlorotoluene	0.981	1.190	-21.3#	82	0.00
71	T	4-chlorotoluene	1.068	1.290	-20.8#	81	0.00
72	T	1,3,5-trimethylbenzene	1.105	1.319	-19.4	80	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\4\DATA\E100108\E100123.D Vial: 20
Acq On : 1 Oct 2008 8:03 pm Operator: BR
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
74	T,P	1,1,2,2-tetrachloroethane	0.449	0.381	15.1	65	0.00
75	T	tert-butylbenzene	2.229	2.212	0.8	77	0.00
76	T	sec-butylbenzene	3.523	3.725	-5.7	83	0.00
77	T	1,2,4-trimethylbenzene	2.721	2.819	-3.6	79	0.00
78	T	1,3-dichlorobenzene	1.484	1.428	3.8	73	0.00
79	T	p-isopropyltoluene	2.688	2.817	-4.8	79	0.00
80	T	dicyclopentadiene	3.766	3.864	-2.6	79	0.00
81	T	1,4-dichlorobenzene	1.481	1.396	5.7	73	0.00
82	T	1,2-dichlorobenzene	1.235	1.165	5.7	72	0.00
83	T	n-butylbenzene	2.476	2.743	-10.8	85	0.00
84	T	1,2-dibromo-3-chloropropane	0.058	0.055	5.2	78	0.01
85	T	1,2,4-trichlorobenzene	0.788	0.760	3.6	74	0.02
86	T	hexachlorobutadiene	0.457	0.485	-6.1	86	0.02
87	T	naphthalene	1.094	0.898	17.9	63	0.02
88	T	1,2,3-trichlorobenzene	0.609	0.569	6.6	75	0.02
89	T	2-Methylnaphthalene	0.413	0.305	26.2#	54	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100123.D Vial: 20
Acq On : 1 Oct 2008 8:03 pm Operator: BR
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 20:28 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1762628	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	1087808	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	529766	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.88	113	463155	9.56 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	323121	10.33 ug/L	0.00
47) toluene-d8	9.00	98	1460469	10.45 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	502333	10.74 ug/L	0.00
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.48	85	235172	10.63 ug/L	92
3) chloromethane	1.68	50	426141	10.49 ug/L	98
4) vinyl chloride	1.79	62	454942	10.94 ug/L	98
5) 1,3-butadiene	1.84	39	273080	7.77 ug/L	98
6) bromomethane	2.15	94	215150	11.73 ug/L	95
7) chloroethane	2.27	64	243367	11.57 ug/L	97
8) trichlorofluoromethane	2.56	101	550997	13.86 ug/L	100
9) acrolein	3.03	56	62751	113.58 ug/L	86
10) trichlorotrifluoroethane	3.16	101	335380	11.84 ug/L	100
11) 1,1-dichloroethene	3.15	96	268986	10.10 ug/L	99
12) acetone	3.22	43	47602	11.30 ug/L	92
13) iodomethane	3.31	142	362245	10.39 ug/L	100
14) carbon disulfide	3.39	76	934577	7.85 ug/L	97
15) methylene chloride	3.72	84	451640	7.76 ug/L	91
16) acrylonitrile	4.00	53	630522	99.37 ug/L	98
17) trans-1,2-dichloroethene	4.04	96	427731	9.91 ug/L	96
18) methyl-t-butyl ether	4.05	73	481914	8.92 ug/L	95
19) acetonitrile	3.52	41	180269	106.30 ug/L	95
20) hexane	4.37	57	443045	9.02 ug/L #	91
21) 1,1-dichloroethane	4.54	63	716584	9.40 ug/L	97
22) vinyl acetate	4.61	43	202897	8.00 ug/L	98
23) cis-1,2-dichloroethene	5.27	96	465211	9.84 ug/L	92
24) 2,2-dichloropropane	5.25	77	588081	11.10 ug/L	94
25) 2-butanone	5.29	72	16973	8.97 ug/L #	93
26) methyl acrylate	5.42	55	119365	8.35 ug/L	97
27) bromochloromethane	5.57	49	319554	9.86 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100123.D Vial: 20
Acq On : 1 Oct 2008 8:03 pm Operator: BR
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 20:28 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) chloroform	5.69	83	717315	10.58 ug/L	99
30) 1,1,1-trichloroethane	5.90	97	605192	11.66 ug/L	96
31) cyclohexane	5.97	56	611797	9.36 ug/L	98
32) carbon tetrachloride	6.12	117	543523	11.21 ug/L	97
34) benzene	6.38	78	1458959	9.21 ug/L	99
35) 1,1-dichloropropene	6.12	75	535272	9.93 ug/L	98
36) 1,2-dichloroethane	6.41	62	406237	11.02 ug/L	100
37) trichloroethene	7.27	95	437168	10.31 ug/L	91
38) ethyl acrylate	7.43	55	166408	7.97 ug/L	98
39) 1,2-dichloropropane	7.57	63	349071	8.64 ug/L	96
40) methyl methacrylate	7.75	41	118862	8.26 ug/L	90
41) dibromomethane	7.74	93	167460	10.18 ug/L	99
42) bromodichloromethane	7.98	83	455303	10.34 ug/L	99
43) 2-chloroethyl vinyl ether	8.41	63	44043	8.59 ug/L #	87
45) cis-1,3-dichloropropene	8.62	75	478888	10.39 ug/L	92
46) 4-methyl-2-pentanone	8.85	43	104663	7.68 ug/L	92
48) toluene	9.10	92	966627	10.93 ug/L	99
49) 1,1,2-trichloroethane	9.74	83	164527	9.90 ug/L	92
50) 1,3-dichloropropane	9.99	76	332968	9.57 ug/L	98
51) tetrachloroethene	9.96	164	327495	10.76 ug/L	97
52) trans-1,3-dichloropropene	9.47	75	336810	10.96 ug/L	91
53) 2-hexanone	10.16	43	55797	7.30 ug/L	97
54) dibromochloromethane	10.35	129	257494	10.13 ug/L	93
55) 1,2-dibromoethane	10.51	107	208114	9.87 ug/L	99
56) chlorobenzene	11.32	112	1017726	10.26 ug/L	96
57) 1,1,1,2-tetrachloroethane	11.46	131	327272	10.37 ug/L	97
58) ethylbenzene	11.50	91	1795111	11.23 ug/L	96
59) m,p-xylene	11.70	106	1422491	22.44 ug/L	93
60) butyl acrylate	12.35	55	320844	8.98 ug/L	99
61) o-xylene	12.36	106	682697	11.18 ug/L	90
62) styrene	12.39	104	1093689	11.37 ug/L	98
63) isopropylbenzene	12.99	105	1652967	12.06 ug/L	95
64) bromobenzene	13.49	156	377561	10.21 ug/L	91
65) bromoform	12.69	173	137497	10.36 ug/L	96
67) 1,2,3-trichloropropane	13.59	75	201910	10.12 ug/L #	84
68) 1,4-dichloro-2-butene	13.70	89	46841	12.70 ug/L #	39
69) n-propylbenzene	13.71	91	2178351	11.99 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100123.D Vial: 20
Acq On : 1 Oct 2008 8:03 pm Operator: BR
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 20:28 2008 Quant Results File: 25ML0929.RES

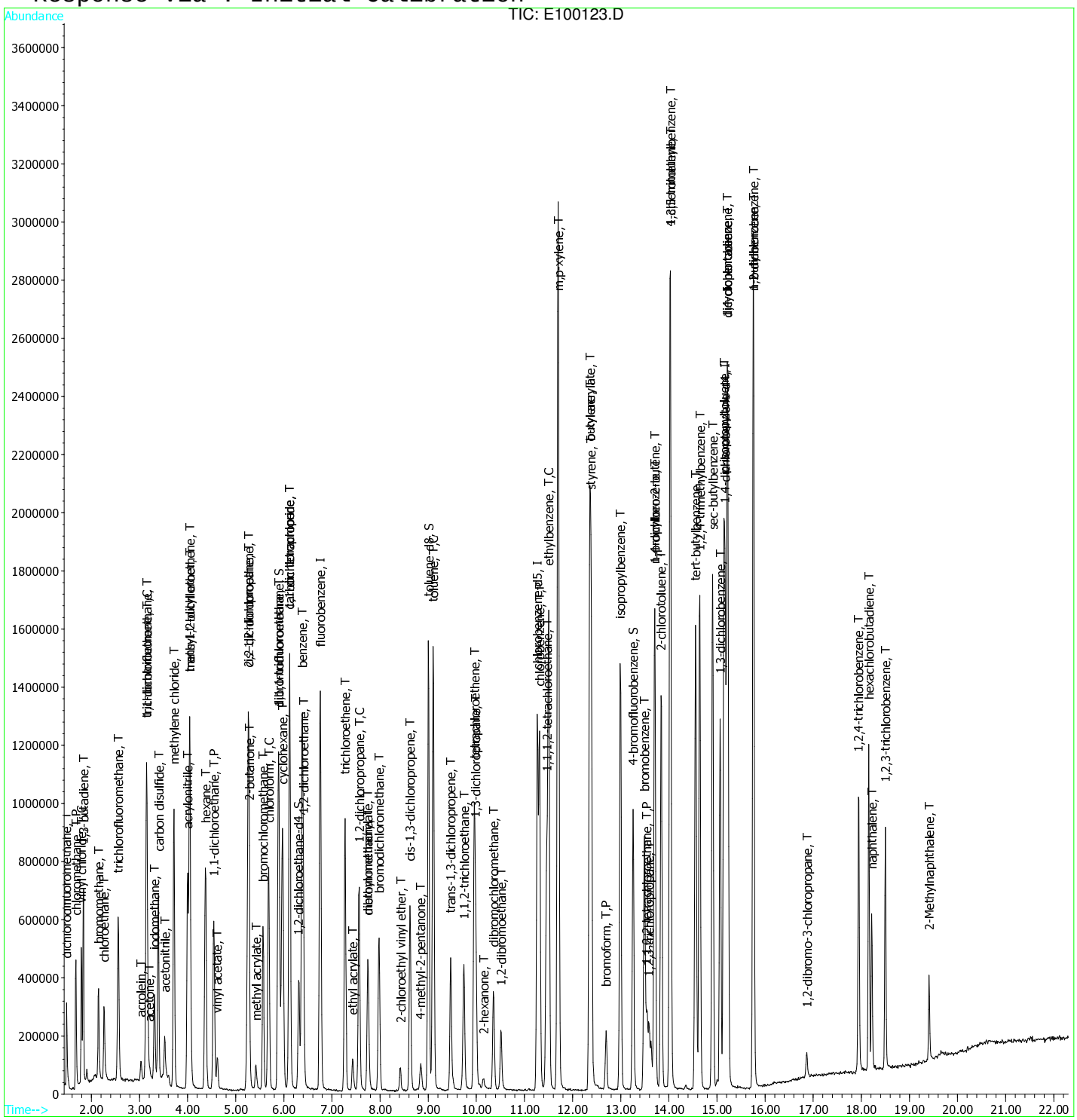
Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	2-chlorotoluene	13.85	91	1294026	12.13	ug/L	94
71)	4-chlorotoluene	14.03	91	1403455	12.08	ug/L	97
72)	1,3,5-trimethylbenzene	14.02	105	1435193	11.94	ug/L	97
74)	1,1,2,2-tetrachloroethane	13.54	83	201584	8.48	ug/L	95
75)	tert-butylbenzene	14.56	119	1172019	9.93	ug/L	96
76)	sec-butylbenzene	14.91	105	1973312	10.57	ug/L	98
77)	1,2,4-trimethylbenzene	14.64	105	1493149	10.36	ug/L	93
78)	1,3-dichlorobenzene	15.07	146	756535	9.62	ug/L	97
79)	p-isopropyltoluene	15.15	119	1492329	10.48	ug/L	97
80)	dicyclopentadiene	15.22	66	2046868	10.26	ug/L	98
81)	1,4-dichlorobenzene	15.20	146	739303	9.42	ug/L	97
82)	1,2-dichlorobenzene	15.76	146	617208	9.44	ug/L	97
83)	n-butylbenzene	15.76	91	1453140	11.08	ug/L	99
84)	1,2-dibromo-3-chloropropan	16.87	75	28940	9.37	ug/L	90
85)	1,2,4-trichlorobenzene	17.95	180	402406	9.64	ug/L	97
86)	hexachlorobutadiene	18.16	225	256998	10.61	ug/L	94
87)	naphthalene	18.22	128	475735	8.21	ug/L	100
88)	1,2,3-trichlorobenzene	18.50	180	301631	9.35	ug/L	99
89)	2-Methylnaphthalene	19.41	142	161747	7.40	ug/L	89

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\4\DATA\E100108\E100123.D Vial: 20
Acq On : 1 Oct 2008 8:03 pm Operator: BR
Sample : ,CCV,CCV_W25 10 PPB,1, Inst : VOA5
Misc : 8260_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 20:28 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



SAMPLE RAW DATA

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESTB01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-01A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100127.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100127.D Vial: 24
Acq On : 1 Oct 2008 10:30 pm Operator: BR
Sample : ,SAMP,ME0809C97-01A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 23:17 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

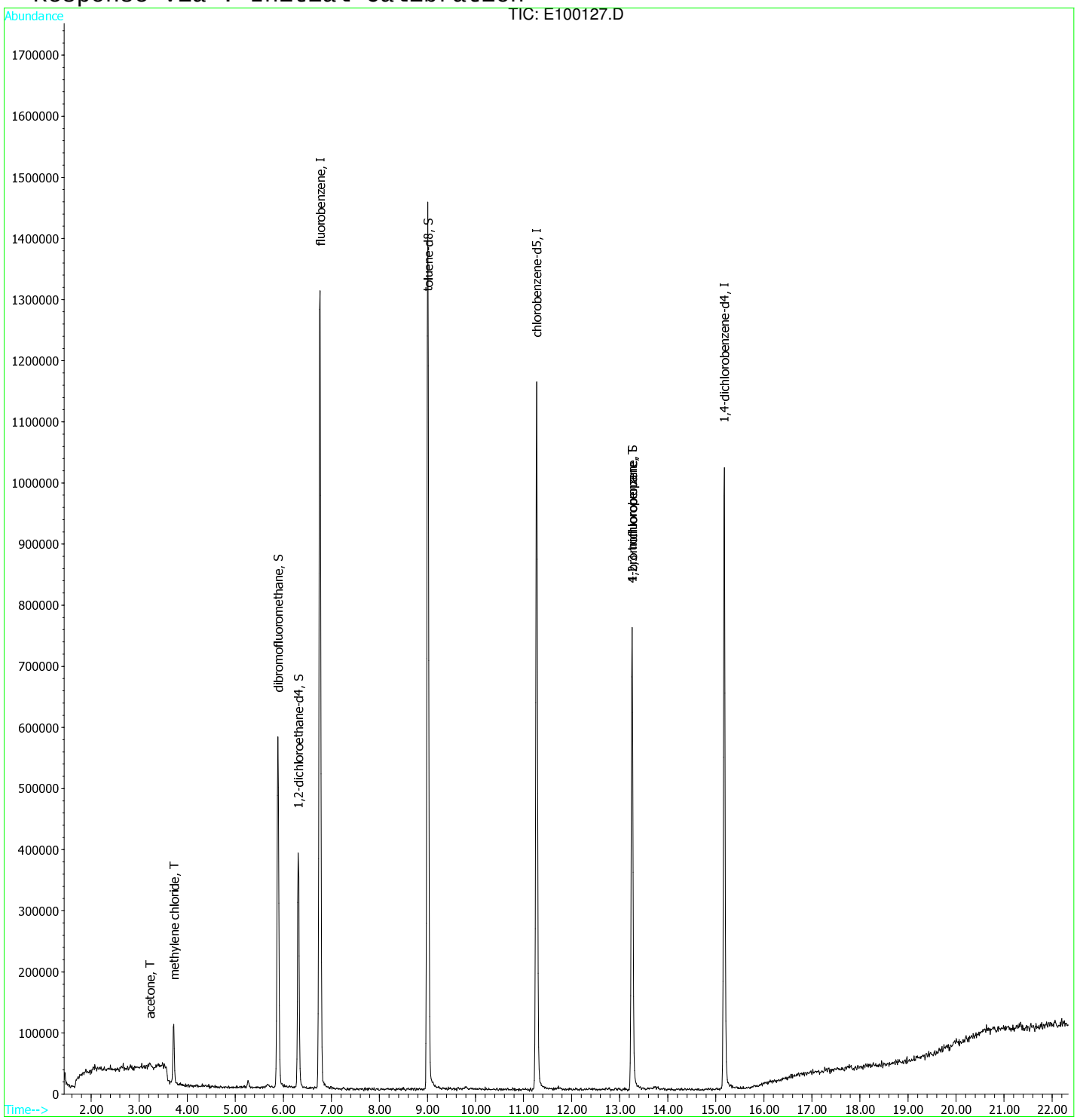
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1677237	10.00 ug/L	0.01
44) chlorobenzene-d5	11.27	117	967318	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	376293	10.00 ug/L	0.01
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	459740	9.97 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	349831	11.75 ug/L	0.00
47) toluene-d8	9.01	98	1363595	10.97 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	415773	10.00 ug/L	0.01
Target Compounds					Qvalue
12) acetone	3.22	43	19333	4.82 ug/L	88
15) methylene chloride	3.71	84	46184	0.83 ug/L	88
67) 1,2,3-trichloropropane	13.25	75	176760	9.96 ug/L #	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100127.D Vial: 24
Acq On : 1 Oct 2008 10:30 pm Operator: BR
Sample : ,SAMP,ME0809C97-01A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 1 23:17 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 1 Oct 2008 10:30 pm
Data File: C:\HPCHEM\4\DATA\E100108\E100127.D
Name: ,SAMP,ME0809C97-01A,1,
Misc: 8260+_W25
Method: C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title: 8260_W 25ml ICAL 09/29/08-MISC& admirality
Library Searched: C:\DATABASE\WILEY.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E100127.D 25ML0929.M Mon Oct 06 12:11:07 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E100108\E100127.D Vial: 24
Acq On : 1 Oct 2008 10:30 pm Operator: BR
Sample : ,SAMP,ME0809C97-01A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

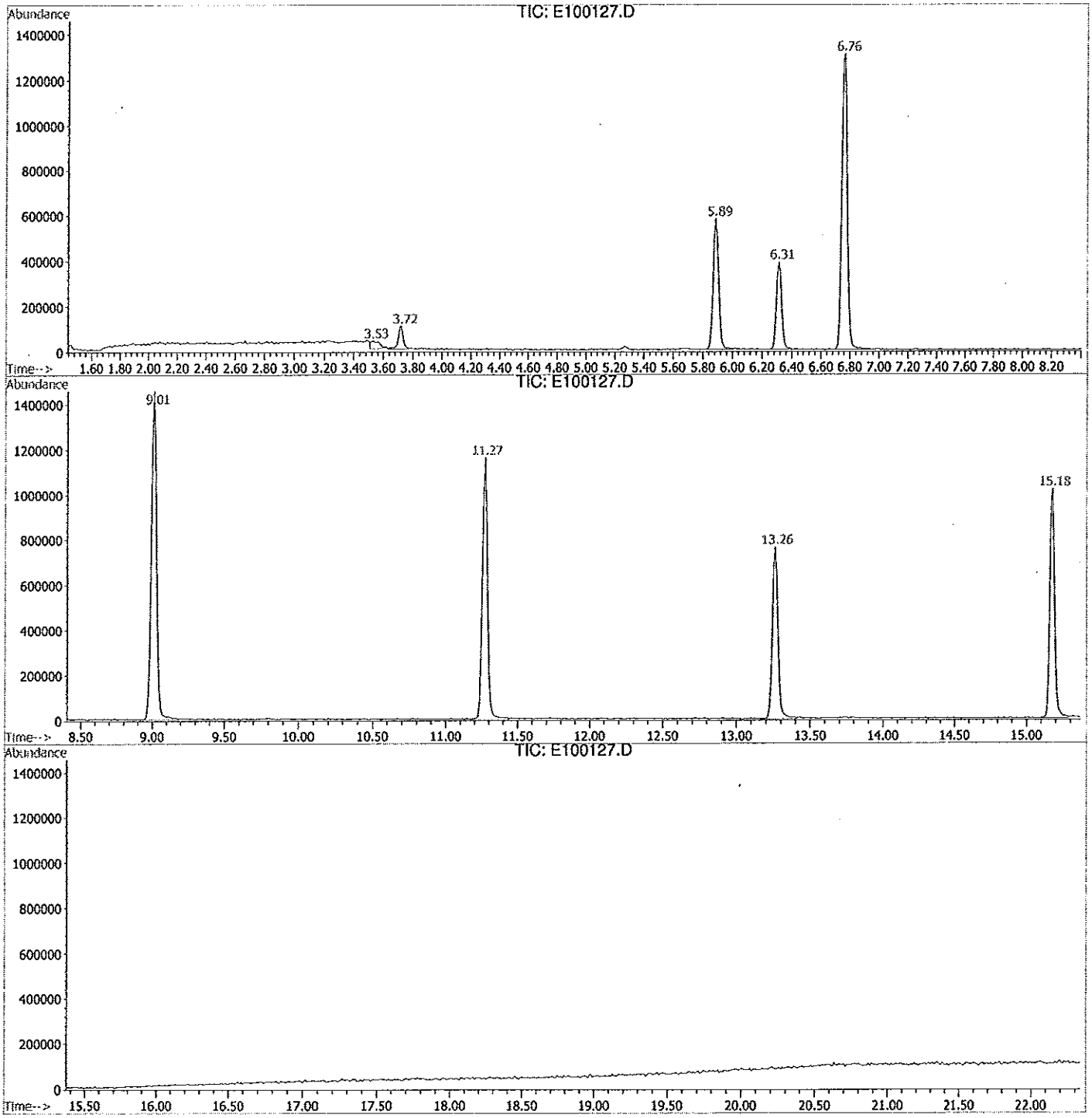
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.526	211	213	224	rVB6	33025	136567	3.68%	0.794%
2	3.723	224	233	242	rVB	99107	234261	6.32%	1.361%
3	5.888	443	453	465	rBV	573626	1473978	39.75%	8.565%
4	6.311	488	496	506	rBV	384253	950665	25.64%	5.524%
5	6.764	535	542	561	rVB	1305262	3431316	92.53%	19.939%
6	9.008	761	770	788	rBV	1453239	3708216	100.00%	21.548%
7	11.272	990	1000	1017	rBV	1160602	2935822	79.17%	17.060%
8	13.261	1192	1202	1217	rBV	758531	2004250	54.05%	11.646%
9	15.180	1387	1397	1408	rBV	1018351	2334147	62.95%	13.563%

Sum of corrected areas: 17209222

E100127.D 25ML0929.M Mon Oct 06 12:11:02 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E100108\E100127.D
Operator : BR
Acquired : 1 Oct 2008 10:30 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809C97-01A,1,
Misc Info : 8260+_W25
Vial Number: 24
Quant File :25ML0929.RES (RTE Integrator)



E100127.D 25ML0929.M Mon Oct 06 12:11:05 2008

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESDUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-02A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100131.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100131.D Vial: 28
Acq On : 2 Oct 2008 12:34 am Operator: BR
Sample : ,SAMP,ME0809C97-02A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:27 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

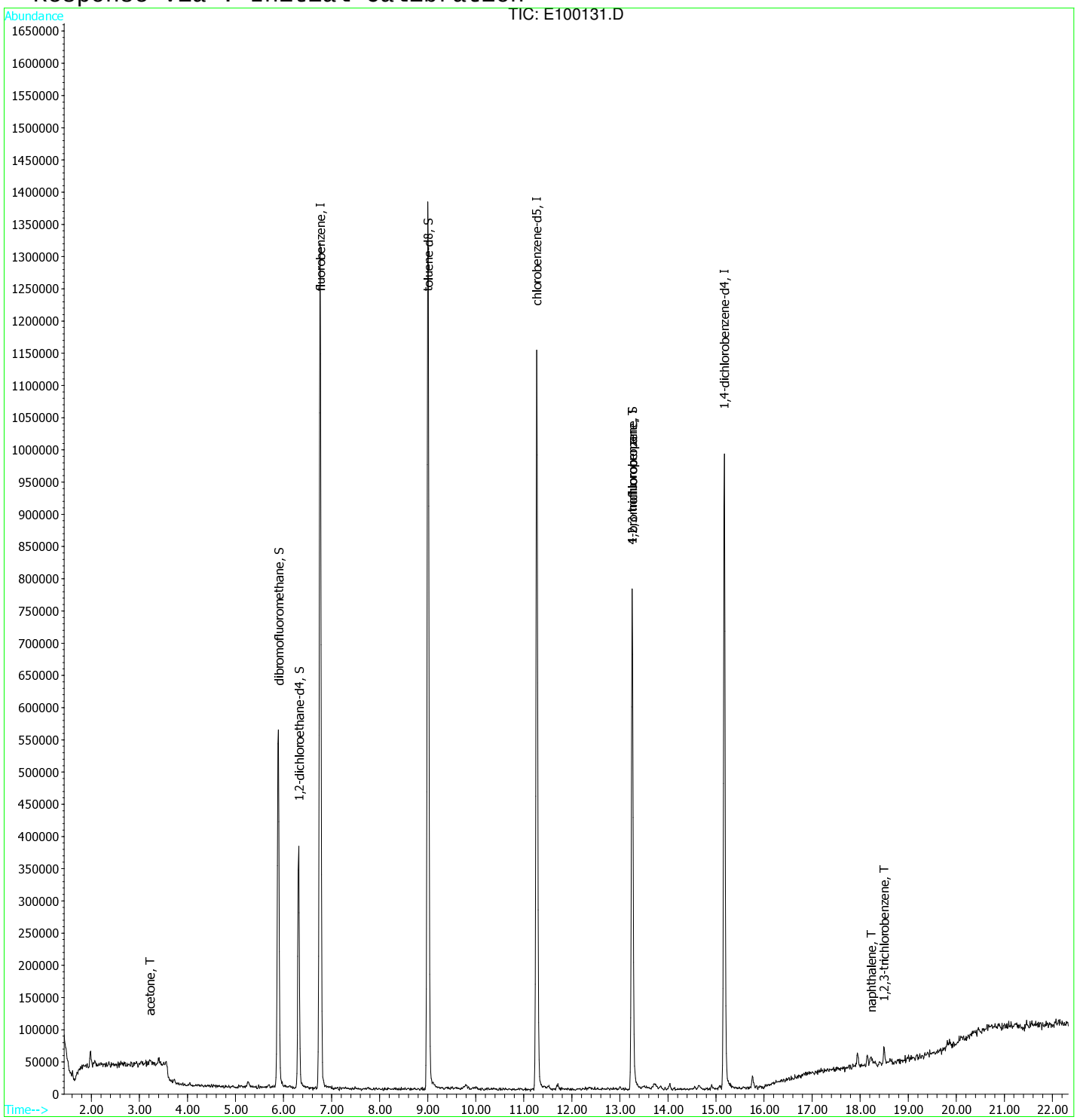
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1618277	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	957079	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	374168	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	449000	10.09 ug/L	0.00
33) 1,2-dichloroethane-d4	6.32	65	335322	11.68 ug/L	0.00
47) toluene-d8	9.00	98	1319637	10.73 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	418023	10.16 ug/L	0.00
Target Compounds					Qvalue
12) acetone	3.22	43	16659	4.31 ug/L	98
67) 1,2,3-trichloropropane	13.26	75	172424	9.82 ug/L #	55
87) naphthalene	18.22	128	14412	0.35 ug/L	100
88) 1,2,3-trichlorobenzene	18.49	180	10485	0.46 ug/L	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100131.D Vial: 28
Acq On : 2 Oct 2008 12:34 am Operator: BR
Sample : ,SAMP,ME0809C97-02A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:27 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 2 Oct 2008 12:34 am
Data File: C:\HPCHEM\4\DATA\E100108\E100131.D
Name: ,SAMP,ME0809C97-02A,1,
Misc: 8260+_W25
Method: C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title: 8260_W 25ml ICAL 09/29/08-MISC& admirality
Library Searched: C:\DATABASE\WILEY.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E100131.D 25ML0929.M Mon Oct 06 12:11:34 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E100108\E100131.D Vial: 28
Acq On : 2 Oct 2008 12:34 am Operator: BR
Sample : ,SAMP,ME0809C97-02A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

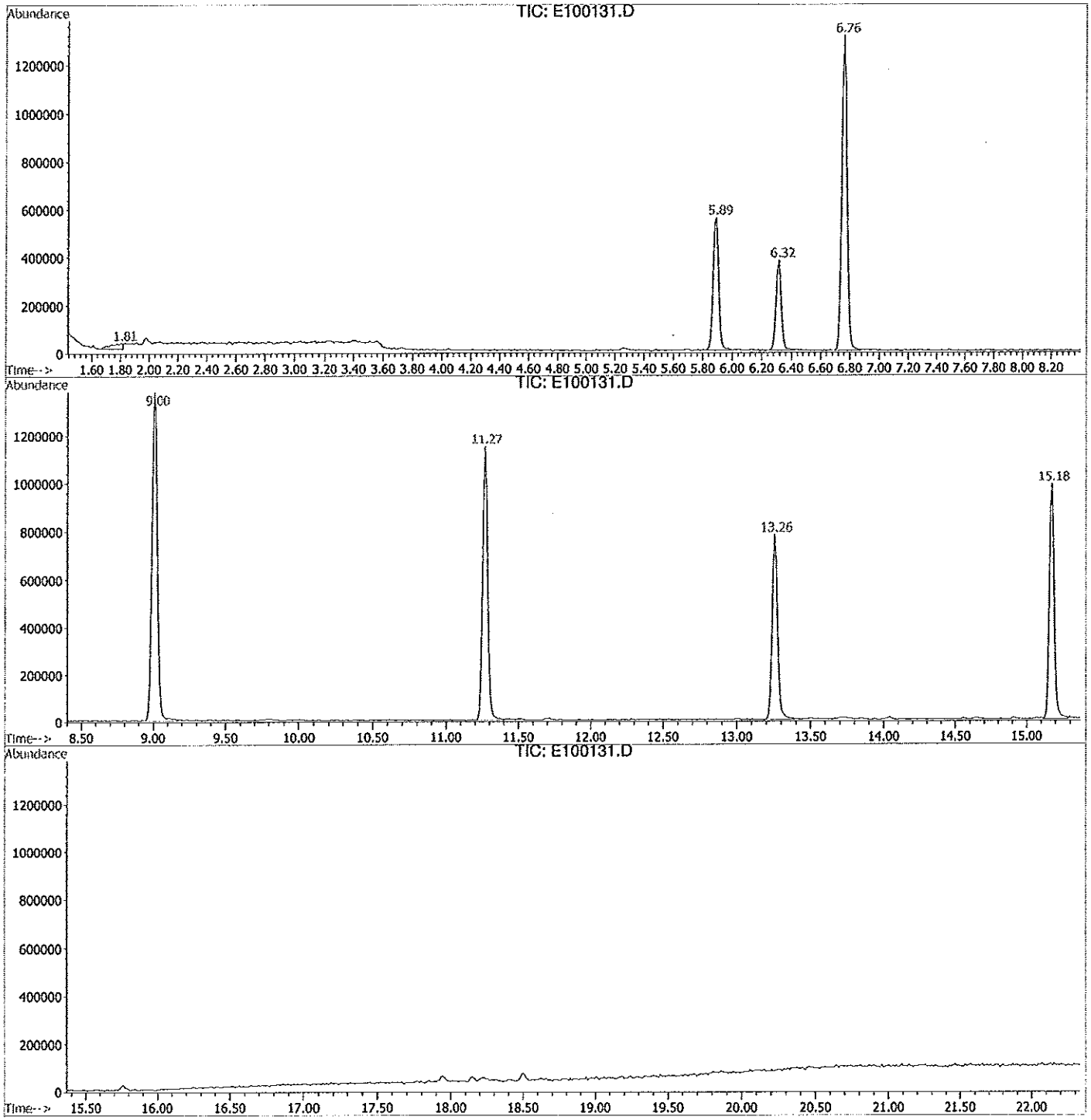
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.808	23	39	40	rBV	24258	146828	4.09%	0.887%
2	5.893	446	454	465	rBV	554699	1444193	40.19%	8.722%
3	6.316	488	497	508	rBV	375969	929614	25.87%	5.614%
4	6.759	534	542	554	rBV	1313352	3296982	91.76%	19.912%
5	9.004	763	770	792	rBV	1378076	3593116	100.00%	21.701%
6	11.268	994	1000	1014	rBV	1149077	2861142	79.63%	17.280%
7	13.256	1192	1202	1221	rBV	778266	1997734	55.60%	12.065%
8	15.175	1391	1397	1408	rBV	986474	2287889	63.67%	13.818%

Sum of corrected areas: 16557498

E100131.D 25ML0929.M Mon Oct 06 12:11:29 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E100108\E100131.D
Operator : BR
Acquired : 2 Oct 2008 12:34 am using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809C97-02A,1,
Misc Info : 8260+_W25
Vial Number: 28
Quant File :25ML0929.RES (RTE Integrator)



E100131.D 25ML0929.M Mon Oct 06 12:11:33 2008

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-03A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100132.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100132.D Vial: 29
Acq On : 2 Oct 2008 1:05 am Operator: BR
Sample : ,SAMP,ME0809C97-03A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:28 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

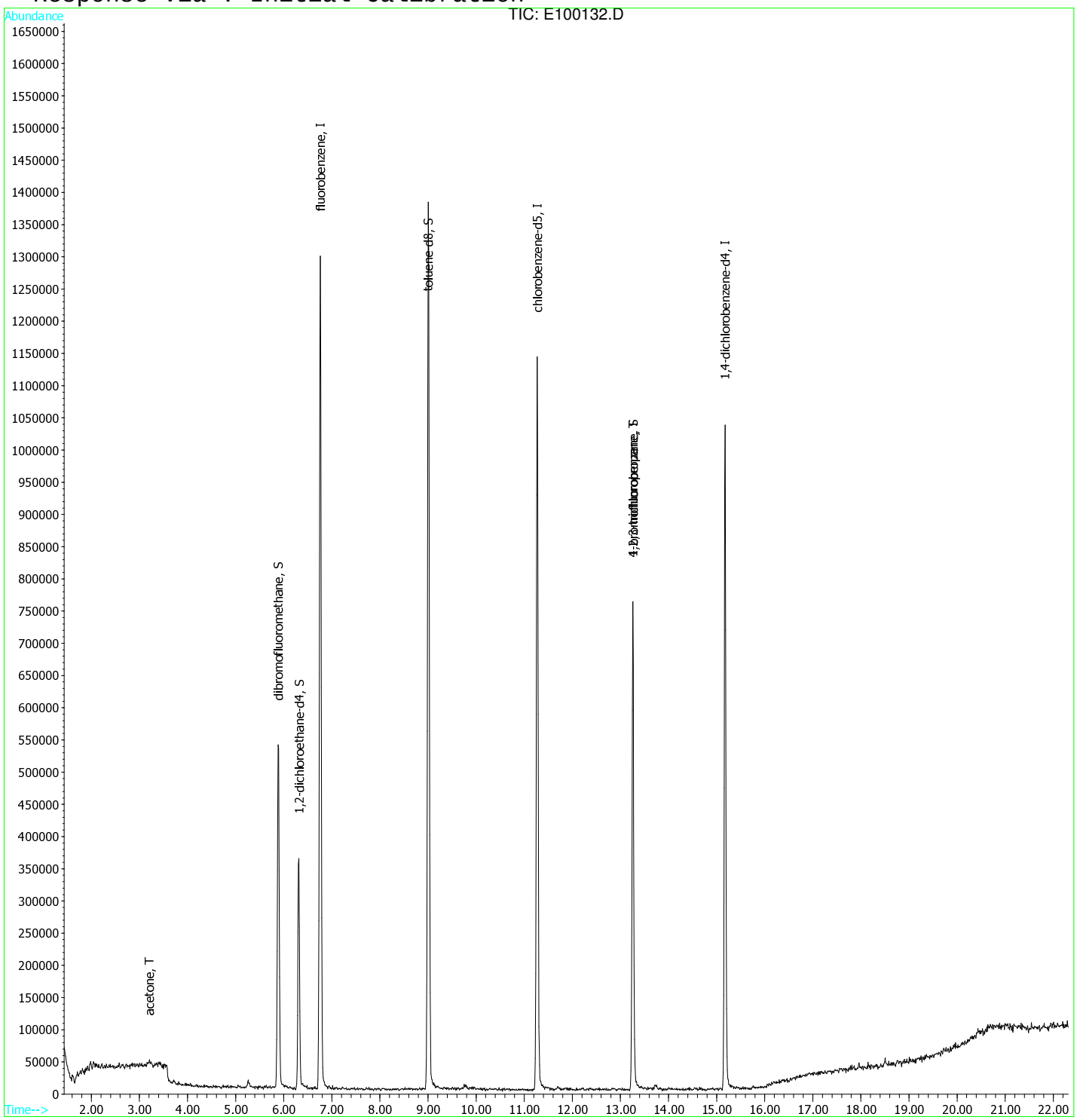
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1616425	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	964155	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	384136	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.88	113	445630	10.03 ug/L	0.00
33) 1,2-dichloroethane-d4	6.32	65	342438	11.94 ug/L	0.00
47) toluene-d8	9.00	98	1319071	10.65 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	407728	9.84 ug/L	0.00
Target Compounds					Qvalue
12) acetone	3.22	43	9831	2.54 ug/L	99
67) 1,2,3-trichloropropane	13.26	75	169142	9.56 ug/L #	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100132.D Vial: 29
Acq On : 2 Oct 2008 1:05 am Operator: BR
Sample : ,SAMP,ME0809C97-03A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:28 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 2 Oct 2008 1:05 am
Data File: C:\HPCHEM\4\DATA\E100108\E100132.D
Name: ,SAMP,ME0809C97-03A,1,
Misc: 8260+_W25
Method: C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title: 8260_W 25ml ICAL 09/29/08-MISC& admirality
Library Searched: C:\DATABASE\WILEY.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E100132.D 25ML0929.M Mon Oct 06 12:11:48 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E100108\E100132.D Vial: 29
Acq On : 2 Oct 2008 1:05 am Operator: BR
Sample : ,SAMP,ME0809C97-03A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

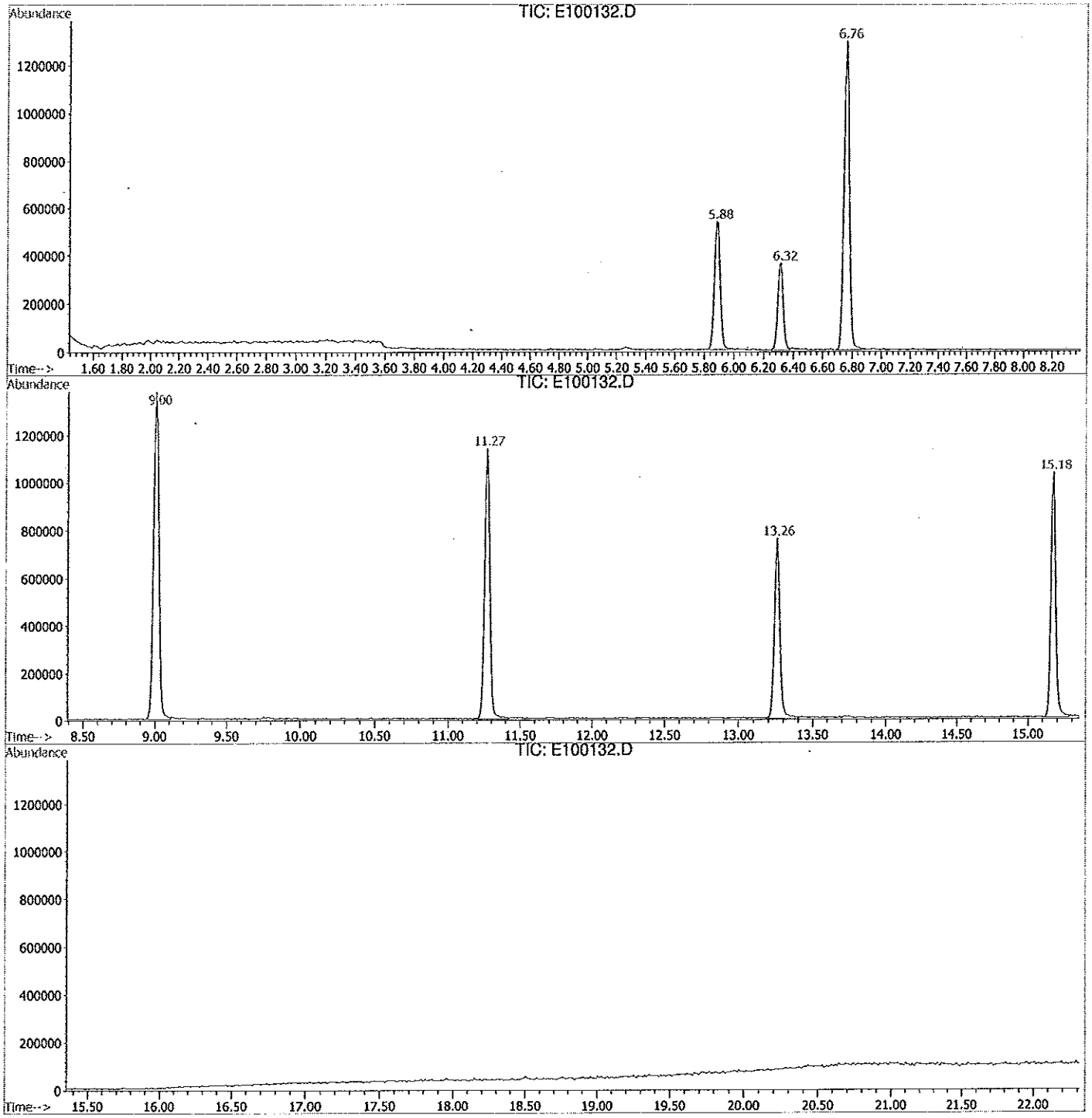
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	5.884	445	453	466	rBV	532720	1431137	40.26%	8.722%
2	6.317	490	497	503	rBV	359279	934383	26.29%	5.694%
3	6.760	534	542	558	rBV	1293398	3307472	93.05%	20.157%
4	9.004	763	770	781	rBV	1377594	3554347	100.00%	21.661%
5	11.268	990	1000	1016	rBV	1139968	2900273	81.60%	17.675%
6	13.256	1195	1202	1217	rBV	759505	1949947	54.86%	11.883%
7	15.176	1391	1397	1408	rBV	1032945	2331359	65.59%	14.208%

Sum of corrected areas: 16408918

E100132.D 25ML0929.M Mon Oct 06 12:11:44 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E100108\E100132.D
Operator : BR
Acquired : 2 Oct 2008 1:05 am using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809C97-03A,1,
Misc Info : 8260+_W25
Vial Number: 29
Quant File :25ML0929.RES (RTE Integrator)



E100132.D 25ML0929.M Mon Oct 06 12:11:47 2008

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWC-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-04A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100133.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100133.D Vial: 30
Acq On : 2 Oct 2008 1:36 am Operator: BR
Sample : ,SAMP,ME0809C97-04A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:28 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

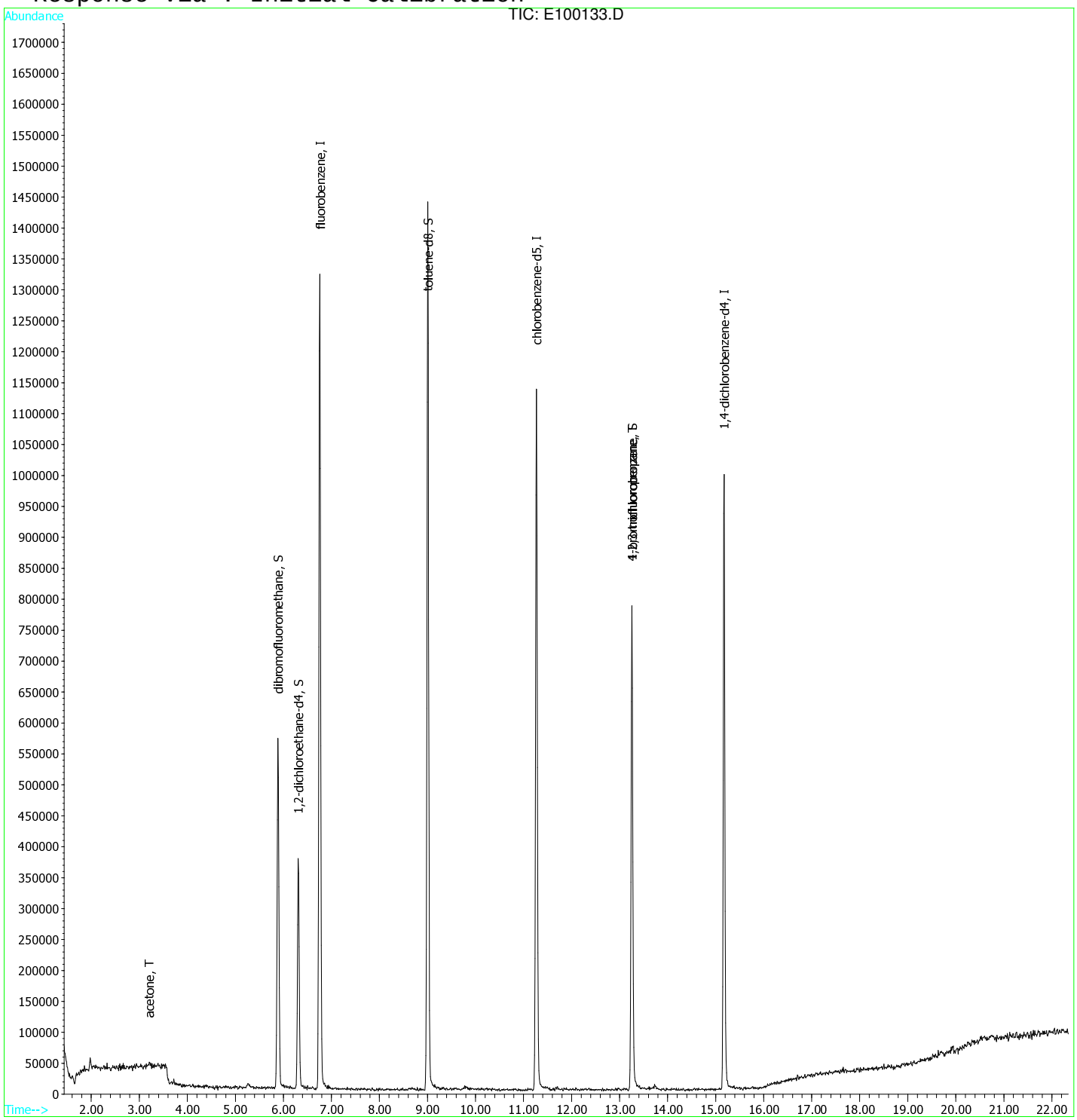
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1625134	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	937473	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	371867	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.88	113	439879	9.85 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	342248	11.87 ug/L	0.00
47) toluene-d8	9.00	98	1317549	10.94 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	411238	10.20 ug/L	0.00
Target Compounds					Qvalue
12) acetone	3.21	43	15687	4.04 ug/L	84
67) 1,2,3-trichloropropane	13.26	75	174795	10.17 ug/L #	56

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100133.D Vial: 30
Acq On : 2 Oct 2008 1:36 am Operator: BR
Sample : ,SAMP,ME0809C97-04A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:28 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 2 Oct 2008 1:36 am
Data File: C:\HPCHEM\4\DATA\E100108\E100133.D
Name: ,SAMP,ME0809C97-04A,1,
Misc: 8260+_W25
Method: C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title: 8260_W 25ml ICAL 09/29/08-MISC& admirality
Library Searched: C:\DATABASE\WILEY.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E100133.D 25ML0929.M Mon Oct 06 12:12:02 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E100108\E100133.D Vial: 30
Acq On : 2 Oct 2008 1:36 am Operator: BR
Sample : ,SAMP,ME0809C97-04A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

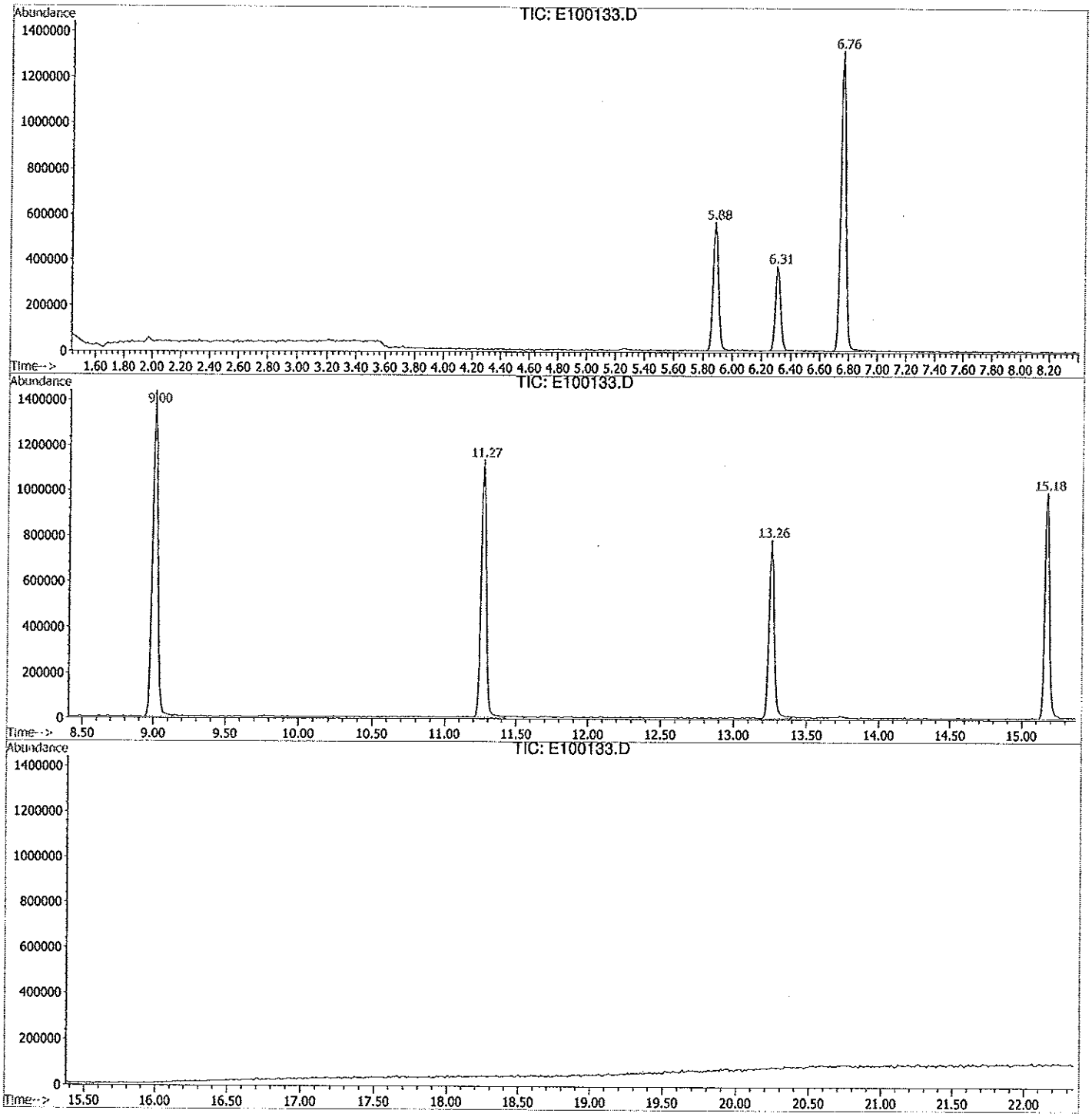
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	5.884	446	453	467	rBV	566798	1464699	40.99%	8.955%
2	6.308	488	496	509	rVB	371493	932156	26.09%	5.699%
3	6.760	533	542	557	rBV	1318465	3328271	93.14%	20.348%
4	9.005	763	770	784	rBV	1435537	3573318	100.00%	21.846%
5	11.269	992	1000	1016	rBV	1133815	2829349	79.18%	17.298%
6	13.257	1194	1202	1216	rBV	784002	1964944	54.99%	12.013%
7	15.176	1390	1397	1415	rBV	994303	2263819	63.35%	13.840%

Sum of corrected areas: 16356556

E100133.D 25ML0929.M Mon Oct 06 12:11:57 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E100108\E100133.D
Operator : BR
Acquired : 2 Oct 2008 1:36 am using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809C97-04A,1,
Misc Info : 8260+_W25
Vial Number: 30
Quant File :25ML0929.RES (RTE Integrator)



E100133.D 25ML0929.M Mon Oct 06 12:12:01 2008

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWT-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-05A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100128.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100128.D Vial: 25
Acq On : 1 Oct 2008 11:01 pm Operator: BR
Sample : ,SAMP,ME0809C97-05A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:26 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

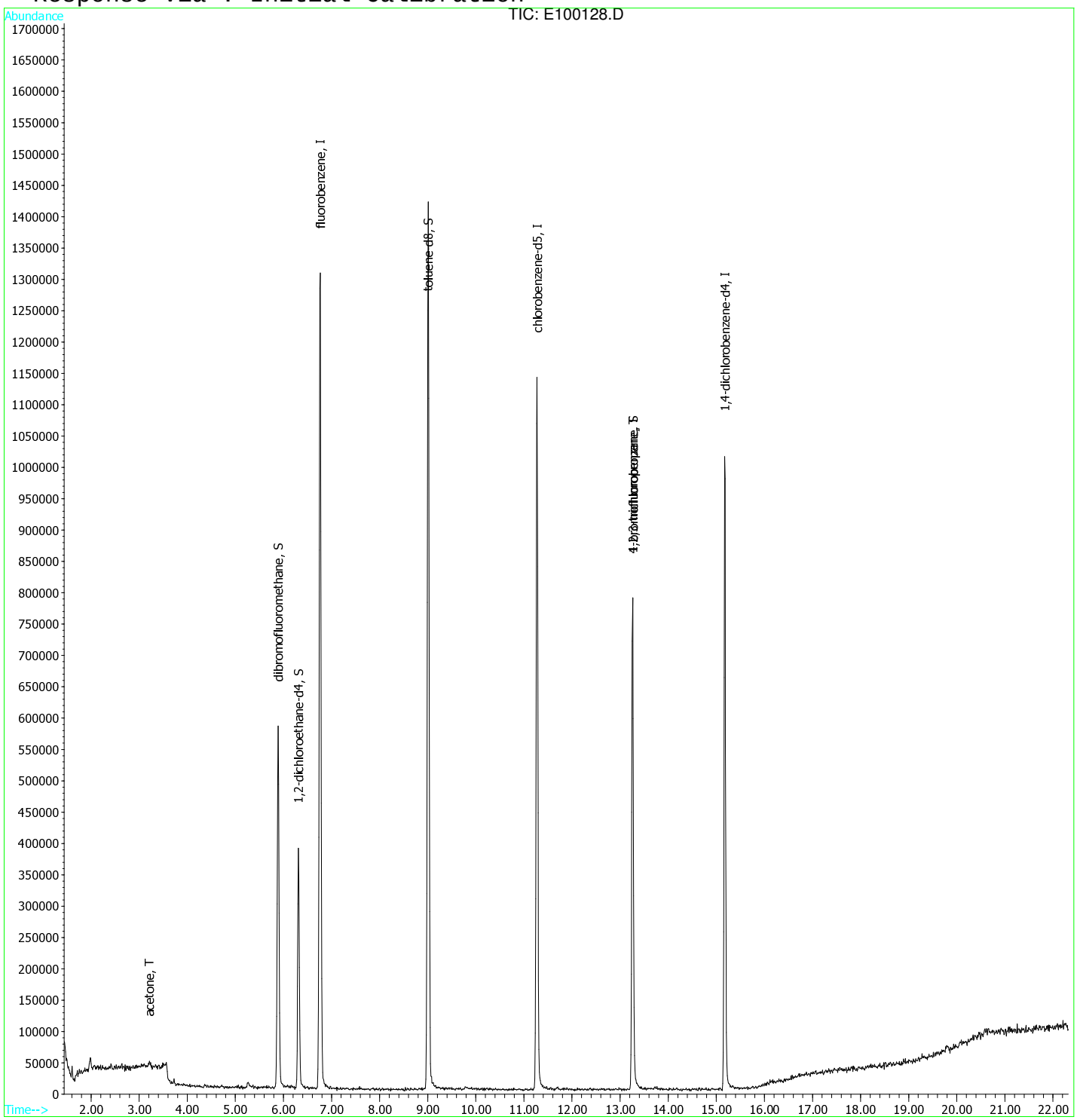
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.77	96	1637898	10.00 ug/L	0.01
44) chlorobenzene-d5	11.27	117	974247	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	385279	10.00 ug/L	0.01
System Monitoring Compounds					
29) dibromofluoromethane	5.89	113	458847	10.19 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	349948	12.04 ug/L	0.00
47) toluene-d8	9.01	98	1329130	10.62 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	430185	10.27 ug/L	0.01
Target Compounds					Qvalue
12) acetone	3.22	43	15289	3.91 ug/L	73
67) 1,2,3-trichloropropane	13.26	75	173114	9.69 ug/L #	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100128.D Vial: 25
Acq On : 1 Oct 2008 11:01 pm Operator: BR
Sample : ,SAMP,ME0809C97-05A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:26 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 1 Oct 2008 11:01 pm
Data File: C:\HPCHEM\4\DATA\E100108\E100128.D
Name: ,SAMP,ME0809C97-05A,1,
Misc: 8260+_W25
Method: C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title: 8260_W 25ml ICAL 09/29/08-MISC& admirality
Library Searched: C:\DATABASE\WILEY.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E100128.D 25ML0929.M Mon Oct 06 12:11:20 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E100108\E100128.D
Acq On : 1 Oct 2008 11:01 pm
Sample : ,SAMP,ME0809C97-05A,1,
Misc : 8260+_W25
MS Integration Params: RTEINT.P

Vial: 25
Operator: BR
Inst : VOA5
Multiplr: 1.00

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Smoothing : ON
Sampling : 1
Start Thrs: 0.02
Stop Thrs : 0

Filtering: 5
Min Area: 3 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

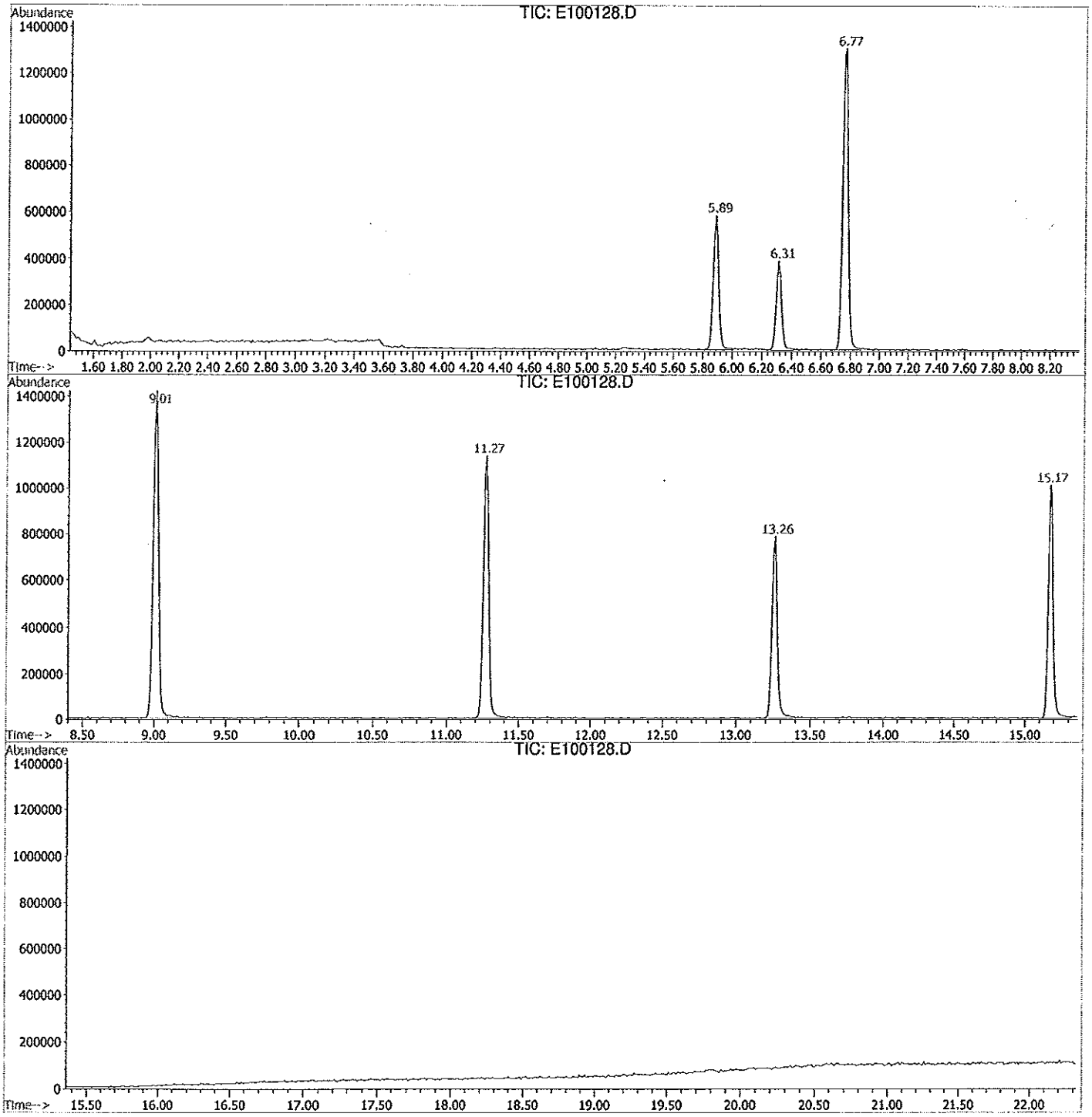
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	5.890	444	453	465	rBV2	578994	1496468	41.21%	8.929%
2	6.313	488	496	511	rBV	384773	976968	26.91%	5.829%
3	6.766	533	542	553	rBV	1302251	3358290	92.49%	20.038%
4	9.010	759	770	789	rBV	1416259	3631052	100.00%	21.666%
5	11.274	990	1000	1015	rBV	1137143	2928161	80.64%	17.472%
6	13.262	1195	1202	1217	rBV	784895	2007803	55.30%	11.980%
7	15.172	1389	1396	1411	rBV	1010844	2360542	65.01%	14.085%

Sum of corrected areas: 16759284

E100128.D 25ML0929.M Mon Oct 06 12:11:16 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E100108\E100128.D
Operator : BR
Acquired : 1 Oct 2008 11:01 pm using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809C97-05A,1,
Misc Info : 8260+_W25
Vial Number: 25
Quant File :25ML0929.RES (RTE Integrator)



E100128.D 25ML0929.M Mon Oct 06 12:11:19 2008

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWD-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-06A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100134.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\4\DATA\E100108\E100134.D Vial: 31
Acq On : 2 Oct 2008 2:07 am Operator: BR
Sample : ,SAMP,ME0809C97-06A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:28 2008 Quant Results File: 25ML0929.RES

Quant Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration
DataAcq Meth : VOA-AQ

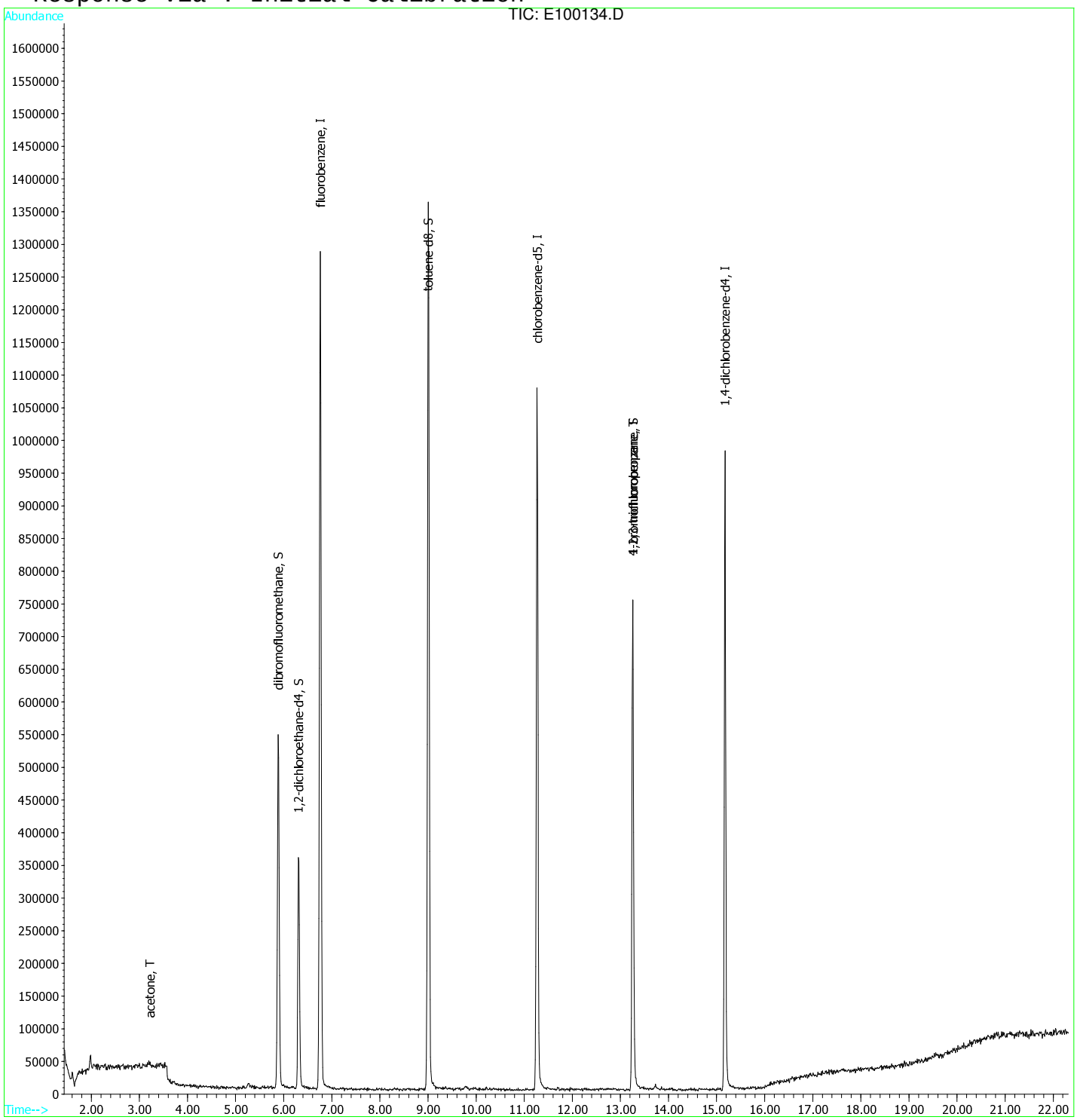
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	6.76	96	1565363	10.00 ug/L	0.00
44) chlorobenzene-d5	11.27	117	910122	10.00 ug/L	0.00
73) 1,4-dichlorobenzene-d4	15.18	152	362303	10.00 ug/L	0.00
System Monitoring Compounds					
29) dibromofluoromethane	5.88	113	443132	10.30 ug/L	0.00
33) 1,2-dichloroethane-d4	6.31	65	338803	12.20 ug/L	0.00
47) toluene-d8	9.00	98	1270381	10.86 ug/L	0.00
66) 4-bromofluorobenzene	13.26	95	402089	10.28 ug/L	0.00
Target Compounds					Qvalue
12) acetone	3.23	43	18306	4.89 ug/L	70
67) 1,2,3-trichloropropane	13.26	75	168706	10.11 ug/L #	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\4\DATA\E100108\E100134.D Vial: 31
Acq On : 2 Oct 2008 2:07 am Operator: BR
Sample : ,SAMP,ME0809C97-06A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 7:28 2008 Quant Results File: 25ML0929.RES

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Last Update : Mon Sep 29 22:30:27 2008
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: BR Date Acquired: 2 Oct 2008 2:07 am
Data File: C:\HPCHEM\4\DATA\E100108\E100134.D
Name: ,SAMP,ME0809C97-06A,1,
Misc: 8260+_W25
Method: C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title: 8260_W 25ml ICAL 09/29/08-MISC& admirality
Library Searched: C:\DATABASE\WILEY.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

E100134.D 25ML0929.M Mon Oct 06 12:12:16 2008

LSC Area Percent Report

Data File : C:\HPCHEM\4\DATA\E100108\E100134.D Vial: 31
Acq On : 2 Oct 2008 2:07 am Operator: BR
Sample : ,SAMP,ME0809C97-06A,1, Inst : VOA5
Misc : 8260+_W25 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\4\METHODS\25ML0929.M (RTE Integrator)
Title : 8260_W 25ml ICAL 09/29/08-MISC& admirality
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

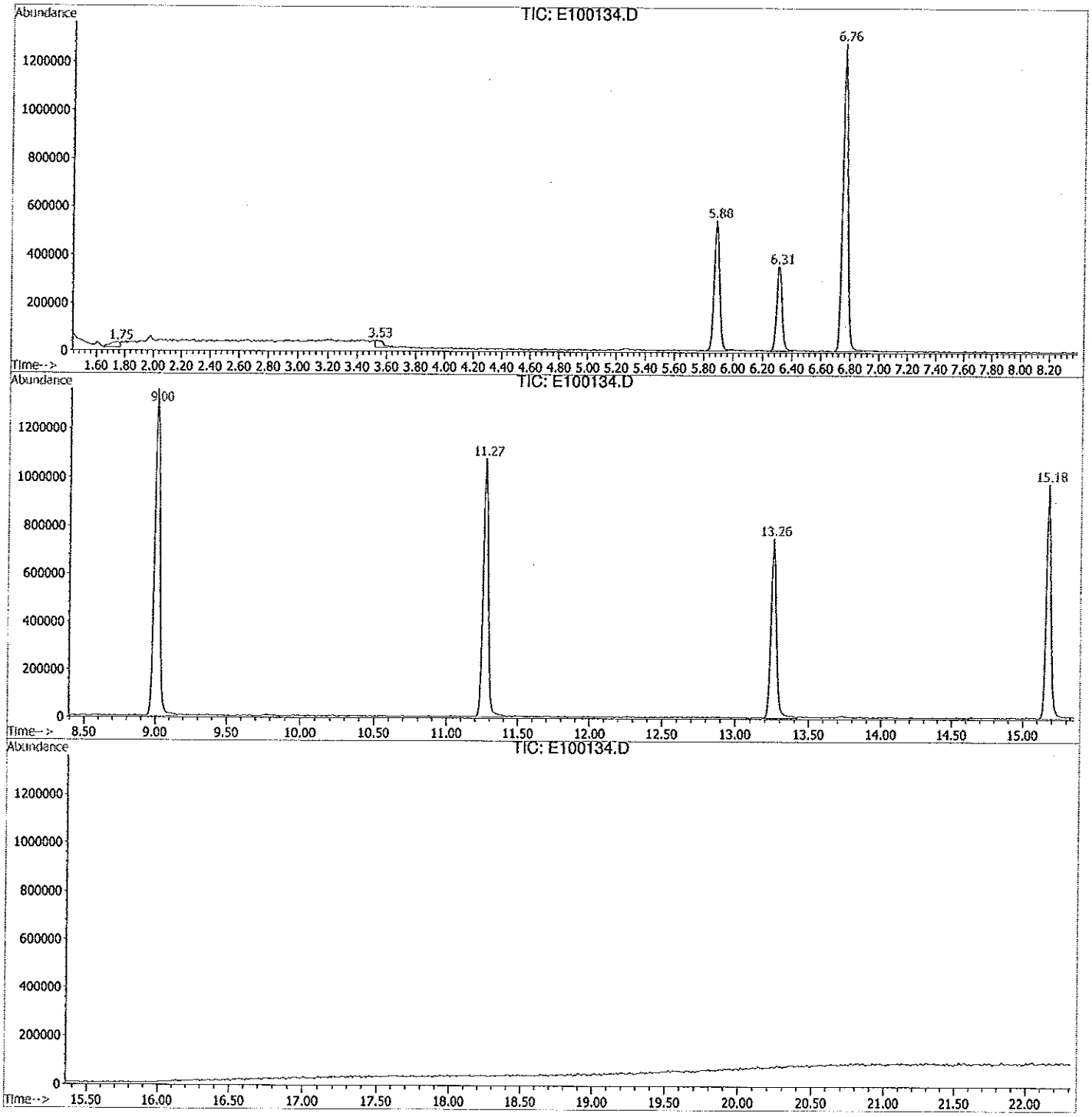
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.749	23	33	35	rBV4	23348	114248	3.31%	0.709%
2	3.531	213	214	229	rVB4	32874	114701	3.32%	0.712%
3	5.884	446	453	462	rBV	540956	1407250	40.78%	8.735%
4	6.307	489	496	506	rBV	353567	911711	26.42%	5.659%
5	6.760	534	542	557	rBV	1282264	3238701	93.84%	20.103%
6	9.004	761	770	786	rBV	1358978	3451198	100.00%	21.422%
7	11.268	991	1000	1020	rBV	1074706	2750554	79.70%	17.073%
8	13.256	1195	1202	1219	rBV	751018	1913359	55.44%	11.876%
9	15.176	1390	1397	1413	rBV	978762	2209015	64.01%	13.711%

Sum of corrected areas: 16110737

E100134.D 25ML0929.M Mon Oct 06 12:12:12 2008

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\4\DATA\E100108\E100134.D
Operator : BR
Acquired : 2 Oct 2008 2:07 am using AcqMethod VOA-AQ
Instrument : VOA5
Sample Name: ,SAMP,ME0809C97-06A,1,
Misc Info : 8260+_W25
Vial Number: 31
Quant File :25ML0929.RES (RTE Integrator)



E100134.D 25ML0929.M Mon Oct 06 12:12:15 2008

INJECTION LOG(S)

Injection Log

Directory: c:\hpchem\4\data\e100108

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	e100101.d	1.	,TUNE,BFB TUNE,1,	BFB	1 Oct 08 07:31
2	2	e100102.d	1.	,CCV,CCV_W25 10 PPB,1,	8260_W25	1 Oct 08 07:50
3	3	e100103.d	1.	,MBLK,MBLK-W25-10/01,1,	8260+_W25	1 Oct 08 08:31
4	4	e100104.d	1.	,LCS,LCS-W25-10 PPB,1,	8260+_W25	1 Oct 08 09:02
5	5	e100105.d	1.	,LCS,LCS-W25-10 PPB,1,	8260+_W25	1 Oct 08 09:51
6	6	e100106.d	1.	,SAMP,me0809B86-05A,1,RA,	8260+_W25	1 Oct 08 10:42
7	7	e100107.d	1.	,SAMP,me0809B86-06A,1,RA,	8260+_W25	1 Oct 08 11:13
8	8	e100108.d	1.	,SAMP,me0809B86-07A,1,	8260+_W25	1 Oct 08 11:44
9	9	e100109.d	1.	,SAMP,me0809B86-08A,1,	8260+_W25	1 Oct 08 12:15
10	10	e100110.d	1.	,SAMP,me0809B86-09A,1,	8260+_W25	1 Oct 08 12:46
11	11	e100111.d	1.	,SAMP,me0809B86-10A,1,	8260+_W25	1 Oct 08 13:17
12	12	e100112.d	1.	,SAMP,me0809B86-11A,1,	8260+_W25	1 Oct 08 13:48
13	13	e100113.d	1.	,SAMP,me0809B86-12A,1,	8260+_W25	1 Oct 08 14:19
14	14	e100114.d	1.	,SAMP,me0809B86-13A,1,	8260+_W25	1 Oct 08 14:50
15	15	e100115.d	1.	,LCS,LCS-DUP-10 PPB,1,	8260+_W25	1 Oct 08 15:21
16	16	e100116.d	1.	,TUNE,BFB TUNE,1,	BFB	1 Oct 08 16:00
17	17	e100117.d	1.	,CCV,CCV_W25 10 PPB,1,	8260_W25	1 Oct 08 16:19
18	18	e100118.d	1.	,CCV,CCV_W25 10 PPB,1,	8260_W25	1 Oct 08 16:57
19	19	e100119.d	1.	,TUNE,BFB TUNE,1,	BFB	1 Oct 08 17:58
20	20	e100120.d	1.	,CCV,CCV_W25 10 PPB,1,	8260_W25	1 Oct 08 18:17
21	21	e100121.d	1.	RINSE	8260_W25	1 Oct 08 18:56
22	19	e100122.d	1.	,TUNE,BFB TUNE,1,	BFB	1 Oct 08 19:45
23	20	e100123.d	1.	,CCV,CCV_W25 10 PPB,1,	8260_W25	1 Oct 08 20:03
24	21	e100124.d	1.	,SAMP,ME0809B86-11A,1,RA,	8260+_W25	1 Oct 08 20:57
25	22	e100125.d	1.	,SAMP,ME0809B86-12A,1,RA,	8260+_W25	1 Oct 08 21:28
26	23	e100126.d	1.	,SAMP,ME0809B86-13A,1,RA,	8260+_W25	1 Oct 08 21:59
27	24	e100127.d	1.	,SAMP,ME0809C97-01A,1,	8260+_W25	1 Oct 08 22:30
28	25	e100128.d	1.	,SAMP,ME0809C97-05A,1,	8260+_W25	1 Oct 08 23:01
29	26	e100129.d	1.	,MS,ME0809C97-05AMS,1,	8260+_W25	1 Oct 08 23:32
30	27	e100130.d	1.	,MSD,ME0809C97-05AMSD,1,	8260+_W25	2 Oct 08 00:03
31	28	e100131.d	1.	,SAMP,ME0809C97-02A,1,	8260+_W25	2 Oct 08 00:34
32	29	e100132.d	1.	,SAMP,ME0809C97-03A,1,	8260+_W25	2 Oct 08 01:05
33	30	e100133.d	1.	,SAMP,ME0809C97-04A,1,	8260+_W25	2 Oct 08 01:36
34	31	e100134.d	1.	,SAMP,ME0809C97-06A,1,	8260+_W25	2 Oct 08 02:07
35	32	e100135.d	1.	,SAMP,ME0810012-01A,1,	8260_W25	2 Oct 08 02:38
36	33	e100136.d	1.	,SAMP,ME0810012-02A,1,	8260_W25	2 Oct 08 03:09
37	34	e100137.d	1.	,SAMP,ME0810012-03A,1,	8260_W25	2 Oct 08 03:40
38		e100138.d	1.			

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

MWH Americas, Inc.
175 West Jackson Blvd, Suite 1900
Chicago, IL 60604-2814
ATTN: Mr. Justin Finger

November 14, 2008

SUBJECT: ACS Residential, Data Validation

Dear Mr. Finger,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on November 6, 2008. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 19750:

SDG #	Fraction
ME0810733, ME0809C97	Volatiles, Semivolatiles, Chlorinated Pesticides & Polychlorinated Biphenyls, Metals, Cyanide

The data validation was performed under EPA Level III and Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan, November 2001, Rev.0
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Please feel free to contact us if you have any questions.

Sincerely,

ERauto

Erlinda T. Rauto
Operations Manager/Senior Chemist

V:\LOGIN\MWH\ACS\19750COV.wpd

1 WEEK TAT

Attachment 1

RTC PARCC

LDC #19750 (MWH Americas, Inc.-Chicago IL / ACS Residential)

LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260B)		SVOA (8270C)		Pest./ PCBs (8081/2)		Metals (SW846)		Tl (6010B)		CN- (9012B)																					
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	ME0810733	11/06/08	11/13/08	-	-	4	0	-	-	-	-	3	0	-	-																				
B	ME0809C97	11/06/08	11/13/08	5	0	4	0	4	0	4	0	-	-	4	0																				
B	ME0809C97	11/06/08	11/13/08	1	0	1	0	1	0	1	0	-	-	1	0																				
Total	T/LR			6	0	9	0	5	0	5	0	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs

19750ST.wpd

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-REST~~N~~01-32 B
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-01
Collection Date: 09/29/08 09:00
Date Received: 09/30/08 10:25

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Acetone	A	*4.8*	2	5.0	J J	µg/L	1	10/01/08 22:30
Benzene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
Bromodichloromethane	A	*ND*	0.5	1.0		µg/L	1	10/01/08 22:30
Bromoform	A	*ND*	0.4	1.0		µg/L	1	10/01/08 22:30
Bromomethane	A	*ND*	0.6	2.0		µg/L	1	10/01/08 22:30
2-Butanone	A	*ND*	1.5	2.0	UJ	µg/L	1	10/01/08 22:30
Carbon Disulfide	A	*ND*	0.4	2.0		µg/L	1	10/01/08 22:30
Carbon tetrachloride	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
Chlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 22:30
Chloroethane	A	*ND*	0.8	2.0		µg/L	1	10/01/08 22:30
Chloroform	A	*ND*	0.7	1.0		µg/L	1	10/01/08 22:30
Chloromethane	A	*ND*	0.3	2.0		µg/L	1	10/01/08 22:30
Dibromochloromethane	A	*ND*	0.6	1.0		µg/L	1	10/01/08 22:30
1,1-Dichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
1,2-Dichloroethane	A	*ND*	0.4	1.0		µg/L	1	10/01/08 22:30
1,1-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/01/08 22:30
cis-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/01/08 22:30
trans-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/01/08 22:30
1,2-Dichloropropane	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
trans-1,3-Dichloropropene	A	*ND*	0.6	1.0		µg/L	1	10/01/08 22:30
cis-1,3-Dichloropropene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
Ethylbenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 22:30
2-Hexanone	A	*ND*	1.1	2.0	UJ	µg/L	1	10/01/08 22:30
4-Methyl-2-Pentanone	A	*ND*	0.8	1.0		µg/L	1	10/01/08 22:30
Methylene chloride	A	*0.83*	0.7	2.0	2,B01,B	µg/L	1	10/01/08 22:30
Styrene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 22:30
1,1,2,2-Tetrachloroethane	A	*ND*	0.7	1.0		µg/L	1	10/01/08 22:30
Tetrachloroethene	A	*ND*	0.4	1.0		µg/L	1	10/01/08 22:30
Toluene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
1,1,1-Trichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
1,1,2-Trichloroethane	A	*ND*	0.7	1.0		µg/L	1	10/01/08 22:30
Trichloroethene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
Vinyl chloride	A	*ND*	0.4	2.0		µg/L	1	10/01/08 22:30
Total Xylenes	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
1,2,4-Trichlorobenzene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 22:30
1,2-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 22:30
1,3-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 22:30
1,4-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 22:30
Surr: 4-Bromofluorobenzene	S	100	0	75.2-115		%REC	1	10/01/08 22:30

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client:	MWH, Inc.		
Client Project:	GW - SemiAnnual / ACS		
Client Sample ID:	ACS-GW-REST~~N~~01-32 B	**Work Order / ID:**	ME0809C97-01
Sample Description:		**Collection Date:**	09/29/08 09:00
Sample Matrix:	Aqueous	**Date Received:**	09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
Surr: Dibromofluoromethane	S	99.7	0	92.7-119		%REC	1	10/01/08 22:30
Surr: 1,2-Dichloroethane-d4	S	118	0	88.2-132		%REC	1	10/01/08 22:30
Surr: Toluene-d8	S	110	0	89.3-116		%REC	1	10/01/08 22:30

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
4,4´-DDD	A	ND	0.035	1.0		µg/L	1	10/03/08 18:59	
4,4´-DDE	A	ND	0.016	1.0		µg/L	1	10/03/08 18:59	
4,4´-DDT	A	ND	0.016	1.0		µg/L	1	10/03/08 18:59	
Aldrin	A	ND	0.016	0.052		µg/L	1	10/03/08 18:59	
Alpha-BHC	A	ND	0.011	0.052		µg/L	1	10/03/08 18:59	
alpha-Chlordane	A	ND	10	10		µg/L	1	10/06/08 12:44	
Beta-BHC	A	ND	0.001	0.21		µg/L	1	10/03/08 18:59	
delta-BHC	A	*0.18*	0.016	1.0	Jb	µg/L	1	10/03/08 18:59	1.0uB
Dieldrin	A	ND	0.011	0.052		µg/L	1	10/03/08 18:59	
Endosulfan I	A	ND	0.014	1.0		µg/L	1	10/03/08 18:59	
Endosulfan II	A	ND	0.014	1.0		µg/L	1	10/03/08 18:59	
Endosulfan Sulfate	A	ND	0.016	1.0		µg/L	1	10/03/08 18:59	
Endrin	A	ND	0.014	1.0		µg/L	1	10/03/08 18:59	
Endrin Aldehyde	A	*0.01*	0.001	1.0	Jb	µg/L	1	10/03/08 18:59	1.0uB
Endrin Ketone	A	ND	0.029	1.0		µg/L	1	10/03/08 18:59	
Gamma-BHC	A	ND	0.011	0.10		µg/L	1	10/03/08 18:59	
gamma-Chlordane	A	ND	10	10		µg/L	1	10/06/08 12:44	
Heptachlor	A	ND	0.014	0.21		µg/L	1	10/03/08 18:59	
Heptachlor Epoxide	A	ND	0.016	0.10		µg/L	1	10/03/08 18:59	
Methoxychlor	A	ND	0.19	1.0		µg/L	1	10/03/08 18:59	
Toxaphene	A	ND	0.68	2.1		µg/L	1	10/03/08 18:59	
Aroclor 1016	A	ND	0.11	0.52		µg/L	1	10/03/08 18:59	
Aroclor 1221	A	ND	0.52	0.52		µg/L	1	10/03/08 18:59	
Aroclor 1232	A	ND	0.52	0.52		µg/L	1	10/03/08 18:59	
Aroclor 1242	A	ND	0.1	0.52		µg/L	1	10/03/08 18:59	
Aroclor 1248	A	ND	0.15	0.52		µg/L	1	10/03/08 18:59	
Aroclor 1254	A	ND	0.17	0.52		µg/L	1	10/03/08 18:59	
Aroclor 1260	A	ND	0.11	0.52		µg/L	1	10/03/08 18:59	
Surr: Tetrachloro-m-xylene	S	100	0	45.2-114		%REC	1	10/03/08 18:59	
Surr: Decachlorobiphenyl	S	85.0	0	11.6-136		%REC	1	10/03/08 18:59	

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TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Aluminum	A	ND	4.3	200		µg/L	5	10/03/08 11:54	
Antimony	A	*0.58*	0.038	6.0	J	µg/L	5	10/03/08 11:54	uB
Arsenic	A	*2.5*	0.31	10	J	µg/L	5	10/03/08 11:54	B
Barium	A	*130*	0.058	2.0		µg/L	5	10/03/08 11:54	B
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 11:54	
Cadmium	A	*0.078*	0.0044	2.0	J	µg/L	5	10/03/08 11:54	uB

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
TOTAL METALS	Method: **SW6020A**				Prep Date/Time: **10/01/08 07:20**		Analyst: **SAA**		
Calcium	A	*83000*	18	500	b	µg/L	5	10/03/08 11:54	B
Chromium	A	*3.7*	0.83	4.0	J	µg/L	5	10/03/08 11:54	UB
Cobalt	A	*0.25*	0.0019	3.0	J	µg/L	5	10/03/08 11:54	
Copper	A	*6.4*	0.088	10	J	µg/L	5	10/03/08 11:54	
Iron	A	*2400*	21	50		µg/L	5	10/03/08 11:54	
Lead	A	*0.59*	0.12	7.5	J	µg/L	5	10/03/08 11:54	
Magnesium	A	*48000*	1.7	500		µg/L	5	10/03/08 11:54	B
Manganese	A	*34*	0.074	2.0		µg/L	5	10/03/08 11:54	JB
Nickel	A	*ND*	0.031	10		µg/L	5	10/03/08 11:54	
Potassium	A	*2200*	4	500		µg/L	5	10/03/08 11:54	
Selenium	A	*ND*	0.043	5.0		µg/L	5	10/03/08 11:54	
Silver	A	*0.033*	0.0025	10	J	µg/L	5	10/03/08 11:54	
Sodium	A	*16000*	4.5	500		µg/L	5	10/03/08 11:54	B
Thallium	A	*3.3*	0.0065	2.0		µg/L	5	10/03/08 11:54	B
Vanadium	A	*ND*	1.1	8.0		µg/L	5	10/03/08 11:54	
Zinc	A	*11*	3.8	20	J	µg/L	5	10/03/08 11:54	
TOTAL METALS	Method: **SW7470A**				Prep Date/Time: **10/06/08 08:05**		Analyst: **SAA**		
Mercury	A	*ND*	0.03	0.20		µg/L	1	10/06/08 10:53	
SEMIVOLATILE ORGANICS	Method: **SW8270C**				Prep Date/Time: **10/03/08 07:36**		Analyst: **BEM**		
4-Bromophenyl phenyl ether	A	*ND*	0.93	10		µg/L	1	10/04/08 01:26	
Bis(2-ethylhexyl)phthalate	A	*ND*	1.1	10		µg/L	1	10/04/08 01:26	
Acenaphthene	A	*ND*	0.82	10		µg/L	1	10/04/08 01:26	
Acenaphthylene	A	*ND*	0.72	10		µg/L	1	10/04/08 01:26	
Anthracene	A	*ND*	0.93	10		µg/L	1	10/04/08 01:26	
Benzo[a]anthracene	A	*ND*	0.82	10		µg/L	1	10/04/08 01:26	
Benzo[a]pyrene	A	*ND*	0.93	10		µg/L	1	10/04/08 01:26	
Benzo[b]fluoranthene	A	*ND*	1.6	10		µg/L	1	10/04/08 01:26	
Benzo[g,h,i]perylene	A	*ND*	1	10		µg/L	1	10/04/08 01:26	
Benzo[k]fluoranthene	A	*ND*	2.3	10		µg/L	1	10/04/08 01:26	
Bis(2-chloroethoxy)methane	A	*ND*	1	10		µg/L	1	10/04/08 01:26	
Bis(2-chloroethyl)ether	A	*ND*	0.93	10		µg/L	1	10/04/08 01:26	
2,2´-oxybis(1-chloropropane)	A	*ND*	0.93	10		µg/L	1	10/04/08 01:26	
Butyl benzyl phthalate	A	*ND*	1	10		µg/L	1	10/04/08 01:26	
Carbazole	A	*ND*	1.2	10		µg/L	1	10/04/08 01:26	
4-Chloro-3-methylphenol	A	*ND*	1.2	21		µg/L	1	10/04/08 01:26	
4-Chloroaniline	A	*ND*	1	21		µg/L	1	10/04/08 01:26	

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	ND	0.93	10		µg/L	1	10/04/08 01:26
2-Chlorophenol	A	ND	0.72	10		µg/L	1	10/04/08 01:26
4-Chlorophenyl phenyl ether	A	ND	0.93	10		µg/L	1	10/04/08 01:26
Chrysene	A	ND	1	10		µg/L	1	10/04/08 01:26
Dibenz[a,h]anthracene	A	ND	0.93	10		µg/L	1	10/04/08 01:26
Dibenzofuran	A	ND	0.82	10		µg/L	1	10/04/08 01:26
3,3´-Dichlorobenzidine	A	ND	0.72	52		µg/L	1	10/04/08 01:26
2,4-Dichlorophenol	A	ND	0.72	10		µg/L	1	10/04/08 01:26
Diethyl phthalate	A	ND	1.1	10		µg/L	1	10/04/08 01:26
Dimethyl phthalate	A	ND	0.93	10		µg/L	1	10/04/08 01:26
2,4-Dimethylphenol	A	ND	0.82	10		µg/L	1	10/04/08 01:26
Di-n-butyl phthalate	A	ND	1.2	10		µg/L	1	10/04/08 01:26
Di-n-octyl phthalate	A	ND	1.1	10		µg/L	1	10/04/08 01:26
4,6-Dinitro-2-methylphenol	A	ND	1.1	52		µg/L	1	10/04/08 01:26
2,4-Dinitrophenol	A	ND	9.7	52		µg/L	1	10/04/08 01:26
2,4-Dinitrotoluene	A	ND	0.82	10		µg/L	1	10/04/08 01:26
2,6-Dinitrotoluene	A	ND	1.1	10		µg/L	1	10/04/08 01:26
Fluoranthene	A	ND	1	10		µg/L	1	10/04/08 01:26
Fluorene	A	ND	1	10		µg/L	1	10/04/08 01:26
Hexachlorobenzene	A	ND	0.93	10		µg/L	1	10/04/08 01:26
Hexachlorobutadiene	A	ND	0.93	10		µg/L	1	10/04/08 01:26
Hexachlorocyclopentadiene	A	ND	0.62	10		µg/L	1	10/04/08 01:26
Hexachloroethane	A	ND	0.93	10		µg/L	1	10/04/08 01:26
Indeno[1,2,3cd]pyrene	A	ND	1	10		µg/L	1	10/04/08 01:26
Isophorone	A	ND	1	10		µg/L	1	10/04/08 01:26
2-Methylnaphthalene	A	ND	0.93	10		µg/L	1	10/04/08 01:26
2-Methylphenol	A	ND	0.72	10		µg/L	1	10/04/08 01:26
3/4-Methylphenol	A	ND	0.82	10		µg/L	1	10/04/08 01:26
2-Nitroaniline	A	ND	1	52		µg/L	1	10/04/08 01:26
3-Nitroaniline	A	ND	1.3	52		µg/L	1	10/04/08 01:26
4-Nitroaniline	A	ND	1.8	52		µg/L	1	10/04/08 01:26
2-Nitrophenol	A	ND	1	10		µg/L	1	10/04/08 01:26
4-Nitrophenol	A	ND	4.4	52		µg/L	1	10/04/08 01:26
N-Nitrosodi-n-propylamine	A	ND	1	10		µg/L	1	10/04/08 01:26
N-Nitrosodiphenylamine	A	ND	0.72	10		µg/L	1	10/04/08 01:26
Naphthalene	A	ND	0.72	10		µg/L	1	10/04/08 01:26
Nitrobenzene	A	ND	1	10		µg/L	1	10/04/08 01:26
Pentachlorophenol	A	ND	1.3	52		µg/L	1	10/04/08 01:26
Phenanthrene	A	ND	0.82	10		µg/L	1	10/04/08 01:26

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	*39*	0.41	10		µg/L	1	10/04/08 01:26
Pyrene	A	*ND*	0.93	10		µg/L	1	10/04/08 01:26
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg/L	1	10/04/08 01:26
2,4,6-Trichlorophenol	A	*ND*	0.93	10		µg/L	1	10/04/08 01:26
Surr: Nitrobenzene-d5	S	49.5	0	10-121		%REC	1	10/04/08 01:26
Surr: 2-Fluorobiphenyl	S	57.5	0	10-109		%REC	1	10/04/08 01:26
Surr: Terphenyl-d14	S	50.6	0	10-130		%REC	1	10/04/08 01:26
Surr: Phenol-d5	S	20.6	0	10-100		%REC	1	10/04/08 01:26
Surr: 2-Fluorophenol	S	29.6	0	10-84.7		%REC	1	10/04/08 01:26
Surr: 2,4,6-Tribromophenol	S	51.2	0	10-120		%REC	1	10/04/08 01:26

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	*4.3*	2	5.0	J	µg/L	1	10/02/08 00:34	5.0UBJ
Benzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34	
Bromodichloromethane	A	*ND*	0.5	1.0		µg/L	1	10/02/08 00:34	
Bromoform	A	*ND*	0.4	1.0		µg/L	1	10/02/08 00:34	
Bromomethane	A	*ND*	0.6	2.0		µg/L	1	10/02/08 00:34	
2-Butanone	A	*ND*	1.5	2.0	UJ	µg/L	1	10/02/08 00:34	
Carbon Disulfide	A	*ND*	0.4	2.0		µg/L	1	10/02/08 00:34	
Carbon tetrachloride	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34	
Chlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 00:34	
Chloroethane	A	*ND*	0.8	2.0		µg/L	1	10/02/08 00:34	
Chloroform	A	*ND*	0.7	1.0		µg/L	1	10/02/08 00:34	
Chloromethane	A	*ND*	0.3	2.0		µg/L	1	10/02/08 00:34	
Dibromochloromethane	A	*ND*	0.6	1.0		µg/L	1	10/02/08 00:34	
1,1-Dichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34	
1,2-Dichloroethane	A	*ND*	0.4	1.0		µg/L	1	10/02/08 00:34	
1,1-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 00:34	
cis-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 00:34	
trans-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 00:34	
1,2-Dichloropropane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34	
trans-1,3-Dichloropropene	A	*ND*	0.6	1.0		µg/L	1	10/02/08 00:34	
cis-1,3-Dichloropropene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34	
Ethylbenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 00:34	
2-Hexanone	A	*ND*	1.1	2.0	UJ	µg/L	1	10/02/08 00:34	
4-Methyl-2-Pentanone	A	*ND*	0.8	1.0		µg/L	1	10/02/08 00:34	
Methylene chloride	A	*ND*	0.7	2.0		µg/L	1	10/02/08 00:34	
Styrene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 00:34	

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-02
Collection Date: 09/29/08 10:00
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
1,1,2,2-Tetrachloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 00:34
Tetrachloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 00:34
Toluene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34
1,1,1-Trichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34
1,1,2-Trichloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 00:34
Trichloroethene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34
Vinyl chloride	A	*ND*	0.4	2.0		µg/L	1	10/02/08 00:34
Total Xylenes	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34
1,2,4-Trichlorobenzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 00:34
1,2-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 00:34
1,3-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 00:34
1,4-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 00:34
Surr: 4-Bromofluorobenzene	S	102	0	75.2-115		%REC	1	10/02/08 00:34
Surr: Dibromofluoromethane	S	101	0	92.7-119		%REC	1	10/02/08 00:34
Surr: 1,2-Dichloroethane-d4	S	117	0	88.2-132		%REC	1	10/02/08 00:34
Surr: Toluene-d8	S	107	0	89.3-116		%REC	1	10/02/08 00:34
TOTAL CYANIDE	Method: **SW-9012B**			Prep Date/Time: **10/03/08 09:55**				Analyst: **RPL**
Cyanide, Total	A	*ND*	5	5.0		µg/L	1	10/03/08 15:35

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
4,4´-DDD	A	ND	0.037	1.1		µg/L	1	10/03/08 19:24	
4,4´-DDE	A	ND	0.017	1.1		µg/L	1	10/03/08 19:24	
4,4´-DDT	A	ND	0.017	1.1		µg/L	1	10/03/08 19:24	
Aldrin	A	ND	0.017	0.054		µg/L	1	10/03/08 19:24	
Alpha-BHC	A	ND	0.012	0.054		µg/L	1	10/03/08 19:24	
alpha-Chlordane	A	ND	11	11		µg/L	1	10/06/08 13:08	
Beta-BHC	A	ND	0.0011	0.22		µg/L	1	10/03/08 19:24	
delta-BHC	A	0.16	0.017	1.1	Jb	µg/L	1	10/03/08 19:24	1.1 UB
Dieldrin	A	ND	0.012	0.054		µg/L	1	10/03/08 19:24	
Endosulfan I	A	ND	0.015	1.1		µg/L	1	10/03/08 19:24	
Endosulfan II	A	ND	0.015	1.1		µg/L	1	10/03/08 19:24	
Endosulfan Sulfate	A	ND	0.017	1.1		µg/L	1	10/03/08 19:24	
Endrin	A	ND	0.015	1.1		µg/L	1	10/03/08 19:24	
Endrin Aldehyde	A	0.022	0.0011	1.1	Jb	µg/L	1	10/03/08 19:24	1.1 UB
Endrin Ketone	A	ND	0.03	1.1		µg/L	1	10/03/08 19:24	
Gamma-BHC	A	ND	0.012	0.11		µg/L	1	10/03/08 19:24	
gamma-Chlordane	A	ND	11	11		µg/L	1	10/06/08 13:08	
Heptachlor	A	ND	0.015	0.22		µg/L	1	10/03/08 19:24	
Heptachlor Epoxide	A	ND	0.017	0.11		µg/L	1	10/03/08 19:24	
Methoxychlor	A	ND	0.2	1.1		µg/L	1	10/03/08 19:24	
Toxaphene	A	ND	0.71	2.2		µg/L	1	10/03/08 19:24	
Aroclor 1016	A	ND	0.12	0.54		µg/L	1	10/03/08 19:24	
Aroclor 1221	A	ND	0.54	0.54		µg/L	1	10/03/08 19:24	
Aroclor 1232	A	ND	0.54	0.54		µg/L	1	10/03/08 19:24	
Aroclor 1242	A	ND	0.11	0.54		µg/L	1	10/03/08 19:24	
Aroclor 1248	A	ND	0.15	0.54		µg/L	1	10/03/08 19:24	
Aroclor 1254	A	ND	0.18	0.54		µg/L	1	10/03/08 19:24	
Aroclor 1260	A	ND	0.12	0.54		µg/L	1	10/03/08 19:24	
Surr: Tetrachloro-m-xylene	S	95.0	0	45.2-114		%REC	1	10/03/08 19:24	
Surr: Decachlorobiphenyl	S	75.0	0	11.6-136		%REC	1	10/03/08 19:24	

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Aluminum	A	5.9	4.3	200	J	µg/L	5	10/03/08 12:00	
Antimony	A	0.043	0.038	6.0	J	µg/L	5	10/03/08 12:00	UB
Arsenic	A	ND	0.31	10		µg/L	5	10/03/08 12:00	
Barium	A	120	0.058	2.0		µg/L	5	10/03/08 12:00	B
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 12:00	
Cadmium	A	0.025	0.0044	2.0	J	µg/L	5	10/03/08 12:00	UB

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
TOTAL METALS	Method:	**SW6020A**			Prep Date/Time: **10/01/08 07:20**		Analyst: **SAA**		
Calcium	A	*77000*	18	500	b	µg/L	5	10/03/08 12:00	B
Chromium	A	*2.8*	0.83	4.0	J	µg/L	5	10/03/08 12:00	UB
Cobalt	A	*0.2*	0.0019	3.0	J	µg/L	5	10/03/08 12:00	
Copper	A	*12*	0.088	10		µg/L	5	10/03/08 12:00	
Iron	A	*2600*	21	50		µg/L	5	10/03/08 12:00	
Lead	A	*1.1*	0.12	7.5	J	µg/L	5	10/03/08 12:00	
Magnesium	A	*38000*	1.7	500		µg/L	5	10/03/08 12:00	B
Manganese	A	*58*	0.074	2.0		µg/L	5	10/03/08 12:00	B J
Nickel	A	*ND*	0.031	10		µg/L	5	10/03/08 12:00	
Potassium	A	*1600*	4	500		µg/L	5	10/03/08 12:00	
Selenium	A	*ND*	0.043	5.0		µg/L	5	10/03/08 12:00	
Silver	A	*ND*	0.0025	10		µg/L	5	10/03/08 12:00	
Sodium	A	*22000*	4.5	500		µg/L	5	10/03/08 12:00	B
Thallium	A	*0.75*	0.0065	2.0	J	µg/L	5	10/03/08 12:00	UB
Vanadium	A	*ND*	1.1	8.0		µg/L	5	10/03/08 12:00	
Zinc	A	*14*	3.8	20	J	µg/L	5	10/03/08 12:00	
TOTAL METALS	Method:	**SW7470A**			Prep Date/Time: **10/06/08 08:05**		Analyst: **SAA**		
Mercury	A	*ND*	0.03	0.20		µg/L	1	10/06/08 10:54	
SEMIVOLATILE ORGANICS	Method:	**SW8270C**			Prep Date/Time: **10/03/08 07:36**		Analyst: **BEM**		
4-Bromophenyl phenyl ether	A	*ND*	0.98	11		µg/L	1	10/04/08 01:52	
Bis(2-ethylhexyl)phthalate	A	*ND*	1.2	11		µg/L	1	10/04/08 01:52	
Acenaphthene	A	*ND*	0.87	11		µg/L	1	10/04/08 01:52	
Acenaphthylene	A	*ND*	0.76	11		µg/L	1	10/04/08 01:52	
Anthracene	A	*ND*	0.98	11		µg/L	1	10/04/08 01:52	
Benzo[a]anthracene	A	*ND*	0.87	11		µg/L	1	10/04/08 01:52	
Benzo[a]pyrene	A	*ND*	0.98	11		µg/L	1	10/04/08 01:52	
Benzo[b]fluoranthene	A	*ND*	1.7	11		µg/L	1	10/04/08 01:52	
Benzo[g,h,i]perylene	A	*ND*	1.1	11		µg/L	1	10/04/08 01:52	
Benzo[k]fluoranthene	A	*ND*	2.4	11		µg/L	1	10/04/08 01:52	
Bis(2-chloroethoxy)methane	A	*ND*	1.1	11		µg/L	1	10/04/08 01:52	
Bis(2-chloroethyl)ether	A	*ND*	0.98	11		µg/L	1	10/04/08 01:52	
2,2´-oxybis(1-chloropropane)	A	*ND*	0.98	11		µg/L	1	10/04/08 01:52	
Butyl benzyl phthalate	A	*ND*	1.1	11		µg/L	1	10/04/08 01:52	
Carbazole	A	*ND*	1.3	11		µg/L	1	10/04/08 01:52	
4-Chloro-3-methylphenol	A	*ND*	1.3	22		µg/L	1	10/04/08 01:52	
4-Chloroaniline	A	*ND*	1.1	22		µg/L	1	10/04/08 01:52	

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	ND	0.98	11		µg/L	1	10/04/08 01:52
2-Chlorophenol	A	ND	0.76	11		µg/L	1	10/04/08 01:52
4-Chlorophenyl phenyl ether	A	ND	0.98	11		µg/L	1	10/04/08 01:52
Chrysene	A	ND	1.1	11		µg/L	1	10/04/08 01:52
Dibenz[a,h]anthracene	A	ND	0.98	11		µg/L	1	10/04/08 01:52
Dibenzofuran	A	ND	0.87	11		µg/L	1	10/04/08 01:52
3,3´-Dichlorobenzidine	A	ND	0.76	54		µg/L	1	10/04/08 01:52
2,4-Dichlorophenol	A	ND	0.76	11		µg/L	1	10/04/08 01:52
Diethyl phthalate	A	ND	1.2	11		µg/L	1	10/04/08 01:52
Dimethyl phthalate	A	ND	0.98	11		µg/L	1	10/04/08 01:52
2,4-Dimethylphenol	A	ND	0.87	11		µg/L	1	10/04/08 01:52
Di-n-butyl phthalate	A	23	1.3	11		µg/L	1	10/04/08 01:52
Di-n-octyl phthalate	A	ND	1.2	11		µg/L	1	10/04/08 01:52
4,6-Dinitro-2-methylphenol	A	ND	1.2	54		µg/L	1	10/04/08 01:52
2,4-Dinitrophenol	A	ND	10	54		µg/L	1	10/04/08 01:52
2,4-Dinitrotoluene	A	ND	0.87	11		µg/L	1	10/04/08 01:52
2,6-Dinitrotoluene	A	ND	1.2	11		µg/L	1	10/04/08 01:52
Fluoranthene	A	ND	1.1	11		µg/L	1	10/04/08 01:52
Fluorene	A	ND	1.1	11		µg/L	1	10/04/08 01:52
Hexachlorobenzene	A	ND	0.98	11		µg/L	1	10/04/08 01:52
Hexachlorobutadiene	A	ND	0.98	11		µg/L	1	10/04/08 01:52
Hexachlorocyclopentadiene	A	ND	0.65	11		µg/L	1	10/04/08 01:52
Hexachloroethane	A	ND	0.98	11		µg/L	1	10/04/08 01:52
Indeno[1,2,3cd]pyrene	A	ND	1.1	11		µg/L	1	10/04/08 01:52
Isophorone	A	ND	1.1	11		µg/L	1	10/04/08 01:52
2-Methylnaphthalene	A	ND	0.98	11		µg/L	1	10/04/08 01:52
2-Methylphenol	A	ND	0.76	11		µg/L	1	10/04/08 01:52
3/4-Methylphenol	A	ND	0.87	11		µg/L	1	10/04/08 01:52
2-Nitroaniline	A	ND	1.1	54		µg/L	1	10/04/08 01:52
3-Nitroaniline	A	ND	1.4	54		µg/L	1	10/04/08 01:52
4-Nitroaniline	A	ND	1.8	54		µg/L	1	10/04/08 01:52
2-Nitrophenol	A	ND	1.1	11		µg/L	1	10/04/08 01:52
4-Nitrophenol	A	ND	4.7	54		µg/L	1	10/04/08 01:52
N-Nitrosodi-n-propylamine	A	ND	1.1	11		µg/L	1	10/04/08 01:52
N-Nitrosodiphenylamine	A	ND	0.76	11		µg/L	1	10/04/08 01:52
Naphthalene	A	ND	0.76	11		µg/L	1	10/04/08 01:52
Nitrobenzene	A	ND	1.1	11		µg/L	1	10/04/08 01:52
Pentachlorophenol	A	ND	1.4	54		µg/L	1	10/04/08 01:52
Phenanthrene	A	ND	0.87	11		µg/L	1	10/04/08 01:52

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	ND	0.43	11		µg/L	1	10/04/08 01:52
Pyrene	A	ND	0.98	11		µg/L	1	10/04/08 01:52
2,4,5-Trichlorophenol	A	ND	1.6	11		µg/L	1	10/04/08 01:52
2,4,6-Trichlorophenol	A	ND	0.98	11		µg/L	1	10/04/08 01:52
Surr: Nitrobenzene-d5	S	57.5	0	10-121		%REC	1	10/04/08 01:52
Surr: 2-Fluorobiphenyl	S	55.8	0	10-109		%REC	1	10/04/08 01:52
Surr: Terphenyl-d14	S	58.2	0	10-130		%REC	1	10/04/08 01:52
Surr: Phenol-d5	S	23.4	0	10-100		%REC	1	10/04/08 01:52
Surr: 2-Fluorophenol	S	34.9	0	10-84.7		%REC	1	10/04/08 01:52
Surr: 2,4,6-Tribromophenol	S	62.1	0	10-120		%REC	1	10/04/08 01:52

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	2.5	2	5.0	J	µg/L	1	10/02/08 01:05	5.0UBJ
Benzene	A	ND	0.3	1.0		µg/L	1	10/02/08 01:05	
Bromodichloromethane	A	ND	0.5	1.0		µg/L	1	10/02/08 01:05	
Bromoform	A	ND	0.4	1.0		µg/L	1	10/02/08 01:05	
Bromomethane	A	ND	0.6	2.0		µg/L	1	10/02/08 01:05	
2-Butanone	A	ND	1.5	2.0		µg/L	1	10/02/08 01:05	UJ
Carbon Disulfide	A	ND	0.4	2.0		µg/L	1	10/02/08 01:05	
Carbon tetrachloride	A	ND	0.3	1.0		µg/L	1	10/02/08 01:05	
Chlorobenzene	A	ND	0.2	1.0		µg/L	1	10/02/08 01:05	
Chloroethane	A	ND	0.8	2.0		µg/L	1	10/02/08 01:05	
Chloroform	A	ND	0.7	1.0		µg/L	1	10/02/08 01:05	
Chloromethane	A	ND	0.3	2.0		µg/L	1	10/02/08 01:05	
Dibromochloromethane	A	ND	0.6	1.0		µg/L	1	10/02/08 01:05	
1,1-Dichloroethane	A	ND	0.3	1.0		µg/L	1	10/02/08 01:05	
1,2-Dichloroethane	A	ND	0.4	1.0		µg/L	1	10/02/08 01:05	
1,1-Dichloroethene	A	ND	0.4	1.0		µg/L	1	10/02/08 01:05	
cis-1,2-Dichloroethene	A	ND	0.4	1.0		µg/L	1	10/02/08 01:05	
trans-1,2-Dichloroethene	A	ND	0.4	1.0		µg/L	1	10/02/08 01:05	
1,2-Dichloropropane	A	ND	0.3	1.0		µg/L	1	10/02/08 01:05	
trans-1,3-Dichloropropene	A	ND	0.6	1.0		µg/L	1	10/02/08 01:05	
cis-1,3-Dichloropropene	A	ND	0.3	1.0		µg/L	1	10/02/08 01:05	
Ethylbenzene	A	ND	0.2	1.0		µg/L	1	10/02/08 01:05	
2-Hexanone	A	ND	1.1	2.0		µg/L	1	10/02/08 01:05	UJ
4-Methyl-2-Pentanone	A	ND	0.8	1.0		µg/L	1	10/02/08 01:05	
Methylene chloride	A	ND	0.7	2.0		µg/L	1	10/02/08 01:05	
Styrene	A	ND	0.2	1.0		µg/L	1	10/02/08 01:05	

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-03
Collection Date: 09/29/08 10:25
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
1,1,2,2-Tetrachloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 01:05
Tetrachloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:05
Toluene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:05
1,1,1-Trichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:05
1,1,2-Trichloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 01:05
Trichloroethene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:05
Vinyl chloride	A	*ND*	0.4	2.0		µg/L	1	10/02/08 01:05
Total Xylenes	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:05
1,2,4-Trichlorobenzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:05
1,2-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:05
1,3-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:05
1,4-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:05
Surr: 4-Bromofluorobenzene	S	98.4	0	75.2-115		%REC	1	10/02/08 01:05
Surr: Dibromofluoromethane	S	100	0	92.7-119		%REC	1	10/02/08 01:05
Surr: 1,2-Dichloroethane-d4	S	119	0	88.2-132		%REC	1	10/02/08 01:05
Surr: Toluene-d8	S	106	0	89.3-116		%REC	1	10/02/08 01:05
TOTAL CYANIDE	Method: **SW-9012B**			Prep Date/Time: **10/03/08 09:55**				Analyst: **RPL**
Cyanide, Total	A	*ND*	5	5.0		µg/L	1	10/03/08 15:36

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
4,4´-DDD	A	ND	0.037	1.1		µg/L	1	10/03/08 19:48	
4,4´-DDE	A	ND	0.017	1.1		µg/L	1	10/03/08 19:48	
4,4´-DDT	A	ND	0.017	1.1		µg/L	1	10/03/08 19:48	
Aldrin	A	ND	0.017	0.054		µg/L	1	10/03/08 19:48	
Alpha-BHC	A	ND	0.012	0.054		µg/L	1	10/03/08 19:48	
alpha-Chlordane	A	ND	11	11		µg/L	1	10/06/08 13:32	
Beta-BHC	A	ND	0.0011	0.22		µg/L	1	10/03/08 19:48	
delta-BHC	A	*0.16*	0.017	1.1	Jb	µg/L	1	10/03/08 19:48	1.1 UB
Dieldrin	A	ND	0.012	0.054		µg/L	1	10/03/08 19:48	
Endosulfan I	A	ND	0.015	1.1		µg/L	1	10/03/08 19:48	
Endosulfan II	A	ND	0.015	1.1		µg/L	1	10/03/08 19:48	
Endosulfan Sulfate	A	ND	0.017	1.1		µg/L	1	10/03/08 19:48	
Endrin	A	ND	0.015	1.1		µg/L	1	10/03/08 19:48	
Endrin Aldehyde	A	ND	0.0011	1.1		µg/L	1	10/03/08 19:48	
Endrin Ketone	A	ND	0.03	1.1		µg/L	1	10/03/08 19:48	
Gamma-BHC	A	ND	0.012	0.11		µg/L	1	10/03/08 19:48	
gamma-Chlordane	A	ND	11	11		µg/L	1	10/06/08 13:32	
Heptachlor	A	ND	0.015	0.22		µg/L	1	10/03/08 19:48	
Heptachlor Epoxide	A	ND	0.017	0.11		µg/L	1	10/03/08 19:48	
Methoxychlor	A	ND	0.2	1.1		µg/L	1	10/03/08 19:48	
Toxaphene	A	ND	0.71	2.2		µg/L	1	10/03/08 19:48	
Aroclor 1016	A	ND	0.12	0.54		µg/L	1	10/03/08 19:48	
Aroclor 1221	A	ND	0.54	0.54		µg/L	1	10/03/08 19:48	
Aroclor 1232	A	ND	0.54	0.54		µg/L	1	10/03/08 19:48	
Aroclor 1242	A	ND	0.11	0.54		µg/L	1	10/03/08 19:48	
Aroclor 1248	A	ND	0.15	0.54		µg/L	1	10/03/08 19:48	
Aroclor 1254	A	ND	0.18	0.54		µg/L	1	10/03/08 19:48	
Aroclor 1260	A	ND	0.12	0.54		µg/L	1	10/03/08 19:48	
Surr: Tetrachloro-m-xylene	S	100	0	45.2-114		%REC	1	10/03/08 19:48	
Surr: Decachlorobiphenyl	S	75.0	0	11.6-136		%REC	1	10/03/08 19:48	

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Aluminum	A	ND	4.3	200		µg/L	5	10/03/08 12:06	
Antimony	A	ND	0.038	6.0		µg/L	5	10/03/08 12:06	
Arsenic	A	ND	0.31	10		µg/L	5	10/03/08 12:06	
Barium	A	*140*	0.058	2.0		µg/L	5	10/03/08 12:06	B
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 12:06	
Cadmium	A	*0.058*	0.0044	2.0	J	µg/L	5	10/03/08 12:06	UB

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Calcium	A	***81000***	18	500	b	µg/L	5	10/03/08 12:06	B
Chromium	A	***3.1***	0.83	4.0	J	µg/L	5	10/03/08 12:06	UB
Cobalt	A	***0.21***	0.0019	3.0	J	µg/L	5	10/03/08 12:06	
Copper	A	***1.7***	0.088	10	J	µg/L	5	10/03/08 12:06	
Iron	A	***2400***	21	50		µg/L	5	10/03/08 12:06	
Lead	A	***ND***	0.12	7.5		µg/L	5	10/03/08 12:06	
Magnesium	A	***46000***	1.7	500		µg/L	5	10/03/08 12:06	B
Manganese	A	***34***	0.074	2.0		µg/L	5	10/03/08 12:06	BJ
Nickel	A	***ND***	0.031	10		µg/L	5	10/03/08 12:06	
Potassium	A	***2100***	4	500		µg/L	5	10/03/08 12:06	
Selenium	A	***ND***	0.043	5.0		µg/L	5	10/03/08 12:06	
Silver	A	***ND***	0.0025	10		µg/L	5	10/03/08 12:06	
Sodium	A	***15000***	4.5	500		µg/L	5	10/03/08 12:06	B
Thallium	A	***0.36***	0.0065	2.0	J	µg/L	5	10/03/08 12:06	UB
Vanadium	A	***2.7***	1.1	8.0	J	µg/L	5	10/03/08 12:06	
Zinc	A	***12***	3.8	20	J	µg/L	5	10/03/08 12:06	

TOTAL METALS Method: **SW7470A** Prep Date/Time: **10/06/08 08:05** Analyst: **SAA**

Mercury	A	***ND***	0.03	0.20		µg/L	1	10/06/08 10:56

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

4-Bromophenyl phenyl ether	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Bis(2-ethylhexyl)phthalate	A	***ND***	1.2	11		µg/L	1	10/04/08 02:18
Acenaphthene	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
Acenaphthylene	A	***ND***	0.74	11		µg/L	1	10/04/08 02:18
Anthracene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Benzo[a]anthracene	A	***ND***	0.85	11		µg/L	1	10/04/08 02:18
Benzo[a]pyrene	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Benzo[b]fluoranthene	A	***ND***	1.7	11		µg/L	1	10/04/08 02:18
Benzo[g,h,i]perylene	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Benzo[k]fluoranthene	A	***ND***	2.3	11		µg/L	1	10/04/08 02:18
Bis(2-chloroethoxy)methane	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Bis(2-chloroethyl)ether	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
2,2´-oxybis(1-chloropropane)	A	***ND***	0.96	11		µg/L	1	10/04/08 02:18
Butyl benzyl phthalate	A	***ND***	1.1	11		µg/L	1	10/04/08 02:18
Carbazole	A	***ND***	1.3	11		µg/L	1	10/04/08 02:18
4-Chloro-3-methylphenol	A	***ND***	1.3	21		µg/L	1	10/04/08 02:18
4-Chloroaniline	A	***ND***	1.1	21		µg/L	1	10/04/08 02:18

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	ND	0.96	11		µg/L	1	10/04/08 02:18
2-Chlorophenol	A	ND	0.74	11		µg/L	1	10/04/08 02:18
4-Chlorophenyl phenyl ether	A	ND	0.96	11		µg/L	1	10/04/08 02:18
Chrysene	A	ND	1.1	11		µg/L	1	10/04/08 02:18
Dibenz[a,h]anthracene	A	ND	0.96	11		µg/L	1	10/04/08 02:18
Dibenzofuran	A	ND	0.85	11		µg/L	1	10/04/08 02:18
3,3´-Dichlorobenzidine	A	ND	0.74	53		µg/L	1	10/04/08 02:18
2,4-Dichlorophenol	A	ND	0.74	11		µg/L	1	10/04/08 02:18
Diethyl phthalate	A	ND	1.2	11		µg/L	1	10/04/08 02:18
Dimethyl phthalate	A	ND	0.96	11		µg/L	1	10/04/08 02:18
2,4-Dimethylphenol	A	ND	0.85	11		µg/L	1	10/04/08 02:18
Di-n-butyl phthalate	A	ND	1.3	11		µg/L	1	10/04/08 02:18
Di-n-octyl phthalate	A	ND	1.2	11		µg/L	1	10/04/08 02:18
4,6-Dinitro-2-methylphenol	A	ND	1.2	53		µg/L	1	10/04/08 02:18
2,4-Dinitrophenol	A	ND	10	53		µg/L	1	10/04/08 02:18
2,4-Dinitrotoluene	A	ND	0.85	11		µg/L	1	10/04/08 02:18
2,6-Dinitrotoluene	A	ND	1.2	11		µg/L	1	10/04/08 02:18
Fluoranthene	A	ND	1.1	11		µg/L	1	10/04/08 02:18
Fluorene	A	ND	1.1	11		µg/L	1	10/04/08 02:18
Hexachlorobenzene	A	ND	0.96	11		µg/L	1	10/04/08 02:18
Hexachlorobutadiene	A	ND	0.96	11		µg/L	1	10/04/08 02:18
Hexachlorocyclopentadiene	A	ND	0.64	11		µg/L	1	10/04/08 02:18
Hexachloroethane	A	ND	0.96	11		µg/L	1	10/04/08 02:18
Indeno[1,2,3cd]pyrene	A	ND	1.1	11		µg/L	1	10/04/08 02:18
Isophorone	A	ND	1.1	11		µg/L	1	10/04/08 02:18
2-Methylnaphthalene	A	ND	0.96	11		µg/L	1	10/04/08 02:18
2-Methylphenol	A	ND	0.74	11		µg/L	1	10/04/08 02:18
3/4-Methylphenol	A	ND	0.85	11		µg/L	1	10/04/08 02:18
2-Nitroaniline	A	ND	1.1	53		µg/L	1	10/04/08 02:18
3-Nitroaniline	A	ND	1.4	53		µg/L	1	10/04/08 02:18
4-Nitroaniline	A	ND	1.8	53		µg/L	1	10/04/08 02:18
2-Nitrophenol	A	ND	1.1	11		µg/L	1	10/04/08 02:18
4-Nitrophenol	A	ND	4.6	53		µg/L	1	10/04/08 02:18
N-Nitrosodi-n-propylamine	A	ND	1.1	11		µg/L	1	10/04/08 02:18
N-Nitrosodiphenylamine	A	ND	0.74	11		µg/L	1	10/04/08 02:18
Naphthalene	A	ND	0.74	11		µg/L	1	10/04/08 02:18
Nitrobenzene	A	ND	1.1	11		µg/L	1	10/04/08 02:18
Pentachlorophenol	A	ND	1.4	53		µg/L	1	10/04/08 02:18
Phenanthrene	A	ND	0.85	11		µg/L	1	10/04/08 02:18

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	*4*	0.43	11	J	µg/L	1	10/04/08 02:18
Pyrene	A	*ND*	0.96	11		µg/L	1	10/04/08 02:18
2,4,5-Trichlorophenol	A	*ND*	1.6	11		µg/L	1	10/04/08 02:18
2,4,6-Trichlorophenol	A	*ND*	0.96	11		µg/L	1	10/04/08 02:18
Surr: Nitrobenzene-d5	S	50.4	0	10-121		%REC	1	10/04/08 02:18
Surr: 2-Fluorobiphenyl	S	54.0	0	10-109		%REC	1	10/04/08 02:18
Surr: Terphenyl-d14	S	56.9	0	10-130		%REC	1	10/04/08 02:18
Surr: Phenol-d5	S	20.2	0	10-100		%REC	1	10/04/08 02:18
Surr: 2-Fluorophenol	S	30.0	0	10-84.7		%REC	1	10/04/08 02:18
Surr: 2,4,6-Tribromophenol	S	59.5	0	10-120		%REC	1	10/04/08 02:18

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	*4*	2	5.0	J	µg/L	1	10/02/08 01:36	5.0UBJ
Benzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36	
Bromodichloromethane	A	*ND*	0.5	1.0		µg/L	1	10/02/08 01:36	
Bromoform	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36	
Bromomethane	A	*ND*	0.6	2.0		µg/L	1	10/02/08 01:36	
2-Butanone	A	*ND*	1.5	2.0		µg/L	1	10/02/08 01:36	UJ
Carbon Disulfide	A	*ND*	0.4	2.0		µg/L	1	10/02/08 01:36	
Carbon tetrachloride	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36	
Chlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36	
Chloroethane	A	*ND*	0.8	2.0		µg/L	1	10/02/08 01:36	
Chloroform	A	*ND*	0.7	1.0		µg/L	1	10/02/08 01:36	
Chloromethane	A	*ND*	0.3	2.0		µg/L	1	10/02/08 01:36	
Dibromochloromethane	A	*ND*	0.6	1.0		µg/L	1	10/02/08 01:36	
1,1-Dichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36	
1,2-Dichloroethane	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36	
1,1-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36	
cis-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36	
trans-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36	
1,2-Dichloropropane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36	
trans-1,3-Dichloropropene	A	*ND*	0.6	1.0		µg/L	1	10/02/08 01:36	
cis-1,3-Dichloropropene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36	
Ethylbenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36	
2-Hexanone	A	*ND*	1.1	2.0		µg/L	1	10/02/08 01:36	UJ
4-Methyl-2-Pentanone	A	*ND*	0.8	1.0		µg/L	1	10/02/08 01:36	
Methylene chloride	A	*ND*	0.7	2.0		µg/L	1	10/02/08 01:36	
Styrene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36	

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-04
Collection Date: 09/29/08 11:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
1,1,2,2-Tetrachloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 01:36
Tetrachloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 01:36
Toluene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
1,1,1-Trichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
1,1,2-Trichloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 01:36
Trichloroethene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
Vinyl chloride	A	*ND*	0.4	2.0		µg/L	1	10/02/08 01:36
Total Xylenes	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
1,2,4-Trichlorobenzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 01:36
1,2-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36
1,3-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36
1,4-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 01:36
Surr: 4-Bromofluorobenzene	S	102	0	75.2-115		%REC	1	10/02/08 01:36
Surr: Dibromofluoromethane	S	98.5	0	92.7-119		%REC	1	10/02/08 01:36
Surr: 1,2-Dichloroethane-d4	S	119	0	88.2-132		%REC	1	10/02/08 01:36
Surr: Toluene-d8	S	109	0	89.3-116		%REC	1	10/02/08 01:36
TOTAL CYANIDE	Method:	**SW-9012B**		Prep Date/Time:	**10/03/08 09:55**		Analyst:	**RPL**
Cyanide, Total	A	*ND*	5	5.0		µg/L	1	10/03/08 15:40

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
4,4´-DDD	A	ND	0.035	1.0		µg/L	1	10/03/08 20:12
4,4´-DDE	A	ND	0.016	1.0		µg/L	1	10/03/08 20:12
4,4´-DDT	A	ND	0.016	1.0		µg/L	1	10/03/08 20:12
Aldrin	A	ND	0.016	0.051		µg/L	1	10/03/08 20:12
Alpha-BHC	A	ND	0.011	0.051		µg/L	1	10/03/08 20:12
alpha-Chlordane	A	ND	10	10		µg/L	1	10/06/08 13:56
Beta-BHC	A	ND	0.001	0.20		µg/L	1	10/03/08 20:12
delta-BHC	A	0.14	0.016	1.0	Jb	µg/L	1	10/03/08 20:12 1.0uB
Dieldrin	A	ND	0.011	0.051		µg/L	1	10/03/08 20:12
Endosulfan I	A	ND	0.014	1.0		µg/L	1	10/03/08 20:12
Endosulfan II	A	ND	0.014	1.0		µg/L	1	10/03/08 20:12
Endosulfan Sulfate	A	ND	0.016	1.0		µg/L	1	10/03/08 20:12
Endrin	A	ND	0.014	1.0		µg/L	1	10/03/08 20:12
Endrin Aldehyde	A	ND	0.001	1.0		µg/L	1	10/03/08 20:12
Endrin Ketone	A	ND	0.029	1.0		µg/L	1	10/03/08 20:12
Gamma-BHC	A	ND	0.011	0.10		µg/L	1	10/03/08 20:12
gamma-Chlordane	A	ND	10	10		µg/L	1	10/06/08 13:56
Heptachlor	A	ND	0.014	0.20		µg/L	1	10/03/08 20:12
Heptachlor Epoxide	A	ND	0.016	0.10		µg/L	1	10/03/08 20:12
Methoxychlor	A	ND	0.19	1.0		µg/L	1	10/03/08 20:12
Toxaphene	A	ND	0.67	2.0		µg/L	1	10/03/08 20:12
Aroclor 1016	A	ND	0.11	0.51		µg/L	1	10/03/08 20:12
Aroclor 1221	A	ND	0.51	0.51		µg/L	1	10/03/08 20:12
Aroclor 1232	A	ND	0.51	0.51		µg/L	1	10/03/08 20:12
Aroclor 1242	A	ND	0.1	0.51		µg/L	1	10/03/08 20:12
Aroclor 1248	A	ND	0.14	0.51		µg/L	1	10/03/08 20:12
Aroclor 1254	A	ND	0.17	0.51		µg/L	1	10/03/08 20:12
Aroclor 1260	A	ND	0.11	0.51		µg/L	1	10/03/08 20:12
Surr: Tetrachloro-m-xylene	S	100	0	45.2-114		%REC	1	10/03/08 20:12
Surr: Decachlorobiphenyl	S	90.0	0	11.6-136		%REC	1	10/03/08 20:12

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Aluminum	A	ND	4.3	200		µg/L	5	10/03/08 12:12
Antimony	A	ND	0.038	6.0		µg/L	5	10/03/08 12:12
Arsenic	A	1	0.31	10	J	µg/L	5	10/03/08 12:12 uB
Barium	A	140	0.058	2.0		µg/L	5	10/03/08 12:12 B
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 12:12
Cadmium	A	0.01	0.0044	2.0	J	µg/L	5	10/03/08 12:12 uB

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
Calcium	A	86000	18	500	b	µg/L	5	10/03/08 12:12	B
Chromium	A	2.6	0.83	4.0	J	µg/L	5	10/03/08 12:12	UB
Cobalt	A	0.23	0.0019	3.0	J	µg/L	5	10/03/08 12:12	
Copper	A	0.19	0.088	10	J	µg/L	5	10/03/08 12:12	
Iron	A	2400	21	50		µg/L	5	10/03/08 12:12	
Lead	A	ND	0.12	7.5		µg/L	5	10/03/08 12:12	
Magnesium	A	48000	1.7	500		µg/L	5	10/03/08 12:12	B
Manganese	A	36	0.074	2.0		µg/L	5	10/03/08 12:12	BJ
Nickel	A	ND	0.031	10		µg/L	5	10/03/08 12:12	
Potassium	A	2400	4	500		µg/L	5	10/03/08 12:12	
Selenium	A	ND	0.043	5.0		µg/L	5	10/03/08 12:12	
Silver	A	ND	0.0025	10		µg/L	5	10/03/08 12:12	
Sodium	A	18000	4.5	500		µg/L	5	10/03/08 12:12	B
Thallium	A	0.18	0.0065	2.0	J	µg/L	5	10/03/08 12:12	UB
Vanadium	A	2.2	1.1	8.0	J	µg/L	5	10/03/08 12:12	
Zinc	A	11	3.8	20	J	µg/L	5	10/03/08 12:12	

TOTAL METALS Method: **SW7470A** Prep Date/Time: **10/06/08 08:05** Analyst: **SAA**

Mercury	A	ND	0.03	0.20		µg/L	1	10/06/08 10:57

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

4-Bromophenyl phenyl ether	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Bis(2-ethylhexyl)phthalate	A	ND	1.1	10		µg/L	1	10/04/08 02:43
Acenaphthene	A	ND	0.82	10		µg/L	1	10/04/08 02:43
Acenaphthylene	A	ND	0.72	10		µg/L	1	10/04/08 02:43
Anthracene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Benzo[a]anthracene	A	ND	0.82	10		µg/L	1	10/04/08 02:43
Benzo[a]pyrene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Benzo[b]fluoranthene	A	ND	1.6	10		µg/L	1	10/04/08 02:43
Benzo[g,h,i]perylene	A	ND	1	10		µg/L	1	10/04/08 02:43
Benzo[k]fluoranthene	A	ND	2.3	10		µg/L	1	10/04/08 02:43
Bis(2-chloroethoxy)methane	A	ND	1	10		µg/L	1	10/04/08 02:43
Bis(2-chloroethyl)ether	A	ND	0.93	10		µg/L	1	10/04/08 02:43
2,2´-oxybis(1-chloropropane)	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Butyl benzyl phthalate	A	ND	1	10		µg/L	1	10/04/08 02:43
Carbazole	A	ND	1.2	10		µg/L	1	10/04/08 02:43
4-Chloro-3-methylphenol	A	ND	1.2	21		µg/L	1	10/04/08 02:43
4-Chloroaniline	A	ND	1	21		µg/L	1	10/04/08 02:43

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
2-Chlorophenol	A	ND	0.72	10		µg/L	1	10/04/08 02:43
4-Chlorophenyl phenyl ether	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Chrysene	A	ND	1	10		µg/L	1	10/04/08 02:43
Dibenz[a,h]anthracene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Dibenzofuran	A	ND	0.82	10		µg/L	1	10/04/08 02:43
3,3´-Dichlorobenzidine	A	ND	0.72	52		µg/L	1	10/04/08 02:43
2,4-Dichlorophenol	A	ND	0.72	10		µg/L	1	10/04/08 02:43
Diethyl phthalate	A	ND	1.1	10		µg/L	1	10/04/08 02:43
Dimethyl phthalate	A	ND	0.93	10		µg/L	1	10/04/08 02:43
2,4-Dimethylphenol	A	ND	0.82	10		µg/L	1	10/04/08 02:43
Di-n-butyl phthalate	A	ND	1.2	10		µg/L	1	10/04/08 02:43
Di-n-octyl phthalate	A	ND	1.1	10		µg/L	1	10/04/08 02:43
4,6-Dinitro-2-methylphenol	A	ND	1.1	52		µg/L	1	10/04/08 02:43
2,4-Dinitrophenol	A	ND	9.7	52		µg/L	1	10/04/08 02:43
2,4-Dinitrotoluene	A	ND	0.82	10		µg/L	1	10/04/08 02:43
2,6-Dinitrotoluene	A	ND	1.1	10		µg/L	1	10/04/08 02:43
Fluoranthene	A	ND	1	10		µg/L	1	10/04/08 02:43
Fluorene	A	ND	1	10		µg/L	1	10/04/08 02:43
Hexachlorobenzene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Hexachlorobutadiene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Hexachlorocyclopentadiene	A	ND	0.62	10		µg/L	1	10/04/08 02:43
Hexachloroethane	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Indeno[1,2,3cd]pyrene	A	ND	1	10		µg/L	1	10/04/08 02:43
Isophorone	A	ND	1	10		µg/L	1	10/04/08 02:43
2-Methylnaphthalene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
2-Methylphenol	A	ND	0.72	10		µg/L	1	10/04/08 02:43
3/4-Methylphenol	A	ND	0.82	10		µg/L	1	10/04/08 02:43
2-Nitroaniline	A	ND	1	52		µg/L	1	10/04/08 02:43
3-Nitroaniline	A	ND	1.3	52		µg/L	1	10/04/08 02:43
4-Nitroaniline	A	ND	1.8	52		µg/L	1	10/04/08 02:43
2-Nitrophenol	A	ND	1	10		µg/L	1	10/04/08 02:43
4-Nitrophenol	A	ND	4.4	52		µg/L	1	10/04/08 02:43
N-Nitrosodi-n-propylamine	A	ND	1	10		µg/L	1	10/04/08 02:43
N-Nitrosodiphenylamine	A	ND	0.72	10		µg/L	1	10/04/08 02:43
Naphthalene	A	ND	0.72	10		µg/L	1	10/04/08 02:43
Nitrobenzene	A	ND	1	10		µg/L	1	10/04/08 02:43
Pentachlorophenol	A	ND	1.3	52		µg/L	1	10/04/08 02:43
Phenanthrene	A	ND	0.82	10		µg/L	1	10/04/08 02:43

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	ND	0.41	10		µg/L	1	10/04/08 02:43
Pyrene	A	ND	0.93	10		µg/L	1	10/04/08 02:43
2,4,5-Trichlorophenol	A	ND	1.5	10		µg/L	1	10/04/08 02:43
2,4,6-Trichlorophenol	A	ND	0.93	10		µg/L	1	10/04/08 02:43
Surr: Nitrobenzene-d5	S	50.0	0	10-121		%REC	1	10/04/08 02:43
Surr: 2-Fluorobiphenyl	S	57.2	0	10-109		%REC	1	10/04/08 02:43
Surr: Terphenyl-d14	S	56.2	0	10-130		%REC	1	10/04/08 02:43
Surr: Phenol-d5	S	22.0	0	10-100		%REC	1	10/04/08 02:43
Surr: 2-Fluorophenol	S	32.8	0	10-84.7		%REC	1	10/04/08 02:43
Surr: 2,4,6-Tribromophenol	S	57.4	0	10-120		%REC	1	10/04/08 02:43

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	ND	2	5.0		µg/L	1	10/01/08 23:01	UJ
Benzene	A	ND	0.3	1.0		µg/L	1	10/01/08 23:01	
Bromodichloromethane	A	ND	0.5	1.0		µg/L	1	10/01/08 23:01	
Bromoform	A	ND	0.4	1.0		µg/L	1	10/01/08 23:01	
Bromomethane	A	ND	0.6	2.0		µg/L	1	10/01/08 23:01	
2-Butanone	A	ND	1.5	2.0		µg/L	1	10/01/08 23:01	UJ
Carbon Disulfide	A	ND	0.4	2.0		µg/L	1	10/01/08 23:01	
Carbon tetrachloride	A	ND	0.3	1.0		µg/L	1	10/01/08 23:01	
Chlorobenzene	A	ND	0.2	1.0		µg/L	1	10/01/08 23:01	
Chloroethane	A	ND	0.8	2.0		µg/L	1	10/01/08 23:01	
Chloroform	A	ND	0.7	1.0		µg/L	1	10/01/08 23:01	
Chloromethane	A	ND	0.3	2.0		µg/L	1	10/01/08 23:01	R
Dibromochloromethane	A	ND	0.6	1.0		µg/L	1	10/01/08 23:01	
1,1-Dichloroethane	A	ND	0.3	1.0		µg/L	1	10/01/08 23:01	
1,2-Dichloroethane	A	ND	0.4	1.0		µg/L	1	10/01/08 23:01	
1,1-Dichloroethene	A	ND	0.4	1.0		µg/L	1	10/01/08 23:01	
cis-1,2-Dichloroethene	A	ND	0.4	1.0		µg/L	1	10/01/08 23:01	
trans-1,2-Dichloroethene	A	ND	0.4	1.0		µg/L	1	10/01/08 23:01	
1,2-Dichloropropane	A	ND	0.3	1.0		µg/L	1	10/01/08 23:01	
trans-1,3-Dichloropropene	A	ND	0.6	1.0		µg/L	1	10/01/08 23:01	
cis-1,3-Dichloropropene	A	ND	0.3	1.0		µg/L	1	10/01/08 23:01	
Ethylbenzene	A	ND	0.2	1.0		µg/L	1	10/01/08 23:01	
2-Hexanone	A	ND	1.1	2.0		µg/L	1	10/01/08 23:01	UJ
4-Methyl-2-Pentanone	A	ND	0.8	1.0		µg/L	1	10/01/08 23:01	
Methylene chloride	A	ND	0.7	2.0		µg/L	1	10/01/08 23:01	
Styrene	A	ND	0.2	1.0		µg/L	1	10/01/08 23:01	

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWT-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-05
Collection Date: 09/29/08 12:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method:	**SW8260B**		Prep Date/Time:			Analyst:	**MLT**
1,1,2,2-Tetrachloroethane	A	*ND*	0.7	1.0		µg/L	1	10/01/08 23:01
Tetrachloroethene	A	*ND*	0.4	1.0		µg/L	1	10/01/08 23:01
Toluene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 23:01
1,1,1-Trichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/01/08 23:01
1,1,2-Trichloroethane	A	*ND*	0.7	1.0		µg/L	1	10/01/08 23:01
Trichloroethene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 23:01
Vinyl chloride	A	*ND*	0.4	2.0		µg/L	1	10/01/08 23:01 R
Total Xylenes	A	*ND*	0.3	1.0		µg/L	1	10/01/08 23:01
1,2,4-Trichlorobenzene	A	*ND*	0.3	1.0		µg/L	1	10/01/08 23:01
1,2-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 23:01
1,3-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 23:01
1,4-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/01/08 23:01
Surr: 4-Bromofluorobenzene	S	103	0	75.2-115		%REC	1	10/01/08 23:01
Surr: Dibromofluoromethane	S	102	0	92.7-119		%REC	1	10/01/08 23:01
Surr: 1,2-Dichloroethane-d4	S	120	0	88.2-132		%REC	1	10/01/08 23:01
Surr: Toluene-d8	S	106	0	89.3-116		%REC	1	10/01/08 23:01

TOTAL CYANIDE	Method:	**SW-9012B**		Prep Date/Time: **10/03/08 09:55**			Analyst:	**RPL**
Cyanide, Total	A	*ND*	5	5.0		µg/L	1	10/03/08 15:47

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

PESTICIDES/PCBS Method: **SW8081A/8082** Prep Date/Time: **10/03/08 13:30** Analyst: **JLW**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
4,4´-DDD	A	ND	0.035	1.0		µg/L	1	10/03/08 22:13	
4,4´-DDE	A	ND	0.017	1.0		µg/L	1	10/03/08 22:13	
4,4´-DDT	A	ND	0.017	1.0		µg/L	1	10/03/08 22:13	
Aldrin	A	ND	0.017	0.052		µg/L	1	10/03/08 22:13	
Alpha-BHC	A	ND	0.011	0.052		µg/L	1	10/03/08 22:13	
alpha-Chlordane	A	ND	10	10		µg/L	1	10/06/08 14:20	
Beta-BHC	A	ND	0.001	0.21		µg/L	1	10/03/08 22:13	
delta-BHC	A	0.15	0.017	1.0	Jb	µg/L	1	10/03/08 22:13	1.0uB
Dieldrin	A	ND	0.011	0.052		µg/L	1	10/03/08 22:13	
Endosulfan I	A	ND	0.015	1.0		µg/L	1	10/03/08 22:13	
Endosulfan II	A	ND	0.015	1.0		µg/L	1	10/03/08 22:13	
Endosulfan Sulfate	A	ND	0.017	1.0		µg/L	1	10/03/08 22:13	
Endrin	A	ND	0.015	1.0		µg/L	1	10/03/08 22:13	
Endrin Aldehyde	A	0.01	0.001	1.0	Jb	µg/L	1	10/03/08 22:13	1.0uB
Endrin Ketone	A	ND	0.029	1.0		µg/L	1	10/03/08 22:13	
Gamma-BHC	A	ND	0.011	0.10		µg/L	1	10/03/08 22:13	
gamma-Chlordane	A	ND	10	10		µg/L	1	10/06/08 14:20	
Heptachlor	A	ND	0.015	0.21		µg/L	1	10/03/08 22:13	
Heptachlor Epoxide	A	ND	0.017	0.10		µg/L	1	10/03/08 22:13	
Methoxychlor	A	ND	0.2	1.0		µg/L	1	10/03/08 22:13	
Toxaphene	A	ND	0.69	2.1		µg/L	1	10/03/08 22:13	
Aroclor 1016	A	ND	0.11	0.52		µg/L	1	10/03/08 22:13	
Aroclor 1221	A	ND	0.52	0.52		µg/L	1	10/03/08 22:13	
Aroclor 1232	A	ND	0.52	0.52		µg/L	1	10/03/08 22:13	
Aroclor 1242	A	ND	0.1	0.52		µg/L	1	10/03/08 22:13	
Aroclor 1248	A	ND	0.15	0.52		µg/L	1	10/03/08 22:13	
Aroclor 1254	A	ND	0.18	0.52		µg/L	1	10/03/08 22:13	
Aroclor 1260	A	ND	0.11	0.52		µg/L	1	10/03/08 22:13	
Surr: Tetrachloro-m-xylene	S	95.0	0	45.2-114		%REC	1	10/03/08 22:13	
Surr: Decachlorobiphenyl	S	95.0	0	11.6-136		%REC	1	10/03/08 22:13	

TOTAL METALS Method: **SW6020A** Prep Date/Time: **10/01/08 07:20** Analyst: **SAA**

Aluminum	A	ND	4.3	200		µg/L	5	10/03/08 12:30	
Antimony	A	0.15	0.038	6.0	J	µg/L	5	10/03/08 12:30	uB
Arsenic	A	1.2	0.31	10	J	µg/L	5	10/03/08 12:30	uB
Barium	A	130	0.058	2.0		µg/L	5	10/03/08 12:30	B
Beryllium	A	ND	0.96	1.0		µg/L	5	10/03/08 12:30	
Cadmium	A	0.0067	0.0044	2.0	J	µg/L	5	10/03/08 12:30	uB

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed	
TOTAL METALS	Method:	**SW6020A**			Prep Date/Time: **10/01/08 07:20**		Analyst: **SAA**		
Calcium	A	***88000***	18	500	b	µg/L	5	10/03/08 12:30	B
Chromium	A	***4.4***	0.83	4.0		µg/L	5	10/03/08 12:30	UB
Cobalt	A	***0.22***	0.0019	3.0	J	µg/L	5	10/03/08 12:30	
Copper	A	***1.7***	0.088	10	J	µg/L	5	10/03/08 12:30	
Iron	A	***2400***	21	50		µg/L	5	10/03/08 12:30	
Lead	A	***0.29***	0.12	7.5	J	µg/L	5	10/03/08 12:30	
Magnesium	A	***43000***	1.7	500		µg/L	5	10/03/08 12:30	B
Manganese	A	***33***	0.074	2.0		µg/L	5	10/03/08 12:30	JB
Nickel	A	***ND***	0.031	10		µg/L	5	10/03/08 12:30	
Potassium	A	***2200***	4	500		µg/L	5	10/03/08 12:30	
Selenium	A	***ND***	0.043	5.0		µg/L	5	10/03/08 12:30	
Silver	A	***ND***	0.0025	10		µg/L	5	10/03/08 12:30	
Sodium	A	***21000***	4.5	500		µg/L	5	10/03/08 12:30	B
Thallium	A	***3.4***	0.0065	2.0		µg/L	5	10/03/08 12:30	B
Vanadium	A	***ND***	1.1	8.0		µg/L	5	10/03/08 12:30	
Zinc	A	***25***	3.8	20		µg/L	5	10/03/08 12:30	
TOTAL METALS	Method:	**SW7470A**			Prep Date/Time: **10/06/08 08:05**		Analyst: **SAA**		
Mercury	A	***ND***	0.03	0.20		µg/L	1	10/06/08 11:01	
SEMIVOLATILE ORGANICS	Method:	**SW8270C**			Prep Date/Time: **10/03/08 07:36**		Analyst: **BEM**		
4-Bromophenyl phenyl ether	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00	
Bis(2-ethylhexyl)phthalate	A	***ND***	1.1	10		µg/L	1	10/04/08 04:00	
Acenaphthene	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00	
Acenaphthylene	A	***ND***	0.71	10		µg/L	1	10/04/08 04:00	
Anthracene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00	
Benzo[a]anthracene	A	***ND***	0.81	10		µg/L	1	10/04/08 04:00	
Benzo[a]pyrene	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00	
Benzo[b]fluoranthene	A	***ND***	1.6	10		µg/L	1	10/04/08 04:00	
Benzo[g,h,i]perylene	A	***ND***	1	10		µg/L	1	10/04/08 04:00	
Benzo[k]fluoranthene	A	***ND***	2.2	10		µg/L	1	10/04/08 04:00	
Bis(2-chloroethoxy)methane	A	***ND***	1	10		µg/L	1	10/04/08 04:00	
Bis(2-chloroethyl)ether	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00	
2,2´-oxybis(1-chloropropane)	A	***ND***	0.91	10		µg/L	1	10/04/08 04:00	
Butyl benzyl phthalate	A	***ND***	1	10		µg/L	1	10/04/08 04:00	
Carbazole	A	***ND***	1.2	10		µg/L	1	10/04/08 04:00	
4-Chloro-3-methylphenol	A	***ND***	1.2	20		µg/L	1	10/04/08 04:00	
4-Chloroaniline	A	***ND***	1	20		µg/L	1	10/04/08 04:00	

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
2-Chloronaphthalene	A	ND	0.91	10		µg/L	1	10/04/08 04:00
2-Chlorophenol	A	ND	0.71	10		µg/L	1	10/04/08 04:00
4-Chlorophenyl phenyl ether	A	ND	0.91	10		µg/L	1	10/04/08 04:00
Chrysene	A	ND	1	10		µg/L	1	10/04/08 04:00
Dibenz[a,h]anthracene	A	ND	0.91	10		µg/L	1	10/04/08 04:00
Dibenzofuran	A	ND	0.81	10		µg/L	1	10/04/08 04:00
3,3´-Dichlorobenzidine	A	ND	0.71	51		µg/L	1	10/04/08 04:00
2,4-Dichlorophenol	A	ND	0.71	10		µg/L	1	10/04/08 04:00
Diethyl phthalate	A	ND	1.1	10		µg/L	1	10/04/08 04:00
Dimethyl phthalate	A	ND	0.91	10		µg/L	1	10/04/08 04:00
2,4-Dimethylphenol	A	ND	0.81	10		µg/L	1	10/04/08 04:00
Di-n-butyl phthalate	A	ND	1.2	10		µg/L	1	10/04/08 04:00
Di-n-octyl phthalate	A	ND	1.1	10		µg/L	1	10/04/08 04:00
4,6-Dinitro-2-methylphenol	A	ND	1.1	51		µg/L	1	10/04/08 04:00
2,4-Dinitrophenol	A	ND	9.5	51		µg/L	1	10/04/08 04:00
2,4-Dinitrotoluene	A	ND	0.81	10		µg/L	1	10/04/08 04:00
2,6-Dinitrotoluene	A	ND	1.1	10		µg/L	1	10/04/08 04:00
Fluoranthene	A	ND	1	10		µg/L	1	10/04/08 04:00
Fluorene	A	ND	1	10		µg/L	1	10/04/08 04:00
Hexachlorobenzene	A	ND	0.91	10		µg/L	1	10/04/08 04:00
Hexachlorobutadiene	A	ND	0.91	10		µg/L	1	10/04/08 04:00
Hexachlorocyclopentadiene	A	ND	0.61	10		µg/L	1	10/04/08 04:00
Hexachloroethane	A	ND	0.91	10		µg/L	1	10/04/08 04:00
Indeno[1,2,3cd]pyrene	A	ND	1	10		µg/L	1	10/04/08 04:00
Isophorone	A	ND	1	10		µg/L	1	10/04/08 04:00
2-Methylnaphthalene	A	ND	0.91	10		µg/L	1	10/04/08 04:00
2-Methylphenol	A	ND	0.71	10		µg/L	1	10/04/08 04:00
3/4-Methylphenol	A	ND	0.81	10		µg/L	1	10/04/08 04:00
2-Nitroaniline	A	ND	1	51		µg/L	1	10/04/08 04:00
3-Nitroaniline	A	ND	1.3	51		µg/L	1	10/04/08 04:00
4-Nitroaniline	A	ND	1.7	51		µg/L	1	10/04/08 04:00
2-Nitrophenol	A	ND	1	10		µg/L	1	10/04/08 04:00
4-Nitrophenol	A	ND	4.3	51		µg/L	1	10/04/08 04:00
N-Nitrosodi-n-propylamine	A	ND	1	10		µg/L	1	10/04/08 04:00
N-Nitrosodiphenylamine	A	ND	0.71	10		µg/L	1	10/04/08 04:00
Naphthalene	A	ND	0.71	10		µg/L	1	10/04/08 04:00
Nitrobenzene	A	ND	1	10		µg/L	1	10/04/08 04:00
Pentachlorophenol	A	ND	1.3	51		µg/L	1	10/04/08 04:00
Phenanthrene	A	ND	0.81	10		µg/L	1	10/04/08 04:00

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/03/08 07:36** Analyst: **BEM**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenol	A	*2.6*	0.4	10	J	µg/L	1	10/04/08 04:00
Pyrene	A	*1.3*	0.91	10	J	µg/L	1	10/04/08 04:00
2,4,5-Trichlorophenol	A	*ND*	1.5	10		µg/L	1	10/04/08 04:00
2,4,6-Trichlorophenol	A	*ND*	0.91	10		µg/L	1	10/04/08 04:00
Surr: Nitrobenzene-d5	S	53.0	0	10-121		%REC	1	10/04/08 04:00
Surr: 2-Fluorobiphenyl	S	59.2	0	10-109		%REC	1	10/04/08 04:00
Surr: Terphenyl-d14	S	53.5	0	10-130		%REC	1	10/04/08 04:00
Surr: Phenol-d5	S	22.0	0	10-100		%REC	1	10/04/08 04:00
Surr: 2-Fluorophenol	S	32.9	0	10-84.7		%REC	1	10/04/08 04:00
Surr: 2,4,6-Tribromophenol	S	61.4	0	10-120		%REC	1	10/04/08 04:00

VOC'S Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	*ND*	2	5.0		µg/L	1	10/02/08 02:07
Benzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
Bromodichloromethane	A	*ND*	0.5	1.0		µg/L	1	10/02/08 02:07
Bromoform	A	*ND*	0.4	1.0		µg/L	1	10/02/08 02:07
Bromomethane	A	*ND*	0.6	2.0		µg/L	1	10/02/08 02:07
2-Butanone	A	*ND*	1.5	2.0		µg/L	1	10/02/08 02:07
Carbon Disulfide	A	*ND*	0.4	2.0		µg/L	1	10/02/08 02:07
Carbon tetrachloride	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
Chlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 02:07
Chloroethane	A	*ND*	0.8	2.0		µg/L	1	10/02/08 02:07
Chloroform	A	*ND*	0.7	1.0		µg/L	1	10/02/08 02:07
Chloromethane	A	*ND*	0.3	2.0		µg/L	1	10/02/08 02:07
Dibromochloromethane	A	*ND*	0.6	1.0		µg/L	1	10/02/08 02:07
1,1-Dichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
1,2-Dichloroethane	A	*ND*	0.4	1.0		µg/L	1	10/02/08 02:07
1,1-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 02:07
cis-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 02:07
trans-1,2-Dichloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 02:07
1,2-Dichloropropane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
trans-1,3-Dichloropropene	A	*ND*	0.6	1.0		µg/L	1	10/02/08 02:07
cis-1,3-Dichloropropene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
Ethylbenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 02:07
2-Hexanone	A	*ND*	1.1	2.0		µg/L	1	10/02/08 02:07
4-Methyl-2-Pentanone	A	*ND*	0.8	1.0		µg/L	1	10/02/08 02:07
Methylene chloride	A	*ND*	0.7	2.0		µg/L	1	10/02/08 02:07
Styrene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 02:07

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ANALYTICAL RESULTS

Date: *Tuesday, October 07, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0809C97-06
Collection Date: 09/29/08 13:30
Date Received: 09/30/08 10:25

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
VOC'S	Method: **SW8260B**			Prep Date/Time:				Analyst: **MLT**
1,1,2,2-Tetrachloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 02:07
Tetrachloroethene	A	*ND*	0.4	1.0		µg/L	1	10/02/08 02:07
Toluene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
1,1,1-Trichloroethane	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
1,1,2-Trichloroethane	A	*ND*	0.7	1.0		µg/L	1	10/02/08 02:07
Trichloroethene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
Vinyl chloride	A	*ND*	0.4	2.0		µg/L	1	10/02/08 02:07
Total Xylenes	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
1,2,4-Trichlorobenzene	A	*ND*	0.3	1.0		µg/L	1	10/02/08 02:07
1,2-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 02:07
1,3-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 02:07
1,4-Dichlorobenzene	A	*ND*	0.2	1.0		µg/L	1	10/02/08 02:07
Surr: 4-Bromofluorobenzene	S	103	0	75.2-115		%REC	1	10/02/08 02:07
Surr: Dibromofluoromethane	S	103	0	92.7-119		%REC	1	10/02/08 02:07
Surr: 1,2-Dichloroethane-d4	S	122	0	88.2-132		%REC	1	10/02/08 02:07
Surr: Toluene-d8	S	109	0	89.3-116		%REC	1	10/02/08 02:07
TOTAL CYANIDE	Method: **SW-9012B**			Prep Date/Time: **10/06/08 08:30**				Analyst: **RPL**
Cyanide, Total	A	*ND*	5	5.0		µg/L	1	10/06/08 15:46

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Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESDUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-02A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100131.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-03A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100132.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWC-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-04A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100133.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWT-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-05A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100128.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWD-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-06A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100134.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESDUP01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-02B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100316.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 9 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Alcohol	2.66	2.4	
	Unknown Alcohol	3.42	11.3	
	Substituted Furan	3.55	1.6	
	Unknown Alcohol	4.12	1.9	
	Unknown Alcohol	4.21	2.2	
	Unknown Alcohol	4.50	0.6	
	Unknown Acid	4.89	1.5	
	Unknown	5.40	0.6	
	Unknown Acid	9.32	0.7	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-03B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100317.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Amine	3.55	1.6	
	Unknown	6.39	4.9	
	Unknown	9.63	61.7	
	Unknown Phthalate	9.85	71.5	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWC-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-04B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100318.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 3 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituted Furan	3.55	2.2	
	Unknown	4.40	1.0	
	Unknown	5.52	0.5	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWT-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-05B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100319.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 4 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Amine	3.55	1.8	
	Unknown	4.40	1.7	
	Unknown	5.15	0.6	
	Unknown	9.16	1.6	

FORM I TIC

Form 1 TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWD-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-06B

Sample wt/vol: (g/mL) Lab File ID: D100308\D100322.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/4/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 (ml)

Number TICs found: 5 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Substituteed Furan	3.55	1.1	
	Unknown	3.86	0.7	
	Unknown acid	4.09	1.3	
	Unknown	9.17	1.9	
	Unknown	12.35	1.0	

FORM I TIC

Form 1 TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-RESTB01-32

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME0809C97

Matrix: (soil/water) water Lab Sample ID: ME0809C97-01A

Sample wt/vol: (g/mL) Lab File ID: E100108\E100127.D

Level: LOW Date Received: 9/30/2008

% Moisture: not dec. Date Analyzed: 10/1/2008

GC Column: Dilution Factor: 1.00

Extract Volume: (ul)

Number TICs found: 0 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
NO TICS FOUND				

FORM I TIC

ACS Residential
Data Validation Reports
LDC# 19750

ME0809C97

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Residential

Collection Date: September 29, 2008

LDC Report Date: November 13, 2008

Matrix: Water

Parameters: Volatiles

Validation Level: EPA Level III & IV

Laboratory: Microbac

Sample Delivery Group (SDG): ME0809C97

Sample Identification

ACS-GW-RESTB01-32
ACS-GW-RESDUP01-32
ACS-GW-PWB-32
ACS-GW-PWC-32**
ACS-GW-PWT-32
ACS-GW-PWD-32
ACS-GW-PWT-32MS
ACS-GW-PWT-32MSD

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 8 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/29/08	Acetone 2-Butanone	0.024 (≥0.05) 0.011 (≥0.05)	All samples in SDG ME0809C97	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/1/08 (E100102)	2-Hexanone	30.0	MBLK-W25-10/01	J (all detects) UJ (all non-detects)	A
10/1/08 (E100123)	2-Hexanone	27.1	ACS-GW-RESTB01-32 ACS-GW-RESDUP01-32 ACS-GW-PWB-32 ACS-GW-PWC-32** ACS-GW-PWT-32 ACS-GW-PWD-32 ACS-GW-PWT-32MS ACS-GW-PWT-32MSD	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values were within validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
10/1/08 (E100102)	2-Hexanone Acetone 2-Butanone	0.049 (≥0.05) 0.029 (≥0.05) 0.009 (≥0.05)	MBLK-W25-10/01	J (all detects) UJ (all non-detects)	A
10/1/08 (E100123)	Acetone 2-Butanone	0.027 (≥0.05) 0.010 (≥0.05)	ACS-GW-RESTB01-32 ACS-GW-RESDUP01-32 ACS-GW-PWB-32 ACS-GW-PWC-32** ACS-GW-PWT-32 ACS-GW-PWD-32 ACS-GW-PWT-32MS ACS-GW-PWT-32MSD	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
MBLK-W25-10/01	10/1/08	Methylene chloride	1.17 ug/L	All samples in SDG ME0809C97

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
ACS-GW-RESTB01-32	Methylene chloride	0.83 ug/L	2.0UB ug/L

Sample ACS-GW-RESTB01-32 was identified as a trip blank. No volatile contaminants were found in this blank with the following exceptions:

Trip Blank ID	Sampling Date	Compound	Concentration	Associated Samples
ACS-GW-RESTB01-32	9/29/08	Methylene chloride Acetone	0.83 ug/L 4.8 ug/L	ACS-GW-RESDUP01-32 ACS-GW-PWB-32 ACS-GW-PWC-32** ACS-GW-PWT-32 ACS-GW-PWD-32

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
ACS-GW-RESDUP01-32	Acetone	4.3 ug/L	5.0UB ug/L
ACS-GW-PWB-32	Acetone	2.5 ug/L	5.0UB ug/L
ACS-GW-PWC-32**	Acetone	4 ug/L	5.0UB ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
ACS-GW-PWT-32MS/MSD (ACS-GW-PWT-32)	Chloroform	125 (71.2-120)	-	-	J (all detects)	A
ACS-GW-PWT-32MS/MSD (ACS-GW-PWT-32)	Chloromethane Vinyl chloride	0 (10.8-155) 0 (33-151)	0 (10.8-155) 0 (33-151)	-	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIV. System Performance

The system performance was acceptable for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples ACS-GW-RESDUP01-32 and ACS-GW-PWC-32** were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACS-GW-RESDUP01-32	ACS-GW-PWC-32**	
Acetone	4.3	4	7

ACS Residential
Volatiles - Data Qualification Summary - SDG ME0809C97

SDG	Sample	Compound	Flag	A or P	Reason
ME0809C97	ACS-GW-RESTB01-32 ACS-GW-RESDUP01-32 ACS-GW-PWB-32 ACS-GW-PWC-32** ACS-GW-PWT-32 ACS-GW-PWD-32	Acetone 2-Butanone	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
ME0809C97	ACS-GW-RESTB01-32 ACS-GW-RESDUP01-32 ACS-GW-PWB-32 ACS-GW-PWC-32** ACS-GW-PWT-32 ACS-GW-PWD-32	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
ME0809C97	ACS-GW-RESTB01-32 ACS-GW-RESDUP01-32 ACS-GW-PWB-32 ACS-GW-PWC-32** ACS-GW-PWT-32 ACS-GW-PWD-32	Acetone 2-Butanone	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
ME0809C97	ACS-GW-PWT-32	Chloroform	J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)
ME0809C97	ACS-GW-PWT-32	Chloromethane Vinyl chloride	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)

ACS Residential
Volatiles - Laboratory Blank Data Qualification Summary - SDG ME0809C97

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
ME0809C97	ACS-GW-RESTB01-32	Methylene chloride	2.0UB ug/L	A

ACS Residential
Volatiles - Field Blank Data Qualification Summary - SDG ME0809C97

SDG	Sample	Compound	Modified Final Concentration	A or P
ME0809C97	ACS-GW-RESDUP01-32	Acetone	5.0UB ug/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
ME0809C97	ACS-GW-PWB-32	Acetone	5.0UB ug/L	A
ME0809C97	ACS-GW-PWC-32**	Acetone	5.0UB ug/L	A

LDC #: 19750B1
SDG #: ME0809C97
Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 11/10/08
Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/08
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	
IV.	Continuing calibration/ICV	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	Not reviewed for Level III validation.
XII.	Compound quantitation/CRQLs	A	Not reviewed for Level III validation.
XIII.	Tentitatively identified compounds (TICs)	A	Not reviewed for Level III validation.
XIV.	System performance	A	Not reviewed for Level III validation.
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 2, 4
XVII.	Field blanks	SW	TB = 1

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

1	ACS-GW-RESTB01-32 (Water)	11	MB1k-W25-10/01	21		31	
2	ACS-GW-RESDUP01-32 D	12		22		32	
3	ACS-GW-PWB-32	13		23		33	
4	ACS-GW-PWC-32** D	14		24		34	
5	ACS-GW-PWT-32	15		25		35	
6	ACS-GW-PWD-32	16		26		36	
7	ACS-GW-PWT-32MS	17		27		37	
8	ACS-GW-PWT-32MSD	18		28		38	
9		19		29		39	
10		20		30		40	

(Note: MB analyzed w/in 24 hr instead of 12 hr)

LDC #: 19750 B1
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: JVL
2nd Reviewer: R

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?		✓		
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) < 25% and relative response factors (RRF) > 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 19750 D1
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Reviewer: JVG
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	✓			
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	✓			
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XVII. Field blanks				
Field blanks were identified in this SDG.	✓	✓		
Target compounds were detected in the field blanks.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chorlde**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 19750 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Did the laboratory perform a 5 point calibration prior to sample analysis?
Y N N/A Were percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?_____
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Were all %RSDs and RRFs within the validation criteria of ≤30 %RSD and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %RSD (Limit: ≤30.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	9/29/08	ICAL	F		0.024	All + Blk	J/UJ/A
			M		0.611	↓	↓

INICAL.1S

LDC #: 19750 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	10/01/08	E100107	Z	30.0		MBLK	J/NJ/A
			Z		0.049		
			F		0.029		
			M		0.009		
	10/01/08	E100123	Z	27.1		All (-BLK)	
			F		0.027		
			M		0.010		

CONCAL.1SB

LDC #: 19750B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 10/01/08
Conc. units: ug/L
Associated Samples: All

Compound	Blank ID	Sample Identification								
	MBLK-W25-10/01	1								
Methylene chloride	1.17	0.83/2.0uB								
Acetone										
CRQL										

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 19750 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: S

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Y N /N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: All except 1 ~~(ND)~~

Compound	Blank ID 1	Blank ID	Sample Identification							
Sampling Date	5/29/08		2	3	4					
Methylene chloride	0.83									
Acetone	4.8		4.3 /5.0UB	2.5 /5.0UB	4 /5.0UB					
Chloroform										
CRQL										

Blank units: _____ **Associated sample units:** _____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other: _____ Associated Samples: _____

Compound	Blank ID	Blank ID	Sample Identification							
Sampling Date										
Methylene chloride										
Acetone										
Chloroform										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 19750 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		7/8	K	125 (71.2-120)	( )	( )	5	J detS /A
			A	0 (10.8-155)	0 (10.8-155)	( )	↓	J/R/A
			C	0 (33-151)	0 (33-151)	( )	↓	↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	< 22%	61-145%	< 14%
S.	Trichloroethene	62-137%	< 24%	71-120%	< 14%
V.	Benzene	66-142%	< 21%	76-127%	< 11%
CC.	Toluene	59-139%	< 21%	76-125%	< 13%
DD.	Chlorobenzene	60-133%	< 21%	75-130%	< 13%

LDC #: 19750 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: SVG
2nd reviewer: J

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	2	4	
F	4.3	4	7

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 19750 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (10 std)	Recalculated RRF (10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	9/29/08	C (1st internal standard)	0.245	0.245	0.236	0.236	12.40	12.38
			CC (2nd internal standard)	0.831	0.831	0.813	0.813	7.41	7.41
			BB (3rd internal standard)	0.451	0.451	0.449	0.449	8.50	8.47
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

40
C - 0.275
CC - 0.875
BB - 0.507

INICLC.1SB

LDC #: 14750 B1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: JVB

2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	E100162	10/01/08	C (1st internal standard)	0.236	0.242	0.242	2.5	2.7
			CC (2nd internal standard)	0.813	0.938	0.938	15.4	15.4
			BB (3rd internal standard)	0.449	0.373	0.373	16.9	16.9
2	E100123	10/01/08	C (1st internal standard)	0.236	0.258	0.258	9.3	9.4
			CC (2nd internal standard)	0.813	0.889	0.889	9.3	9.3
			BB (3rd internal standard)	0.449	0.381	0.381	15.1	15.2
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14750b1
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: SRC
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #4

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	10	10.94	109	109	0
Bromofluorobenzene	↓	10.20	102	102	↓
1,2-Dichloroethane-d4	↓	11.87	119	119	↓
Dibromofluoromethane	↓	9.85	98.5	98.5	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 19750 SV
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: JR
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSDC I * 2/(MSC + MSDC) MSC = Matrix spike percent recovery MSDC = Matrix spike duplicate percent recovery

MS/MSD sample: 7/8

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10.0	10.0	0	10.09	10.15	101	101	102	102	0.593	0.593
Trichloroethene				10.69	10.52	107	107	105	105	1.60	1.60
Benzene				9.78	9.48	97.8	97.8	94.8	94.8	3.12	3.12
Toluene				11.72	11.78	117	117	118	118	0.511	0.511
Chlorobenzene				11.09	10.91	111	111	109	109	1.64	1.64

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19750B2
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS-W25-10

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	10.0	NA	6.88	NA	68.8	68.8				
Trichloroethene			8.37		83.7	83.7				
Benzene			8.74		87.4	87.4				
Toluene			10.57		106	106				
Chlorobenzene			10.54		105	105				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LCSCLC.1SB

LDC #: 19750 B7
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
RRF	=	Relative response factor of the calibration standard.
V_o	=	Volume or weight of sample pruged in milliliters (ml) or grams (g).
Df	=	Dilution factor.
%S	=	Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #4 . F :

Conc. = $\frac{(15687)(10)(\quad)(\quad)}{(162534)(0.024)(\quad)(\quad)}$

= 4.022

≈ 4 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Residential

Collection Date: September 29, 2008

LDC Report Date: November 11, 2008

Matrix: Water

Parameters: Semivolatiles

Validation Level: EPA Level III & IV

Laboratory: Microbac

Sample Delivery Group (SDG): ME0809C97

Sample Identification

ACS-GW-RESDUP01-32
ACS-GW-PWB-32
ACS-GW-PWC-32**
ACS-GW-PWT-32
ACS-GW-PWD-32
ACS-GW-PWT-32MS
ACS-GW-PWT-32MSD

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all semivolatile target compounds and system performance check compounds (SPCCs) were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

All of the continuing calibration RRF values were greater than or equal to 0.05.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIV. System Performance

The system performance was acceptable for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples ACS-GW-RESDUP01-32 and ACS-GW-PWC-32** were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACS-GW-RESDUP01-32	ACS-GW-PWC-32**	
Phenol	39	4	163

ACS Residential
Semivolatiles - Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

ACS Residential
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

ACS Residential
Semivolatiles - Field Blank Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

LDC #: 19750B2
SDG #: ME0809C97
Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 11/20/08
Page: 1 of 1
Reviewer: SVC
2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/08
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	
IV.	Continuing calibration/ICV	A	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	Not reviewed for Level III validation.
XII.	Compound quantitation/CRQLs	A	Not reviewed for Level III validation.
XIII.	Tentitatively identified compounds (TICs)	A	Not reviewed for Level III validation.
XIV.	System performance	A	Not reviewed for Level III validation.
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1, 3
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

Water

+ 1	ACS-GW-RESDUP01-32	11	BK-2-100308	21		31	
+ 2	ACS-GW-PWB-32	12		22		32	
+ 3	ACS-GW-PWC-32**	13		23		33	
− 4	ACS-GW-PWT-32	14		24		34	
+ 5	ACS-GW-PWD-32	15		25		35	
6	ACS-GW-PWT-32MS	16		26		36	
7	ACS-GW-PWT-32MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 19750B7
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 7 of 8
Reviewer: JVL
2nd Reviewer: [illegible]

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?				
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?		✓		

LDC #: 19750 B2
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JR
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	✓		NA	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	✓		NA	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓	NA		
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XVII. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

Notes:* = System performance check compound (SPCC) for RRF; ** = Calibration check compound (CCC) for %RSD.

COMPNDL

LDC #: 19750 B7
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: SVB
2nd reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	1	3	
A	39	4	163

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 19750 B7

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1

Reviewer: JVG

2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (100 std)	Recalculated RRF (100 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	9/23/08	Phenol (1st internal standard)	1.457	1.461	1.486	1.486	4.20	4.20
			Naphthalene (2nd internal standard)	0.857	0.857	0.901	0.901	11.68	11.67
			Fluorene (3rd internal standard)	0.951	0.951	1.006	1.006	10.73	10.74
			Pentachlorophenol (4th internal standard)	0.204	0.204	0.185	0.185	9.53	9.46
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.250	1.250	1.247	1.247	5.53	5.84
			Benzo(a)pyrene (6th internal standard)	0.937	0.937	0.925	0.925	17.41	17.41
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

	100	120	160
A	1.461	1.457	1.399
S	0.857	0.846	0.788
NN	0.957	0.943	0.881
TT	0.204	0.1925	0.187
EEE	1.250	1.255	1.259
III	0.937	0.9136	0.866

INICLC.2S

LDC #: 19750 B2

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1

Reviewer: JVL

2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	D160307	10/03/98	Phenol (1st internal standard)	1.486	1.579	1.579	6.3	6.3
			Naphthalene (2nd internal standard)	0.901	0.885	0.885	1.8	1.8
			Fluorene (3rd internal standard)	1.006	1.035	1.035	2.9	2.9
			Pentachlorophenol (4th internal standard)	0.185	0.204	0.204	10.3	10.3
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.242	1.332	1.332	7.2	7.2
			Benzo(a)pyrene (6th internal standard)	0.925	0.953	0.953	3.0	3.0
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.2S

LDC #: 19750B Y
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: SVL
2nd reviewer: J

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 3

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	50.39	50.4	50.4	~~50.4~~ 0
2-Fluorobiphenyl	↓	54.03	54.0	54.0	↓
Terphenyl-d14	↓	56.90	56.9	56.9	↓
Phenol-d5	150	30.29	20.2	20.2	↓
2-Fluorophenol	↓	45.03	30.0	30.0	↓
2,4,6-Tribromophenol	↓	89.26	59.5	59.5	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 14750 B2
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified belo using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MS - MSD I * 2/(MS + MSD) MS = Matrix spike percent recovery MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 6/7

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	.....	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	204.1	200	0	96.47	82.28	44.3	44.3	41.1	41.1	9.48	9.48
N-Nitroso-di-n-propylamine				158.9	140.5	77.9	77.9	70.2	70.2	12.3	12.3
4-Chloro-3-methylphenol				157	148	74	74	74	74	2.05	2.01
Acenaphthene				137.7	131.8	67.5	67.5	65.9	65.9	4.33	4.38
Pentachlorophenol				152.3	144.9	74.6	74.6	72.4	72.4	5.01	4.98
Pyrene				150.7	139	73.8	73.8	69.5	69.5	8.07	8.08

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0 of the recalculated results.

LDC #: 19750 BV
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: JTC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA

Where: SSC = Spike concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 2-100708

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	100	NA	28.37	NA	28.3	28.3				
N-Nitroso-di-n-propylamine			78.86		78.9	78.9				
4-Chloro-3-methylphenol	~~100~~		71.53		71.5	71.5				
Acenaphthene			66.28		66.3	66.3				
Pentachlorophenol			77.29		77.3	77.3				
Pyrene			76.05		76	76				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14750 B Y
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #3 . A :

Conc. = (9450)(40)( )( )( )
(67330)(1.486)( )( )( )

= 3.78

≈ 4 ug/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

RECALC.2S

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Residential

Collection Date: September 29, 2008

LDC Report Date: November 12, 2008

Matrix: Water

Parameters: Chlorinated Pesticides & PCBs

Validation Level: EPA Level III & IV

Laboratory: Microbac

Sample Delivery Group (SDG): ME0809C97

Sample Identification

ACS-GW-RESDUP01-32
ACS-GW-PWB-32
ACS-GW-PWC-32**
ACS-GW-PWT-32
ACS-GW-PWD-32
ACS-GW-PWT-32MS
ACS-GW-PWT-32MSD

**Indicates sample underwent EPA Level IV review.

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A and 8082 for Chlorinated Pesticides and PCBs.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for selected compounds.

A curve fit, based on the initial calibration, was established for quantitation for selected compounds. The coefficient of determination (r^2) was greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples on which a Level III review was performed.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
10/4/08	B100323	ECD1	alpha-BHC gamma-BHC delta-BHC	26.0 20.9 22.6	MBLK-4-100308	J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples on which a Level III review was performed.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0%.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide or PCB contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BK-4-100308	10/3/08	delta-BHC Endrin aldehyde	0.15 ug/L 0.05 ug/L	All samples in SDG ME0809C97

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
ACS-GW-RESDUP01-32	delta-BHC Endrin aldehyde	0.18 ug/L 0.01 ug/L	1.0UB ug/L 1.0UB ug/L
ACS-GW-PWB-32	delta-BHC Endrin aldehyde	0.16 ug/L 0.022 ug/L	1.1UB ug/L 1.1UB ug/L
ACS-GW-PWC-32**	delta-BHC	0.16 ug/L	1.1UB ug/L
ACS-GW-PWT-32	delta-BHC	0.14 ug/L	1.0UB ug/L
ACS-GW-PWD-32	delta-BHC Endrin aldehyde	0.15 ug/L 0.01 ug/L	1.0UB ug/L 1.0UB ug/L

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

All target compound identifications were within validation criteria for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria for samples on which an EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples ACS-GW-RESDUP01-32 and ACS-GW-PWC-32** were identified as field duplicates. No chlorinated pesticides or PCBs were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD
	ACS-GW-RESDUP01-32	ACS-GW-PWC-32**	
delta-BHC	0.18	0.16	12

Compound	Concentration (ug/L)		RPD
	ACS-GW-RESDUP01-32	ACS-GW-PWC-32**	
Endrin aldehyde	0.01	1.1U	200

ACS Residential
Chlorinated Pesticides & PCBs - Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

ACS Residential
Chlorinated Pesticides & PCBs - Laboratory Blank Data Qualification Summary - SDG ME0809C97

SDG	Sample	Compound	Modified Final Concentration	A or P
ME0809C97	ACS-GW-RESDUP01-32	delta-BHC Endrin aldehyde	1.0UB ug/L 1.0UB ug/L	A
ME0809C97	ACS-GW-PWB-32	delta-BHC Endrin aldehyde	1.1UB ug/L 1.1UB ug/L	A
ME0809C97	ACS-GW-PWC-32**	delta-BHC	1.1UB ug/L	A
ME0809C97	ACS-GW-PWT-32	delta-BHC	1.0UB ug/L	A
ME0809C97	ACS-GW-PWD-32	delta-BHC Endrin aldehyde	1.0UB ug/L 1.0UB ug/L	A

ACS Residential
Chlorinated Pesticides & PCBs - Field Blank Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

LDC #: 19750B3
SDG #: ME0809C97
Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 11/10/08
Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC Chlorinated Pesticides & PCBs (EPA SW 846 Method 8081A/8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/08
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	% RSD r²
IV.	Continuing calibration/~~ICV~~	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	A	Not reviewed for Level III validation.
XII.	Compound quantitation and reported CRQLs	A	Not reviewed for Level III validation.
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 1, 3
XV.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

Water

1	ACS-GW-RESDUP01-32 D	11	BK-4-100308	21		31	
2	ACS-GW-PWB-32	12		22		32	
3	ACS-GW-PWC-32** D	13		23		33	
4	ACS-GW-PWT-32	14		24		34	
5	ACS-GW-PWD-32	15		25		35	
6	ACS-GW-PWT-32MS	16		26		36	
7	ACS-GW-PWT-32MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 19750 B3
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	✓			
Did the initial calibration meet the curve fit acceptance criteria?	✓			
Were the RT windows properly established?	✓			
Were the required standard concentrations analyzed in the initial calibration?	✓			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ____%D or ____%R	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?	✓			
Were endrin and 4,4'-DDT breakdowns ≤ 15%.0 for individual breakdown in the Evaluation mix standards?	✓			
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 15%.0 or percent recovieries 85-115%?		✓		
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Were extract cleanup blanks analyzed with every batch requiring clean-up?	✓			
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	

LDC #: 14750B3
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: JVL
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 19750B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)
Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

What type or calibration verification calculation was performed? ✓ %D or ___ RPD

Y N N/A Were Evaluation mix standards run before initial calibration and before samples?
Y N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (≤15.0% for individual breakdowns)?
Y N N/A Was at least one standard run daily to verify the working curve?
Y N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of ≤15.0%?

Level IV/D Only

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Column	Compound	%D (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
	10/04/08	B100323	ECD 1	A	26.0	( )	MBK	J/UJ/A
				D	20.9	( )	↓	↓
				C	22.6	( )	↓	↓
						( )		
						( )		
						( )		
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A. alpha-BHC
B. beta-BHC
C. delta-BHC
D. gamma-BHC
E. Heptachlor
F. Aldrin
G. Heptachlor epoxide
H. Endosulfan I
I. Dieldrin
J. 4,4'-DDE
K. Endrin
L. Endosulfan II
M. 4,4'-DDD
N. Endosulfan sulfate
O. 4,4'-DDT
P. Methoxychlor
Q. Endrin ketone
R. Endrin aldehyde
S. alpha-Chlordane
T. gamma-Chlordane
U. Toxaphene
V. Aroclor-1016
W. Aroclor-1221
X. Aroclor-1232
Y. Aroclor-1242
Z. Aroclor-1248
AA. Aroclor-1254
BB. Aroclor-1260
CC. DB 608
DD. DB 1701
EE.
FF.
GG.
HH.
II.
JJ.

LDC #: 19750 B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: SVG
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A If extract clean-up was performed, were extract clean-up blanks analyzed at the proper frequencies?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank extraction date: 10/3/08 **Blank analysis date:** 10/03/08 **Associated samples:** All
Conc. units: ng/L

Compound	Blank ID	Sample Identification								
	BK-4-100308	1	2	3	4	5				
C	0.15	0.18/1.0UB	0.16/1.1UB	0.16/1.1UB	0.14/1.0UB	0.15/1.0UB				
R	0.05	0.01/↓	0.022/↓			0.01/↓				

Blank extraction date: _____ **Blank analysis date:** _____ **Associated samples:** _____
Conc. units: _____

Compound	Blank ID	Sample Identification								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 14750B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: SVG
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW846 Method 8081/8082)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in thie field duplicate pairs?

Compound	Concentration (ug/L)		RPD
	1	3	
C	0.18	0.16	12
R	0.01	1.1 U	200

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 14750 B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (0.5 std)	Recalculated CF (0.5 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/25/08	H (ECD1)	2132930	2132930	2.063 e6	2.053 e6	2.13	2.13
			P ↓	1707005	1707005	1.793 e6	1.793 e6	5.52	5.52
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19750 B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC_____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	B100603	10/03/08	H (ECD 1)	2.083 e6	2.121 e6	2.121 e6	1.8	1.8
			P ↓	1.793 e6	1.837 e6	1.837 e6	2.5	2.5
2	B100323	10/04/08	H (ECD 1)	2.083 e6	2.272 e6	2.272 e6	9.1	9.1
			P ↓	1.793 e6	1.866 e6	1.866 e6	4.1	4.1
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 14750 B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 3

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	ECD 1	0.026	0.026	100	100	0
Tetrachloro-m-xylene	↓	↓				↓
Decachlorobiphenyl	↓	↓	0.015	75	75	↓
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes: _____

LDC #: 19750 B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Concentration

RPD = I MS - MSD I * 2/(MS + MSD)

MS = Matrix spike percent recovery; MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 6/7

Compound	Spike Added (µg/L)		Sample Concentration (µg/L)	Spiked Sample Concentration (µg/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
gamma-BHC	1.04	1.0	0	0.875	0.84	84	84	84	84	4.08	4.08
4,4'-DDT	↓	↓	↓	0.9167	0.94	88	88	94	94	[illegible]	2.5
1260	9.804	10.4	↓	9.79	10.96	99.9	99.9	105	105	11.7	11.7

Comments: Refer ot Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19750 B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: JVG
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Concentration

RPD = I LCS - LCSD I * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery; LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS-~~A~~/B - 106308

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma-BHC	0.5	NA	0.36	NA	72	72				
4,4'-DDT	↓	↓	0.43	↓	86	86				
1260	5	↓	5.16	↓	103	103				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 19750 B3
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: DG
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. A3 C:

Conc. (4784 = (2.78e6 X) − 3.59e4)

$$X = \frac{(4784 + 3.59e4)}{2.78e6}$$

$$= 0.0146$$

$$\text{final conc.} = \frac{(0.0146)(10\ ml)(1000)}{(930\ ml)}$$

$$= 0.157$$

$$\approx 0.16\ ug/L$$

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Note:

C:\WPDOCS\WRK\PEST\RECALC.3S

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Residential

Collection Date: September 29, 2008

LDC Report Date: November 11, 2008

Matrix: Water

Parameters: Metals

Validation Level: EPA Level III & IV

Laboratory: Microbac

Sample Delivery Group (SDG): ME0809C97

Sample Identification

ACS-GW-RESDUP01-32
ACS-GW-PWB-32
ACS-GW-PWC-32**
ACS-GW-PWT-32
ACS-GW-PWD-32
ACS-GW-PWT-32MS
ACS-GW-PWT-32MSD

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6020A and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, and Zinc.

This review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

All criteria for the initial calibration were met.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Antimony Arsenic Barium Cadmium Calcium Chromium Magnesium Manganese Sodium	0.1422 ug/L 0.325 ug/L 0.07475 ug/L 0.0128 ug/L 151.9 ug/L 3.856 ug/L 7.973 ug/L 0.2171 ug/L 6.922 ug/L	All samples in SDG ME0809C97
ICB/CCB	Antimony Cadmium Calcium Manganese Thallium	0.2154 ug/L 0.00521 ug/L 22.93 ug/L 0.07573 ug/L 0.07558 ug/L	All samples in SDG ME0809C97

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
ACS-GW-RESDUP01-32	Antimony	0.58 ug/L	0.58UB ug/L
	Arsenic	2.5 ug/L	2.5B ug/L
	Barium	130 ug/L	130B ug/L
	Cadmium	0.078 ug/L	0.078UB ug/L
	Calcium	83000 ug/L	83000B ug/L
	Chromium	3.7 ug/L	3.7UB ug/L
	Magnesium	48000 ug/L	48000B ug/L
	Manganese	34 ug/L	34B ug/L
	Sodium	16000 ug/L	16000B ug/L
	Thallium	3.3 ug/L	3.3B ug/L
ACS-GW-PWB-32	Antimony	0.043 ug/L	0.043UB ug/L
	Barium	120 ug/L	120B ug/L
	Cadmium	0.025 ug/L	0.025UB ug/L
	Calcium	77000 ug/L	77000B ug/L
	Chromium	2.8 ug/L	2.8UB ug/L
	Magnesium	38000 ug/L	38000B ug/L
	Manganese	58 ug/L	58B ug/L
	Sodium	22000 ug/L	22000B ug/L
	Thallium	0.75 ug/L	0.75UB ug/L
ACS-GW-PWC-32**	Barium	140 ug/L	140B ug/L
	Cadmium	0.058 ug/L	0.058UB ug/L
	Calcium	81000 ug/L	81000B ug/L
	Chromium	3.1 ug/L	3.1UB ug/L
	Magnesium	46000 ug/L	46000B ug/L
	Manganese	34 ug/L	34B ug/L
	Sodium	15000 ug/L	15000B ug/L
	Thallium	0.36 ug/L	0.36UB ug/L
ACS-GW-PWT-32	Arsenic	1 ug/L	1UB ug/L
	Barium	140 ug/L	140B ug/L
	Cadmium	0.01 ug/L	0.01UB ug/L
	Calcium	86000 ug/L	86000B ug/L
	Chromium	2.6 ug/L	2.6UB ug/L
	Magnesium	48000 ug/L	48000B ug/L
	Manganese	36 ug/L	36B ug/L
	Sodium	18000 ug/L	18000B ug/L
	Thallium	0.18 ug/L	0.18UB ug/L
ACS-GW-PWD-32	Antimony	0.15 ug/L	0.15UB ug/L
	Arsenic	1.2 ug/L	1.2UB ug/L
	Barium	130 ug/L	130B ug/L
	Cadmium	0.0067 ug/L	0.0067UB ug/L
	Calcium	88000 ug/L	88000B ug/L
	Chromium	4.4 ug/L	4.4UB ug/L
	Magnesium	43000 ug/L	43000B ug/L
	Manganese	33 ug/L	33B ug/L
	Sodium	21000 ug/L	21000B ug/L
	Thallium	3.4 ug/L	3.4B ug/L

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met with the following exceptions:

ICS ID	Analyte	%R (Limits)	Associated Samples	Flag	A or P
ICSAB	Manganese	125.4 (80-120)	All samples in SDG ME0809C97	J (all detects)	P

Samples were qualified as estimated (J) if the interferent concentrations in the samples were greater than ninety percent of the spiked interferent concentrations in the ICSAB.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

All sample result verifications were acceptable for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

XII. Overall Assessment of Data

Data flags have been summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples ACS-GW-RESDUP01-32 and ACS-GW-PWC-32** were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	ACS-GW-RESDUP01-32	ACS-GW-PWC-32**	
Antimony	0.58	6.0U	200
Arsenic	2.5	10U	200
Barium	130	140	7
Cadmium	0.078	0.058	29
Calcium	83000	81000	2
Chromium	3.7	3.1	18
Cobalt	0.25	0.21	17
Copper	6.4	1.7	116
Iron	2400	2400	0
Lead	0.59	7.5U	200
Magnesium	48000	46000	4
Manganese	34	34	0
Potassium	2200	2100	5
Silver	0.033	10U	200
Sodium	16000	15000	6
Thallium	3.3	0.36	161
Vanadium	8.0U	2.7	200
Zinc	11	12	9

ACS Residential
Metals - Data Qualification Summary - SDG ME0809C97

SDG	Sample	Analyte	Flag	A or P	Reason
ME0809C97	ACS-GW-RESDUP01-32 ACS-GW-PWB-32 ACS-GW-PWC-32** ACS-GW-PWT-32 ACS-GW-PWD-32	Manganese	J (all detects)	P	ICP interference check (%R)

ACS Residential
Metals - Laboratory Blank Data Qualification Summary - SDG ME0809C97

SDG	Sample	Analyte	Modified Final Concentration	A or P
ME0809C97	ACS-GW-RESDUP01-32	Antimony Arsenic Barium Cadmium Calcium Chromium Magnesium Manganese Sodium Thallium	0.58UB ug/L 2.5B ug/L 130B ug/L 0.078UB ug/L 83000B ug/L 3.7UB ug/L 48000B ug/L 34B ug/L 16000B ug/L 3.3B ug/L	A
ME0809C97	ACS-GW-PWB-32	Antimony Barium Cadmium Calcium Chromium Magnesium Manganese Sodium Thallium	0.043UB ug/L 120B ug/L 0.025UB ug/L 77000B ug/L 2.8UB ug/L 38000B ug/L 58B ug/L 22000B ug/L 0.75UB ug/L	A
ME0809C97	ACS-GW-PWC-32**	Barium Cadmium Calcium Chromium Magnesium Manganese Sodium Thallium	140B ug/L 0.058UB ug/L 81000B ug/L 3.1UB ug/L 46000B ug/L 34B ug/L 15000B ug/L 0.36UB ug/L	A
ME0809C97	ACS-GW-PWT-32	Arsenic Barium Cadmium Calcium Chromium Magnesium Manganese Sodium Thallium	1UB ug/L 140B ug/L 0.01UB ug/L 86000B ug/L 2.6UB ug/L 48000B ug/L 36B ug/L 18000B ug/L 0.18UB ug/L	A

SDG	Sample	Analyte	Modified Final Concentration	A or P
ME0809C97	ACS-GW-PWD-32	Antimony	0.15UB ug/L	A
		Arsenic	1.2UB ug/L	
		Barium	130B ug/L	
		Cadmium	0.0067UB ug/L	
		Calcium	88000B ug/L	
		Chromium	4.4UB ug/L	
		Magnesium	43000B ug/L	
		Manganese	33B ug/L	
		Sodium	21000B ug/L	
		Thallium	3.4B ug/L	

ACS Residential
Metals - Field Blank Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

LDC #: 19750B4

SDG #: ME0809C97

Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET

Level III/IV

Date: 11-11-08

Page: 1 of 1

Reviewer: MG

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method ~~6010B~~ 6020A/7000) gmf

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9-29-08
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	SW	
V.	Matrix Spike Analysis	A	MS/MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	A	Not reviewed for Level 3.
IX.	Furnace Atomic Absorption QC	N	Not utilized
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	A	Not reviewed for Level III validation.
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	D=1+3
XIV.	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation

all water gmf

1	ACS-GW-RESDUP01-32	11		21		31	
2	ACS-GW-PWB-32	12		22		32	
3	ACS-GW-PWC-32**	13		23		33	
4	ACS-GW-PWT-32	14		24		34	
5	ACS-GW-PWD-32	15		25		35	
6	ACS-GW-PWT-32MS	16		26		36	
7	ACS-GW-PWT-32MSD	17		27		37	
8	PBW	18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: ✓

Method: Metals (EPA SW 846 Method 6010/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury and 85-115% for cyanide) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995? (Level IV only)	✓			
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
IV. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?		✓		
V. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were < 5X the RL.	✓			
VI. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			
VII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: ✓

Validation Area	Yes	No	NA	Findings/Comments
VII. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the IDL?		✓		
Were all percent differences (%Ds) < 10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
VIII. Internal Standards (EPA SW-846 Method 6020)				
Were all the percent recoveries (%R) within the 30-120% of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Overall Assessment of Data				
Overall assessment of data was found to be acceptable.	✓			
XII. Field Duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XIII. Field Blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: W

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1→5	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
QC 6,7	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
ICP Trace		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
ICP-MS	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___

Comments: Mercury by CVAA if performed

LDC #: 19750B4
SDG #: ME0809C97
METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Associated Samples: all

Page: 1 of 1
Reviewer: MC
2nd Reviewer: [illegible]

Analyte	Blank Identification										Analyte
	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	
Al											Al
Sb	0.2094	0.2154									Sb
As											As
Ba											Ba
Be											Be
Cd	0.00521										Cd
Ca	22.93										Ca
Cr											Cr
Co											Co
Cu											Cu
Fe											Fe
Pb											Pb
Mg											Mg
Mn	0.07573										Mn
Hg											Hg
Ni											Ni
K											K
Se											Se
Ag											Ag
Na											Na
Tl	0.01055	0.07558									Tl
V											V
Zn											Zn
B											B
Mo											Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

BLNKICB.4SW

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA, 5xdil
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: all

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/l)	Maximum ICB/CCB[a] (ug/l)	Blank Action Limit	Sample Identification 1	2	3	4	5					
Al														
Sb		0.1422	0.2154	5.38	0.58 UB	0.043 UB			0.15 UB					
As		0.325		1.62	2.5 B			1. UB	1.2 UB					
Ba		0.07475		0.37	130. B	120. B	140. B	140. B	130. B					
Be														
Cd		0.0128	0.00521	0.13	0.078 UB	0.025 UB	0.058 UB	0.01 UB	0.0067 UB					
Ca		151.9	22.93	~~795.5~~ 759.5	83000. B	77000. B	81000. B	86000. B	88000. B					
Cr		3.856		19.28	3.7 UB	2.8 UB	3.1 UB	2.6 UB	4.4 UB					
Co														
Cu														
Fe														
Pb														
Mg		7.973		39.86	48000. B	38000. B	46000. B	48000. B	43000. B					
Mn		0.2171	0.07573	1.89	34. B	58. B	34. B	36. B	33. B					
Hg														
Mo														
Ni														
K														
Se														
Ag														
Na		6.922		34.61	16000. B	22000. B	15000. B	18000. B	21000. B					
Tl			0.07558	1.89	3.3 B	0.75 UB	0.36 UB	0.18 UB	3.4 B					
V														
Zn														
Sn														
B														

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4SW

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Page: 1 of 1
Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?
Y (N) N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
1	10-3-08	ICSAB	Mn	125.4 (80-120)	all	J dets / P

Comments:

ICS.4SW

LDC#: 19750B4
SDG#: ME0809C97

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: MG
2nd Reviewer: ✓

METHOD: Metals (EPA Method 6010B/7000)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD	
	1	3		
Antimony	0.58	6.0U	200	
Arsenic	2.5	10U	200	
Barium	130	140	7	
Cadmium	0.078	0.058	29	
Calcium	83000	81000	2	
Chromium	3.7	3.1	18	
Cobalt	0.25	0.21	17	
Copper	6.4	1.7	116	
Iron	2400	2400	0	
Lead	0.59	7.5U	200	
Magnesium	48000	46000	4	
Manganese	34	34	0	
Potassium	2200	2100	5	
Silver	0.033	10U	200	
Sodium	16000	15000	6	
Thallium	3.3	0.36	161	
Vanadium	8.0U	2.7	200	
Zinc	11	12	9	

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{Found}{True} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Initial calibration)						
	GFAA (Initial calibration)						
1047 ICV	CVAA (Initial calibration)	Hg	0.909	1.	90.9	90.9	Y
	ICP (Continuing calibration)						
	GFAA (Continuing calibration)						
1104 CCV1	CVAA (Continuing calibration)	Hg	5.090	5.	102	102	
1047 ICV	ICP/MS (Initial calibration)	Pb	23.582	25.0	94.3	94.3	
1114 CCV1	ICP/MS (Continuing calibation)	Tl	54.681	50.0	109	109	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCLC.4SW

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
1106 ICSAB	ICP interference check	Co	20.620 (µg/L)	20. (µg/L)	103.1	103.1	Y
1148 LCS	Laboratory control sample	As	2.020 (mg/L)	2. (mg/L)	101	101	↓
1218 6	Matrix spike	Ni	(SSR-SR) 1.932 (mg/L)	2. (mg/L)	96.6	96.6	↓
1218 / 1224 6/7	Duplicate	Sb	2.053 (mg/L)	2.172 (mg/L)	5.63	5.61	↓
—	ICP serial dilution	—	—	—	—	—	—

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.4SW

LDC #: 19750B4
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for # 3, Ba were recalculated and verified using the following equation:

Concentration = (RD)(FV)(Dil) / (In. Vol.)(%S)

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor
%S = Decimal percent solids

Recalculation:

$$\frac{(28.43935\ \mu g/L)(0.050\ L)(5)}{0.050\ L} = 142.20\ \mu g/L$$

Sample ID	Analyte	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Acceptable (Y/N)
3	Ba	140.	140.	Y
	Cd	0.058	0.058	
	Ca	81000.	81000.	
	Cr	3.1	3.1	
	Co	0.21	0.21	
	Cu	1.7	1.7	
	Fe	2400.	2400.	
	Mg	46000.	46000.	
	Mn	34.	34.	
	K	2100.	2100.	
	Na	15000.	15000.	
	Tl	0.36	0.36	
	V	2.7	2.7	
	Zn	12.	12.	

RECALC.4S2

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Residential

Collection Date: September 29, 2008

LDC Report Date: November 11, 2008

Matrix: Water

Parameters: Cyanide

Validation Level: EPA Level III & IV

Laboratory: Microbac

Sample Delivery Group (SDG): ME0809C97

Sample Identification

ACS-GW-RESDUP01-32
ACS-GW-PWB-32
ACS-GW-PWC-32**
ACS-GW-PWT-32
ACS-GW-PWD-32
ACS-GW-PWT-32MS
ACS-GW-PWT-32MSD

**Indicates sample underwent EPA Level IV review

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B Cyanide.

This review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Samples indicated by a double asterisk on the front cover underwent a EPA Level IV review. A EPA Level III review was performed on all of the other samples. Raw data were not evaluated for the samples reviewed by Level III criteria since this review is based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration were met.

b. Calibration verification

Calibration verification frequency and analysis criteria were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No cyanide was found in the method blanks.

No field blanks were identified in this SDG.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable for samples on which a EPA Level IV review was performed. Raw data were not evaluated for the samples reviewed by Level III criteria.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

Samples ACS-GW-RESDUP01-32 and ACS-GW-PWC-32** were identified as field duplicates. No cyanide was detected in any of the samples.

ACS Residential
Cyanide - Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

ACS Residential
Cyanide - Laboratory Blank Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

ACS Residential
Cyanide - Field Blank Data Qualification Summary - SDG ME0809C97

No Sample Data Qualified in this SDG

LDC #: 19750B6
SDG #: ME0809C97
Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET
Level III/IV

Date: 11-11-08
Page: 1 of 1
Reviewer: MG
2nd Reviewer: ✓

METHOD: Cyanide (EPA SW 846 Method 9012B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9-29-08
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	A	MS/MSD
V	Duplicates	N	
VI.	Laboratory control samples	A	LCS
VII.	Sample result verification	A	Not reviewed for Level III validation.
VIII.	Overall assessment of data	A	
IX.	Field duplicates	ND	D= 1+3
X	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: ** Indicates sample underwent Level IV validation
all water

1 1	ACS-GW-RESDUP01-32	11		21		31	
2 1	ACS-GW-PWB-32	12		22		32	
3 1	ACS-GW-PWC-32**	13		23		33	
4 1	ACS-GW-PWT-32	14		24		34	
5	ACS-GW-PWD-32	15		25		35	
6 1	ACS-GW-PWT-32MS	16		26		36	
7 1	ACS-GW-PWT-32MSD	17		27		37	
8 1	PBW1	18		28		38	
9 2	PBW2	19		29		39	
10		20		30		40	

Notes:

LDC #: 19750B6
SDG #: ME0809C97

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: [illegible]

Method: Inorganics (EPA Method 9012B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 19750B6
SDG #: M60809C97

VALIDATION FINDINGS CHECKLIST

Reviewer: MG
2nd Reviewer: ✓

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.		✓		
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 19750B6
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Inorganics, Method 9012 B

The correlation coefficient (r) for the calibration of CN was recalculated. Calibration date: 10-3-08

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{Found}{True} \times 100$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of Analysis	Analyte		Conc (units)	Area (units)	Recalculated r or %R	Reported r or %R	Acceptable (Y/N)
Initial calibration	CN	Blank	0.000 (mg/L)	0	r = 1.0000	r = 1.0000	Y
Calibration verification		Standard 1	0.005 (↓)	325397			
		Standard 2	0.010 (↓)	572580			
		Standard 3	0.050 (↓)	2867283			
		Standard 4	0.100 (↓)	5715648			
		Standard 5	0.250 (↓)	14024770			
		Standard 6	0.500 (↓)	27908552			
		Standard 7	–	–			
Calibration verification	CN	1538 ~~1558~~ CCV1	0.2008 (mg/L)	0.2 (mg/L)	100	100	
Calibration verification	CN	1558 CCV2	0.2004 (mg/L)	0.2 (mg/L)	100	100	
Calibration verification	–	–	–	–	–	–	–

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCLO.6

LDC #: 19750B6
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Inorganics, Method 9012B

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
1545 LCS	Laboratory control sample	CN	0.1924 (mg/L)	0.2 (mg/L)	96.2	96.2	Y
1548 6	Matrix spike sample	CN	(SSR-SR) 0.1889 (mg/L)	0.2 (mg/L)	94.4	94.4	↓
1548/1550 6/7	Duplicate sample	CN	0.1889 (mg/L)	0.1893 (mg/L)	0.212	0.237	↓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.6

LDC #: 19750B6
SDG #: ME0809C97

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: MG
2nd reviewer: [illegible]

METHOD: Inorganics, Method 9012B

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for level IV sample = N.D. ~~reported with a positive detect were recalculated and verified using the following equation~~:

Concentration = Recalculation:

#	Sample ID	Analyte	Reported Concentration ( )	Calculated Concentration ( )	Acceptable (Y/N)

Note:

RECALC.6

Microbac

LEVEL IV
QA/QC DATA PACKAGE

CLIENT:	MWH, Inc.
PROJECT:	GW - SemiAnnual / ACS
LAB WORKORDER:	ME0810733
DATE PACKAGE ISSUED:	10/28/08

250 West 84th Drive, Merrillville, IN [illegible] TEL.219.769.8378 FAX 219.769.1664

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CLIENT: **MWH, Inc.**

PROJECT: **GW - SemiAnnual / ACS**

LAB WORKORDER: **ME0810733**

CHAIN-OF-CUSTODY: **87054**

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Case Narrative
Metals Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0810733

Three groundwater samples were received on 10/17/2008 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for the following analytes.

ANALYTE	METHOD
Thallium by ICP	SW-846 3010/6010B

The samples were collected on 10/17/2008. The samples were digested on 10/17/2008 and analyzed on 10/20/2008 and 10/21/2008. All samples were analyzed within the prescribed maximum allowable holding time without exception.

The required instrument calibrations and quality control tests were performed and the acceptance criteria met without exception.

The batch quality control tests were performed and the acceptance criteria met without exception.

Matrix evaluation was performed on a sample submitted in another delivery group.

This Case Narrative was prepared by Amy L. Sheehy, QA Assistant.

Case Narrative
SVOA Analysis

Client: MWH, Inc.

Project: GW - SemiAnnual / ACS

Laboratory #: ME0810733

Four groundwater samples were received on 10/17/2008 for analysis and reporting in accordance with our Level IV protocol. The samples were received in acceptable physical condition. The samples were analyzed for Semi-volatile Organic Analytes using SW-846 Method 3510/8270C.

The samples were collected on 10/17/2008. The samples were extracted on 10/21/2008 analyzed on 10/23/2008. All samples were extracted and analyzed within the prescribed maximum allowable holding times without exception.

The required instrument calibration was performed and the acceptance criteria met. The grand mean average approach was used to assess linearity.

Prior to analysis, the resultant mass spectra for DFTPP met all method criteria, and all samples were analyzed within 12-hour analytical sequences.

Prior to analysis, a CCV standard was analyzed and the acceptance criteria met for all CCCs and SPCCs with the following exception.

- CCV C102202.D failed for Di-n-octyl phthalate. This is considered insignificant, as the bias was high yet the concentration in the associated samples remained below the reporting limit.

The batch quality control tests were performed and the acceptance criteria met without exception.

Three acid surrogate compounds and three base/neutral surrogate compounds are spiked into each sample to evaluate the extraction and analysis efficiency. One surrogate per fraction (acid versus base/neutral) is allowed to be outside of the acceptance criteria. All samples yielded acceptable surrogate recovery.

Internal standards are spiked into each CCV standard and environmental sample. All internal standard responses met the criteria established for the CCVs and were adequate for all environmental samples in the best technical judgment of the analyst.

Matrix evaluation was not performed on the following client-submitted samples due to insufficient sample. The accuracy and precision criteria were therefore evaluated using duplicate laboratory control samples which met their respective criteria.

This Case Narrative was prepared by Amy L. Sheehy, QA Assistant.

October 27, 2008

Christopher Daly
MWH, Inc.
175 West Jackson Boulevard, Suite 1900
Chicago, IL 60604

Work Order No.: ME0810733

RE: GW - SemiAnnual / ACS

Dear Christopher Daly:

Microbac Laboratories, Inc. received 4 samples on 10/17/2008 2:30:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Ronald J. Misiunas
Client Services Manager

Enclosures

WORK ORDER SAMPLE SUMMARY

Date: *Monday, October 27, 2008*

CLIENT: MWH, Inc.
Project: GW - SemiAnnual / ACS
Lab Order: ME0810733

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME0810733-01A	ACS-GW-PWB-32RE		10/17/2008 8:50:00 AM	10/17/2008
ME0810733-02A	ACS-GW-PWC-32RE		10/17/2008 9:40:00 AM	10/17/2008
ME0810733-02B	ACS-GW-PWC-32RE		10/17/2008 9:40:00 AM	10/17/2008
ME0810733-03A	ACS-GW-PWD-32RE		10/17/2008 10:35:00 AM	10/17/2008
ME0810733-03B	ACS-GW-PWD-32RE		10/17/2008 10:35:00 AM	10/17/2008
ME0810733-04A	ACS-GW-RESDUP01-3		10/17/2008 12:00:00 PM	10/17/2008
ME0810733-04B	ACS-GW-RESDUP01-3		10/17/2008 12:00:00 PM	10/17/2008

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-01
Collection Date: 10/17/08 08:50
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
4-Bromophenyl phenyl ether	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Bis(2-ethylhexyl)phthalate	A	***ND***	1.1	10		µg/L	1	10/23/08 03:12
Acenaphthene	A	***ND***	0.8	10		µg/L	1	10/23/08 03:12
Acenaphthylene	A	***ND***	0.7	10		µg/L	1	10/23/08 03:12
Anthracene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Benzo[a]anthracene	A	***ND***	0.8	10		µg/L	1	10/23/08 03:12
Benzo[a]pyrene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Benzo[b]fluoranthene	A	***ND***	1.6	10		µg/L	1	10/23/08 03:12
Benzo[g,h,i]perylene	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Benzo[k]fluoranthene	A	***ND***	2.2	10		µg/L	1	10/23/08 03:12
Bis(2-chloroethoxy)methane	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Bis(2-chloroethyl)ether	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
2,2´-oxybis(1-chloropropane)	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Butyl benzyl phthalate	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Carbazole	A	***ND***	1.2	10		µg/L	1	10/23/08 03:12
4-Chloro-3-methylphenol	A	***ND***	1.2	20		µg/L	1	10/23/08 03:12
4-Chloroaniline	A	***ND***	1	20		µg/L	1	10/23/08 03:12
2-Chloronaphthalene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
2-Chlorophenol	A	***ND***	0.7	10		µg/L	1	10/23/08 03:12
4-Chlorophenyl phenyl ether	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Chrysene	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Dibenz[a,h]anthracene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Dibenzofuran	A	***ND***	0.8	10		µg/L	1	10/23/08 03:12
3,3´-Dichlorobenzidine	A	***ND***	0.7	50		µg/L	1	10/23/08 03:12
2,4-Dichlorophenol	A	***ND***	0.7	10		µg/L	1	10/23/08 03:12
Diethyl phthalate	A	***ND***	1.1	10		µg/L	1	10/23/08 03:12
Dimethyl phthalate	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
2,4-Dimethylphenol	A	***ND***	0.8	10		µg/L	1	10/23/08 03:12
Di-n-butyl phthalate	A	***4.7***	1.2	10	J	µg/L	1	10/23/08 03:12
Di-n-octyl phthalate	A	***ND***	1.1	10		µg/L	1	10/23/08 03:12
4,6-Dinitro-2-methylphenol	A	***ND***	1.1	50		µg/L	1	10/23/08 03:12
2,4-Dinitrophenol	A	***ND***	9.4	50		µg/L	1	10/23/08 03:12
2,4-Dinitrotoluene	A	***ND***	0.8	10		µg/L	1	10/23/08 03:12
2,6-Dinitrotoluene	A	***ND***	1.1	10		µg/L	1	10/23/08 03:12
Fluoranthene	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Fluorene	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Hexachlorobenzene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Hexachlorobutadiene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Hexachlorocyclopentadiene	A	***ND***	0.6	10		µg/L	1	10/23/08 03:12

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-01
Collection Date: 10/17/08 08:50
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Hexachloroethane	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Indeno[1,2,3cd]pyrene	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Isophorone	A	***ND***	1	10		µg/L	1	10/23/08 03:12
2-Methylnaphthalene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
2-Methylphenol	A	***ND***	0.7	10		µg/L	1	10/23/08 03:12
3/4-Methylphenol	A	***ND***	0.8	10		µg/L	1	10/23/08 03:12
2-Nitroaniline	A	***ND***	1	50		µg/L	1	10/23/08 03:12
3-Nitroaniline	A	***ND***	1.3	50		µg/L	1	10/23/08 03:12
4-Nitroaniline	A	***ND***	1.7	50		µg/L	1	10/23/08 03:12
2-Nitrophenol	A	***ND***	1	10		µg/L	1	10/23/08 03:12
4-Nitrophenol	A	***ND***	4.3	50		µg/L	1	10/23/08 03:12
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg/L	1	10/23/08 03:12
N-Nitrosodiphenylamine	A	***ND***	0.7	10		µg/L	1	10/23/08 03:12
Naphthalene	A	***ND***	0.7	10		µg/L	1	10/23/08 03:12
Nitrobenzene	A	***ND***	1	10		µg/L	1	10/23/08 03:12
Pentachlorophenol	A	***ND***	1.3	50		µg/L	1	10/23/08 03:12
Phenanthrene	A	***ND***	0.8	10		µg/L	1	10/23/08 03:12
Phenol	A	***ND***	0.4	10		µg/L	1	10/23/08 03:12
Pyrene	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
2,4,5-Trichlorophenol	A	***ND***	1.5	10		µg/L	1	10/23/08 03:12
2,4,6-Trichlorophenol	A	***ND***	0.9	10		µg/L	1	10/23/08 03:12
Surr: Nitrobenzene-d5	S	66.4	0	10-121		%REC	1	10/23/08 03:12
Surr: 2-Fluorobiphenyl	S	61.6	0	10-109		%REC	1	10/23/08 03:12
Surr: Terphenyl-d14	S	68.0	0	10-130		%REC	1	10/23/08 03:12
Surr: Phenol-d5	S	24.3	0	10-100		%REC	1	10/23/08 03:12
Surr: 2-Fluorophenol	S	35.2	0	10-84.7		%REC	1	10/23/08 03:12
Surr: 2,4,6-Tribromophenol	S	52.8	0	10-120		%REC	1	10/23/08 03:12

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-02
Collection Date: 10/17/08 09:40
Date Received: 10/17/08 14:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS	Method: **SW6010B**				Prep Date/Time: **10/17/08 19:00**		Analyst: **AVC**	
Thallium	A	***5.9***	4.3	50	J	µg/L	1	10/21/08 17:31
SEMIVOLATILE ORGANICS	Method: **SW8270C**				Prep Date/Time: **10/21/08 06:23**		Analyst: **MLT**	
4-Bromophenyl phenyl ether	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Bis(2-ethylhexyl)phthalate	A	***ND***	1.1	9.9		µg/L	1	10/23/08 03:31
Acenaphthene	A	***ND***	0.79	9.9		µg/L	1	10/23/08 03:31
Acenaphthylene	A	***ND***	0.69	9.9		µg/L	1	10/23/08 03:31
Anthracene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Benzo[a]anthracene	A	***ND***	0.79	9.9		µg/L	1	10/23/08 03:31
Benzo[a]pyrene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Benzo[b]fluoranthene	A	***ND***	1.6	9.9		µg/L	1	10/23/08 03:31
Benzo[g,h,i]perylene	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
Benzo[k]fluoranthene	A	***ND***	2.2	9.9		µg/L	1	10/23/08 03:31
Bis(2-chloroethoxy)methane	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
Bis(2-chloroethyl)ether	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
2,2´-oxybis(1-chloropropane)	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Butyl benzyl phthalate	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
Carbazole	A	***ND***	1.2	9.9		µg/L	1	10/23/08 03:31
4-Chloro-3-methylphenol	A	***ND***	1.2	20		µg/L	1	10/23/08 03:31
4-Chloroaniline	A	***ND***	0.99	20		µg/L	1	10/23/08 03:31
2-Chloronaphthalene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
2-Chlorophenol	A	***ND***	0.69	9.9		µg/L	1	10/23/08 03:31
4-Chlorophenyl phenyl ether	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Chrysene	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
Dibenz[a,h]anthracene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Dibenzofuran	A	***ND***	0.79	9.9		µg/L	1	10/23/08 03:31
3,3´-Dichlorobenzidine	A	***ND***	0.69	50		µg/L	1	10/23/08 03:31
2,4-Dichlorophenol	A	***ND***	0.69	9.9		µg/L	1	10/23/08 03:31
Diethyl phthalate	A	***ND***	1.1	9.9		µg/L	1	10/23/08 03:31
Dimethyl phthalate	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
2,4-Dimethylphenol	A	***ND***	0.79	9.9		µg/L	1	10/23/08 03:31
Di-n-butyl phthalate	A	***ND***	1.2	9.9		µg/L	1	10/23/08 03:31
Di-n-octyl phthalate	A	***ND***	1.1	9.9		µg/L	1	10/23/08 03:31
4,6-Dinitro-2-methylphenol	A	***ND***	1.1	50		µg/L	1	10/23/08 03:31
2,4-Dinitrophenol	A	***ND***	9.3	50		µg/L	1	10/23/08 03:31
2,4-Dinitrotoluene	A	***ND***	0.79	9.9		µg/L	1	10/23/08 03:31
2,6-Dinitrotoluene	A	***ND***	1.1	9.9		µg/L	1	10/23/08 03:31
Fluoranthene	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-02
Collection Date: 10/17/08 09:40
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Fluorene	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
Hexachlorobenzene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Hexachlorobutadiene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Hexachlorocyclopentadiene	A	***ND***	0.59	9.9		µg/L	1	10/23/08 03:31
Hexachloroethane	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Indeno[1,2,3cd]pyrene	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
Isophorone	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
2-Methylnaphthalene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
2-Methylphenol	A	***ND***	0.69	9.9		µg/L	1	10/23/08 03:31
3/4-Methylphenol	A	***ND***	0.79	9.9		µg/L	1	10/23/08 03:31
2-Nitroaniline	A	***ND***	0.99	50		µg/L	1	10/23/08 03:31
3-Nitroaniline	A	***ND***	1.3	50		µg/L	1	10/23/08 03:31
4-Nitroaniline	A	***ND***	1.7	50		µg/L	1	10/23/08 03:31
2-Nitrophenol	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
4-Nitrophenol	A	***ND***	4.3	50		µg/L	1	10/23/08 03:31
N-Nitrosodi-n-propylamine	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
N-Nitrosodiphenylamine	A	***ND***	0.69	9.9		µg/L	1	10/23/08 03:31
Naphthalene	A	***ND***	0.69	9.9		µg/L	1	10/23/08 03:31
Nitrobenzene	A	***ND***	0.99	9.9		µg/L	1	10/23/08 03:31
Pentachlorophenol	A	***ND***	1.3	50		µg/L	1	10/23/08 03:31
Phenanthrene	A	***ND***	0.79	9.9		µg/L	1	10/23/08 03:31
Phenol	A	***ND***	0.4	9.9		µg/L	1	10/23/08 03:31
Pyrene	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
2,4,5-Trichlorophenol	A	***ND***	1.5	9.9		µg/L	1	10/23/08 03:31
2,4,6-Trichlorophenol	A	***ND***	0.89	9.9		µg/L	1	10/23/08 03:31
Surr: Nitrobenzene-d5	S	63.9	0	10-121		%REC	1	10/23/08 03:31
Surr: 2-Fluorobiphenyl	S	58.5	0	10-109		%REC	1	10/23/08 03:31
Surr: Terphenyl-d14	S	66.0	0	10-130		%REC	1	10/23/08 03:31
Surr: Phenol-d5	S	22.8	0	10-100		%REC	1	10/23/08 03:31
Surr: 2-Fluorophenol	S	32.5	0	10-84.7		%REC	1	10/23/08 03:31
Surr: 2,4,6-Tribromophenol	S	57.4	0	10-120		%REC	1	10/23/08 03:31

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-03
Collection Date: 10/17/08 10:35
Date Received: 10/17/08 14:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS Method: **SW6010B** Prep Date/Time: **10/17/08 19:00** Analyst: **AVC**								
Thallium	A	***ND***	4.3	50		µg/L	1	10/21/08 17:36
SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**								
4-Bromophenyl phenyl ether	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Bis(2-ethylhexyl)phthalate	A	***ND***	1.2	11		µg/L	1	10/23/08 03:50
Acenaphthene	A	***ND***	0.85	11		µg/L	1	10/23/08 03:50
Acenaphthylene	A	***ND***	0.74	11		µg/L	1	10/23/08 03:50
Anthracene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Benzo[a]anthracene	A	***ND***	0.85	11		µg/L	1	10/23/08 03:50
Benzo[a]pyrene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Benzo[b]fluoranthene	A	***ND***	1.7	11		µg/L	1	10/23/08 03:50
Benzo[g,h,i]perylene	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
Benzo[k]fluoranthene	A	***ND***	2.3	11		µg/L	1	10/23/08 03:50
Bis(2-chloroethoxy)methane	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
Bis(2-chloroethyl)ether	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
2,2´-oxybis(1-chloropropane)	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Butyl benzyl phthalate	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
Carbazole	A	***ND***	1.3	11		µg/L	1	10/23/08 03:50
4-Chloro-3-methylphenol	A	***ND***	1.3	21		µg/L	1	10/23/08 03:50
4-Chloroaniline	A	***ND***	1.1	21		µg/L	1	10/23/08 03:50
2-Chloronaphthalene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
2-Chlorophenol	A	***ND***	0.74	11		µg/L	1	10/23/08 03:50
4-Chlorophenyl phenyl ether	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Chrysene	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
Dibenz[a,h]anthracene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Dibenzofuran	A	***ND***	0.85	11		µg/L	1	10/23/08 03:50
3,3´-Dichlorobenzidine	A	***ND***	0.74	53		µg/L	1	10/23/08 03:50
2,4-Dichlorophenol	A	***ND***	0.74	11		µg/L	1	10/23/08 03:50
Diethyl phthalate	A	***ND***	1.2	11		µg/L	1	10/23/08 03:50
Dimethyl phthalate	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
2,4-Dimethylphenol	A	***ND***	0.85	11		µg/L	1	10/23/08 03:50
Di-n-butyl phthalate	A	***ND***	1.3	11		µg/L	1	10/23/08 03:50
Di-n-octyl phthalate	A	***ND***	1.2	11		µg/L	1	10/23/08 03:50
4,6-Dinitro-2-methylphenol	A	***ND***	1.2	53		µg/L	1	10/23/08 03:50
2,4-Dinitrophenol	A	***ND***	10	53		µg/L	1	10/23/08 03:50
2,4-Dinitrotoluene	A	***ND***	0.85	11		µg/L	1	10/23/08 03:50
2,6-Dinitrotoluene	A	***ND***	1.2	11		µg/L	1	10/23/08 03:50
Fluoranthene	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-03
Collection Date: 10/17/08 10:35
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Fluorene	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
Hexachlorobenzene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Hexachlorobutadiene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Hexachlorocyclopentadiene	A	***ND***	0.64	11		µg/L	1	10/23/08 03:50
Hexachloroethane	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Indeno[1,2,3cd]pyrene	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
Isophorone	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
2-Methylnaphthalene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
2-Methylphenol	A	***ND***	0.74	11		µg/L	1	10/23/08 03:50
3/4-Methylphenol	A	***ND***	0.85	11		µg/L	1	10/23/08 03:50
2-Nitroaniline	A	***ND***	1.1	53		µg/L	1	10/23/08 03:50
3-Nitroaniline	A	***ND***	1.4	53		µg/L	1	10/23/08 03:50
4-Nitroaniline	A	***ND***	1.8	53		µg/L	1	10/23/08 03:50
2-Nitrophenol	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
4-Nitrophenol	A	***ND***	4.6	53		µg/L	1	10/23/08 03:50
N-Nitrosodi-n-propylamine	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
N-Nitrosodiphenylamine	A	***ND***	0.74	11		µg/L	1	10/23/08 03:50
Naphthalene	A	***ND***	0.74	11		µg/L	1	10/23/08 03:50
Nitrobenzene	A	***ND***	1.1	11		µg/L	1	10/23/08 03:50
Pentachlorophenol	A	***ND***	1.4	53		µg/L	1	10/23/08 03:50
Phenanthrene	A	***ND***	0.85	11		µg/L	1	10/23/08 03:50
Phenol	A	***ND***	0.43	11		µg/L	1	10/23/08 03:50
Pyrene	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
2,4,5-Trichlorophenol	A	***ND***	1.6	11		µg/L	1	10/23/08 03:50
2,4,6-Trichlorophenol	A	***ND***	0.96	11		µg/L	1	10/23/08 03:50
Surr: Nitrobenzene-d5	S	67.6	0	10-121		%REC	1	10/23/08 03:50
Surr: 2-Fluorobiphenyl	S	67.5	0	10-109		%REC	1	10/23/08 03:50
Surr: Terphenyl-d14	S	85.3	0	10-130		%REC	1	10/23/08 03:50
Surr: Phenol-d5	S	25.3	0	10-100		%REC	1	10/23/08 03:50
Surr: 2-Fluorophenol	S	34.0	0	10-84.7		%REC	1	10/23/08 03:50
Surr: 2,4,6-Tribromophenol	S	70.7	0	10-120		%REC	1	10/23/08 03:50

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-04
Collection Date: 10/17/08 12:00
Date Received: 10/17/08 14:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS Method: **SW6010B** Prep Date/Time: **10/17/08 19:00** Analyst: **AVC**								
Thallium	A	***ND***	4.3	50		µg/L	1	10/21/08 17:42
SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**								
4-Bromophenyl phenyl ether	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Bis(2-ethylhexyl)phthalate	A	***ND***	1.1	10		µg/L	1	10/23/08 04:09
Acenaphthene	A	***ND***	0.82	10		µg/L	1	10/23/08 04:09
Acenaphthylene	A	***ND***	0.71	10		µg/L	1	10/23/08 04:09
Anthracene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Benzo[a]anthracene	A	***ND***	0.82	10		µg/L	1	10/23/08 04:09
Benzo[a]pyrene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Benzo[b]fluoranthene	A	***ND***	1.6	10		µg/L	1	10/23/08 04:09
Benzo[g,h,i]perylene	A	***ND***	1	10		µg/L	1	10/23/08 04:09
Benzo[k]fluoranthene	A	***ND***	2.2	10		µg/L	1	10/23/08 04:09
Bis(2-chloroethoxy)methane	A	***ND***	1	10		µg/L	1	10/23/08 04:09
Bis(2-chloroethyl)ether	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
2,2´-oxybis(1-chloropropane)	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Butyl benzyl phthalate	A	***ND***	1	10		µg/L	1	10/23/08 04:09
Carbazole	A	***ND***	1.2	10		µg/L	1	10/23/08 04:09
4-Chloro-3-methylphenol	A	***ND***	1.2	20		µg/L	1	10/23/08 04:09
4-Chloroaniline	A	***ND***	1	20		µg/L	1	10/23/08 04:09
2-Chloronaphthalene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
2-Chlorophenol	A	***ND***	0.71	10		µg/L	1	10/23/08 04:09
4-Chlorophenyl phenyl ether	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Chrysene	A	***ND***	1	10		µg/L	1	10/23/08 04:09
Dibenz[a,h]anthracene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Dibenzofuran	A	***ND***	0.82	10		µg/L	1	10/23/08 04:09
3,3´-Dichlorobenzidine	A	***ND***	0.71	51		µg/L	1	10/23/08 04:09
2,4-Dichlorophenol	A	***ND***	0.71	10		µg/L	1	10/23/08 04:09
Diethyl phthalate	A	***ND***	1.1	10		µg/L	1	10/23/08 04:09
Dimethyl phthalate	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
2,4-Dimethylphenol	A	***ND***	0.82	10		µg/L	1	10/23/08 04:09
Di-n-butyl phthalate	A	***ND***	1.2	10		µg/L	1	10/23/08 04:09
Di-n-octyl phthalate	A	***ND***	1.1	10		µg/L	1	10/23/08 04:09
4,6-Dinitro-2-methylphenol	A	***ND***	1.1	51		µg/L	1	10/23/08 04:09
2,4-Dinitrophenol	A	***ND***	9.6	51		µg/L	1	10/23/08 04:09
2,4-Dinitrotoluene	A	***ND***	0.82	10		µg/L	1	10/23/08 04:09
2,6-Dinitrotoluene	A	***ND***	1.1	10		µg/L	1	10/23/08 04:09
Fluoranthene	A	***ND***	1	10		µg/L	1	10/23/08 04:09

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-04
Collection Date: 10/17/08 12:00
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Fluorene	A	***ND***	1	10		µg/L	1	10/23/08 04:09
Hexachlorobenzene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Hexachlorobutadiene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Hexachlorocyclopentadiene	A	***ND***	0.61	10		µg/L	1	10/23/08 04:09
Hexachloroethane	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Indeno[1,2,3cd]pyrene	A	***ND***	1	10		µg/L	1	10/23/08 04:09
Isophorone	A	***ND***	1	10		µg/L	1	10/23/08 04:09
2-Methylnaphthalene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
2-Methylphenol	A	***ND***	0.71	10		µg/L	1	10/23/08 04:09
3/4-Methylphenol	A	***ND***	0.82	10		µg/L	1	10/23/08 04:09
2-Nitroaniline	A	***ND***	1	51		µg/L	1	10/23/08 04:09
3-Nitroaniline	A	***ND***	1.3	51		µg/L	1	10/23/08 04:09
4-Nitroaniline	A	***ND***	1.7	51		µg/L	1	10/23/08 04:09
2-Nitrophenol	A	***ND***	1	10		µg/L	1	10/23/08 04:09
4-Nitrophenol	A	***ND***	4.4	51		µg/L	1	10/23/08 04:09
N-Nitrosodi-n-propylamine	A	***ND***	1	10		µg/L	1	10/23/08 04:09
N-Nitrosodiphenylamine	A	***ND***	0.71	10		µg/L	1	10/23/08 04:09
Naphthalene	A	***ND***	0.71	10		µg/L	1	10/23/08 04:09
Nitrobenzene	A	***ND***	1	10		µg/L	1	10/23/08 04:09
Pentachlorophenol	A	***ND***	1.3	51		µg/L	1	10/23/08 04:09
Phenanthrene	A	***ND***	0.82	10		µg/L	1	10/23/08 04:09
Phenol	A	***ND***	0.41	10		µg/L	1	10/23/08 04:09
Pyrene	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
2,4,5-Trichlorophenol	A	***ND***	1.5	10		µg/L	1	10/23/08 04:09
2,4,6-Trichlorophenol	A	***ND***	0.92	10		µg/L	1	10/23/08 04:09
Surr: Nitrobenzene-d5	S	75.5	0	10-121		%REC	1	10/23/08 04:09
Surr: 2-Fluorobiphenyl	S	73.0	0	10-109		%REC	1	10/23/08 04:09
Surr: Terphenyl-d14	S	83.2	0	10-130		%REC	1	10/23/08 04:09
Surr: Phenol-d5	S	28.6	0	10-100		%REC	1	10/23/08 04:09
Surr: 2-Fluorophenol	S	38.5	0	10-84.7		%REC	1	10/23/08 04:09
Surr: 2,4,6-Tribromophenol	S	70.1	0	10-120		%REC	1	10/23/08 04:09

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

Form 1 TIC
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32RE

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME08010733

Matrix: (soil/water) water Lab Sample ID: ME08010733-01A

Sample wt/vol: (g/mL) Lab File ID: D:\Datc102208\c102227.D

Level: LOW Date Received: 10/17/2008

% Moisture: not dec. Date Analyzed: 10/23/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 ul

Number TICs found: 6 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Alcohol	3.92	3.5	
	Unknown	6.13	36.58	
	Unknown	9.5	4.21	
	Unknown Acid	9.54	7.69	
	Unknown Acid	9.66	10.12	
	Unknown	11.79	2.75	

FORM I TIC

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	N/A	=	Not Applicable			
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	=	Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	=	Nanograms per Liter (ppt)

U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL
D	=	Surrogate recoveries are not calculated due to sample dilution
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate

DF = Dilution Factor RL = Reporting Limit ST = Sample Type MDL = Method Detection Limit

SAMPLE TYPES

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)

Baltimore Division - Baltimore, MD
Camp Hill Division - Camp Hill, PA
Camp Hill Division (SC) - Pittston, PA
Chicagoland Division - Merrillville, IN
Chicagoland Division (SC) - Indianapolis, IN
Corona Division - Corona, CA
Erie Division - Erie, PA
Fayetteville Division - Fayetteville, NC
Hauser Division - Boulder, CO
Kentucky Division - Louisville, KY
Kentucky Division (Sat) - Evansville, IN
Kentucky Division (Sat) - Lexington, KY
Kentucky Division (Sat) - Paducah, KY
Knoxville Division - Maryville, TN
Massachusetts Division - Marlborough, MA
Microbac Corporate Office - Wexford, PA
Microbac NY - Cortland Office - Cortland, NY
Microbac NY - Waverly Office - Waverly, NY
New Castle Division - New Castle, PA
Pittsburgh Division - Warrendale, PA
Richmond Division - Richmond, VA
South Carolina Division - New Ellenton, SC
South Jersey Division - Turnersville, NJ
Southern Headquarters - Poquoson, VA
Southern Testing Division - Wilson, NC
Southern Testing Division (Sat) - Greensboro, NC
Venice Division - Venice, FL

Microbac®

COOLER INSPECTION

Date: Monday, October 27, 2008

Client Name: ***MWH, Inc.***

Date / Time Received: ***10/17/2008 2:30:00 PM***

Work Order Number ***ME0810733***

Received by: DEB

Checklist completed by DEB | 10/17/2008 3:25:31 PM

Reviewed by RJM | 10/20/2008 11:10:13 AM

Carrier name: Client Delivered

After-Hour Arrival?	Yes ☐	No ☑	
Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody included sufficient client identification?	Yes ☑	No ☐	
Chain of custody included sufficient sample collector information?	Yes ☑	No ☐	
Chain of custody included a sample description?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Chain of custody identified the appropriate matrix?	Yes ☑	No ☐	
Chain of custody included date of collection?	Yes ☑	No ☐	
Chain of custody included time of collection?	Yes ☑	No ☐	
Chain of custody identified the appropriate number of containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
If samples are preserved, are the preservatives identified?	Yes ☑	No ☐	
Samples properly preserved?	Yes ☑	No ☐	

If No, adjusted by? _____ Date/Time _____

Chain of custody included the requested analyses?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Samples received on ice?	Yes ☑	No ☐

Container/Temp Blank temperatures — Cooler 1 — Temp 6 ºC

VOA vials for aqueous samples have zero headspace? No VOA vials submitted ☑ Yes ☐ No ☐

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

General Comments:

Sample ID	Client Sample ID	Comments
ME0810733-01A	ACS-GW-PWB-32RE	Need TICs
ME0810733-02A	ACS-GW-PWC-32RE	Need TICs
ME0810733-02B	ACS-GW-PWC-32RE	Need TICs
ME0810733-03A	ACS-GW-PWD-32RE	Need TICs
ME0810733-03B	ACS-GW-PWD-32RE	Need TICs
ME0810733-04A	ACS-GW-RESDUP01-32RE	Need TICs
ME0810733-04B	ACS-GW-RESDUP01-32RE	Need TICs

ME0810733 MONT. WATSON-IL-CHICAG 10/24/2008
GW - SemiAnnual / ACS
Justin Finger
RJM

Microbac®

Samples Submitted to: [X] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664 [ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 87054

Instructions on back

Client Name: MWH	Project: ACS RESIDENTIAL	Turnaround Time	Report Type
Address: 175 W. JACKSON BLVD SUITE 1900	Location: GRIFFITH, IN	[ ] Routine (7 working days)	[ ] Results Only [ ] Level II
City, State, Zip: CHICAGO, IL 60604	PO #: 4050577.03010601	[X] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: JUSTIN FINGER	Compliance Monitoring? [ ] Yes(1) [ ] No	10/27/08 (needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #: (312) 831-3447	(1)Agency/Program		[ ] EDD

Sampled by (PRINT): J. FINGER, D POWERS Sampler Signature: [signature] Sampler Phone #: (312) 831-3447

Send Report via: [X] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address) JUSTIN.E.FINGER@MWHGLOBAL.COM

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses / Preservative Types **	SVOCs + TICs (LOW)	THALLIUM (LOW)							For Lab Use Only
																	0810733
ACS-GW-PWB-32RE	GW	X			10/17/08	0850	1	U	X								01A
ACS-GW-PWC-32RE	GW	X			10/17/08	0940	2	U,1	X	X							02A-B
ACS-GW-PWD-32RE	GW	X			10/17/08	1035	2	U,1	X	X							03A-B
ACS-GW-RESDUP01-32RE	GW	X			10/17/08	1200	2	U,1	X	X							04A-B

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
RUN ON LOW LEVEL MACHINES	[signature]	10/17/08 1430		
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
Sample temperature upon receipt in degrees C = 6			[signature]	10/17/08 1430

rev. 11/04/04 Page ___ of ___

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66452

Sample ID: MB081017-8 SampType: MBLK TestCode: 2007 Units: mg/L Prep Date: 10/17/2008 7:00:00 PM Run ID: ICP-2_081022B
Client ID: ZZZZZ Batch ID: 66452 TestNo: E200.7_r4.4 Analysis Date: 10/22/2008 2:58:00 PM SeqNo: 1916153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	0	0.050									

Sample ID: LCS081017-8 SampType: LCS TestCode: 2007 Units: mg/L Prep Date: 10/17/2008 7:00:00 PM Run ID: ICP-2_081022B
Client ID: ZZZZZ Batch ID: 66452 TestNo: E200.7_r4.4 Analysis Date: 10/22/2008 3:04:00 PM SeqNo: 1916154

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	2.024	0.050	2	0	101	85	115	0	0		

Sample ID: ME0810732-01AMS SampType: MS TestCode: 2007 Units: mg/L Prep Date: 10/17/2008 7:00:00 PM Run ID: ICP-2_081022B
Client ID: ZZZZZ Batch ID: 66452 TestNo: E200.7_r4.4 Analysis Date: 10/22/2008 3:14:00 PM SeqNo: 1916156

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	1.897	0.050	2	0	94.8	70	130	0	0		

Sample ID: ME0810732-01AMS SampType: MSD TestCode: 2007 Units: mg/L Prep Date: 10/17/2008 7:00:00 PM Run ID: ICP-2_081022B
Client ID: ZZZZZ Batch ID: 66452 TestNo: E200.7_r4.4 Analysis Date: 10/22/2008 3:20:00 PM SeqNo: 1916157

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	1.811	0.050	2	0	90.6	70	130	1.897	4.64	20	

Sample ID: ICV SampType: ICV TestCode: 2007 Units: mg/L Prep Date: Run ID: ICP-2_081021B
Client ID: ZZZZZ Batch ID: 66452 TestNo: E200.7_r4.4 Analysis Date: 10/21/2008 10:53:00 A SeqNo: 1914352

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	1.006	0.050	1	0	101	95	105	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66452

Sample ID: ICB | SampType: CCB | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081021B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/21/2008 10:58:00 A | SeqNo: 1914353

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	0.007	0.050	0	0	0			0	0		J

Sample ID: CCB | SampType: CCB | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081021B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/21/2008 4:54:00 PM | SeqNo: 1915046

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	0.0118	0.050	0	0	0			0	0		J

Sample ID: CCB | SampType: CCB | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081021B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/21/2008 5:52:00 PM | SeqNo: 1915057

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	0	0.050	0	0	0			0	0		

Sample ID: ICV | SampType: ICV | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081022B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/22/2008 11:41:00 A | SeqNo: 1915456

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	1.039	0.050	1	0	104	95	105	0	0		

Sample ID: ICB | SampType: CCB | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081022B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/22/2008 11:46:00 A | SeqNo: 1915457

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	0	0.050	0	0	0			0	0		

Sample ID: CCB | SampType: CCB | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081022B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/22/2008 2:51:00 PM | SeqNo: 1915652

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	0	0.050	0	0	0			0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
H - Analyte was prepared and/or analyzed outside of the analytical method holding time
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
b - Analyte detected below reporting limit in the Method Blank

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66452

Sample ID: CCB | SampType: CCB | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081022B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/22/2008 3:58:00 PM | SeqNo: 1916164

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	0.0113	0.050	0	0	0			0	0		J

Sample ID: CCV | SampType: CCV | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081021B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/21/2008 4:48:00 PM | SeqNo: 1915045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	5.19	0.050	5	0	104	90	110	0	0		

Sample ID: CCV | SampType: CCV | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081021B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/21/2008 5:47:00 PM | SeqNo: 1915056

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	5.498	0.050	5	0	110	90	110	0	0		

Sample ID: CCV | SampType: CCV | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081022B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/22/2008 2:33:00 PM | SeqNo: 1915650

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	5.158	0.050	5	0	103	90	110	0	0		

Sample ID: CCV | SampType: CCV | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081022B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/22/2008 3:52:00 PM | SeqNo: 1916163

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	4.997	0.050	5	0	99.9	90	110	0	0		

Sample ID: ICSAB | SampType: ICSAB | TestCode: 2007 | Units: mg/L | Prep Date: | Run ID: ICP-2_081021B
Client ID: ZZZZZ | Batch ID: 66452 | TestNo: E200.7_r4.4 | Analysis Date: 10/21/2008 11:23:00 A | SeqNo: 1914356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	4.333	0.050	5	0	86.7	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66452

Sample ID: **ICSAB** SampType: **ICSAB** TestCode: **2007** Units: **mg/L** Prep Date: Run ID: **ICP-2_081022B**
Client ID: **ZZZZZ** Batch ID: **66452** TestNo: **E200.7_r4.4** Analysis Date: **10/22/2008 12:08:00 P** SeqNo: **1915460**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	4.283	0.050	5	0	85.7	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
H - Analyte was prepared and/or analyzed outside of the analytical method holding time
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
b - Analyte detected below reporting limit in the Method Blank

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66524

Sample ID: bk-1-102108 SampType: mblk TestCode: 8270_w Units: µg/L Prep Date: 10/21/2008 6:23:00 AM Run ID: SVOA-3_081023A
Client ID: ZZZZZ Batch ID: 66524 TestNo: SW8270C Analysis Date: 10/22/2008 9:50:00 PM SeqNo: 1917004

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Bromophenyl phenyl ether	ND	10									
Bis(2-ethylhexyl)phthalate	ND	10									
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Anthracene	ND	10									
Benzo[a]anthracene	ND	10									
Benzo[a]pyrene	ND	10									
Benzo[b]fluoranthene	ND	10									
Benzo[g,h,i]perylene	ND	10									
Benzo[k]fluoranthene	ND	10									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	10									
Butyl benzyl phthalate	ND	10									
Carbazole	ND	10									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	10									
Chrysene	ND	10									
Dibenz[a,h]anthracene	ND	10									
Dibenzofuran	ND	10									
3,3'-Dichlorobenzidine	ND	50									
2,4-Dichlorophenol	ND	10									
Diethyl phthalate	ND	10									
Dimethyl phthalate	ND	10									
2,4-Dimethylphenol	ND	10									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	10									

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66524

Sample ID: **bk-1-102108** SampType: **mblk** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/21/2008 6:23:00 AM** Run ID: **SVOA-3_081023A**
Client ID: **ZZZZZ** Batch ID: **66524** TestNo: **SW8270C** Analysis Date: **10/22/2008 9:50:00 PM** SeqNo: **1917004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	ND	50									
2,4-Dinitrophenol	ND	50									
2,4-Dinitrotoluene	ND	10									
2,6-Dinitrotoluene	ND	10									
Fluoranthene	ND	10									
Fluorene	ND	10									
Hexachlorobenzene	ND	10									
Hexachlorobutadiene	ND	10									
Hexachlorocyclopentadiene	ND	10									
Hexachloroethane	ND	10									
Indeno[1,2,3cd]pyrene	ND	10									
Isophorone	ND	10									
2-Methylnaphthalene	ND	10									
2-Methylphenol	ND	10									
3/4-Methylphenol	ND	10									
2-Nitroaniline	ND	50									
3-Nitroaniline	ND	50									
4-Nitroaniline	ND	50									
2-Nitrophenol	ND	10									
4-Nitrophenol	ND	50									
N-Nitrosodi-n-propylamine	ND	10									
N-Nitrosodiphenylamine	ND	10									
Naphthalene	ND	10									
Nitrobenzene	ND	10									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	10									
Surr: Nitrobenzene-d5	61.19	0	100	0	61.2	10	121	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66524

Sample ID: **bk-1-102108** SampType: **mblk** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/21/2008 6:23:00 AM** Run ID: **SVOA-3_081023A**
Client ID: **ZZZZZ** Batch ID: **66524** TestNo: **SW8270C** Analysis Date: **10/22/2008 9:50:00 PM** SeqNo: **1917004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	55.24	0	100	0	55.2	10	109	0	0		
Surr: Terphenyl-d14	95.79	0	100	0	95.8	10	130	0	0		
Surr: Phenol-d5	36.15	0	150	0	24.1	10	100	0	0		
Surr: 2-Fluorophenol	48.47	0	150	0	32.3	10	84.7	0	0		
Surr: 2,4,6-Tribromophenol	87.74	0	150	0	58.5	10	120	0	0		

Sample ID: **lcs-1a-102108** SampType: **lcs** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/21/2008 6:23:00 AM** Run ID: **SVOA-3_081023A**
Client ID: **ZZZZZ** Batch ID: **66524** TestNo: **SW8270C** Analysis Date: **10/22/2008 10:09:00 P** SeqNo: **1917005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	75.05	10	100	0	75	28.6	88.6	0	0		
4-Chloro-3-methylphenol	81.11	20	100	0	81.1	27.2	97.7	0	0		
2-Chlorophenol	63.65	10	100	0	63.6	31.3	81.3	0	0		
2,4-Dinitrotoluene	78.75	10	100	0	78.8	23.5	95.4	0	0		
4-Nitrophenol	23.87	50	100	0	23.9	5	56.2	0	0		J
N-Nitrosodi-n-propylamine	88.13	10	100	0	88.1	15.9	119	0	0		
Pentachlorophenol	55.36	50	100	0	55.4	5	114	0	0		
Phenol	27.78	10	100	0	27.8	5	46.7	0	0		
Pyrene	94.04	10	100	0	94	25.3	103	0	0		
Surr: Nitrobenzene-d5	70.59	0	100	0	70.6	10	121	0	0		
Surr: 2-Fluorobiphenyl	65	0	100	0	65	10	109	0	0		
Surr: Terphenyl-d14	95.61	0	100	0	95.6	10	130	0	0		
Surr: Phenol-d5	38.58	0	150	0	25.7	10	100	0	0		
Surr: 2-Fluorophenol	52.75	0	150	0	35.2	10	84.7	0	0		
Surr: 2,4,6-Tribromophenol	89.17	0	150	0	59.4	10	120	0	0		

Sample ID: **lcs-1b-102108** SampType: **lcs** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/21/2008 6:23:00 AM** Run ID: **SVOA-3_081023A**
Client ID: **ZZZZZ** Batch ID: **66524** TestNo: **SW8270C** Analysis Date: **10/22/2008 10:28:00 P** SeqNo: **1917006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	71.98	10	100	0	72	28.6	88.6	0	0		

Qualifiers:
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: MWH, Inc.
Work Order: ME0810733
Project: GW - SemiAnnual / ACS

ANALYTICAL QC SUMMARY REPORT

BatchID: 66524

Sample ID: **lcs-1b-102108** SampType: **lcs** TestCode: **8270_w** Units: **µg/L** Prep Date: **10/21/2008 6:23:00 AM** Run ID: **SVOA-3_081023A**
Client ID: **ZZZZZ** Batch ID: **66524** TestNo: **SW8270C** Analysis Date: **10/22/2008 10:28:00 P** SeqNo: **1917006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	81.19	20	100	0	81.2	27.2	97.7	0	0		
2-Chlorophenol	60.32	10	100	0	60.3	31.3	81.3	0	0		
2,4-Dinitrotoluene	75.93	10	100	0	75.9	23.5	95.4	0	0		
4-Nitrophenol	24.76	50	100	0	24.8	5	56.2	0	0		J
N-Nitrosodi-n-propylamine	87.02	10	100	0	87	15.9	119	0	0		
Pentachlorophenol	62.36	50	100	0	62.4	5	114	0	0		
Phenol	27.38	10	100	0	27.4	5	46.7	0	0		
Pyrene	93.74	10	100	0	93.7	25.3	103	0	0		
Surr: Nitrobenzene-d5	67.91	0	100	0	67.9	10	121	0	0		
Surr: 2-Fluorobiphenyl	64.84	0	100	0	64.8	10	109	0	0		
Surr: Terphenyl-d14	95.82	0	100	0	95.8	10	130	0	0		
Surr: Phenol-d5	35.81	0	150	0	23.9	10	100	0	0		
Surr: 2-Fluorophenol	48.56	0	150	0	32.4	10	84.7	0	0		
Surr: 2,4,6-Tribromophenol	98.4	0	150	0	65.6	10	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
S - Spike Recovery outside accepted recovery limits
B - Analyte detected above reporting limit in the Method Blank
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
b - Analyte detected below reporting limit in the Method Blank
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

ICP
DATA

RAW DATA

Method: MTHD08-1 Sample Name: Blank Operator:
Comment:
Run Time: 10/21/08 10:33 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0008	.0010	.0001	.0001
Stddev	.0002	.0002	.0001	.0000
%RSD	23.27	23.54	109.0	54.26
#1	-.0006	.0009	.0002	.0001
#2	-.0009	.0012	.0000	.0001

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0064	.0023	-.0043	.0046
Stddev	.0004	.0004	.0005	.0005
%RSD	6.247	15.96	10.47	11.81
#1	.0067	.0026	-.0040	.0042
#2	.0061	.0020	-.0046	.0050

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	.0014	.0002	.0004
Stddev	.0001	.0002	.0000	.0001
%RSD	23.03	10.62	11.04	15.84
#1	.0005	.0013	.0002	.0004
#2	.0003	.0015	.0002	.0003

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0064	.0044	-.0006	-.0002
Stddev	.0001	.0003	.0000	.0000
%RSD	1.043	6.667	8.771	8.806
#1	.0065	.0046	-.0006	-.0002
#2	.0064	.0042	-.0005	-.0002

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0019	.0023	-.0594	-.0001
Stddev	.0002	.0005	.0002	.0000
%RSD	9.481	24.27	.2814	21.27
#1	.0017	.0026	-.0592	-.0001
#2	.0020	.0019	-.0595	-.0001

Sample Name: Blank Run Time: 10/21/08 10:33

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0008	.0000	.0020	.0000
Stddev	.0001	.0000	.0003	.0002
%RSD	13.86	39.45	12.80	710.9
#1	.0008	.0001	.0018	.0001
#2	.0007	.0000	.0022	-.0001

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	.0047	.0001	-.0007
Stddev	.0000	.0001	.0000	.0002
%RSD	.1571	1.085	13.53	28.04
#1	.0006	.0046	.0001	-.0008
#2	.0006	.0047	.0000	-.0005

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	-.0002	.0023	.0006
Stddev	.0000	.0001	.0002	.0000
%RSD	47.37	52.24	7.191	6.085
#1	.0000	-.0001	.0024	.0005
#2	-.0001	-.0003	.0022	.0006

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	162.68	92.561
Stddev	.26	.242
%RSD	.15714	.26139
#1	162.86	92.732
#2	162.50	92.390

Method: MTHD08-1 Sample Name: std. 5 Operator:
Comment:
Run Time: 10/21/08 10:37 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0174	.0829	.0931	.1839
Stddev	.0002	.0002	.0007	.0009
%RSD	.9044	.1921	.6998	.4637
#1	.0173	.0828	.0936	.1833
#2	.0175	.0830	.0926	.1845

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.103	5.769	.8976	.0309
Stddev	.004	.001	.0058	.0003
%RSD	.3883	.0096	.6430	.8876
#1	1.106	5.769	.9017	.0308
#2	1.100	5.770	.8935	.0311

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.542	1.513	.8456	.3128
Stddev	.008	.010	.0048	.0013
%RSD	.3319	.6319	.5733	.4259
#1	2.548	1.520	.8491	.3138
#2	2.536	1.507	.8422	.3119

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8174	.4789	6.347	.0623
Stddev	.0029	.0019	.026	.0002
%RSD	.3504	.3876	.4093	.2840
#1	.8195	.4776	6.329	.0624
#2	.8154	.4802	6.365	.0622

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6617	.9891	5.750	.3354
Stddev	.0037	.0001	.022	.0027
%RSD	.5530	.0131	.3823	.8133
#1	.6643	.9890	5.735	.3373
#2	.6592	.9892	5.766	.3335

Sample Name: std. 5 Run Time: 10/21/08 10:37

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0391	.1713	.0486	.2066
Stddev	.0001	.0012	.0002	.0017
%RSD	.1704	.6856	.3726	.8306
#1	.0391	.1721	.0488	.2078
#2	.0390	.1704	.0485	.2053

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0839	.7305	.0390	1.669
Stddev	.0004	.0027	.0002	.001
%RSD	.4790	.3760	.5778	.0280
#1	.0842	.7325	.0392	1.669
#2	.0837	.7286	.0389	1.668

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6582	.0979	.2030	.2666
Stddev	.0021	.0003	.0007	.0013
%RSD	.3240	.2839	.3558	.4959
#1	.6567	.0981	.2025	.2675
#2	.6598	.0977	.2035	.2657

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	160.34	92.344
Stddev	.93	.129
%RSD	.58269	.14011
#1	159.68	92.435
#2	161.00	92.252

Method: MTHD08-1 Sample Name: std. 10 Operator:
Comment:
Run Time: 10/21/08 10:43 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0361	.1641	.1845	.3752
Stddev	.0017	.0073	.0026	.0028
%RSD	4.820	4.454	1.402	.7353
#1	.0349	.1589	.1827	.3732
#2	.0373	.1693	.1863	.3771

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.183	11.46	1.760	.0560
Stddev	.028	.51	.015	.0010
%RSD	1.300	4.479	.8561	1.820
#1	2.163	11.10	1.749	.0553
#2	2.203	11.83	1.771	.0567

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.972	2.966	1.654	.6150
Stddev	.025	.010	.000	.0070
%RSD	.4924	.3521	.0228	1.144
#1	4.955	2.959	1.654	.6101
#2	4.990	2.973	1.655	.6200

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.588	.9581	12.85	.1279
Stddev	.012	.0355	.55	.0013
%RSD	.7439	3.707	4.301	1.035
#1	1.579	.9330	12.46	.1269
#2	1.596	.9832	13.24	.1288

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.300	1.955	11.10	.6562
Stddev	.009	.013	.46	.0072
%RSD	.7132	.6408	4.138	1.096
#1	1.293	1.946	10.77	.6512
#2	1.306	1.964	11.42	.6613

Sample Name: std. 10 Run Time: 10/21/08 10:43

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0773	.3374	.0979	.4029
Stddev	.0008	.0025	.0004	.0045
%RSD	1.020	.7346	.3766	1.123
#1	.0768	.3356	.0977	.3997
#2	.0779	.3391	.0982	.4061

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1633	1.433	.0768	3.331
Stddev	.0006	.006	.0008	.125
%RSD	.3826	.4249	.9829	3.739
#1	.1628	1.429	.0763	3.243
#2	.1637	1.438	.0773	3.419

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.343	.1910	.4092	.5173
Stddev	.044	.0024	.0177	.0015
%RSD	3.254	1.247	4.338	.2963
#1	1.312	.1893	.3966	.5162
#2	1.374	.1927	.4217	.5184

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	158.73	91.505
Stddev	.57	3.145
%RSD	.36002	3.4371
#1	159.13	93.729
#2	158.32	89.281

Method: MTHD08-1 Sample Name: std. 50 Operator:
Comment:
Run Time: 10/21/08 10:48 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	P_1782	S_1820
Line	178.287 {188}	182.034 {184}
Units	Cts/S	Cts/S
Avg	.3490	.4565
Stddev	.0058	.0061
%RSD	1.657	1.332
#1	.3449	.4522
#2	.3531	.4608

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	165.98	94.366
Stddev	1.56	2.233
%RSD	.94265	2.3661
#1	167.09	92.787
#2	164.87	95.945

El Name	Slope	Y-int	Correlation	Date Stdized
Ag3280	0.0367	-0.0008	0.9999760	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	2.429e-05	0	0	-0.00077379
std. 10	1	1.0049	0.00486	0.486	0.036101
std. 5	0.5	0.49514	-0.00486	-0.972	0.017396

El Name	Slope	Y-int	Correlation	Date Stdized
Al3961	0.0163	0.0010	0.9999976	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-7.7732e-050		0	0.0010197
std. 10	10	9.9845	-0.0155	-0.155	0.16409
std. 5	5	5.0155	0.0155	0.311	0.082934

El Name	Slope	Y-int	Correlation	Date Stdized
As1890	0.0185	0.0001	0.9999918	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000142380		0	0.00011936
std. 10	10	9.9709	-0.0291	-0.291	0.18451
std. 5	5	5.0282	0.0282	0.563	0.093104

El Name	Slope	Y-int	Correlation	Date Stdized
Au2082	0.0373	0.0001	0.9999558	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000329780		0	8.8708e-05
std. 10	10	10.066	0.066	0.66	0.37515
std. 5	5	4.934	-0.066	-1.32	0.18393

El Name	Slope	Y-int	Correlation	Date Stdized
B_2496	0.2182	0.0064	0.9999930	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000130780		0	0.0064065
std. 10	10	9.9738	-0.0262	-0.262	2.1829
std. 5	5	5.0262	0.0262	0.523	1.1032

El Name	Slope	Y-int	Correlation	Date Stdized
Ba4554	1.1486	0.0024	0.9999956	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00010340		0	0.0023023
std. 10	10	9.9794	-0.0206	-0.206	11.465
std. 5	5	5.0207	0.0207	0.414	5.7691

El Name	Slope	Y-int	Correlation	Date Stdized
Be2348	7.0978	-0.0042	0.9999448	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-9.2317e-060		0	-0.004308
std. 10	0.25	0.24857	-0.00143	-0.571	1.7601
std. 5	0.125	0.12706	0		0.89757

El Name	Slope	Y-int	Correlation	Date Stdized
Ca1840	0.0052	0.0046	0.9999273	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000423150		0	0.0045982
std. 10	10	9.9154	-0.0846	-0.846	0.055982
std. 5	5	5.0846	0.0846	1.69	0.030949

El Name	Slope	Y-int	Correlation	Date Stdized
Cd2265	0.5007	0.0006	0.9999439	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000371980		0	0.00041635
std. 10	10	9.929	-0.071	-0.71	4.9723
std. 5	5	5.0761	0.0761	1.52	2.5423

El Name	Slope	Y-int	Correlation	Date Stdized
Co2286	0.2984	0.0015	0.9999560	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000329330		0	0.0014303
std. 10	10	9.9343	-0.0657	-0.657	2.9661
std. 5	5	5.066	0.066	1.32	1.5133

El Name	Slope	Y-int	Correlation	Date Stdized
Cr2061	0.1666	0.0003	0.9999452	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000367350		0	0.00022188
std. 10	10	9.9267	-0.0733	-0.733	1.6543
std. 5	5	5.0736	0.0736	1.47	0.84565

El Name	Slope	Y-int	Correlation	Date Stdized
Cu2247	0.0618	0.0004	0.9999692	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000275150		0	0.00037712
std. 10	10	9.9462	-0.0538	-0.538	0.61504
std. 5	5	5.0556	0.0556	1.11	0.31282

El Name	Slope	Y-int	Correlation	Date Stdized
Fe2404	0.1595	0.0065	0.9999259	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000427250		0	0.006434
std. 10	10	9.9146	-0.0854	-0.854	1.5875
std. 5	5	5.0854	0.0854	1.71	0.81744

El Name	Slope	Y-int	Correlation	Date Stdized
K_7664	0.0095	0.0044	0.9999972	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000827730		0	0.0044122
std. 10	100	100.17	0		[illegible].95809

std. 5	50	49.834	-0.166	-0.331	0.47888

El Name	Slope	Y-int	Correlation	Date Stdized
Li6707	1.2800	-0.0008	0.9999831	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000204020		0	-0.00056364
std. 5	5	4.9592	-0.0408	-0.816	6.3469
std. 10	10	10.041	0.0408	0.408	12.851

El Name	Slope	Y-int	Correlation	Date Stdized
Mg2852	0.0127	-0.0002	0.9999328	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000407	0	0	-0.0001672
std. 10	10	10.081	0.0814	0.814	0.12786
std. 5	5	4.9186	-0.0814	-1.63	0.062292

El Name	Slope	Y-int	Correlation	Date Stdized
Mn2576	1.3047	0.0019	0.9999680	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-2.8077e-050		0	0.0018638
std. 10	1	0.99465	-0.00535	-0.535	1.2996
std. 5	0.5	0.50575	0.00575	1.15	0.66175

El Name	Slope	Y-int	Correlation	Date Stdized
Mo2020	0.1960	0.0023	0.9999870	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000178790		0	0.0022524
std. 10	10	9.9645	-0.0355	-0.355	1.9549
std. 5	5	5.0359	0.0359	0.718	0.98909

El Name	Slope	Y-int	Correlation	Date Stdized
Na5889	0.1131	-0.0586	0.9998109	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00682560		0	-0.059367
std. 10	100	98.635	-1.37	-1.37	11.096
std. 5	50	51.365	1.37	2.73	5.7502

El Name	Slope	Y-int	Correlation	Date Stdized
Ni2216	0.0661	-0.0001	0.9999449	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000368270		0	-0.00011262
std. 5	5	5.0737	0.0737	1.47	0.33538
std. 10	10	9.9263	-0.0737	-0.737	0.65624

El Name	Slope	Y-int	Correlation	Date Stdized
P_1782	0.0071	0.0008	0.9991577	10/21/08 10:52:28

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00633350		0	0.00075767
std. 10	10	10.744	0.744	7.44	0.077325
std. 50	50	48.883	-1.12	-2.23	0.34898
std. 5	5	5.3733	0.373	7.47	0.039075

El Name	Slope	Y-int	Correlation	Date Stdized
Pb2203	0.0339	0.0001	0.9999743	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000251920		0	4.2654e-05
std. 5	5	5.0503	0.0503	1.01	0.17127
std. 10	10	9.9495	-0.0505	-0.505	0.33736

El Name	Slope	Y-int	Correlation	Date Stdized
S_1820	0.0092	0.0020	0.9998011	10/21/08 10:52:28

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00241070		0	0.0020243
std. 10	10	10.439	0.439	4.39	0.097915
std. 5	5	5.0727	0.0727	1.45	0.048633
std. 50	50	49.488	-0.512	-1.02	0.45653

El Name	Slope	Y-int	Correlation	Date Stdized
Sb2175	0.0406	0.0000	0.9999290	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000418230		0	2.376e-05
std. 10	10	9.9164	-0.0836	-0.836	0.40288
std. 5	5	5.0836	0.0836	1.67	0.20656

El Name	Slope	Y-int	Correlation	Date Stdized
Se1960	0.0164	0.0006	0.9999313	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000411440		0	0.00055296
std. 10	10	9.921	-0.079	-0.79	0.16327
std. 5	5	5.0839	0.0839	1.68	0.08394

El Name	Slope	Y-int	Correlation	Date Stdized
Si2516	0.1436	0.0047	0.9999708	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000268310		0	0.0046797
std. 10	10	9.9463	-0.0537	-0.537	1.4332
std. 5	5	5.0537	0.0537	1.07	0.73052

El Name	Slope	Y-int	Correlation	Date Stdized
Sn1899	0.0077	0.0001	0.9999744	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000251010		0	5.2901e-05
std. 10	10	9.9538	-0.0462	-0.462	0.076813
std. 5	5	5.0522	0.0522	1.04	0.039014

El Name	Slope	Y-int	Correlation	Date Stdized
Sr4077	3.3245	-0.0006	0.9999995	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-3.7415e-060		0	-0.0006594
std. 10	1	1.0021	0.0021	0.21	3.3308
std. 5	0.5	0.50217	0.00217	0.435	1.6688

El Name	Slope	Y-int	Correlation	Date Stdized
Ti3349	0.1334	-0.0001	0.9999557	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.0003304	0	0	-7.2002e-05
std. 10	10	10.066	0.0661	0.661	1.3431
std. 5	5	4.9339	-0.0661	-1.32	0.65824

El Name	Slope	Y-int	Correlation	Date Stdized
Tl1908	0.0193	-0.0002	0.9999250	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000429770		0	-0.00019464
std. 10	10	9.914	-0.086	-0.86	0.19099
std. 5	5	5.086	0.086	1.72	0.097889

El Name	Slope	Y-int	Correlation	Date Stdized
V_3102	0.0405	0.0023	0.9999796	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000224560		0	0.0022785
std. 5	5	4.9553	-0.0447	-0.895	0.203
std. 10	10	10.045	0.0453	0.453	0.40919

El Name	Slope	Y-int	Correlation	Date Stdized
Zn2062	0.0522	0.0006	0.9999029	10/21/08 10:47:36

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000489070		0	0.00057005
std. 10	10	9.9026	-0.0974	-0.974	0.51732
std. 5	5	5.098	0.098	1.96	0.26662

Method: MTHD08-1 Sample Name: ICV Operator:
Comment:
Run Time: 10/21/08 10:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.2345	1.940	1.009	.9744
Stddev	.0013	.017	.008	.0293
%RSD	.5662	.8791	.7529	3.012
#1	.2336	1.952	1.003	.9537
#2	.2354	1.928	1.014	.9952

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.9956	2.075	.0503	5.228
Stddev	.0011	.007	.0002	.134
%RSD	.1074	.3621	.3909	2.571
#1	.9963	2.080	.0501	5.133
#2	.9948	2.069	.0504	5.323

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	.5188	.5048	.2079	.2573
Stddev	.0002	.0007	.0002	.0018
%RSD	.0338	.1480	.0843	.7075
#1	.5189	.5042	.2080	.2561
#2	.5187	.5053	.2078	.2586

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	1.026	5.023	1.047	4.870
Stddev	.002	.029	.001	.028
%RSD	.2261	.5866	.1105	.5787
#1	1.025	5.003	1.048	4.850
#2	1.028	5.044	1.046	4.890

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.5040	1.010	10.98	.5118
Stddev	.0007	.007	.01	.0016
%RSD	.1461	.7296	.0760	.3034
#1	.5035	1.005	10.98	.5107
#2	.5045	1.015	10.97	.5129

Sample Name: ICV Run Time: 10/21/08 10:53

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	.9508	1.024	1.007	.9850
Stddev	.0393	.004	.018	.0025
%RSD	4.133	.3968	1.748	.2584
#1	.9230	1.021	.9949	.9832
#2	.9786	1.027	1.020	.9868

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.9891	1.028	.9522	.2107
Stddev	.0171	.003	.0080	.0017
%RSD	1.729	.2787	.8447	.7831
#1	.9770	1.030	.9579	.2119
#2	1.001	1.026	.9465	.2096

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.9520	1.006	.4806	.5065
Stddev	.0098	.009	.0014	.0008
%RSD	1.025	.8999	.2946	.1589
#1	.9589	.9998	.4816	.5071
#2	.9451	1.013	.4796	.5060

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	164.36	93.763
Stddev	.27	.318
%RSD	.16271	.33933
#1	164.55	93.538
#2	164.17	93.988

Method: MTHD08-1 Sample Name: ICB Operator:
Comment:
Run Time: 10/21/08 10:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	-.0030	-.0137	-.0022	.0063
Stddev	.0041	.0159	.0010	.0105
%RSD	134.7	116.0	47.86	166.8
#1	-.0059	-.0249	-.0014	.0138
#2	-.0001	-.0025	-.0029	-.0011

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.0002	-.0005	.0001	.0171
Stddev	.0023	.0002	.0000	.0772
%RSD	1229.	36.02	6.341	452.6
#1	.0018	-.0006	.0001	-.0375
#2	-.0015	-.0003	.0001	.0716

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0007	-.0024	-.0007	-.0022
Stddev	.0003	.0002	.0005	.0002
%RSD	45.02	8.133	72.56	8.904
#1	-.0009	-.0025	-.0003	-.0024
#2	-.0005	-.0022	-.0011	-.0021

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	-.0075	.0421	-.0005	.0034
Stddev	.0006	.0173	.0005	.0030
%RSD	7.884	41.18	107.2	89.70
#1	-.0079	.0543	-.0001	.0012
#2	-.0071	.0298	-.0009	.0055

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	-.0002	-.0016	-.0383	-.0002
Stddev	.0000	.0024	.0008	.0013
%RSD	2.338	151.8	2.069	619.7
#1	-.0002	.0001	-.0389	.0007
#2	-.0002	-.0033	-.0377	-.0011

Sample Name: ICB Run Time: 10/21/08 10:58

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0079	.0009	.0069	.0010
Stddev	.0007	.0011	.0206	.0005
%RSD	9.217	125.9	297.3	46.87
#1	-.0084	.0017	-.0076	.0013
#2	-.0074	.0001	.0215	.0007

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	-.0029	-.0017	.0000	.0001
Stddev	.0047	.0007	.003	.0001
%RSD	159.8	42.63	7155.	169.0
#1	-.0063	-.0022	-.0018	.0001
#2	.0004	-.0012	.0017	.0000

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.0012	.0070	.0008	-.0005
Stddev	.0008	.0008	.0095	.0013
%RSD	61.36	10.71	1135.	265.8
#1	.0018	.0075	-.0059	-.0014
#2	.0007	.0065	.0076	.0004

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	162.92	93.989
Stddev	.08	.066
%RSD	.04772	.07030
#1	162.98	94.036
#2	162.87	93.942

Method: MTHD08-1 Sample Name: ICSA Operator:
Comment:
Run Time: 10/21/08 11:17 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.0033	490.3	-.0189	.0075
Stddev	.0063	1.4	.0078	.0106
%RSD	187.0	.2858	40.94	141.8
#1	-.0011	489.3	-.0244	.0000
#2	.0078	491.3	-.0135	.0150

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	-.0730	-.0007	-.0001	385.3
Stddev	.0005	.0002	.0001	2.7
%RSD	.7283	29.20	111.0	.7119
#1	-.0726	-.0005	-.0001	383.3
#2	-.0733	-.0008	.0000	387.2

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0017	-.0048	-.0025	-.0034
Stddev	.0001	.0010	.0012	.0031
%RSD	3.843	20.92	49.62	90.90
#1	-.0017	-.0041	-.0034	-.0056
#2	-.0016	-.0056	-.0016	-.0012

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	166.0	.0836	.0045	456.0
Stddev	.3	.0613	.0002	.7
%RSD	.1799	73.33	4.631	.1530
#1	165.8	.0403	.0047	455.5
#2	166.2	.1270	.0044	456.5

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	-.0021	-.0286	-.1162	-.0089
Stddev	.0001	.0009	.0001	.0017
%RSD	6.021	3.269	.0882	19.50
#1	-.0022	-.0292	-.1162	-.0077
#2	-.0020	-.0279	-.1163	-.0102

Sample Name: ICSA Run Time: 10/21/08 11:17

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	.0022	-.0206	-.1564	-.0259
Stddev	.0110	.0041	.0160	.0014
%RSD	489.5	19.95	10.24	5.241
#1	-.0055	-.0177	-.1677	-.0269
#2	.0100	-.0235	-.1450	-.0249

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	-.0262	-.0298	-.0428	-.0031
Stddev	.0081	.0002	.0004	.0010
%RSD	30.81	.5879	.8220	30.77
#1	-.0205	-.0296	-.0426	-.0024
#2	-.0320	-.0299	-.0431	-.0038

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	-.0088	-.0257	.0013	-.0100
Stddev	.0002	.0085	.0052	.0003
%RSD	1.837	32.92	410.2	2.796
#1	-.0087	-.0197	.0049	-.0102
#2	-.0089	-.0317	-.0024	-.0098

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	146.52	81.690
Stddev	.55	.150
%RSD	.37321	.18362
#1	146.91	81.796
#2	146.13	81.584

Method: MTHD08-1 Sample Name: ICSAB Operator:
Comment:
Run Time: 10/21/08 11:23 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	1.156	526.4	.9532	1.846
Stddev	.017	7.4	.0037	.023
%RSD	1.426	1.403	.3856	1.224
#1	1.145	521.2	.9558	1.830
#2	1.168	531.7	.9506	1.861

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.9224	.5834	.4870	390.0
Stddev	.0029	.0080	.0023	3.2
%RSD	.3143	1.378	.4620	.8322
#1	.9204	.5777	.4854	387.7
#2	.9245	.5891	.4886	392.3

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	.9274	.4795	.4888	.4953
Stddev	.0042	.0009	.0019	.0026
%RSD	.4548	.1916	.3938	.5248
#1	.9244	.4789	.4875	.4971
#2	.9303	.4802	.4902	.4935

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	170.6	54.62	2.304	482.5
Stddev	2.3	.59	.021	5.8
%RSD	1.350	1.078	.9136	1.213
#1	169.0	54.21	2.289	478.4
#2	172.2	55.04	2.319	486.6

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.4757	.9049	55.19	.9441
Stddev	.0017	.0083	.62	.0059
%RSD	.3589	.9151	1.122	.6211
#1	.4745	.8990	54.76	.9399
#2	.4769	.9107	55.63	.9482

Sample Name: ICSAB Run Time: 10/21/08 11:23

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	2.093	.9225	1.837	.9477
Stddev	.010	.0017	.012	.0004
%RSD	.4742	.1823	.6700	.0396
#1	2.100	.9214	1.829	.9475
#2	2.086	.9237	1.846	.9480

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.8821	-.0039	.9070	1.094
Stddev	.0021	.0005	.0022	.023
%RSD	.2341	12.52	.2435	2.128
#1	.8806	-.0036	.9055	1.077
#2	.8835	-.0043	.9086	1.110

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	1.014	4.333	.5134	.8784
Stddev	.015	.037	.0013	.0044
%RSD	1.515	.8517	.2542	.5005
#1	1.003	4.306	.5125	.8752
#2	1.025	4.359	.5144	.8815

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	145.24	79.965
Stddev	.01	1.017
%RSD	.00398	1.2722
#1	145.24	80.684
#2	145.24	79.245

Method: MTHD08-1 Sample Name: CCV Operator:
Comment:
Run Time: 10/21/08 16:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.7501	10.17	4.904	4.997
Stddev	.0197	.02	.058	.008
%RSD	2.629	.1853	1.181	.1533
#1	.7641	10.16	4.945	4.992
#2	.7362	10.18	4.863	5.002

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	4.930	10.30	.2418	24.70
Stddev	.042	.06	.0032	.33
%RSD	.8474	.5456	1.306	1.330
#1	4.960	10.26	.2440	24.94
#2	4.901	10.34	.2396	24.47

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	2.512	2.523	1.050	1.283
Stddev	.025	.028	.011	.015
%RSD	.9907	1.112	1.036	1.177
#1	2.530	2.543	1.058	1.293
#2	2.495	2.503	1.042	1.272

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	5.039	26.74	5.494	25.82
Stddev	.070	.25	.074	.03
%RSD	1.380	.9475	1.351	.1287
#1	5.088	26.56	5.441	25.84
#2	4.990	26.92	5.546	25.80

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	2.477	5.087	54.95	2.507
Stddev	.031	.022	.46	.034
%RSD	1.258	.4255	.8413	1.348
#1	2.499	5.103	54.62	2.531
#2	2.454	5.072	55.27	2.483

Sample Name: CCV Run Time: 10/21/08 16:48

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	5.495	5.124	5.112	5.041
Stddev	.056	.036	.028	.063
%RSD	1.016	.6955	.5494	1.243
#1	5.535	5.149	5.132	5.086
#2	5.456	5.098	5.092	4.997

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	5.047	5.101	4.942	1.073
Stddev	.027	.034	.052	.004
%RSD	.5337	.6628	1.061	.3854
#1	5.066	5.125	4.979	1.070
#2	5.028	5.077	4.904	1.076

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	4.991	5.190	2.530	2.421
Stddev	.005	.013	.009	.028
%RSD	.1077	.2436	.3689	1.156
#1	4.995	5.199	2.523	2.441
#2	4.988	5.181	2.537	2.401

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	162.15	92.588
Stddev	1.57	.014
%RSD	.97108	.01513
#1	161.04	92.578
#2	163.27	92.598

Method: MTHD08-1 Sample Name: CCB Operator:
Comment:
Run Time: 10/21/08 16:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	-.0020	.0043	-.0027	.0165
Stddev	.0033	.0184	.0014	.0133
%RSD	162.2	425.1	49.80	80.28
#1	-.0044	.0173	-.0037	.0259
#2	.0003	-.0087	-.0018	.0072

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	-.0010	.0004	.0001	.0225
Stddev	.0037	.0008	.0000	.0859
%RSD	356.5	178.9	18.76	381.6
#1	.0016	.0010	.0001	-.0382
#2	-.0036	-.0001	.0001	.0832

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0004	-.0020	-.0015	-.0023
Stddev	.0004	.0011	.0002	.0016
%RSD	106.3	56.54	11.53	71.63
#1	-.0007	-.0028	-.0013	-.0011
#2	-.0001	-.0012	-.0016	-.0034

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	-.0123	-.0589	.0009	.0109
Stddev	.0008	.0219	.0011	.0053
%RSD	6.197	37.13	119.2	49.06
#1	-.0128	-.0743	.0017	.0146
#2	-.0117	-.0434	.0001	.0071

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0004	.0058	-.0379	-.0005
Stddev	.0001	.0055	.0001	.0011
%RSD	35.71	93.55	.2226	225.9
#1	.0003	.0097	-.0379	-.0013
#2	.0005	.0020	-.0378	.0003

Sample Name: CCB Run Time: 10/21/08 16:54

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0342	-.0002	.0070	-.0019
Stddev	.0061	.0014	.0214	.0023
%RSD	17.93	547.4	303.9	116.3
#1	-.0386	-.0012	-.0081	-.0003
#2	-.0299	.0007	.0222	-.0035

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	-.0017	-.0014	-.0025	.0002
Stddev	.0032	.0002	.0035	.0002
%RSD	190.5	16.20	142.0	82.23
#1	-.0040	-.0012	-.0049	.0004
#2	.0006	-.0016	.0000	.0001

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.0015	.0118	.0187	.0035
Stddev	.0001	.0015	.0010	.0013
%RSD	8.209	12.35	5.144	38.04
#1	.0016	.0128	.0180	.0026
#2	.0014	.0107	.0194	.0044

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	164.00	96.089
Stddev	2.98	.191
%RSD	1.8200	.19843
#1	166.12	96.224
#2	161.89	95.954

Method: MTHD08-1 Sample Name: 0810733-02B Operator:
Comment:
Run Time: 10/21/08 17:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	-.0006	.2276	-.0099	.1343
Stddev	.0010	.0075	.0086	.0201
%RSD	155.8	3.300	86.69	14.97
#1	-.0013	.2223	-.0038	.1486
#2	.0001	.2329	-.0160	.1201

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	1.128	.1512	-.0003	77.57
Stddev	.006	.0022	.0000	.07
%RSD	.5656	1.469	9.417	.0883
#1	1.124	.1528	-.0002	77.52
#2	1.133	.1496	-.0003	77.62

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0008	-.0048	.0007	.0041
Stddev	.0003	.0005	.0005	.0002
%RSD	36.76	11.46	79.46	3.743
#1	-.0006	-.0051	.0010	.0042
#2	-.0009	-.0044	.0003	.0040

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	2.499	5.767	.0300	53.45
Stddev	.010	1.042	.0008	.11
%RSD	.3833	18.07	2.535	.2083
#1	2.493	6.504	.0305	53.37
#2	2.506	5.030	.0294	53.53

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0362	.0019	21.15	.0162
Stddev	.0002	.0005	.09	.0010
%RSD	.4805	24.87	.4183	6.100
#1	.0363	.0023	21.21	.0169
#2	.0360	.0016	21.08	.0155

Sample Name: 0810733-02B Run Time: 10/21/08 17:31

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0316	-.0037	30.56	-.0027
Stddev	.0077	.0026	.17	.0005
%RSD	24.21	68.98	.5424	17.57
#1	-.0262	-.0055	30.44	-.0024
#2	-.0371	-.0019	30.68	-.0030

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.0073	18.12	-.0068	.9255
Stddev	.0028	2.52	.0025	.0132
%RSD	38.56	13.90	37.07	1.428
#1	.0053	19.90	-.0050	.9348
#2	.0093	16.34	-.0086	.9161

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	-.0010	.0059	.0125	.0362
Stddev	.0002	.0053	.0022	.0002
%RSD	21.40	88.27	17.87	.5729
#1	-.0008	.0097	.0140	.0361
#2	-.0011	.0022	.0109	.0364

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	162.54	98.143
Stddev	.40	1.438
%RSD	.24407	1.4647
#1	162.26	97.126
#2	162.82	99.159

Method: MTHD08-1 Sample Name: 0810733-03B Operator:
Comment:
Run Time: 10/21/08 17:36 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	-.0063	.3090	-.0164	.1013
Stddev	.0006	.0041	.0013	.0017
%RSD	9.444	1.318	8.118	1.682
#1	-.0059	.3061	-.0154	.1000
#2	-.0067	.3119	-.0173	.1025

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.9026	.1524	-.0003	79.74
Stddev	.0578	.0002	.0000	1.34
%RSD	6.400	.1075	8.518	1.680
#1	.9434	.1525	-.0003	78.79
#2	.8617	.1523	-.0003	80.69

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0006	-.0042	.0012	.0023
Stddev	.0002	.0002	.0001	.0000
%RSD	24.94	3.712	7.688	1.885
#1	-.0008	-.0043	.0011	.0023
#2	-.0005	-.0041	.0012	.0023

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	2.418	4.115	.0285	52.28
Stddev	.017	.134	.0002	.17
%RSD	.6872	3.252	.6414	.3323
#1	2.407	4.209	.0286	52.16
#2	2.430	4.020	.0284	52.40

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0351	.0016	28.91	.0097
Stddev	.0002	.0004	.16	.0013
%RSD	.6489	22.73	.5444	13.08
#1	.0349	.0019	29.02	.0088
#2	.0352	.0014	28.80	.0105

Sample Name: 0810733-03B Run Time: 10/21/08 17:36

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0175	.0003	32.80	-.0044
Stddev	.0014	.0014	.17	.0024
%RSD	8.177	488.4	.5326	54.66
#1	-.0185	-.0007	32.68	-.0027
#2	-.0165	.0013	32.92	-.0061

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.0078	14.08	-.0036	.9712
Stddev	.0024	.15	.0013	.0067
%RSD	31.16	1.069	35.23	.6897
#1	.0095	13.98	-.0045	.9760
#2	.0061	14.19	-.0027	.9665

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.0002	.0005	.0270	.0580
Stddev	.0005	.0038	.0002	.0012
%RSD	253.7	739.5	.8983	2.091
#1	.0005	-.0022	.0272	.0572
#2	-.0002	.0032	.0269	.0589

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	160.48	97.661
Stddev	.10	.251
%RSD	.05929	.25674
#1	160.55	97.484
#2	160.41	97.838

Method: MTHD08-1 Sample Name: 0810733-04B Operator:
Comment:
Run Time: 10/21/08 17:42 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.0006	.2594	-.0076	.0994
Stddev	.0041	.0062	.0042	.0046
%RSD	698.7	2.381	55.98	4.662
#1	-.0023	.2638	-.0105	.0961
#2	.0035	.2550	-.0046	.1027

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.6825	.1518	-.0003	75.57
Stddev	.0233	.0009	.0000	.72
%RSD	3.411	.5767	.7154	.9528
#1	.6990	.1524	-.0003	75.06
#2	.6661	.1512	-.0003	76.08

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0007	-.0041	.0004	.0050
Stddev	.0003	.0005	.0001	.0016
%RSD	44.61	11.35	15.05	32.51
#1	-.0009	-.0038	.0004	.0038
#2	-.0005	-.0044	.0005	.0061

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	2.466	3.542	.0317	55.89
Stddev	.017	.062	.0006	.26
%RSD	.6714	1.764	1.869	.4629
#1	2.454	3.586	.0321	55.71
#2	2.478	3.498	.0313	56.08

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0358	.0016	22.75	.0140
Stddev	.0004	.0011	.03	.0002
%RSD	1.142	67.05	.1447	1.250
#1	.0355	.0024	22.77	.0142
#2	.0361	.0008	22.73	.0139

Sample Name: 0810733-04B Run Time: 10/21/08 17:42

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0302	.0003	30.40	-.0012
Stddev	.0044	.0026	.29	.0005
%RSD	14.64	779.0	.9521	41.05
#1	-.0333	-.0015	30.19	-.0008
#2	-.0271	.0022	30.60	-.0015

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.0052	13.70	-.0056	.9377
Stddev	.0055	.37	.0003	.0084
%RSD	106.0	2.732	5.672	.8996
#1	.0091	13.44	-.0059	.9436
#2	.0013	13.97	-.0054	.9317

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	-.0010	.0005	.0185	.0368
Stddev	.0010	.0008	.0117	.0006
%RSD	94.74	153.0	63.25	1.687
#1	-.0003	.0011	.0268	.0372
#2	-.0017	.0000	.0102	.0363

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	160.61	97.339
Stddev	.58	.671
%RSD	.36264	.68901
#1	161.03	96.865
#2	160.20	97.813

Method: MTHD08-1 Sample Name: CCV Operator:
Comment:
Run Time: 10/21/08 17:47 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.6660	10.71	5.215	5.101
Stddev	.0172	.07	.035	.005
%RSD	2.583	.6134	.6769	.0949
#1	.6782	10.66	5.240	5.105
#2	.6539	10.76	5.190	5.098

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	5.608	10.60	.2464	24.91
Stddev	.031	.06	.0022	.16
%RSD	.5511	.5428	.9095	.6566
#1	5.630	10.56	.2480	25.02
#2	5.586	10.64	.2449	24.79

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	2.599	2.594	1.061	1.366
Stddev	.025	.024	.011	.007
%RSD	.9492	.9093	1.010	.4882
#1	2.616	2.611	1.069	1.371
#2	2.581	2.577	1.054	1.362

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	5.187	31.48	6.594	29.26
Stddev	.051	.09	.011	.08
%RSD	.9775	.2851	.1687	.2614
#1	5.223	31.55	6.602	29.31
#2	5.152	31.42	6.586	29.20

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	2.549	5.232	64.52	2.602
Stddev	.027	.035	.01	.023
%RSD	1.059	.6673	.0194	.8728
#1	2.568	5.257	64.51	2.618
#2	2.530	5.208	64.53	2.586

Sample Name: CCV Run Time: 10/21/08 17:47

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	5.782	5.307	5.226	5.441
Stddev	.066	.057	.026	.042
%RSD	1.149	1.083	.4906	.7629
#1	5.829	5.347	5.244	5.471
#2	5.735	5.266	5.208	5.412

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	5.365	8.236	5.065	1.087
Stddev	.030	.362	.036	.001
%RSD	.5653	4.398	.7119	.1129
#1	5.387	8.492	5.090	1.086
#2	5.344	7.980	5.039	1.088

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	4.892	5.498	2.460	2.405
Stddev	.004	.017	.005	.025
%RSD	.0918	.3037	.2090	1.046
#1	4.889	5.510	2.463	2.422
#2	4.896	5.487	2.456	2.387

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	167.63	101.51
Stddev	.71	.18
%RSD	.42372	.17766
#1	167.13	101.64
#2	168.14	101.39

Method: MTHD08-1 Sample Name: CCB Operator:
Comment:
Run Time: 10/21/08 17:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	-.0026	.0009	-.0023	.0318
Stddev	.0048	.0029	.0027	.0183
%RSD	188.1	323.9	116.1	57.53
#1	-.0060	.0029	-.0004	.0448
#2	.0008	-.0011	-.0042	.0189

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.2796	.0003	.0001	-.0340
Stddev	.0104	.0006	.0000	.0674
%RSD	3.715	254.3	17.27	198.1
#1	.2870	.0007	.0001	-.0817
#2	.2723	-.0002	.0001	.0136

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0004	-.0024	-.0011	-.0013
Stddev	.0001	.0001	.0003	.0010
%RSD	31.84	3.858	28.41	78.72
#1	-.0005	-.0025	-.0013	-.0019
#2	-.0003	-.0023	-.0009	-.0006

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	-.0072	.4961	.0013	.0141
Stddev	.0000	.0361	.0014	.0007
%RSD	.1204	7.267	101.2	5.030
#1	-.0072	.5216	.0023	.0146
#2	-.0072	.4706	.0004	.0136

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0003	.0057	.1697	.0009
Stddev	.0000	.0069	.0175	.0011
%RSD	13.41	121.2	10.28	127.4
#1	.0002	.0105	.1821	.0001
#2	.0003	.0008	.1574	.0016

Sample Name: CCB Run Time: 10/21/08 17:52

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0445	.0011	-.0134	.0000
Stddev	.0119	.0039	.0172	.0017
%RSD	26.72	340.1	128.6	6705.
#1	-.0529	-.0016	-.0255	-.0012
#2	-.0361	.0039	-.0012	.0012

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.0206	2.019	-.0057	.0004
Stddev	.0051	.136	.0009	.0001
%RSD	24.53	6.725	15.72	15.77
#1	.0170	2.115	-.0063	.0004
#2	.0242	1.923	-.0050	.0003

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.0007	.0037	.0102	-.0005
Stddev	.0011	.0043	.0064	.0001
%RSD	161.3	115.6	62.53	21.70
#1	.0015	.0067	.0057	-.0006
#2	-.0001	.0007	.0147	-.0005

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	173.82	103.45
Stddev	1.20	.64
%RSD	.69068	.61725
#1	174.67	103.90
#2	172.97	103.00

Method: MTHD08-1 Sample Name: Blank Operator:
Comment:
Run Time: 10/22/08 11:21 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0008	.0008	.0000	.0000
Stddev	.0001	.0001	.0000	.0000
%RSD	16.58	14.31	48.26	157.4
#1	-.0007	.0007	.0001	.0000
#2	-.0009	.0009	.0000	.0001

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0098	.0011	-.0033	.0049
Stddev	.0001	.0000	.0001	.0003
%RSD	.9738	.9343	2.163	5.125
#1	.0098	.0011	-.0033	.0047
#2	.0097	.0011	-.0034	.0051

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	.0009	.0002	.0003
Stddev	.0001	.0000	.0001	.0000
%RSD	28.50	4.434	27.07	5.507
#1	.0003	.0009	.0002	.0003
#2	.0005	.0009	.0003	.0003

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0038	.0041	-.0009	-.0001
Stddev	.0001	.0004	.0009	.0000
%RSD	2.117	10.06	98.28	7.414
#1	.0037	.0044	-.0003	-.0001
#2	.0039	.0038	-.0016	-.0001

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0015	.0007	-.0406	-.0001
Stddev	.0001	.0001	.0053	.0001
%RSD	5.207	16.03	13.14	78.66
#1	.0015	.0008	-.0444	-.0002
#2	.0016	.0006	-.0368	-.0001

Sample Name: Blank Run Time: 10/22/08 11:21

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	.0000	.0022	-.0002
Stddev	.0000	.0000	.0002	.0002
%RSD	1.266	547.3	8.826	108.3
#1	.0006	.0000	.0021	.0000
#2	.0006	.0000	.0024	-.0003

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	.0112	.0001	.0002
Stddev	.0001	.0004	.0000	.0004
%RSD	19.17	3.390	35.48	168.5
#1	.0005	.0115	.0001	.0005
#2	.0004	.0109	.0002	.0000

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0002	-.0001	.0029	.0006
Stddev	.0001	.0000	.0000	.0002
%RSD	41.84	18.96	.2646	27.23
#1	-.0001	-.0001	.0029	.0005
#2	-.0002	-.0002	.0029	.0007

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	165.27	107.48
Stddev	2.08	.29
%RSD	1.2600	.27306
#1	163.79	107.68
#2	166.74	107.27

Method: MTHD08-1 Sample Name: std. 5 Operator:
Comment:
Run Time: 10/22/08 11:26 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0060	.0878	.0977	.1834
Stddev	.0003	.0002	.0004	.0013
%RSD	4.525	.1751	.4541	.6942
#1	.0059	.0879	.0980	.1825
#2	.0062	.0877	.0973	.1843

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.182	6.258	.8826	.0318
Stddev	.003	.001	.0051	.0003
%RSD	.2154	.0085	.5771	1.027
#1	1.183	6.257	.8862	.0316
#2	1.180	6.258	.8790	.0321

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.588	1.564	.8518	.3410
Stddev	.006	.006	.0012	.0017
%RSD	.2349	.3721	.1365	.4993
#1	2.593	1.568	.8526	.3422
#2	2.584	1.560	.8510	.3398

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8374	.5730	8.144	.0743
Stddev	.0016	.0031	.015	.0001
%RSD	.1908	.5420	.1815	.1462
#1	.8386	.5752	8.155	.0743
#2	.8363	.5708	8.134	.0742

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6918	1.026	7.158	.3508
Stddev	.0015	.000	.028	.0010
%RSD	.2118	.0004	.3940	.2947
#1	.6928	1.026	7.178	.3515
#2	.6908	1.026	7.138	.3501

Sample Name: std. 5 Run Time: 10/22/08 11:26

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0412	.1778	.0482	.2232
Stddev	.0002	.0008	.0002	.0009
%RSD	.4449	.4370	.3609	.4102
#1	.0413	.1783	.0481	.2239
#2	.0411	.1772	.0483	.2226

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0822	.7614	.0401	1.745
Stddev	.0004	.0027	.0001	.000
%RSD	.4798	.3501	.2978	.0253
#1	.0825	.7633	.0400	1.745
#2	.0820	.7595	.0401	1.745

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6325	.1072	.1928	.2539
Stddev	.0009	.0001	.0001	.0013
%RSD	.1416	.0899	.0268	.5125
#1	.6332	.1072	.1929	.2548
#2	.6319	.1071	.1928	.2530

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	164.74	106.51
Stddev	.67	.21
%RSD	.40876	.19288
#1	164.26	106.36
#2	165.21	106.65

Method: MTHD08-1 Sample Name: std. 10 Operator:
Comment:
Run Time: 10/22/08 11:30 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0149	.1726	.1919	.3737
Stddev	.0005	.0036	.0032	.0027
%RSD	3.169	2.109	1.653	.7237
#1	.0152	.1751	.1942	.3756
#2	.0145	.1700	.1897	.3718

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.320	12.15	1.726	.0567
Stddev	.039	.25	.031	.0007
%RSD	1.694	2.059	1.774	1.196
#1	2.347	12.33	1.748	.0572
#2	2.292	11.97	1.705	.0562

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.069	3.078	1.666	.6630
Stddev	.080	.043	.025	.0131
%RSD	1.575	1.390	1.485	1.975
#1	5.126	3.109	1.684	.6722
#2	5.013	3.048	1.649	.6537

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.635	1.131	16.18	.1520
Stddev	.027	.017	.30	.0022
%RSD	1.667	1.501	1.846	1.420
#1	1.655	1.143	16.39	.1535
#2	1.616	1.119	15.97	.1504

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.356	2.030	14.70	.6806
Stddev	.025	.024	.11	.0123
%RSD	1.836	1.184	.7237	1.812
#1	1.374	2.047	14.63	.6893
#2	1.339	2.013	14.78	.6719

Sample Name: std. 10 Run Time: 10/22/08 11:30

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0819	.3506	.0945	.4345
Stddev	.0016	.0056	.0017	.0085
%RSD	1.904	1.585	1.758	1.956
#1	.0830	.3545	.0957	.4405
#2	.0808	.3467	.0934	.4284

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1617	1.494	.0793	3.417
Stddev	.0021	.017	.0012	.070
%RSD	1.272	1.103	1.549	2.039
#1	.1632	1.505	.0801	3.466
#2	.1603	1.482	.0784	3.368

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.268	.2062	.3892	.4882
Stddev	.018	.0034	.0079	.0076
%RSD	1.382	1.639	2.021	1.553
#1	1.281	.2086	.3947	.4936
#2	1.256	.2038	.3836	.4829

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	162.66	107.24
Stddev	1.82	1.82
%RSD	1.1175	1.6986
#1	161.37	105.95
#2	163.94	108.53

Method: MTHD08-1 Sample Name: std. 50 Operator:
Comment:
Run Time: 10/22/08 11:35 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	P_1782	S_1820
Line	178.287 {188}	182.034 {184}
Units	Cts/S	Cts/S
Avg	.3683	.4523
Stddev	.0037	.0030
%RSD	1.007	.6585
#1	.3656	.4502
#2	.3709	.4544

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	167.83	107.81
Stddev	1.49	.02
%RSD	.88633	.02046
#1	168.88	107.79
#2	166.78	107.82

El Name	Slope	Y-int	Correlation	Date Stdized
Ag3280	0.0150	-0.0008	0.9980646	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000218650		0	-0.0008059
std. 10	1	1.0437	0.0437	4.37	0.014877
std. 5	0.5	0.45627	-0.0437	-8.75	0.0060483

El Name	Slope	Y-int	Correlation	Date Stdized
Al3961	0.0173	0.0008	0.9999814	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000214040		0	0.00078004
std. 10	10	9.9572	-0.0428	-0.428	0.17255
std. 5	5	5.0428	0.0428	0.856	0.087775

El Name	Slope	Y-int	Correlation	Date Stdized
As1890	0.0193	0.0000	0.9999657	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000290820		0	4.0448e-05
std. 10	10	9.9412	-0.0588	-0.588	0.19191
std. 5	5	5.0578	0.0578	1.16	0.09766

El Name	Slope	Y-int	Correlation	Date Stdized
Au2082	0.0371	0.0000	0.9999620	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.0003059	0	0	2.9945e-05
std. 10	10	10.061	0.0612	0.612	0.37369
std. 5	5	4.9388	-0.0612	-1.22	0.18344

El Name	Slope	Y-int	Correlation	Date Stdized
B_2496	0.2321	0.0098	0.9999760	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000243310		0	0.0097658
std. 10	10	9.9513	-0.0487	-0.487	2.3196
std. 5	5	5.0487	0.0487	0.973	1.1817

El Name	Slope	Y-int	Correlation	Date Stdized
Ba4554	1.2269	0.0017	0.9999006	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000494680		0	0.0010898
std. 10	10	9.9011	-0.0989	-0.989	12.15
std. 5	5	5.099	0.099	1.98	6.2578

El Name	Slope	Y-int	Correlation	Date Stdized
Be2348	6.9608	-0.0033	0.9999347	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-1.0048e-050		0	-0.0033263
std. 10	0.25	0.24849	-0.00151	-0.604	1.7264
std. 5	0.125	0.12726	0		0.88257

El Name	Slope	Y-int	Correlation	Date Stdized
Ca1840	0.0052	0.0049	0.9998291	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00064880		0	0.0049079
std. 10	10	9.8702	-0.13	-1.3	0.05671
std. 5	5	5.1298	0.13	2.6	0.031832

El Name	Slope	Y-int	Correlation	Date Stdized
Cd2265	0.5103	0.0006	0.9999503	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000349770		0	0.00039916
std. 10	10	9.9331	-0.0669	-0.669	5.0692
std. 5	5	5.0715	0.0715	1.43	2.5884

El Name	Slope	Y-int	Correlation	Date Stdized
Co2286	0.3094	0.0010	0.9999714	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000265510		0	0.00091712
std. 10	10	9.9471	-0.0529	-0.529	3.0783
std. 5	5	5.0532	0.0532	1.06	1.5643

El Name	Slope	Y-int	Correlation	Date Stdized
Cr2061	0.1678	0.0003	0.9999452	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000367410		0	0.00021805
std. 10	10	9.9264	-0.0736	-0.736	1.6663
std. 5	5	5.0734	0.0734	1.47	0.85178

El Name	Slope	Y-int	Correlation	Date Stdized
Cu2247	0.0668	0.0004	0.9999117	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000466770		0	0.00033615
std. 10	10	9.9125	-0.0875	-0.875	0.66295
std. 5	5	5.0963	0.0963	1.93	0.34102

El Name	Slope	Y-int	Correlation	Date Stdized
Fe2404	0.1643	0.0039	0.9999472	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000360540		0	0.0037933
std. 10	10	9.9279	-0.0721	-0.721	1.6355
std. 5	5	5.0721	0.0721	1.44	0.83743

El Name	Slope	Y-int	Correlation	Date Stdized
K_7664	0.0113	0.0041	0.9999885	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00168260		0	0.0040752
std. 10	100	99.663	-		..1306

std. 5	50	50.337	0.337	0.673	0.57304

El Name	Slope	Y-int	Correlation	Date Stdized
Li6707	1.6215	-0.0008	0.9999945	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000116450		0	-0.00094639
std. 5	5	5.0233	0.0233	0.466	8.1445
std. 10	10	9.9767	-0.0233	-0.233	16.176

El Name	Slope	Y-int	Correlation	Date Stdized
Mg2852	0.0151	-0.0001	0.9999432	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000373980		0	-7.729e-05
std. 10	10	10.075	0.0748	0.748	0.15197
std. 5	5	4.9252	-0.0748	-1.5	0.074251

El Name	Slope	Y-int	Correlation	Date Stdized
Mn2576	1.3630	0.0016	0.9999602	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-3.1291e-050		0	0.0015419
std. 10	1	0.99401	-0.00599	-0.599	1.3564
std. 5	0.5	0.50639	0.00639	1.28	0.69179

El Name	Slope	Y-int	Correlation	Date Stdized
Mo2020	0.2036	0.0007	0.9999874	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000175870		0	0.00067611
std. 10	10	9.9651	-0.0349	-0.349	2.0299
std. 5	5	5.0353	0.0353	0.706	1.026

El Name	Slope	Y-int	Correlation	Date Stdized
Na5889	0.1463	-0.0412	0.9999378	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.0039129	0	0	-0.040617
std. 10	100	100.78	0.783	0.783	14.701
std. 5	50	49.217	-0.783	-1.57	7.1583

El Name	Slope	Y-int	Correlation	Date Stdized
Ni2216	0.0688	-0.0001	0.9998937	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000511710		0	-0.00013509
std. 5	5	5.1023	0.102	2.05	0.3508
std. 10	10	9.8977	-0.102	-1.02	0.68059

El Name	Slope	Y-int	Correlation	Date Stdized
P_1782	0.0075	0.0006	0.9990652	10/22/08 11:39:53

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00664320		0	0.00059147
std. 10	10	10.789	0.789	7.89	0.081882
std. 50	50	48.823	-1.18	-2.35	0.36827
std. 5	5	5.3874	0.387	7.75	0.041207

El Name	Slope	Y-int	Correlation	Date Stdized
Pb2203	0.0352	0.0000	0.9999782	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000231490		0	6.962e-06
std. 5	5	5.0461	0.0461	0.921	0.17776
std. 10	10	9.9533	-0.0467	-0.467	0.35062

El Name	Slope	Y-int	Correlation	Date Stdized
S_1820	0.0091	0.0022	0.9999468	10/22/08 11:39:53

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.00152490		0	0.0022132
std. 10	10	10.198	0.198	1.98	0.094541
std. 5	5	5.0812	0.0812	1.62	0.048221
std. 50	50	49.72	-0.28	-0.559	0.45228

El Name	Slope	Y-int	Correlation	Date Stdized
Sb2175	0.0439	-0.0002	0.9999134	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000461870		0	-0.00017355
std. 10	10	9.9076	-0.0924	-0.924	0.43446
std. 5	5	5.0924	0.0924	1.85	0.22323

El Name	Slope	Y-int	Correlation	Date Stdized
Se1960	0.0162	0.0005	0.9999782	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000231580		0	0.00047775
std. 10	10	9.9576	-0.0424	-0.424	0.16175
std. 5	5	5.0483	0.0483	0.965	0.082239

El Name	Slope	Y-int	Correlation	Date Stdized
Si2516	0.1488	0.0112	0.9999838	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000199740		0	0.011186
std. 10	10	9.9601	-0.0399	-0.399	1.4937
std. 5	5	5.0399	0.0399	0.799	0.76137

El Name	Slope	Y-int	Correlation	Date Stdized
Sn1899	0.0079	0.0001	0.9999911	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000148570		0	0.00013579
std. 10	10	9.9743	-0.0257	-0.257	0.07928
std. 5	5	5.0317	0.0317	0.634	0.040062

El Name	Slope	Y-int	Correlation	Date Stdized
Sr4077	3.4300	0.0003	0.9999490	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-3.5564e-050		0	0.00021645
std. 10	1	0.99604	-0.00396	-0.396	3.4168
std. 5	0.5	0.50869	0.00869	1.74	1.7451

El Name	Slope	Y-int	Correlation	Date Stdized
Ti3349	0.1268	-0.0002	0.9999993	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	4.1711e-050		0	-0.0001757
std. 10	10	10.008	0.00834	0.0834	1.2684
std. 5	5	4.9917	-0.00834	-0.167	0.63253

El Name	Slope	Y-int	Correlation	Date Stdized
Tl1908	0.0209	-0.0001	0.9998229	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000660560		0	-0.00014097
std. 10	10	9.8679	-0.132	-1.32	0.20618
std. 5	5	5.1321	0.132	2.64	0.10717

El Name	Slope	Y-int	Correlation	Date Stdized
V_3102	0.0384	0.0029	0.9999685	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	0.000278540		0	0.0029337
std. 5	5	4.9445	-0.0555	-1.11	0.19285
std. 10	10	10.056	0.0561	0.561	0.38919

El Name	Slope	Y-int	Correlation	Date Stdized
Zn2062	0.0494	0.0006	0.9998336	10/22/08 11:35:13

Standard Name	Concentration Stated	Concentration Found	Difference Conc	Difference %	Signal (S)IR
Blank	0	-0.000640310		0	0.00058369
std. 10	10	9.8723	-0.128	-1.28	0.48822
std. 5	5	5.1283	0.128	2.57	0.25391

Method: MTHD08-1 Sample Name: ICV Operator:
Comment:
Run Time: 10/22/08 11:41 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.2337	1.974	1.009	.9750
Stddev	.0134	.007	.005	.0372
%RSD	5.716	.3389	.5424	3.811
#1	.2243	1.979	1.005	.9487
#2	.2432	1.970	1.013	1.001

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.9911	2.107	.0503	5.300
Stddev	.0022	.003	.0002	.056
%RSD	.2259	.1260	.3395	1.056
#1	.9926	2.105	.0502	5.261
#2	.9895	2.109	.0504	5.340

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	.5212	.5109	.2090	.2602
Stddev	.0006	.0002	.0005	.0009
%RSD	.1175	.0309	.2496	.3332
#1	.5216	.5110	.2086	.2596
#2	.5207	.5108	.2094	.2608

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	1.037	5.079	1.074	4.890
Stddev	.000	.021	.004	.025
%RSD	.0116	.4050	.3959	.5071
#1	1.037	5.093	1.077	4.872
#2	1.037	5.064	1.071	4.907

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.5043	1.022	10.85	.5183
Stddev	.0003	.002	.03	.0020
%RSD	.0626	.2384	.2796	.3881
#1	.5046	1.020	10.83	.5197
#2	.5041	1.023	10.87	.5169

Sample Name: ICV Run Time: 10/22/08 11:41

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	1.092	1.031	.9897	.9978
Stddev	.002	.004	.0212	.0060
%RSD	.1519	.4363	2.145	.6045
#1	1.090	1.028	.9746	.9936
#2	1.093	1.035	1.005	1.002

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	1.007	1.020	.9775	.2146
Stddev	.001	.003	.0027	.0004
%RSD	.1376	.3134	.2780	.1969
#1	1.008	1.022	.9755	.2143
#2	1.006	1.017	.9794	.2149

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.9797	1.039	.4721	.5102
Stddev	.0004	.015	.0081	.0018
%RSD	.0364	1.465	1.706	.3568
#1	.9800	1.028	.4664	.5115
#2	.9795	1.050	.4778	.5089

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	166.81	106.55
Stddev	.06	.07
%RSD	.03455	.06963
#1	166.85	106.60
#2	166.77	106.50

Method: MTHD08-1 Sample Name: ICB Operator:
Comment:
Run Time: 10/22/08 11:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.0041	.0223	.0024	.0110
Stddev	.0031	.0159	.0043	.0085
%RSD	74.13	71.49	180.8	77.35
#1	.0020	.0335	-.0007	.0171
#2	.0063	.0110	.0055	.0050

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.0004	.0001	.0000	-.0201
Stddev	.0015	.0005	.0000	.0512
%RSD	344.9	321.9	96.77	255.0
#1	.0015	.0005	.0000	-.0563
#2	-.0006	-.0002	.0000	.0161

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0005	-.0006	-.0011	-.0003
Stddev	.0005	.0002	.0007	.0007
%RSD	87.68	28.11	61.66	218.2
#1	-.0009	-.0005	-.0006	-.0008
#2	-.0002	-.0008	-.0016	.0002

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	-.0005	-.0465	.0004	.0007
Stddev	.0007	.0377	.0002	.0037
%RSD	134.0	81.09	65.47	558.1
#1	-.0010	-.0199	.0002	-.0020
#2	.0000	-.0732	.0006	.0033

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	-.0001	.0062	-.0146	.0002
Stddev	.0000	.0014	.0237	.0006
%RSD	3.062	22.66	162.5	403.2
#1	-.0001	.0073	.0022	-.0003
#2	-.0001	.0052	-.0314	.0006

Sample Name: ICB Run Time: 10/22/08 11:46

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0031	.0020	-.0009	.0060
Stddev	.0072	.0031	.0099	.0009
%RSD	234.3	158.7	1074.	15.88
#1	.0020	.0042	-.0079	.0053
#2	-.0081	-.0002	.0061	.0067

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.0029	-.0119	.0002	.0001
Stddev	.0039	.0025	.0070	.0000
%RSD	133.8	21.14	3069.	25.33
#1	.0002	-.0101	-.0047	.0001
#2	.0057	-.0137	.0052	.0001

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.0009	.0037	-.0042	-.0016
Stddev	.0002	.0007	.0025	.0004
%RSD	24.86	17.83	58.59	24.28
#1	.0008	.0042	-.0025	-.0019
#2	.0011	.0032	-.0060	-.0013

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	167.92	106.98
Stddev	.66	.28
%RSD	.39074	.25817
#1	167.46	106.79
#2	168.39	107.18

Method: MTHD08-1 Sample Name: ICSA Operator:
Comment:
Run Time: 10/22/08 11:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	-.0093	508.8	-.0173	.0139
Stddev	.0270	19.7	.0009	.0071
%RSD	291.0	3.868	5.070	50.73
#1	.0098	522.7	-.0180	.0189
#2	-.0284	494.9	-.0167	.0089

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	-.0656	-.0010	.0000	374.8
Stddev	.0012	.0000	.000	8.6
%RSD	1.772	2.651	129.5	2.294
#1	-.0648	-.0011	-.0001	368.7
#2	-.0665	-.0010	.0000	380.9

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0003	-.0036	-.0011	-.0130
Stddev	.0004	.0008	.0011	.0009
%RSD	122.5	21.63	104.0	6.868
#1	-.0006	-.0041	-.0018	-.0137
#2	.0000	-.0030	-.0003	-.0124

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	164.0	-.0107	.0042	451.9
Stddev	3.1	.0051	.0007	6.1
%RSD	1.898	47.57	17.11	1.340
#1	161.8	-.0071	.0047	447.6
#2	166.2	-.0143	.0037	456.2

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	-.0018	-.0196	-.0760	-.0067
Stddev	.0001	.0000	.0083	.0002
%RSD	3.074	.1083	10.86	2.570
#1	-.0017	-.0196	-.0819	-.0069
#2	-.0018	-.0196	-.0702	-.0066

Sample Name: ICSA Run Time: 10/22/08 11:58

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	.0374	-.0029	-.1821	-.0228
Stddev	.0143	.0012	.0047	.0040
%RSD	38.30	40.08	2.557	17.56
#1	.0476	-.0021	-.1854	-.0200
#2	.0273	-.0037	-.1788	-.0256

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	-.0462	-.0408	-.0400	-.0081
Stddev	.0211	.0007	.0022	.0053
%RSD	45.61	1.802	5.522	66.04
#1	-.0611	-.0413	-.0384	-.0043
#2	-.0313	-.0403	-.0415	-.0118

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	-.0042	-.0229	-.0139	-.0148
Stddev	.0009	.0044	.0015	.0031
%RSD	21.47	19.03	11.09	20.95
#1	-.0036	-.0198	-.0150	-.0126
#2	-.0049	-.0260	-.0128	-.0170

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	145.99	92.450
Stddev	2.50	2.624
%RSD	1.7090	2.8384
#1	147.75	90.595
#2	144.22	94.306

Method: MTHD08-1 Sample Name: ICSAB Operator:
Comment:
Run Time: 10/22/08 12:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	1.249	427.4	.9498	1.816
Stddev	.024	.0	.0037	.027
%RSD	1.905	.0069	.3932	1.503
#1	1.266	427.4	.9524	1.796
#2	1.232	427.4	.9472	1.835

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.9446	.5986	.4912	310.3
Stddev	.0010	.0025	.0015	.8
%RSD	.1041	.4093	.3126	.2450
#1	.9453	.6003	.4901	310.9
#2	.9439	.5969	.4923	309.8

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	.9323	.4826	.4916	.4803
Stddev	.0023	.0011	.0010	.0031
%RSD	.2471	.2347	.1969	.6529
#1	.9340	.4818	.4910	.4825
#2	.9307	.4834	.4923	.4780

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	138.4	57.74	2.271	376.1
Stddev	.4	.16	.005	4.1
%RSD	.2873	.2780	.2394	1.093
#1	138.1	57.63	2.267	373.2
#2	138.7	57.86	2.275	379.0

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.4766	.9268	53.46	.9422
Stddev	.0006	.0044	.24	.0013
%RSD	.1172	.4712	.4521	.1367
#1	.4770	.9237	53.29	.9413
#2	.4762	.9298	53.63	.9431

Sample Name: ICSAB Run Time: 10/22/08 12:08

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	2.072	.9448	1.856	.9616
Stddev	.012	.0030	.048	.0033
%RSD	.5617	.3157	2.602	.3448
#1	2.080	.9427	1.890	.9593
#2	2.064	.9469	1.822	.9640

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.8826	-.0157	.9060	1.129
Stddev	.0097	.0014	.0229	.011
%RSD	1.101	9.194	2.532	.9921
#1	.8895	-.0147	.9222	1.137
#2	.8757	-.0167	.8898	1.121

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	1.040	4.283	.5178	.8820
Stddev	.000	.006	.0001	.0019
%RSD	.0384	.1460	.0197	.2179
#1	1.039	4.279	.5177	.8807
#2	1.040	4.288	.5178	.8834

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	150.03	92.222
Stddev	.34	.394
%RSD	.22498	.42730
#1	150.27	91.944
#2	149.79	92.501

Method: MTHD08-1 Sample Name: CCV Operator:
Comment:
Run Time: 10/22/08 14:33 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	1.506	10.33	4.805	4.969
Stddev	.040	.08	.060	.032
%RSD	2.623	.7586	1.243	.6435
#1	1.478	10.28	4.847	4.947
#2	1.534	10.39	4.763	4.992

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	5.128	10.58	.2357	24.32
Stddev	.062	.02	.0026	.32
%RSD	1.203	.1615	1.120	1.326
#1	5.171	10.57	.2375	24.55
#2	5.084	10.59	.2338	24.10

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	2.511	2.503	1.043	1.274
Stddev	.034	.035	.011	.011
%RSD	1.338	1.416	1.079	.8404
#1	2.535	2.528	1.051	1.282
#2	2.487	2.478	1.035	1.267

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	5.034	28.16	5.625	25.73
Stddev	.055	.22	.082	.22
%RSD	1.086	.7891	1.448	.8418
#1	5.072	28.00	5.567	25.89
#2	4.995	28.31	5.682	25.58

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	2.460	5.086	53.40	2.489
Stddev	.025	.026	.34	.031
%RSD	1.034	.5206	.6296	1.233
#1	2.478	5.104	53.16	2.511
#2	2.442	5.067	53.64	2.467

Sample Name: CCV Run Time: 10/22/08 14:33

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	5.369	5.079	4.956	4.987
Stddev	.060	.051	.058	.048
%RSD	1.115	1.004	1.179	.9565
#1	5.411	5.115	4.998	5.021
#2	5.326	5.043	4.915	4.953

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	5.043	6.304	4.889	1.087
Stddev	.021	.092	.054	.008
%RSD	.4182	1.465	1.114	.7280
#1	5.058	6.369	4.927	1.082
#2	5.028	6.239	4.850	1.093

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	5.067	5.158	2.508	2.407
Stddev	.026	.039	.015	.037
%RSD	.5076	.7589	.5830	1.560
#1	5.048	5.186	2.498	2.433
#2	5.085	5.131	2.518	2.380

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	166.49	106.58
Stddev	1.64	.67
%RSD	.98274	.62406
#1	165.33	107.05
#2	167.64	106.11

Method: MTHD08-1 Sample Name: CCB Operator:
Comment:
Run Time: 10/22/08 14:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.0153	-.0063	.0015	.0076
Stddev	.0055	.0015	.0003	.0034
%RSD	35.79	23.88	17.18	45.04
#1	.0192	-.0052	.0013	.0100
#2	.0115	-.0073	.0016	.0052

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.1800	-.0002	.0001	-.0324
Stddev	.0035	.0002	.0000	.0789
%RSD	1.960	130.4	43.74	243.2
#1	.1825	-.0004	.0000	-.0882
#2	.1775	.0000	.0001	.0233

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0008	-.0009	-.0004	-.0003
Stddev	.0001	.0004	.0004	.0001
%RSD	16.43	45.40	96.79	39.00
#1	-.0009	-.0006	-.0007	-.0004
#2	-.0007	-.0012	-.0001	-.0002

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	.0026	.3716	.0000	-.0052
Stddev	.0000	.0717	.000	.0012
%RSD	.0646	19.31	1471.	22.58
#1	.0026	.3208	-.0001	-.0060
#2	.0026	.4223	.0001	-.0044

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	-.0001	.0048	.0114	.0009
Stddev	.0000	.0002	.0013	.0014
%RSD	12.11	3.552	11.66	149.3
#1	-.0001	.0049	.0104	.0019
#2	-.0001	.0047	.0123	-.0001

Sample Name: CCB Run Time: 10/22/08 14:51

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0197	.0018	.0030	.0017
Stddev	.0004	.0028	.0236	.0000
%RSD	1.860	153.5	779.3	.3724
#1	-.0194	.0038	-.0136	.0017
#2	-.0199	-.0002	.0197	.0017

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	-.0003	.8528	-.0020	.0000
Stddev	.0027	.0568	.0008	.0001
%RSD	1031.	6.665	39.83	3692.
#1	.0017	.8930	-.0015	.0001
#2	-.0022	.8127	-.0026	-.0001

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.0014	-.0018	-.0065	-.0033
Stddev	.0010	.0019	.0031	.0007
%RSD	75.45	108.6	46.81	20.05
#1	.0021	-.0031	-.0044	-.0028
#2	.0006	-.0004	-.0087	-.0038

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	172.22	109.31
Stddev	.62	.70
%RSD	.36018	.63625
#1	172.66	108.81
#2	171.78	109.80

Method: MTHD08-1 Sample Name: MB1017-8 Operator:
Comment:
Run Time: 10/22/08 14:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.0067	-.0127	-.0064	.0086
Stddev	.0053	.0045	.0037	.0029
%RSD	78.49	35.37	57.19	34.31
#1	.0105	-.0095	-.0038	.0065
#2	.0030	-.0159	-.0090	.0107

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.1975	.0017	-.0003	.0371
Stddev	.0067	.0003	.0000	.0513
%RSD	3.413	16.83	7.664	138.4
#1	.2023	.0019	-.0003	.0008
#2	.1927	.0015	-.0004	.0734

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0007	-.0009	.0006	.0006
Stddev	.0001	.0002	.0001	.0002
%RSD	17.83	27.46	11.30	31.70
#1	-.0008	-.0010	.0006	.0008
#2	-.0006	-.0007	.0005	.0005

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	.0050	.4547	.0010	.1176
Stddev	.0003	.0425	.0000	.0080
%RSD	6.842	9.336	1.326	6.830
#1	.0052	.4847	.0010	.1120
#2	.0047	.4247	.0011	.1233

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0014	.0052	.0794	.0006
Stddev	.0001	.0010	.0009	.0003
%RSD	3.723	19.01	1.182	51.75
#1	.0014	.0059	.0787	.0004
#2	.0013	.0045	.0800	.0008

Sample Name: MB1017-8 Run Time: 10/22/08 14:58

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0156	.0018	.2101	-.0005
Stddev	.0021	.0006	.0026	.0005
%RSD	13.18	36.27	1.228	96.59
#1	-.0171	.0013	.2120	-.0009
#2	-.0141	.0022	.2083	-.0002

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	-.0026	1.185	-.0136	-.0001
Stddev	.0013	.112	.0034	.0000
%RSD	51.39	9.474	24.78	40.62
#1	-.0035	1.105	-.0112	-.0001
#2	-.0017	1.264	-.0160	-.0001

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	-.0004	-.0070	-.0088	-.0012
Stddev	.0012	.0018	.0056	.0003
%RSD	275.7	26.39	63.89	22.60
#1	-.0013	-.0057	-.0127	-.0010
#2	.0004	-.0083	-.0048	-.0014

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	164.22	103.41
Stddev	2.64	1.72
%RSD	1.6051	1.6585
#1	162.36	102.19
#2	166.08	104.62

Method: MTHD08-1 Sample Name: LCS1017-8 Operator:
Comment:
Run Time: 10/22/08 15:04 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.2149	2.145	1.868	.0273
Stddev	.0032	.004	.038	.0009
%RSD	1.469	.1668	2.063	3.390
#1	.2172	2.148	1.840	.0280
#2	.2127	2.143	1.895	.0267

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	2.020	2.486	.1852	19.53
Stddev	.040	.028	.0041	.51
%RSD	1.995	1.139	2.188	2.633
#1	1.991	2.506	.1823	19.16
#2	2.048	2.466	.1881	19.89

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	.2057	.2054	2.044	.2104
Stddev	.0041	.0036	.036	.0054
%RSD	1.970	1.750	1.745	2.545
#1	.2028	.2029	2.019	.2066
#2	.2085	.2080	2.069	.2142

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	2.033	21.64	1.214	21.14
Stddev	.040	.33	.015	.21
%RSD	1.976	1.523	1.243	1.007
#1	2.004	21.88	1.225	20.99
#2	2.061	21.41	1.203	21.29

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.2098	2.060	23.68	2.043
Stddev	.0034	.047	.29	.039
%RSD	1.608	2.293	1.226	1.904
#1	.2074	2.027	23.89	2.015
#2	.2121	2.094	23.48	2.070

Sample Name: LCS1017-8 Run Time: 10/22/08 15:04

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	1.982	2.026	1.751	1.949
Stddev	.051	.037	.060	.029
%RSD	2.567	1.831	3.443	1.480
#1	1.946	2.000	1.708	1.929
#2	2.018	2.053	1.793	1.970

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	1.824	3.321	1.911	.2297
Stddev	.041	.080	.032	.0024
%RSD	2.258	2.418	1.648	1.045
#1	1.795	3.264	1.889	.2314
#2	1.854	3.378	1.933	.2280

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	1.966	2.024	2.004	1.883
Stddev	.019	.045	.017	.040
%RSD	.9741	2.223	.8278	2.116
#1	1.980	1.992	2.016	1.855
#2	1.953	2.056	1.992	1.911

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	162.90	103.85
Stddev	1.79	1.06
%RSD	1.0982	1.0229
#1	164.17	103.10
#2	161.64	104.60

Method: MTHD08-1 Sample Name: 0810732-01A Operator:
Comment:
Run Time: 10/22/08 15:09 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.0045	.3337	-.0047	.0231
Stddev	.0063	.0092	.0058	.0022
%RSD	140.2	2.761	123.5	9.443
#1	.0000	.3271	-.0088	.0216
#2	.0090	.3402	-.0006	.0247

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.2428	.0475	-.0003	52.70
Stddev	.0021	.0015	.0000	.86
%RSD	.8622	3.224	10.93	1.633
#1	.2414	.0464	-.0003	52.09
#2	.2443	.0486	-.0003	53.30

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0005	-.0007	.0021	.0023
Stddev	.0002	.0007	.0005	.0010
%RSD	45.78	101.6	24.99	42.23
#1	-.0004	-.0013	.0017	.0030
#2	-.0007	-.0002	.0025	.0016

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	.1565	32.72	.0314	19.01
Stddev	.0007	.86	.0013	.08
%RSD	.4262	2.624	4.012	.4439
#1	.1569	32.12	.0305	18.95
#2	.1560	33.33	.0323	19.07

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0482	.0166	113.4	.0059
Stddev	.0002	.0018	2.2	.0001
%RSD	.5122	11.05	1.974	2.292
#1	.0480	.0179	115.0	.0060
#2	.0484	.0153	111.9	.0059

Sample Name: 0810732-01A Run Time: 10/22/08 15:09

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	.0586	.0064	22.74	.0031
Stddev	.0005	.0016	.13	.0006
%RSD	.8316	25.04	.5765	17.84
#1	.0589	.0052	22.65	.0027
#2	.0582	.0075	22.83	.0035

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	.0087	3.351	-.0199	.2224
Stddev	.0072	.034	.0043	.0061
%RSD	82.17	1.006	21.53	2.744
#1	.0037	3.375	-.0169	.2181
#2	.0138	3.328	-.0230	.2268

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	-.0002	-.0003	-.0149	.2057
Stddev	.0009	.0035	.0029	.0071
%RSD	404.5	1059.	19.57	3.441
#1	-.0009	.0021	-.0169	.2007
#2	.0004	-.0028	-.0128	.2107

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	161.60	105.45
Stddev	.18	2.33
%RSD	.11034	2.2107
#1	161.72	107.10
#2	161.47	103.80

Method: MTHD08-1 Sample Name: 0810732-01AMS Operator:
Comment:
Run Time: 10/22/08 15:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.2219	2.456	1.783	.0438
Stddev	.0081	.033	.011	.0066
%RSD	3.648	1.331	.6392	15.14
#1	.2161	2.433	1.791	.0391
#2	.2276	2.479	1.775	.0485

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	2.169	2.472	.1849	68.94
Stddev	.015	.007	.0005	.42
%RSD	.6964	.2875	.2947	.6087
#1	2.180	2.477	.1853	69.24
#2	2.159	2.467	.1846	68.64

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	.1970	.1970	1.895	.2042
Stddev	.0001	.0008	.002	.0019
%RSD	.0353	.3986	.0868	.9426
#1	.1970	.1975	1.894	.2056
#2	.1969	.1964	1.897	.2029

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	2.042	52.41	1.206	40.00
Stddev	.001	.18	.005	.20
%RSD	.0364	.3410	.4202	.5055
#1	2.042	52.54	1.209	40.14
#2	2.041	52.29	1.202	39.86

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.2481	2.076	134.8	1.963
Stddev	.0007	.012	2.1	.003
%RSD	.2897	.5930	1.528	.1663
#1	.2486	2.067	133.3	1.965
#2	.2476	2.085	136.2	1.961

Sample Name: 0810732-01AMS Run Time: 10/22/08 15:14

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	2.183	1.939	24.41	1.992
Stddev	.018	.006	.04	.000
%RSD	.8105	.3184	.1493	.0019
#1	2.171	1.934	24.38	1.992
#2	2.196	1.943	24.44	1.992

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	1.740	5.111	1.948	.4359
Stddev	.013	.001	.008	.0014
%RSD	.7596	.0107	.4018	.3139
#1	1.730	5.110	1.943	.4368
#2	1.749	5.111	1.954	.4349

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	2.005	1.897	1.928	2.015
Stddev	.011	.012	.002	.009
%RSD	.5331	.6449	.0772	.4256
#1	2.012	1.889	1.927	2.021
#2	1.997	1.906	1.929	2.009

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	160.47	105.47
Stddev	1.05	.49
%RSD	.65248	.46634
#1	159.73	105.13
#2	161.21	105.82

Method: MTHD08-1 Sample Name: 0810732-01AMSD Operator:
Comment:
Run Time: 10/22/08 15:20 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.1881	2.344	1.758	.0403
Stddev	.0165	.013	.025	.0010
%RSD	8.765	.5365	1.441	2.397
#1	.1997	2.353	1.740	.0410
#2	.1764	2.336	1.776	.0396

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	2.021	2.334	.1754	68.08
Stddev	.019	.005	.0020	1.08
%RSD	.9266	.2247	1.117	1.584
#1	2.008	2.330	.1741	67.32
#2	2.034	2.337	.1768	68.85

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	.1871	.1866	1.869	.1940
Stddev	.0006	.0019	.006	.0018
%RSD	.3321	1.005	.3259	.9155
#1	.1867	.1852	1.865	.1927
#2	.1876	.1879	1.874	.1952

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	2.004	51.88	1.143	39.27
Stddev	.016	.43	.011	.06
%RSD	.7969	.8376	.9990	.1596
#1	1.993	52.19	1.151	39.32
#2	2.015	51.57	1.135	39.23

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.2380	1.947	133.4	1.864
Stddev	.0022	.017	1.5	.020
%RSD	.9126	.8670	1.118	1.054
#1	.2365	1.935	132.3	1.850
#2	.2396	1.959	134.4	1.878

Sample Name: 0810732-01AMSD Run Time: 10/22/08 15:20

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	1.901	1.856	24.55	1.856
Stddev	.091	.008	.12	.012
%RSD	4.765	.4208	.4924	.6652
#1	1.965	1.851	24.46	1.847
#2	1.837	1.862	24.63	1.865

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	1.719	4.884	1.779	.4248
Stddev	.007	.004	.006	.0007
%RSD	.4264	.0837	.3555	.1586
#1	1.714	4.881	1.775	.4253
#2	1.724	4.887	1.783	.4244

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	1.856	1.811	1.812	1.923
Stddev	.005	.024	.002	.021
%RSD	.2849	1.300	.1282	1.113
#1	1.860	1.794	1.814	1.907
#2	1.852	1.828	1.811	1.938

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	160.52	106.47
Stddev	.34	.24
%RSD	.21443	.22458
#1	160.76	106.30
#2	160.27	106.64

Method: MTHD08-1 Sample Name: CCV Operator:
Comment:
Run Time: 10/22/08 15:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	1.131	9.533	4.749	4.725
Stddev	.036	.184	.052	.003
%RSD	3.171	1.934	1.096	.0702
#1	1.156	9.663	4.785	4.727
#2	1.105	9.402	4.712	4.723

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	4.802	10.17	.2314	24.48
Stddev	.043	.17	.0028	.06
%RSD	.8960	1.707	1.189	.2400
#1	4.832	10.29	.2333	24.52
#2	4.771	10.04	.2295	24.44

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	2.429	2.425	.9995	1.246
Stddev	.033	.028	.0129	.006
%RSD	1.358	1.140	1.296	.5023
#1	2.452	2.445	1.009	1.250
#2	2.405	2.406	.9903	1.241

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	4.864	25.73	5.228	24.85
Stddev	.054	.49	.087	.12
%RSD	1.112	1.920	1.673	.4996
#1	4.902	26.08	5.289	24.94
#2	4.826	25.38	5.166	24.77

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	2.386	4.851	49.98	2.451
Stddev	.027	.048	.81	.024
%RSD	1.143	.9825	1.630	.9658
#1	2.406	4.885	50.56	2.468
#2	2.367	4.817	49.41	2.434

Sample Name: CCV Run Time: 10/22/08 15:52

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	5.272	4.884	4.871	4.883
Stddev	.024	.051	.001	.049
%RSD	.4526	1.045	.0173	1.010
#1	5.289	4.920	4.871	4.918
#2	5.255	4.848	4.872	4.848

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	4.764	5.019	4.739	1.034
Stddev	.072	.077	.032	.024
%RSD	1.515	1.542	.6758	2.353
#1	4.815	5.074	4.761	1.051
#2	4.713	4.965	4.716	1.017

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	4.734	4.997	2.334	2.376
Stddev	.111	.050	.053	.014
%RSD	2.339	.9921	2.277	.5753
#1	4.812	5.032	2.371	2.385
#2	4.655	4.962	2.296	2.366

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	166.48	109.78
Stddev	1.01	1.18
%RSD	.60841	1.0735
#1	167.20	108.95
#2	165.77	110.62

Method: MTHD08-1 Sample Name: CCB Operator:
Comment:
Run Time: 10/22/08 15:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3961	As1890	Au2082
Line	328.068 {102}	396.152 { 85}	189.042 {177}	208.209 {161}
Units	ppm	ppm	ppm	ppm
Avg	.0087	.0010	.0012	.0185
Stddev	.0098	.0079	.0036	.0127
%RSD	113.7	829.0	301.7	68.76
#1	.0017	-.0047	-.0014	.0274
#2	.0156	.0066	.0038	.0095

Elem	B_2496	Ba4554	Be2348	Ca1840
Line	249.678 {135}	455.403 { 74}	234.861 {143}	184.006 {182}
Units	ppm	ppm	ppm	ppm
Avg	.0508	.0004	.0001	.0031
Stddev	.0024	.0001	.0000	.0635
%RSD	4.664	33.59	31.42	2069.
#1	.0525	.0005	.0001	-.0418
#2	.0491	.0003	.0001	.0480

Elem	Cd2265	Co2286	Cr2061	Cu2247
Line	226.502 {148}	228.616 {147}	206.149 {163}	224.700 {150}
Units	ppm	ppm	ppm	ppm
Avg	-.0006	-.0010	-.0005	-.0015
Stddev	.0003	.0007	.0008	.0006
%RSD	52.39	70.58	162.2	37.43
#1	-.0008	-.0015	-.0010	-.0019
#2	-.0004	-.0005	.0001	-.0011

Elem	Fe2404	K_7664	Li6707	Mg2852
Line	240.488 {140}	766.490 { 44}	670.784 { 50}	285.213 {117}
Units	ppm	ppm	ppm	ppm
Avg	-.0004	.0898	.0008	.0046
Stddev	.0007	.0700	.0005	.0055
%RSD	197.5	77.90	55.85	119.3
#1	-.0008	.0404	.0011	.0007
#2	.0001	.1393	.0005	.0086

Elem	Mn2576	Mo2020	Na5889	Ni2216
Line	257.610 {131}	202.030 {166}	588.995 { 57}	221.647 {152}
Units	ppm	ppm	ppm	ppm
Avg	.0004	.0129	.0106	.0009
Stddev	.0002	.0049	.0062	.0003
%RSD	65.27	37.71	58.26	30.25
#1	.0002	.0164	.0150	.0007
#2	.0005	.0095	.0063	.0011

Sample Name: CCB Run Time: 10/22/08 15:58

Elem	P_1782	Pb2203	S_1820	Sb2175
Line	178.287 {188}	220.353 {152}	182.034 {184}	217.581 {154}
Units	ppm	ppm	ppm	ppm
Avg	-.0275	.0005	-.0038	.0023
Stddev	.0008	.0007	.0256	.0015
%RSD	2.787	157.9	671.2	64.15
#1	-.0270	.0010	-.0219	.0013
#2	-.0281	-.0001	.0143	.0033

Elem	Se1960	Si2516	Sn1899	Sr4077
Line	196.090 {171}	251.612 {134}	189.989 {177}	407.771 { 82}
Units	ppm	ppm	ppm	ppm
Avg	-.0033	.1231	-.0135	.0000
Stddev	.0027	.0078	.0006	.0000
%RSD	80.08	6.356	4.558	291.4
#1	-.0014	.1287	-.0140	.0000
#2	-.0052	.1176	-.0131	.0000

Elem	Ti3349	Tl1908	V_3102	Zn2062
Line	334.941 {100}	190.864 {176}	310.230 {108}	206.200 {162}
Units	ppm	ppm	ppm	ppm
Avg	.0004	.0113	-.0119	-.0039
Stddev	.0010	.0060	.0050	.0014
%RSD	254.0	53.04	41.76	37.16
#1	-.0003	.0155	-.0154	-.0029
#2	.0011	.0070	-.0084	-.0049

Int. Std.	Y_2243	Y_3710
Line	224.306 {150}	371.030 { 90}
Units	Cts/S	Cts/S
Avg	168.76	110.32
Stddev	1.39	.27
%RSD	.82592	.24189
#1	169.75	110.51
#2	167.78	110.14

DIGESTION LOG(S)

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **66452** Prep Code: **3010** Technician: **Chris Thomas**

Prep Start Date: **10/17/2008 7:00:00 PM**
Prep End Date: **10/17/2008 10:00:00 P**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
LCS081017-8				50	0	0	50	1	10/17/2008	10/17/2008
MB081017-8				50	0	0	50	1	10/17/2008	10/17/2008
ME0810729-01A	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810729-02A	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810732-01A	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810732-01AM	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810732-01AM	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810732-02A	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810732-03A	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810732-04A	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810733-02B	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810733-03B	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008
ME0810733-04B	Aqueous			50	0	0	50	1	10/17/2008	10/17/2008

SVOA GC/MS
RAW DATA

METHOD BLANK RAW DATA

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102210.D Vial: 32
Acq On : 22 Oct 2008 9:50 pm Operator: mills
Sample : ,mblk,bk-1-102108,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:39:10 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	37991	40.00	ug/ml	0.00
19) Naphthalene-d8	5.30	136	159885	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.19	164	76692	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.81	188	111157	40.00	ug/ml	0.00
69) Chrysene-d12	11.18	240	92421	40.00	ug/ml	0.00
78) Perylene-d12	12.23	264	85504	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	63918	48.47	ug/ml	0.00
5) Phenol-d5	3.76	99	62653	36.15	ug/ml	0.00
20) Nitrobenzene-d5	4.57	82	96593	61.19	ug/ml	0.00
40) 2-Fluorobiphenyl	6.47	172	138178	55.24	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.06	330	28309	87.74	ug/ml	0.00
72) Terphenyl-d14	10.35	244	174628	95.79	ug/ml	0.00
Target Compounds						Qvalue
10) 1,3-Dichlorobenzene	4.06	146	1765	1.25	ug/ml	95
11) 1,4-Dichlorobenzene	4.06	146	1765	1.23	ug/ml	94
12) 1,2-Dichlorobenzene	4.06	146	1765	1.31	ug/ml	89

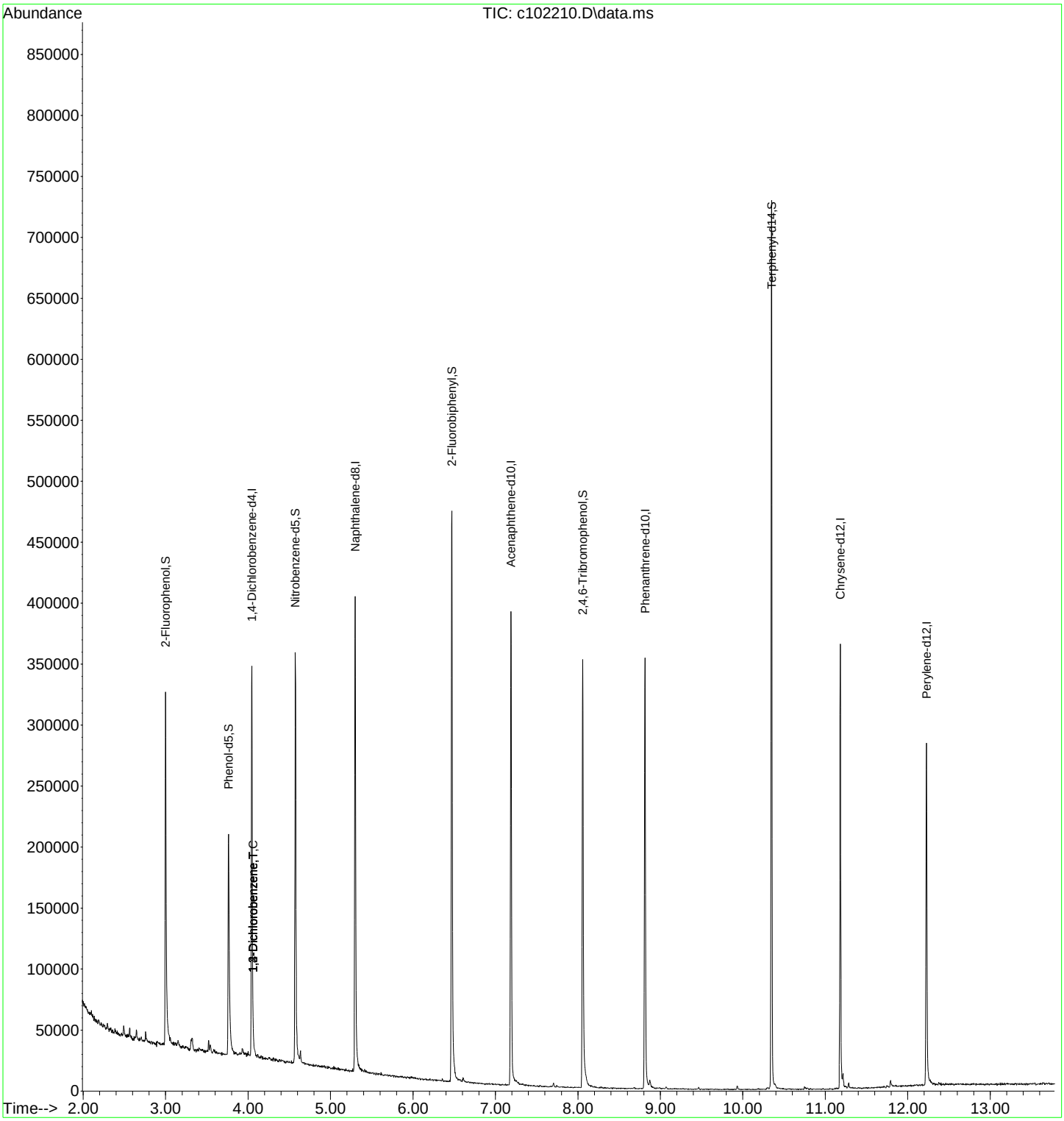
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102210.D
Acq On : 22 Oct 2008 9:50 pm
Sample : ,mblk,bk-1-102108,1,
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 23 14:39:10 2008
Quant Results File: SVOA0916.RES

Vial: 32
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



LABORATORY CONTROL SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102211.D Vial: 33
Acq On : 22 Oct 2008 10:09 pm Operator: mills
Sample : ,lcs,lcs-1a-102108,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:39:14 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	24499	40.00	ug/ml	0.00
19) Naphthalene-d8	5.30	136	104499	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.18	164	52623	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.81	188	83052	40.00	ug/ml	0.00
69) Chrysene-d12	11.18	240	76709	40.00	ug/ml	0.00
78) Perylene-d12	12.22	264	69312	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	44860	52.75	ug/ml	0.00
5) Phenol-d5	3.76	99	43113	38.58	ug/ml	0.00
20) Nitrobenzene-d5	4.57	82	72823	70.59	ug/ml	0.00
40) 2-Fluorobiphenyl	6.47	172	111564	65.00	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.06	330	21496	89.17	ug/ml	0.00
72) Terphenyl-d14	10.35	244	144676	95.61	ug/ml	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	2.03	74	536	1.21	ug/ml	95
6) Phenol	3.77	94	31719	27.78	ug/ml	94
7) Aniline	3.88	93	1258	0.92	ug/ml#	1
8) bis(2-Chloroethyl)ether	3.88	93	1258	1.52	ug/ml#	1
9) 2-Chlorophenol	3.87	128	52953	63.65	ug/ml	97
10) 1,3-Dichlorobenzene	4.06	146	43912	48.19	ug/ml	99
11) 1,4-Dichlorobenzene	4.06	146	43912	47.28	ug/ml	98
12) 1,2-Dichlorobenzene	4.06	146	43912	50.38	ug/ml	96
17) N-Nitrosodi-n-propylamine	4.43	70	55990	88.13	ug/ml	93
24) 2-Nitrophenol	4.91	139	26774	61.25	ug/ml	89
25) 2,4-Dimethylphenol	5.19	107	842	0.96	ug/ml#	16
26) bis(2-Chloroethoxy)methan	5.07	93	79095	70.11	ug/ml	99
27) 2,4-Dichlorophenol	5.19	162	42708	65.10	ug/ml	97
29) 1,2,4-Trichlorobenzene	5.24	180	36607	51.34	ug/ml	98
30) Naphthalene	5.32	128	141001	56.63	ug/ml	99
31) 2,6-Dichlorophenol	5.19	162	42708	67.48	ug/ml#	79
32) 4-Chloroaniline	5.32	127	18199	18.17	ug/ml#	13
34) 4-Chloro-3-methylphenol	5.96	107	61012	81.11	ug/ml	95
35) 2-Methylnaphthalene	5.96	142	46503	30.80	ug/ml#	20
38) 2,4,5-Trichlorophenol	6.39	196	29814	59.18	ug/ml	96
39) 2,4,6-Trichlorophenol	6.39	196	29814	62.74	ug/ml	94
41) 2-Chloronaphthalene	6.39	162	2713	1.65	ug/ml#	64
43) Acenaphthylene	7.03	152	178656	78.36	ug/ml	98
47) Acenaphthene	7.22	153	118761	75.05	ug/ml	97
50) 4-Nitrophenol	7.46	109	7072	23.87	ug/ml	97
51) 2,4-Dinitrotoluene	7.42	165	40130	78.75	ug/ml	98
61) 4-Bromophenyl phenylether	8.39	248	530	1.10	ug/ml#	1
62) Hexachlorobenzene	8.39	284	33329	74.55	ug/ml	97
63) Pentachlorophenol	8.64	266	15914	55.36	ug/ml	96
64) Phenanthrene	8.89	178	194039	78.41	ug/ml	99
65) Anthracene	8.89	178	194039	80.90	ug/ml	99
67) Di-n-butyl phthalate	9.46	149	234079	83.96	ug/ml	98
68) Fluoranthene	10.19	202	228420	94.69	ug/ml	96
71) Pyrene	10.19	202	229384	94.04	ug/ml	96
74) Benzo[a]anthracene	11.20	228	180350	79.83	ug/ml	97
76) Chrysene	11.20	228	178648	81.94	ug/ml	99
77) bis(2-Ethylhexyl)phthalat	11.21	149	3121	1.93	ug/ml#	89

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102211.D Vial: 33
Acq On : 22 Oct 2008 10:09 pm Operator: mills
Sample : ,lcs,lcs-1a-102108,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:39:14 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

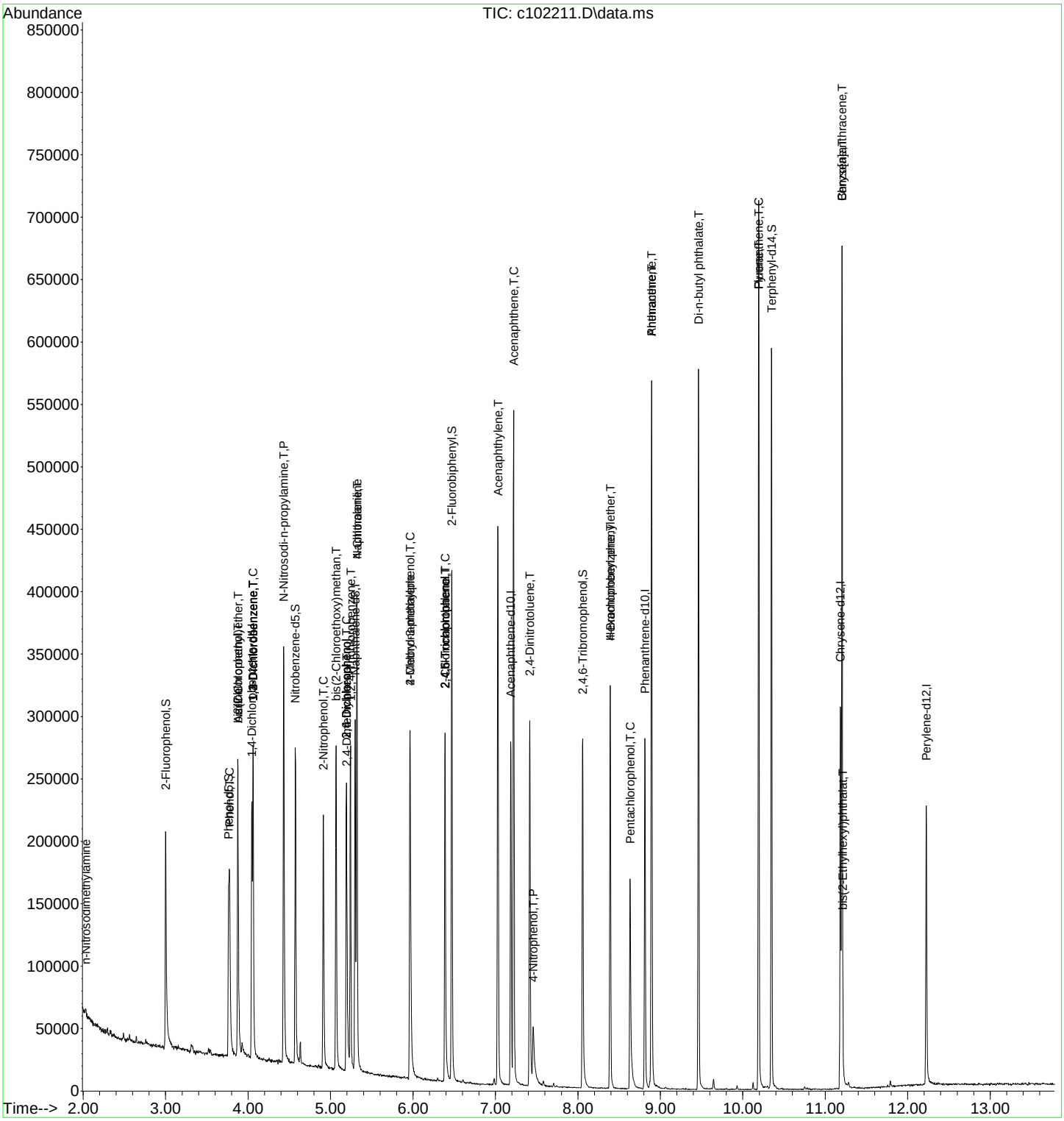
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102211.D
Acq On : 22 Oct 2008 10:09 pm
Sample : ,lcs,lcs-1a-102108,1,
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 23 14:39:14 2008
Quant Results File: SVOA0916.RES

Vial: 33
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102212.D Vial: 34
Acq On : 22 Oct 2008 10:28 pm Operator: mills
Sample : ,lcs,lcs-1b-102108,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:39:19 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	33668	40.00	ug/ml	0.00
19) Naphthalene-d8	5.30	136	143297	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.19	164	69492	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.81	188	92789	40.00	ug/ml	0.00
69) Chrysene-d12	11.18	240	74570	40.00	ug/ml	0.00
78) Perylene-d12	12.23	264	62809	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	56753	48.56	ug/ml	0.00
5) Phenol-d5	3.76	99	55001	35.81	ug/ml	0.00
20) Nitrobenzene-d5	4.57	82	96080	67.91	ug/ml	0.00
40) 2-Fluorobiphenyl	6.47	172	146969	64.84	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.06	330	26501	98.40	ug/ml	0.00
72) Terphenyl-d14	10.35	244	140939	95.82	ug/ml	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	2.04	74	830	1.37	ug/ml#	53
6) Phenol	3.77	94	42964	27.38	ug/ml	95
7) Aniline	3.77	93	893	0.48	ug/ml#	1
9) 2-Chlorophenol	3.87	128	68967	60.32	ug/ml	98
10) 1,3-Dichlorobenzene	4.06	146	62248	49.70	ug/ml	98
11) 1,4-Dichlorobenzene	4.06	146	62248	48.77	ug/ml	98
12) 1,2-Dichlorobenzene	4.06	146	62248	51.97	ug/ml	96
17) N-Nitrosodi-n-propylamine	4.43	70	75976	87.02	ug/ml	95
24) 2-Nitrophenol	4.91	139	38150	63.64	ug/ml	96
25) 2,4-Dimethylphenol	5.19	107	1085	0.90	ug/ml#	16
26) bis(2-Chloroethoxy)methan	5.07	93	110809	71.63	ug/ml	99
27) 2,4-Dichlorophenol	5.19	162	59065	65.66	ug/ml	98
29) 1,2,4-Trichlorobenzene	5.24	180	50794	51.95	ug/ml	94
30) Naphthalene	5.32	128	193038	56.54	ug/ml	99
31) 2,6-Dichlorophenol	5.19	162	59065	68.06	ug/ml#	77
32) 4-Chloroaniline	5.32	127	24929	18.15	ug/ml#	3
34) 4-Chloro-3-methylphenol	5.96	107	83750	81.19	ug/ml	94
35) 2-Methylnaphthalene	5.96	142	60120	29.04	ug/ml#	20
38) 2,4,5-Trichlorophenol	6.39	196	41796	62.82	ug/ml	93
39) 2,4,6-Trichlorophenol	6.39	196	41796	66.60	ug/ml	96
41) 2-Chloronaphthalene	6.39	162	3534	1.63	ug/ml#	62
43) Acenaphthylene	7.03	152	226492	75.23	ug/ml	99
47) Acenaphthene	7.22	153	150415	71.98	ug/ml	98
50) 4-Nitrophenol	7.46	109	9686	24.76	ug/ml	96
51) 2,4-Dinitrotoluene	7.42	165	51092	75.93	ug/ml	98
62) Hexachlorobenzene	8.39	284	37025	74.13	ug/ml	96
63) Pentachlorophenol	8.63	266	20028	62.36	ug/ml	96
64) Phenanthrene	8.89	178	207652	75.11	ug/ml	99
65) Anthracene	8.89	178	207652	77.49	ug/ml	99
67) Di-n-butyl phthalate	9.46	149	245230	78.73	ug/ml	99
68) Fluoranthene	10.19	202	222070	82.40	ug/ml	97
71) Pyrene	10.19	202	222285	93.74	ug/ml	96
74) Benzo[a]anthracene	11.20	228	166941	76.01	ug/ml	95
76) Chrysene	11.20	228	164707	77.72	ug/ml	97
77) bis(2-Ethylhexyl)phthalat	11.22	149	2977	1.89	ug/ml#	98

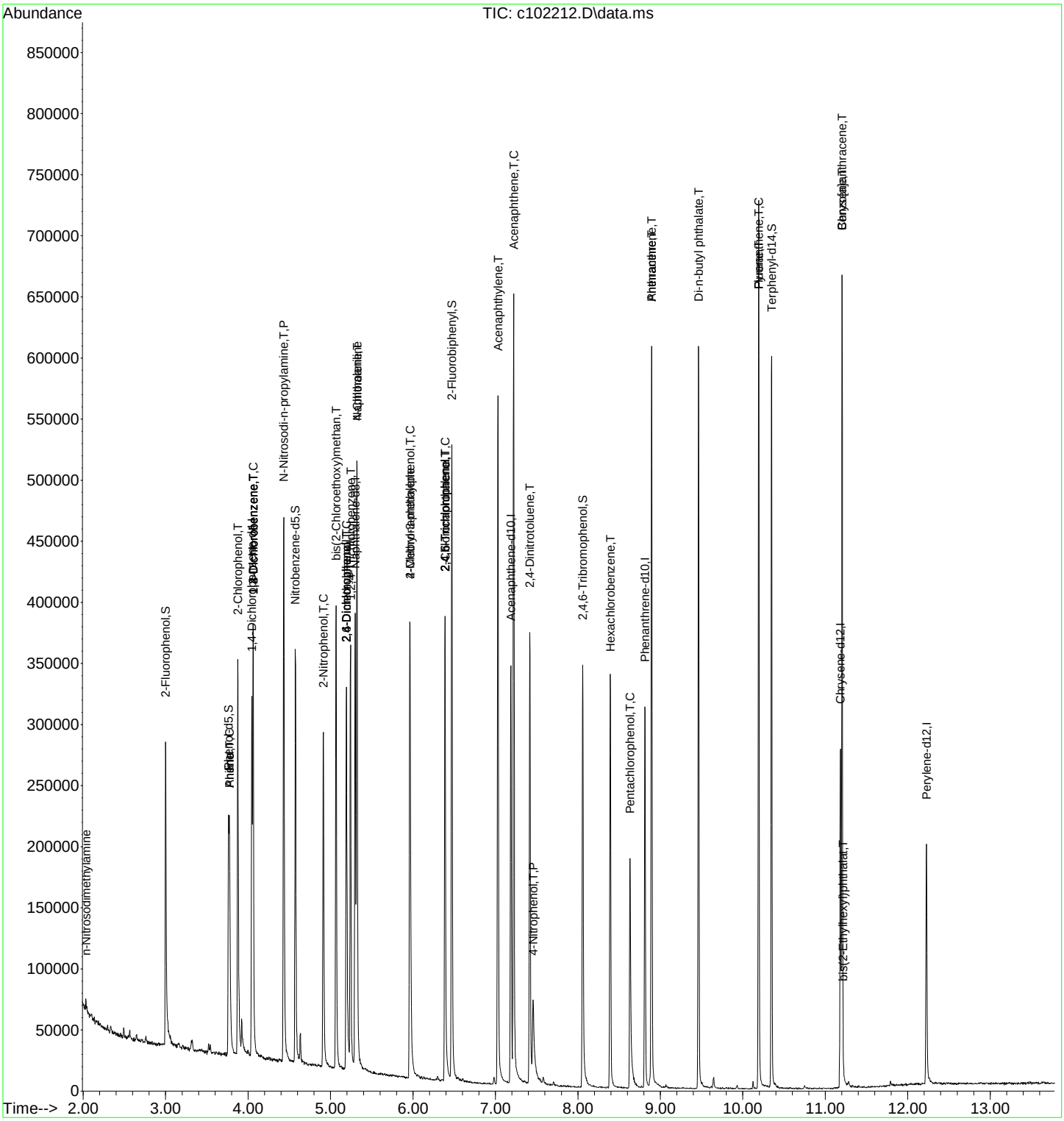
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102212.D
Acq On : 22 Oct 2008 10:28 pm
Sample : ,lcs,lcs-1b-102108,1,
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 23 14:39:19 2008
Quant Results File: SVOA0916.RES

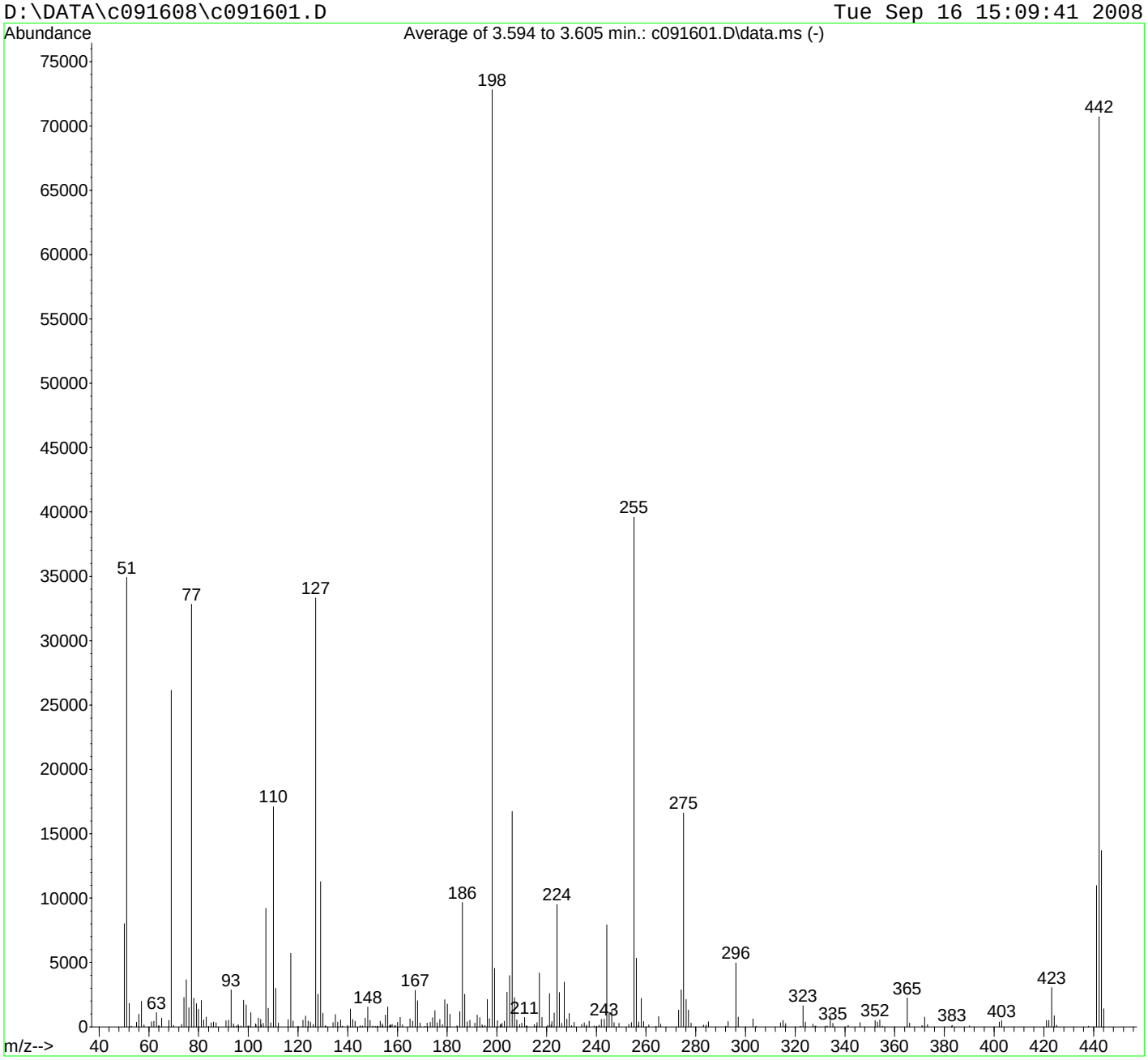
Vial: 34
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



TUNING RAW DATA

D:\DATA\c091608\c091601.D Tue Sep 16 15:09:41 2008



Peak Apex is scan: 142
Average of 3 scans: 141,142,143 minus background scan 136

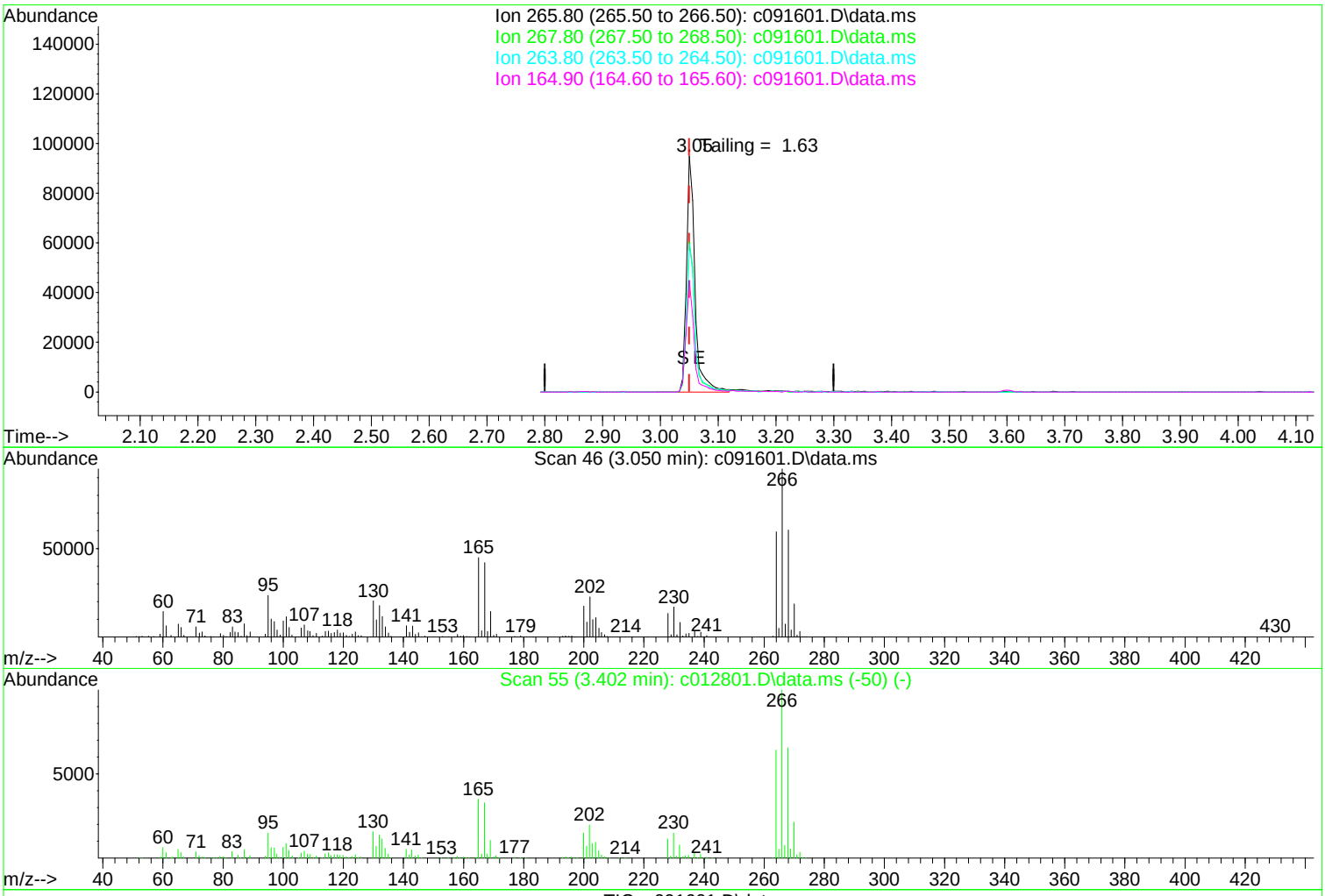
Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	48.0	PASS
68	69	0	2	1.9	PASS
69	198	0	100	35.9	PASS
70	69	0	2	0.5	PASS
127	198	40	60	45.8	PASS
197	198	0	1	0.9	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.3	PASS
275	198	10	30	22.8	PASS
365	198	1	100	3.1	PASS
441	443	>0	100	80.1	PASS
442	198	40	100	97.1	PASS
443	442	17	23	19.4	PASS

Quantitation Report (Qedit)

Data File : D:\Data\c091608\c091601.D
Acq On : 16 Sep 2008 3:05 pm
Sample : ,tune,dftpp tune,1,
Misc : dftpp
Integrator: RTE
Quant Time: Sep 16 15:29:48 2008
Quant Results File: DFTPP.RES

Vial: 1
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title :
QLast Update : Tue Sep 16 15:08:32 2008
Response via : Continuing Cal File: D:\DATA\c091608\Snapshot\c091601.D
DataAcq Meth:DFTPP.M



TIC: c091601.D\data.ms

(1) pentachlorophenol (T)

3.050min (0.000) 50.00 ug/ml

response 96454

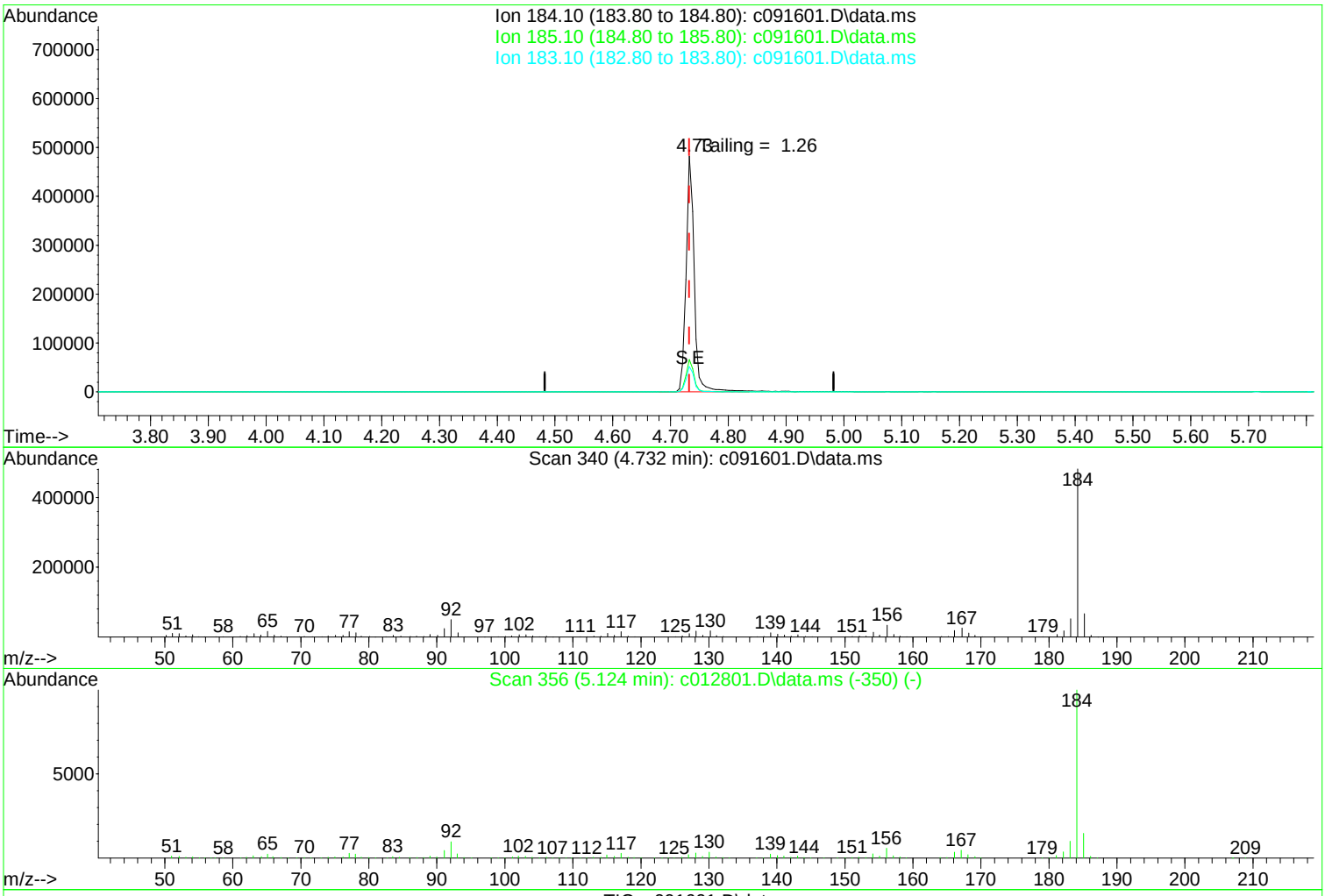
Ion	Exp%	Act%
265.80	100	100
267.80	62.10	62.11
263.80	64.80	60.92
164.90	34.40	44.43

Quantitation Report (Qedit)

Data File : D:\Data\c091608\c091601.D
Acq On : 16 Sep 2008 3:05 pm
Sample : ,tune,dftpp tune,1,
Misc : dftpp
Integrator: RTE
Quant Time: Sep 16 15:29:48 2008
Quant Results File: DFTPP.RES

Vial: 1
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title :
QLast Update : Tue Sep 16 15:08:32 2008
Response via : Continuing Cal File: D:\DATA\c091608\Snapshot\c091601.D
DataAcq Meth:DFTPP.M



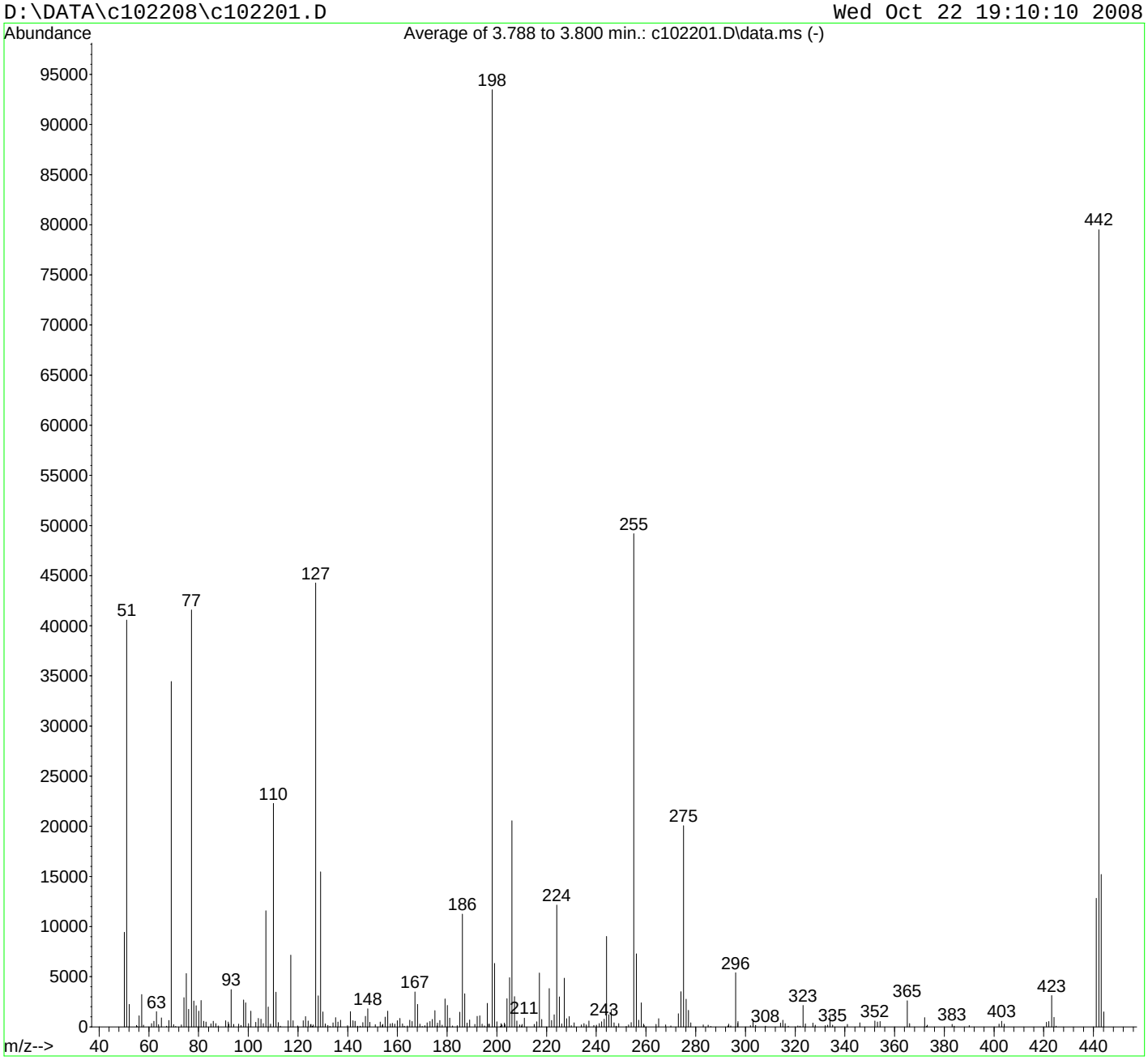
(3) Benzidine (T)

4.732min (0.000) 50.00 ug/ml

response 463049

Ion	Exp%	Act%
184.10	100	100
185.10	13.60	13.28
183.10	10.10	10.68
0.00	0.00	0.00

D:\DATA\c102208\c102201.D Wed Oct 22 19:10:10 2008



Peak Apex is scan: 176
Average of 3 scans: 175,176,177 minus background scan 170

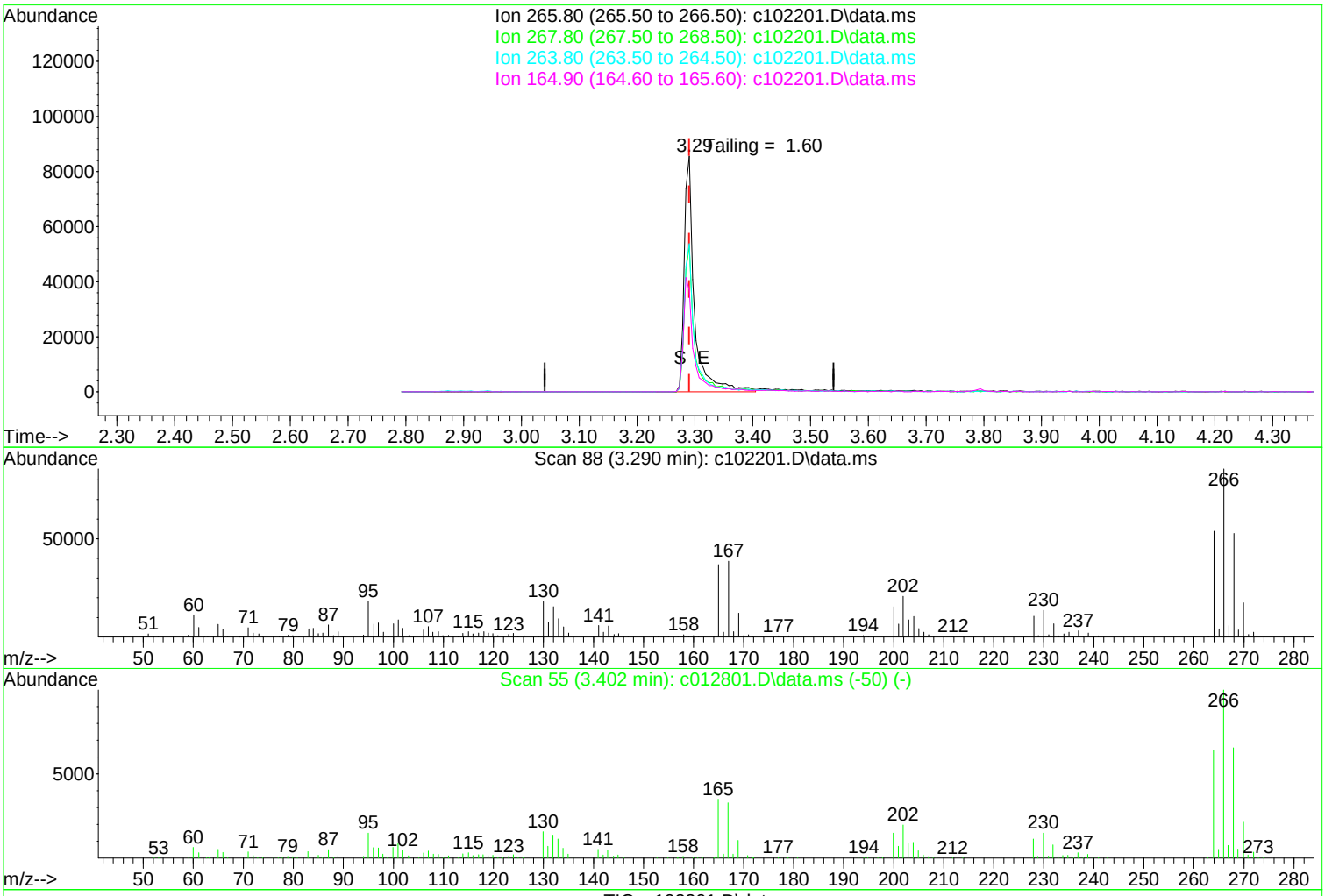
Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	60	43.4	PASS
68	69	0	2	1.8	PASS
69	198	0	100	36.9	PASS
70	69	0	2	0.6	PASS
127	198	40	60	47.4	PASS
197	198	0	1	0.3	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.8	PASS
275	198	10	30	21.5	PASS
365	198	1	100	2.8	PASS
441	443	>0	100	84.4	PASS
442	198	40	100	85.1	PASS
443	442	17	23	19.1	PASS

Quantitation Report (Qedit)

Data File : D:\Data\c102208\c102201.D
Acq On : 22 Oct 2008 7:06 pm
Sample : ,tune,dftpp tune,1,
Misc : dftpp
Integrator: RTE
Quant Time: Oct 22 19:33:28 2008
Quant Results File: DFTPP.RES

Vial: 1
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title :
QLast Update : Wed Oct 22 19:09:06 2008
Response via : Continuing Cal File: D:\DATA\c102208\Snapshot\c102201.D
DataAcq Meth:DFTPP.M



(1) pentachlorophenol (T)

3.290min (0.000) 50.00 ug/ml

response 102761

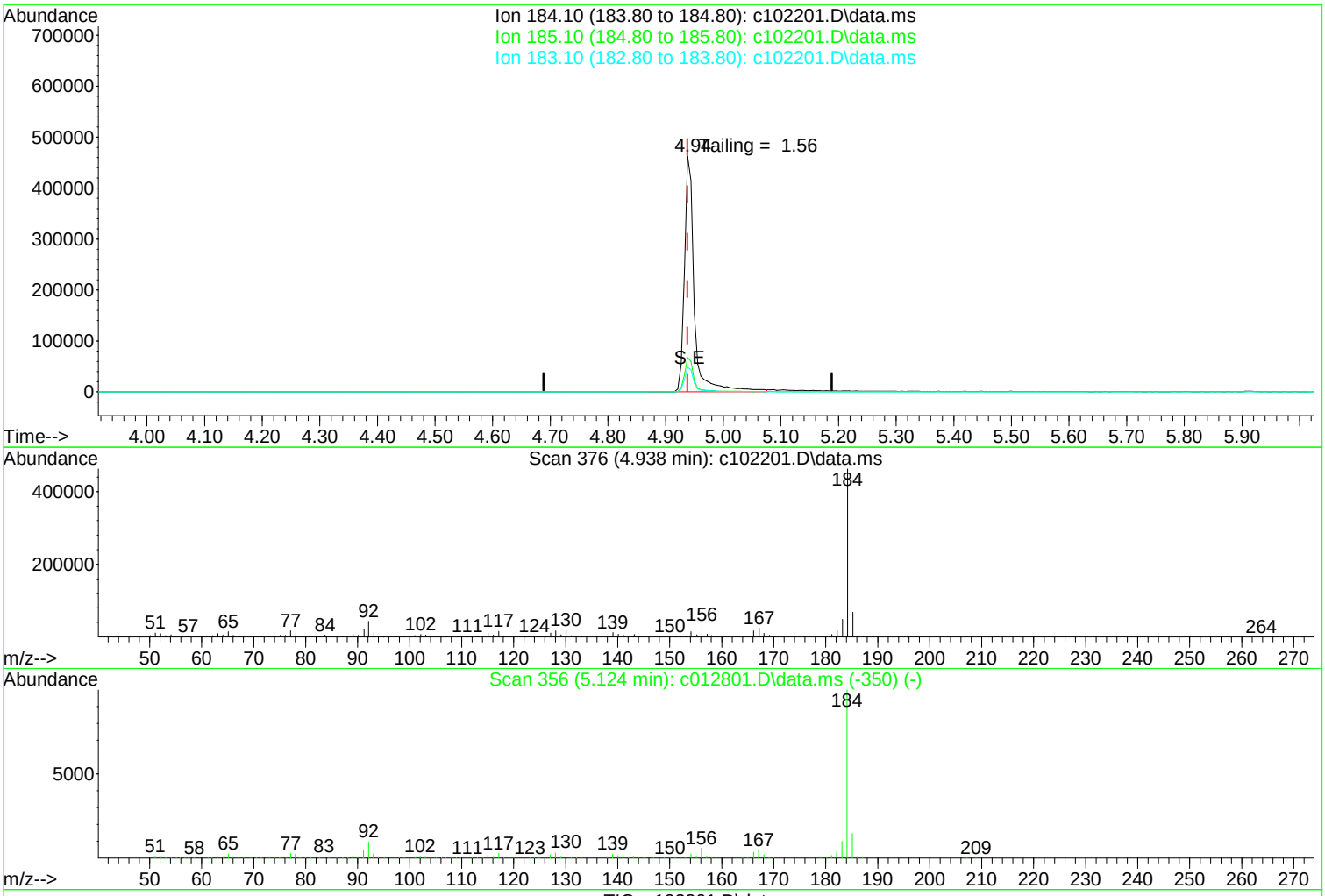
Ion	Exp%	Act%
265.80	100	100
267.80	62.10	58.28
263.80	64.80	59.95
164.90	34.40	46.95#

Quantitation Report (Qedit)

Data File : D:\Data\c102208\c102201.D
Acq On : 22 Oct 2008 7:06 pm
Sample : ,tune,dftpp tune,1,
Misc : dftpp
Integrator: RTE
Quant Time: Oct 22 19:33:28 2008
Quant Results File: DFTPP.RES

Vial: 1
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\DFTPP.M
Quant Title :
QLast Update : Wed Oct 22 19:09:06 2008
Response via : Continuing Cal File: D:\DATA\c102208\Snapshot\c102201.D
DataAcq Meth:DFTPP.M



(3) Benzidine (T)

4.938min (0.000) 50.00 ug/ml

response 532350

Ion	Exp%	Act%
184.10	100	100
185.10	13.60	14.23
183.10	10.10	10.08
0.00	0.00	0.00

INITIAL CALIBRATION RAW DATA

Response Factor Report SVOA3

Method Path : C:\msdchem\1\METHODS\
Method File : SVOA0916.M
Title : BNA Quantitation
Last Update : Tue Sep 16 18:01:30 2008
Response Via : Initial Calibration

Calibration Files
1.0 =c091602.D 5 =c091603.D 10 =c091505.D 20 =c091605.D 50 =c091606.D 80 =c091607.D 100 =c091608.D
120 =c091609.D 160 =c091610.D

		Compound	1.0	5	10	20	50	80	100	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------										
2)		Pyridine			0.940	1.089	1.295	1.368	1.150	1.341	1.447	1.233	14.55
3)		n-Nitrosodimet...			0.504	0.719	0.838	0.791	0.608	0.710	0.884	0.722	18.33
4)	S	2-Fluorophenol			1.255	1.406	1.430	1.456	1.397	1.368	1.408	1.389	4.68
5)	S	Phenol-d5			1.688	1.828	1.869	1.917	1.825	1.769	1.876	1.825	4.19
6)	T,C	Phenol			1.750	1.843	1.891	1.934	1.810	1.782	2.038	1.864	5.33
7)		Aniline			2.004	2.211	2.355	2.332	2.194	2.221	2.283	2.229	5.24
8)	T	bis(2-Chloroet...			1.341	1.271	1.333	1.515	1.331	1.312	1.364	1.352	5.71
9)	T	2-Chlorophenol			1.293	1.368	1.386	1.405	1.357	1.331	1.370	1.358	2.72
0)	T	1,3-Dichlorobe...			1.542	1.547	1.533	1.527	1.440	1.401	1.426	1.488	4.22
1)	T,C	1,4-Dichlorobe...			1.546	1.548	1.581	1.554	1.462	1.453	1.471	1.516	3.45
2)	T	1,2-Dichlorobe...			1.490	1.480	1.480	1.452	1.364	1.350	1.345	1.423	4.70
3)		Benzyl alcohol			0.804	0.862	0.970	1.002	0.968	0.945	0.987	0.934	7.84
4)	T	2,2-oxybis(1-c...			3.407	3.727	3.720	3.731	3.597	3.535	3.656	3.625	3.34
5)		2-Methylphenol			1.264	1.390	1.392	1.413	1.356	1.317	1.371	1.358	3.80
6)	T	Hexachloroethane			0.570	0.582	0.588	0.600	0.584	0.559	0.578	0.580	2.25
7)	T,P	N-Nitrosodi-n-...			0.957	1.072	1.108	1.085	1.007	1.001	1.032	1.037	5.16
8)		3/4-Methylphenol			1.365	1.392	1.390	1.394	1.273	1.249	1.275	1.334	4.90
9)	I	Naphthalene-d8	----------ISTD----------										
0)	S	Nitrobenzene-d5	0.283	0.375	0.390	0.412	0.423	0.430	0.419	0.412	0.410	0.395	11.48
21)	T	Nitrobenzene			0.388	0.426	0.427	0.424	0.413	0.408	0.404	0.413	3.46
22)		Acetophenone			0.515	0.531	0.529	0.523	0.493	0.495	0.480	0.509	3.92
23)	T	Isophorone			0.612	0.648	0.665	0.677	0.652	0.654	0.649	0.651	3.10
24)	T,C	2-Nitrophenol			0.150	0.157	0.170	0.170	0.176	0.174	0.174	0.167	5.81
25)	T	2,4-Dimethylph...			0.325	0.343	0.346	0.340	0.336	0.334	0.328	0.336	2.26
26)	T	bis(2-Chloroet...			0.409	0.434	0.444	0.446	0.439	0.426	0.424	0.432	3.01
27)	T,C	2,4-Dichloroph...			0.254	0.244	0.256	0.260	0.253	0.247	0.245	0.251	2.41
28)		Benzoic acid					0.127	0.181	0.196	0.200	0.220	0.185	19.15
29)	T	1,2,4-Trichlor...			0.287	0.283	0.276	0.275	0.271	0.262	0.257	0.273	3.92
30)	T	Naphthalene	0.862	1.112	0.982	1.003	0.966	0.949	0.911	0.910	0.881	0.953	7.96
31)		2,6-Dichloroph...			0.250	0.258	0.250	0.250	0.234	0.230	0.224	0.242	5.26
32)		4-Chloroaniline			0.400	0.421	0.403	0.398	0.364	0.355	0.342	0.383	7.70
33)	T,C	Hexachlorobuta...			0.159	0.154	0.154	0.148	0.146	0.143	0.140	0.149	4.59
34)	T,C	4-Chloro-3-met...			0.273	0.276	0.297	0.305	0.291	0.289	0.284	0.288	3.92
35)		2-Methylnaphth...			0.596	0.601	0.578	0.592	0.567	0.562	0.550	0.578	3.35
36)	I	Acenaphthene-d10	----------ISTD----------										
37)	P	Hexachlorocycl...			0.241	0.216	0.225	0.192	0.212	0.209	0.182	0.211	9.38
38)		2,4,5-Trichlor...			0.365	0.373	0.405	0.394	0.385	0.376	0.384	0.383	3.51

Method Path : C:\msdchem\1\METHODS\
Method File : SVOA0916.M
Title : BNA Quantitation

39)	T,C	2,4,6-Trichlor...			0.349	0.354	0.387	0.351	0.364	0.364	0.358	0.361	3.50
40)	S	2-Fluorobiphenyl	1.142	1.479	1.389	1.374	1.351	1.266	1.260	1.245	1.236	1.305	7.79
41)	T	2-Chloronaphth...			1.342	1.299	1.295	1.233	1.193	1.186	1.181	1.247	5.19
42)		2-Nitroaniline			0.436	0.494	0.535	0.541	0.531	0.521	0.538	0.514	7.36
43)	T	Acenaphthylene	1.426	1.826	1.875	1.818	1.788	1.779	1.715	1.695	1.674	1.733	7.65
44)	T	Dimethyl phtha...			1.321	1.348	1.329	1.304	1.284	1.261	1.267	1.302	2.51
45)	T	2,6-Dinitrotol...			0.282	0.287	0.312	0.317	0.310	0.310	0.312	0.304	4.51
46)		3-Nitroaniline			0.347	0.359	0.397	0.414	0.391	0.386	0.397	0.385	6.13
47)	T,C	Acenaphthene	1.092	1.415	1.241	1.261	1.214	1.187	1.155	1.138	1.123	1.203	8.08
48)	T,P	2,4-Dinitrophenol				0.084	0.130	0.163	0.169	0.174	0.180	0.150	24.59
49)		Dibenzofuran			1.661	1.584	1.495	1.480	1.416	1.404	1.365	1.486	7.08
50)	T,P	4-Nitrophenol			0.180	0.215	0.238	0.264	0.223	0.225	0.232	0.225	11.30
51)	T	2,4-Dinitrotol...			0.368	0.360	0.396	0.411	0.391	0.388	0.398	0.387	4.53
52)	T	Fluorene	1.080	1.288	1.296	1.191	1.181	1.197	1.134	1.125	1.090	1.176	6.61
53)	T	4-Chlorophenyl...			0.605	0.604	0.584	0.571	0.555	0.547	0.545	0.573	4.43
54)	T	Diethyl phthalate			1.290	1.259	1.250	1.300	1.250	1.237	1.234	1.260	2.04
55)		4-Nitroaniline			0.281	0.306	0.376	0.417	0.373	0.374	0.398	0.361	13.62
6)	I	Phenanthrene-d10	----------ISTD----------										
7)	T	4,6-Dinitro-2-...			0.094	0.106	0.134	0.142	0.153	0.153	0.157	0.134	18.51
8)	C	n-Nitrosodiphe...			1.220	1.281	1.304	1.172	1.187	1.194	1.200	1.223	4.11
9)		1,2-diphenyl-H...			0.915	1.038	1.043	0.971	1.036	1.033	1.006	1.006	4.73
0)	S	2,4,6-Tribromo...			0.109	0.113	0.120	0.112	0.118	0.118	0.124	0.116	4.38
1)	T	4-Bromophenyl ...			0.236	0.231	0.241	0.220	0.233	0.233	0.233	0.232	2.67
2)	T	Hexachlorobenzene			0.226	0.221	0.215	0.215	0.211	0.211	0.208	0.215	2.95
3)	T,C	Pentachlorophenol			0.120	0.125	0.138	0.148	0.144	0.145	0.150	0.138	8.37
4)	T	Phenanthrene	1.214	1.340	1.233	1.211	1.159	1.164	1.143	1.139	1.123	1.192	5.65
5)	T	Anthracene	0.928	1.246	1.229	1.192	1.170	1.198	1.155	1.142	1.137	1.155	8.06
6)		Carbazole			1.130	1.147	1.139	1.197	1.104	1.116	1.132	1.138	2.63
7)	T	Di-n-butyl pht...			1.307	1.319	1.334	1.397	1.381	1.351	1.310	1.343	2.63
8)	T,C	Fluoranthene	1.069	1.266	1.240	1.146	1.147	1.263	1.106	1.110	1.110	1.162	6.42
69)	I	Chrysene-d12	----------ISTD----------										
70)		Benzidine			0.528	0.619	0.596	0.523	0.526	0.505	0.441	0.534	11.03
71)	T	Pyrene	1.192	1.309	1.445	1.244	1.211	1.233	1.316	1.265	1.232	1.272	6.05
72)	S	Terphenyl-d14	0.615	0.802	0.906	0.812	0.765	0.776	0.841	0.807	0.776	0.789	9.90
73)	T	Butyl benzyl p...			0.574	0.568	0.589	0.602	0.664	0.628	0.614	0.605	5.51
74)	T	Benzo[a]anthra...	1.079	1.244	1.226	1.181	1.196	1.183	1.173	1.175	1.144	1.178	4.03
75)	T	3,3'-Dichlorob...			0.373	0.418	0.450	0.431	0.435	0.435	0.434	0.425	5.82
76)	T	Chrysene	1.003	1.321	1.167	1.128	1.143	1.129	1.127	1.109	1.104	1.137	7.28
77)	T	bis(2-Ethylhex...			0.807	0.799	0.836	0.827	0.936	0.868	0.831	0.844	5.48
78)	I	Perylene-d12	----------ISTD----------										
79)	T,C	Di-n-octyl pht...			1.322	1.214	1.282	1.345	1.435	1.372	1.313	1.326	5.24
80)	T	Benzo[b]fluora...	0.835	1.145	1.152	1.162	1.070	1.063	1.037	1.027	1.085	1.064	9.34
81)	T	Benzo[k]fluora...	0.886	1.077	1.041	0.947	0.969	0.971	0.916	0.924	0.844	0.953	7.63
82)	T,C	Benzo[a]pyrene	0.734	0.981	0.974	0.976	0.996	1.003	0.973	0.972	0.958	0.952	8.70
83)	T	Indeno[1,2,3cd...	0.948	1.259	1.025	1.211	1.172	1.128	1.125	1.095	1.079	1.116	8.47
84)	T	Dibenz[a,h]ant...	0.769	1.115	0.652	0.798	0.738	0.678	0.673	0.644	0.631	0.744	20.26
85)	T	Benzo[g,h,i]pe...	0.928	1.220	0.880	1.056	1.034	0.999	0.982	0.961	0.944	1.000	9.83

Method Path : C:\msdchem\1\METHODS\
Method File : SVOA0916.M
Title : BNA Quantitation

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091602.D Vial: 2
Acq On : 16 Sep 2008 3:15 pm Operator: mills
Sample : ,ical,pna ical 1.0ug/ml,1,ab70-03 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 15:33:55 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Mon Sep 15 22:37:38 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	49945	40.00	ug/ml	-0.05
19) Naphthalene-d8	5.11	136	204543	40.00	ug/ml	-0.05
36) Acenaphthene-d10	6.99	164	97479	40.00	ug/ml	-0.05
56) Phenanthrene-d10	8.61	188	135444	40.00	ug/ml	-0.05
69) Chrysene-d12	11.02	240	138530	40.00	ug/ml	-0.04
78) Perylene-d12	12.04	264	169012	40.00	ug/ml	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0	0.00	ug/ml	
5) Phenol-d5	0.00	99	0	0.00	ug/ml	
20) Nitrobenzene-d5	4.38	82	1445	0.76	ug/ml	-0.05
40) 2-Fluorobiphenyl	6.28	172	2782	0.92	ug/ml	-0.05
60) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/ml	
72) Terphenyl-d14	10.18	244	2130	0.67	ug/ml	-0.04
Target Compounds						Qvalue
30) Naphthalene	5.13	128	4407	0.89	ug/ml#	92
43) Acenaphthylene	6.84	152	3476	0.81	ug/ml	96
47) Acenaphthene	7.02	153	2660	0.92	ug/ml	77
52) Fluorene	7.59	166	2633	0.88	ug/ml#	96
64) Phenanthrene	8.64	178	4110	1.03	ug/ml#	85
65) Anthracene	8.69	178	3141	0.78	ug/ml#	85
68) Fluoranthene	9.82	202	3619	0.93	ug/ml#	79
71) Pyrene	10.02	202	4128	0.84	ug/ml#	82
74) Benzo[a]anthracene	11.01	228	3737	0.94	ug/ml	90
76) Chrysene	11.04	228	3475m2	0.89	ug/ml	
80) Benzo[b]fluoranthene	11.78	252	3527m2	0.78	ug/ml	
81) Benzo[k]fluoranthene	11.79	252	3744	0.89	ug/ml	93
82) Benzo[a]pyrene	12.00	252	3101m2	0.77	ug/ml	
83) Indeno[1,2,3cd]pyrene	12.83	276	4004	0.95	ug/ml#	71
84) Dibenz[a,h]anthracene	12.85	278	3250	1.20	ug/ml#	68
85) Benzo[g,h,i]perylene	13.06	276	3919	1.05	ug/ml#	72

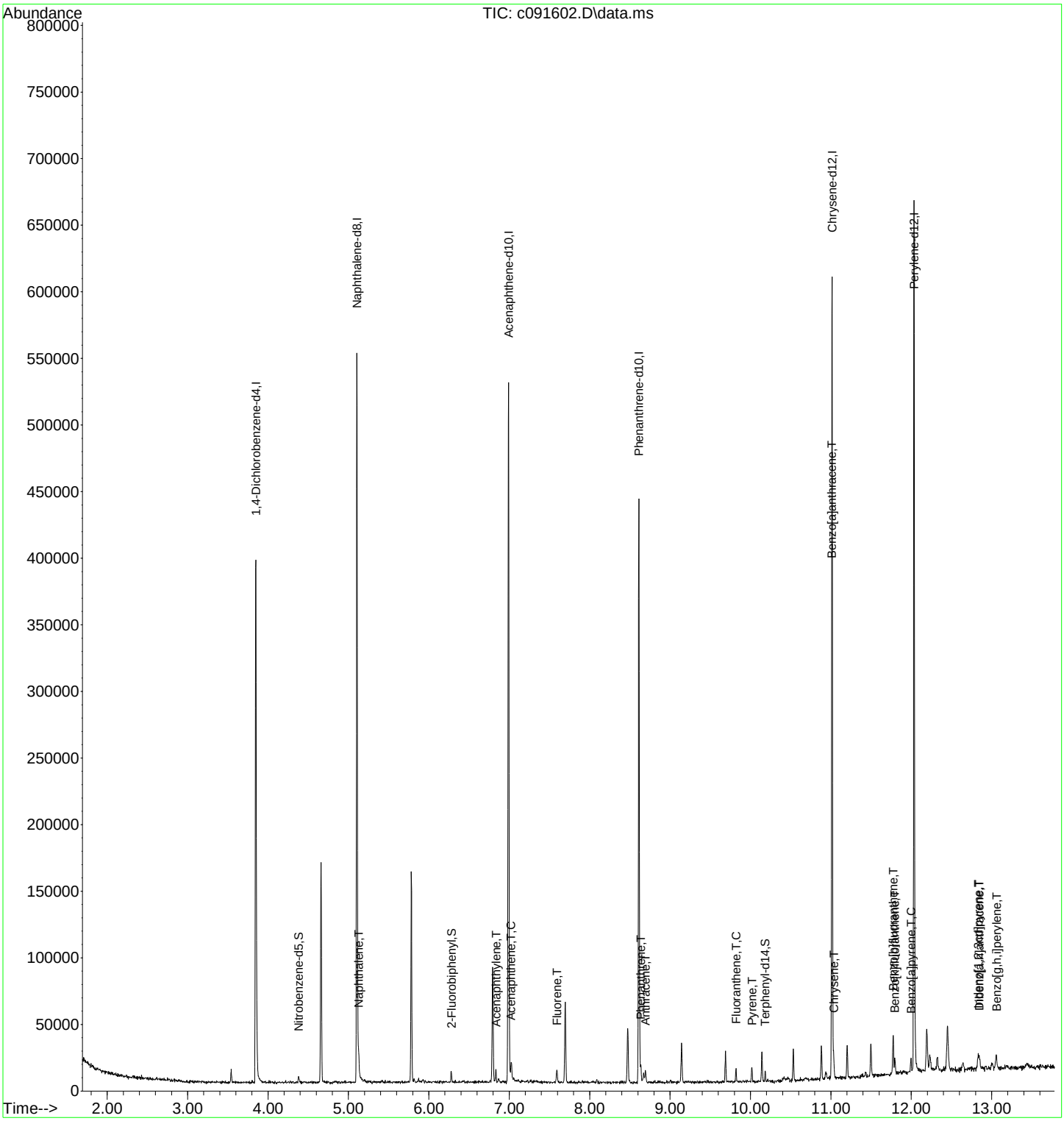
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091602.D
Acq On : 16 Sep 2008 3:15 pm
Sample : ,ical,pna ical 1.0ug/ml,1,ab70-03
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 15:33:55 2008
Quant Results File: SVOA0916.RES

Vial: 2
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Mon Sep 15 22:37:38 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091603.D Vial: 3
Acq On : 16 Sep 2008 3:34 pm Operator: mills
Sample : ,ical,pna ical 5.0ug/ml,1,ab70-05 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 16:10:51 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:10:04 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	73074	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	287814	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	129914	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.61	188	181200	40.00	ug/ml	0.00
69) Chrysene-d12	11.01	240	178353	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	212128	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.00	112	0	0.00	ug/ml	
5) Phenol-d5	0.00	99	0	0.00	ug/ml	
20) Nitrobenzene-d5	4.38	82	13498	5.03	ug/ml	0.00
40) 2-Fluorobiphenyl	6.28	172	24016	5.96	ug/ml	0.00
60) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/ml	
72) Terphenyl-d14	10.18	244	17891	4.47	ug/ml	0.00
Target Compounds						Qvalue
30) Naphthalene	5.13	128	40009	5.74	ug/ml	99
43) Acenaphthylene	6.83	152	29658	5.16	ug/ml	97
47) Acenaphthene	7.02	153	22982	5.93	ug/ml	97
52) Fluorene	7.59	166	20914	5.24	ug/ml	97
64) Phenanthrene	8.64	178	30356	5.60	ug/ml	99
65) Anthracene	8.69	178	28211	5.27	ug/ml	98
68) Fluoranthene	9.82	202	28672	5.42	ug/ml	96
71) Pyrene	10.02	202	29183	4.59	ug/ml	97
74) Benzo[a]anthracene	11.01	228	27745	5.36	ug/ml	94
76) Chrysene	11.03	228	29451	5.86	ug/ml	97
80) Benzo[b]fluoranthene	11.77	252	30363	5.40	ug/ml	95
81) Benzo[k]fluoranthene	11.79	252	28567	5.43	ug/ml	96
82) Benzo[a]pyrene	11.99	252	26020	5.16	ug/ml	95
83) Indeno[1,2,3cd]pyrene	12.82	276	33394	6.21	ug/ml	95
84) Dibenz[a,h]anthracene	12.84	278	29574	8.61	ug/ml#	88
85) Benzo[g,h,i]perylene	13.05	276	32357	6.77	ug/ml	91

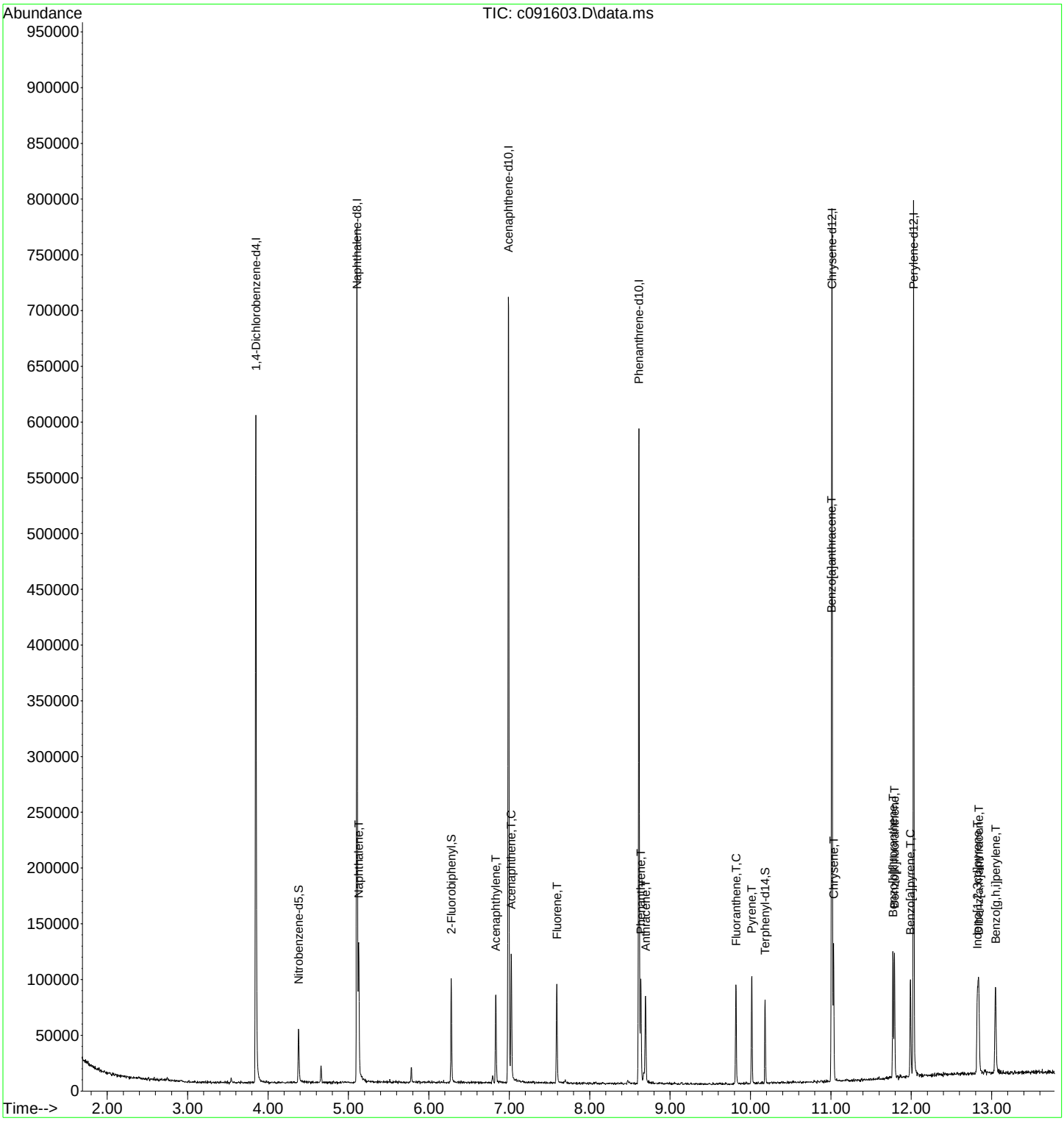
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091603.D
Acq On : 16 Sep 2008 3:34 pm
Sample : ,ical,pna ical 5.0ug/ml,1,ab70-05
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 16:10:51 2008
Quant Results File: SVOA0916.RES

Vial: 3
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:10:04 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091604.D Vial: 4
Acq On : 16 Sep 2008 3:53 pm Operator: mills
Sample : ,ical,svoa ical 10ug/ml,1,ab86-01 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 16:08:39 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 15:34:51 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	63137	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	258377	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	121063	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.61	188	166404	40.00	ug/ml	0.00
69) Chrysene-d12	11.01	240	153097	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	169963	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.74	112	21148	9.63	ug/ml	-0.04
5) Phenol-d5	3.51	99	28440	9.90	ug/ml	-0.05
20) Nitrobenzene-d5	4.38	82	25949	10.78	ug/ml	0.00
40) 2-Fluorobiphenyl	6.28	172	42304	11.26	ug/ml	0.00
60) 2,4,6-Tribromophenol	7.85	330	4075	9.67	ug/ml	-0.05
72) Terphenyl-d14	10.18	244	32196	9.38	ug/ml	0.00
Target Compounds						Qvalue
2) Pyridine	2.12	79	17538m3	7.26	ug/ml	
3) n-Nitrosodimethylamine	2.07	74	9150m3	6.15	ug/ml	
6) Phenol	3.53	94	29445	9.15	ug/ml	94
7) Aniline	3.56	93	35614	11.07	ug/ml	93
8) bis(2-Chloroethyl)ether	3.62	93	23959	9.61	ug/ml	98
9) 2-Chlorophenol	3.65	128	21535	10.02	ug/ml	97
10) 1,3-Dichlorobenzene	3.79	146	24979m2	10.62	ug/ml	
11) 1,4-Dichlorobenzene	3.86	146	25793	10.69	ug/ml	97
12) 1,2-Dichlorobenzene	4.00	146	25003m2	11.03	ug/ml	
13) Benzyl alcohol	3.99	108	13442m1	9.94	ug/ml	
14) 2,2-oxybis(1-chloropropan	4.12	45	60120	11.76	ug/ml	99
15) 2-Methylphenol	4.09	108	22641m1	11.62	ug/ml	
16) Hexachloroethane	4.33	117	9041	10.13	ug/ml	85
17) N-Nitrosodi-n-propylamine	4.24	70	16845	10.30	ug/ml	97
18) 3/4-Methylphenol	4.24	108	21733	9.79	ug/ml	94
21) Nitrobenzene	4.40	77	26973	10.89	ug/ml	96
22) Acetophenone	4.24	105	34675	10.47	ug/ml	93
23) Isophorone	4.64	82	41488	10.11	ug/ml	98
24) 2-Nitrophenol	4.72	139	9209	8.72	ug/ml	97
25) 2,4-Dimethylphenol	4.78	107	21751	10.21	ug/ml	98
26) bis(2-Chloroethoxy)methan	4.89	93	28209m1	10.46	ug/ml	
27) 2,4-Dichlorophenol	4.96	162	15974	10.04	ug/ml	98
29) 1,2,4-Trichlorobenzene	5.05	180	18972	11.19	ug/ml	90
30) Naphthalene	5.13	128	64421	10.30	ug/ml	97
31) 2,6-Dichlorophenol	5.20	162	16292	10.41	ug/ml	89
32) 4-Chloroaniline	5.20	127	26067m5	11.84	ug/ml	
33) Hexachlorobutadiene	5.28	225	10321	11.61	ug/ml	97
34) 4-Chloro-3-methylphenol	5.73	107	17602	9.40	ug/ml	88
35) 2-Methylnaphthalene	5.87	142	38999	9.80	ug/ml	86
37) Hexachlorocyclopentadiene	6.05	237	6335	13.65	ug/ml	96
38) 2,4,5-Trichlorophenol	6.21	196	10443	10.25	ug/ml	84
39) 2,4,6-Trichlorophenol	6.18	196	10544m2	10.39	ug/ml	
41) 2-Chloronaphthalene	6.39	162	39319	10.71	ug/ml	98
42) 2-Nitroaniline	6.51	65	13497	10.13	ug/ml	94
43) Acenaphthylene	6.83	152	53831	10.06	ug/ml	95
44) Dimethyl phthalate	6.74	163	38464	9.93	ug/ml	96
45) 2,6-Dinitrotoluene	6.79	165	7208	8.39	ug/ml	97
46) 3-Nitroaniline	6.96	138	9664	9.77	ug/ml	94

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091604.D Vial: 4
Acq On : 16 Sep 2008 3:53 pm Operator: mills
Sample : ,ical,svoa ical 10ug/ml,1,ab86-01 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 16:08:39 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 15:34:51 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) Acenaphthene	7.03	153	37685	10.43 ug/ml	96
48) 2,4-Dinitrophenol	7.07	184	1551	4.29 ug/ml	82
49) Dibenzofuran	7.22	168	46894	9.88 ug/ml	99
50) 4-Nitrophenol	7.16	109	5296	11.20 ug/ml	90
51) 2,4-Dinitrotoluene	7.22	165	10132	8.75 ug/ml	84
52) Fluorene	7.59	166	36774	9.89 ug/ml	91
53) 4-Chlorophenyl phenylethe	7.61	204	17899	10.82 ug/ml	90
54) Diethyl phthalate	7.52	149	37509	10.82 ug/ml	96
55) 4-Nitroaniline	7.62	138	8861	8.89 ug/ml	91
57) 4,6-Dinitro-2-methylpheno	7.66	198	2983	5.93 ug/ml	79
58) n-Nitrosodiphenylamine	7.75	169	52514	10.90 ug/ml	90
59) 1,2-diphenyl-Hydrazine	7.79	77	40964	9.85 ug/ml	95
61) 4-Bromophenyl phenylether	8.15	248	9950	10.90 ug/ml	95
62) Hexachlorobenzene	8.19	284	9432	10.67 ug/ml	89
63) Pentachlorophenol	8.41	266	4655	12.02 ug/ml	86
64) Phenanthrene	8.64	178	50196	10.08 ug/ml	97
65) Anthracene	8.69	178	50468	10.26 ug/ml	99
66) Carbazole	8.88	167	44469	9.52 ug/ml	100
67) Di-n-butyl phthalate	9.30	149	49989	9.68 ug/ml	98
68) Fluoranthene	9.82	202	45137	9.29 ug/ml	90
70) Benzidine	9.96	184	23802	13.17 ug/ml	99
71) Pyrene	10.02	202	50352	9.22 ug/ml	94
73) Butyl benzyl phthalate	10.61	149	19226	7.66 ug/ml	88
74) Benzo[a]anthracene	11.01	228	44740	10.08 ug/ml	97
75) 3,3'-Dichlorobenzidine	11.00	252	15717	9.72 ug/ml	93
76) Chrysene	11.03	228	44238	10.25 ug/ml	97
77) bis(2-Ethylhexyl)phthalat	11.07	149	26708	8.18 ug/ml	100
79) Di-n-octyl phthalate	11.54	149	42326	6.64 ug/ml	96
80) Benzo[b]fluoranthene	11.77	252	46487	10.32 ug/ml	97
81) Benzo[k]fluoranthene	11.79	252	42853	10.16 ug/ml	98
82) Benzo[a]pyrene	11.99	252	41063	10.15 ug/ml	95
83) Indeno[1,2,3cd]pyrene	12.83	276	49534	11.49 ug/ml	96
84) Dibenz[a,h]anthracene	12.84	278	33250	12.08 ug/ml	95
85) Benzo[g,h,i]perylene	13.05	276	43469	11.35 ug/ml	96

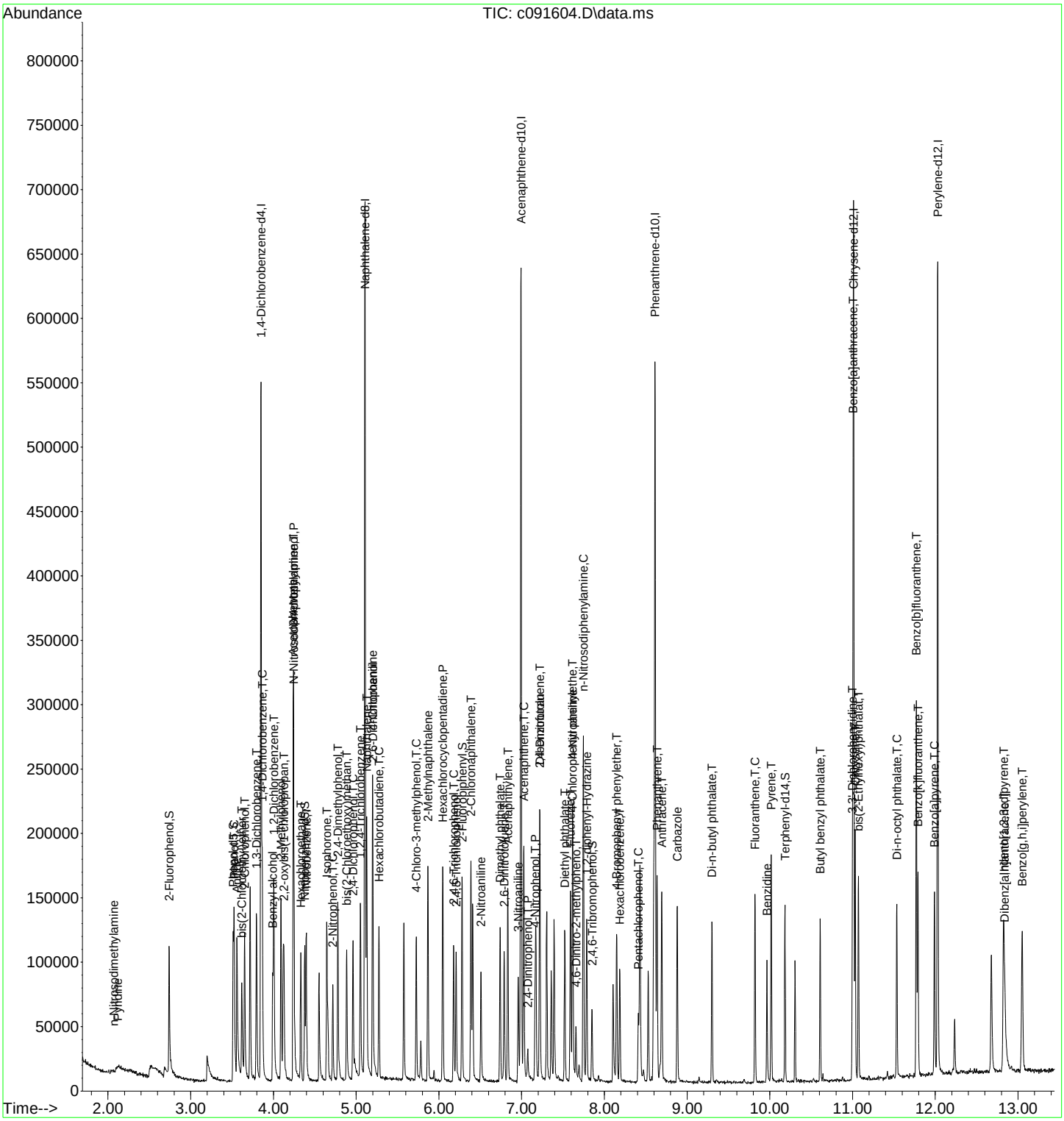
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091604.D
Acq On : 16 Sep 2008 3:53 pm
Sample : ,ical,svoa ical 10ug/ml,1,ab86-01
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 16:08:39 2008
Quant Results File: SVOA0916.RES

Vial: 4
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 15:34:51 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091605.D Vial: 5
Acq On : 16 Sep 2008 4:12 pm Operator: mills
Sample : ,ical,svoa ical 20ug/ml,1,ab86-02 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 16:37:00 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:13:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	64812	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	260230	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	117676	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.61	188	167268	40.00	ug/ml	0.00
69) Chrysene-d12	11.02	240	167337	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	191659	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.74	112	45566	20.22	ug/ml	0.00
5) Phenol-d5	3.51	99	59228	20.09	ug/ml	0.00
20) Nitrobenzene-d5	4.38	82	53607	22.08	ug/ml	0.00
40) 2-Fluorobiphenyl	6.28	172	80845	22.17	ug/ml	0.00
60) 2,4,6-Tribromophenol	7.85	330	9482	22.39	ug/ml	0.00
72) Terphenyl-d14	10.18	244	67965	18.48	ug/ml	0.00
Target Compounds						Qvalue
2) Pyridine	2.03	79	35279m3	14.24	ug/ml	
3) n-Nitrosodimethylamine	1.97	74	23294m3	15.24	ug/ml	
6) Phenol	3.53	94	59736	18.08	ug/ml	94
7) Aniline	3.56	93	71645	21.69	ug/ml	93
8) bis(2-Chloroethyl)ether	3.62	93	41181	16.08	ug/ml	96
9) 2-Chlorophenol	3.65	128	44321	20.08	ug/ml	93
10) 1,3-Dichlorobenzene	3.80	146	50120	20.76	ug/ml	98
11) 1,4-Dichlorobenzene	3.87	146	50174	20.25	ug/ml	99
12) 1,2-Dichlorobenzene	4.01	146	47971	20.62	ug/ml	90
13) Benzyl alcohol	3.99	108	27932m1	17.97	ug/ml	
14) 2,2-oxybis(1-chloropropan	4.12	45	120762	20.22	ug/ml	100
15) 2-Methylphenol	4.09	108	45047	19.99	ug/ml	93
16) Hexachloroethane	4.33	117	18861	20.59	ug/ml	94
17) N-Nitrosodi-n-propylamine	4.24	70	34751	20.70	ug/ml	96
18) 3/4-Methylphenol	4.24	108	45120	19.80	ug/ml	99
21) Nitrobenzene	4.40	77	55380	22.21	ug/ml	92
22) Acetophenone	4.24	105	69072	20.70	ug/ml	97
23) Isophorone	4.64	82	84276	20.39	ug/ml	99
24) 2-Nitrophenol	4.72	139	20450	19.23	ug/ml	99
25) 2,4-Dimethylphenol	4.78	107	44620	20.79	ug/ml	93
26) bis(2-Chloroethoxy)methan	4.89	93	56439	20.78	ug/ml	95
27) 2,4-Dichlorophenol	4.96	162	31705	19.78	ug/ml	98
28) Benzoic acid	4.85	122	4873m1	4.38	ug/ml	
29) 1,2,4-Trichlorobenzene	5.05	180	36784	21.54	ug/ml	98
30) Naphthalene	5.13	128	130553	20.78	ug/ml	97
31) 2,6-Dichlorophenol	5.20	162	33535	21.28	ug/ml	87
32) 4-Chloroaniline	5.20	127	54817	22.44	ug/ml	96
33) Hexachlorobutadiene	5.28	225	20059	22.40	ug/ml	98
34) 4-Chloro-3-methylphenol	5.73	107	35924	19.04	ug/ml	95
35) 2-Methylnaphthalene	5.87	142	78244	19.53	ug/ml	98
37) Hexachlorocyclopentadiene	6.05	237	12698	28.14	ug/ml	89
38) 2,4,5-Trichlorophenol	6.21	196	21940	22.15	ug/ml	95
39) 2,4,6-Trichlorophenol	6.18	196	20857	21.15	ug/ml	100
41) 2-Chloronaphthalene	6.39	162	76412	21.42	ug/ml	95
42) 2-Nitroaniline	6.51	65	29065	22.44	ug/ml	93
43) Acenaphthylene	6.83	152	106980	20.68	ug/ml	97
44) Dimethyl phthalate	6.74	163	79312	21.06	ug/ml	97
45) 2,6-Dinitrotoluene	6.79	165	16892	20.22	ug/ml	93

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091605.D Vial: 5
Acq On : 16 Sep 2008 4:12 pm Operator: mills
Sample : ,ical,svoa ical 20ug/ml,1,ab86-02 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 16:37:00 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:13:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 3-Nitroaniline	6.96	138	21094	21.95	ug/ml	97
47) Acenaphthene	7.03	153	74170	20.98	ug/ml	94
48) 2,4-Dinitrophenol	7.07	184	4948	14.06	ug/ml	84
49) Dibenzofuran	7.22	168	93203	20.20	ug/ml	99
50) 4-Nitrophenol	7.16	109	12654	27.54	ug/ml	92
51) 2,4-Dinitrotoluene	7.22	165	21195	18.83	ug/ml	90
52) Fluorene	7.59	166	70095	19.53	ug/ml	95
53) 4-Chlorophenyl phenylethe	7.62	204	35548	22.12	ug/ml	94
54) Diethyl phthalate	7.52	149	74059	19.56	ug/ml	98
55) 4-Nitroaniline	7.62	138	17985	18.57	ug/ml	97
57) 4,6-Dinitro-2-methylpheno	7.66	198	8893	17.59	ug/ml	88
58) n-Nitrosodiphenylamine	7.75	169	107128	22.11	ug/ml	95
59) 1,2-diphenyl-Hydrazine	7.79	77	86839	20.77	ug/ml	96
61) 4-Bromophenyl phenylether	8.15	248	19358	21.10	ug/ml	84
62) Hexachlorobenzene	8.19	284	18522	20.84	ug/ml	92
63) Pentachlorophenol	8.41	266	10437	26.81	ug/ml	93
64) Phenanthrene	8.64	178	101241	20.20	ug/ml	98
65) Anthracene	8.69	178	99681	20.24	ug/ml	98
66) Carbazole	8.88	167	95927	20.44	ug/ml	99
67) Di-n-butyl phthalate	9.30	149	110279	18.73	ug/ml#	98
68) Fluoranthene	9.82	202	95808	19.75	ug/ml	93
70) Benzidine	9.96	184	51819	23.64	ug/ml	98
71) Pyrene	10.02	202	104048	17.75	ug/ml	99
73) Butyl benzyl phthalate	10.61	149	47499	15.31	ug/ml	87
74) Benzo[a]anthracene	11.01	228	98829	20.38	ug/ml	98
75) 3,3'-Dichlorobenzidine	11.00	252	34995	19.81	ug/ml#	84
76) Chrysene	11.03	228	94345	19.90	ug/ml	96
77) bis(2-Ethylhexyl)phthalat	11.07	149	66887	16.57	ug/ml	100
79) Di-n-octyl phthalate	11.54	149	116352	14.23	ug/ml	100
80) Benzo[b]fluoranthene	11.77	252	111306	21.95	ug/ml	96
81) Benzo[k]fluoranthene	11.79	252	90777	19.26	ug/ml	98
82) Benzo[a]pyrene	11.99	252	93568	20.51	ug/ml	98
83) Indeno[1,2,3cd]pyrene	12.83	276	116034	23.45	ug/ml	97
84) Dibenz[a,h]anthracene	12.85	278	76448	23.87	ug/ml	96
85) Benzo[g,h,i]perylene	13.06	276	101159	22.78	ug/ml	92

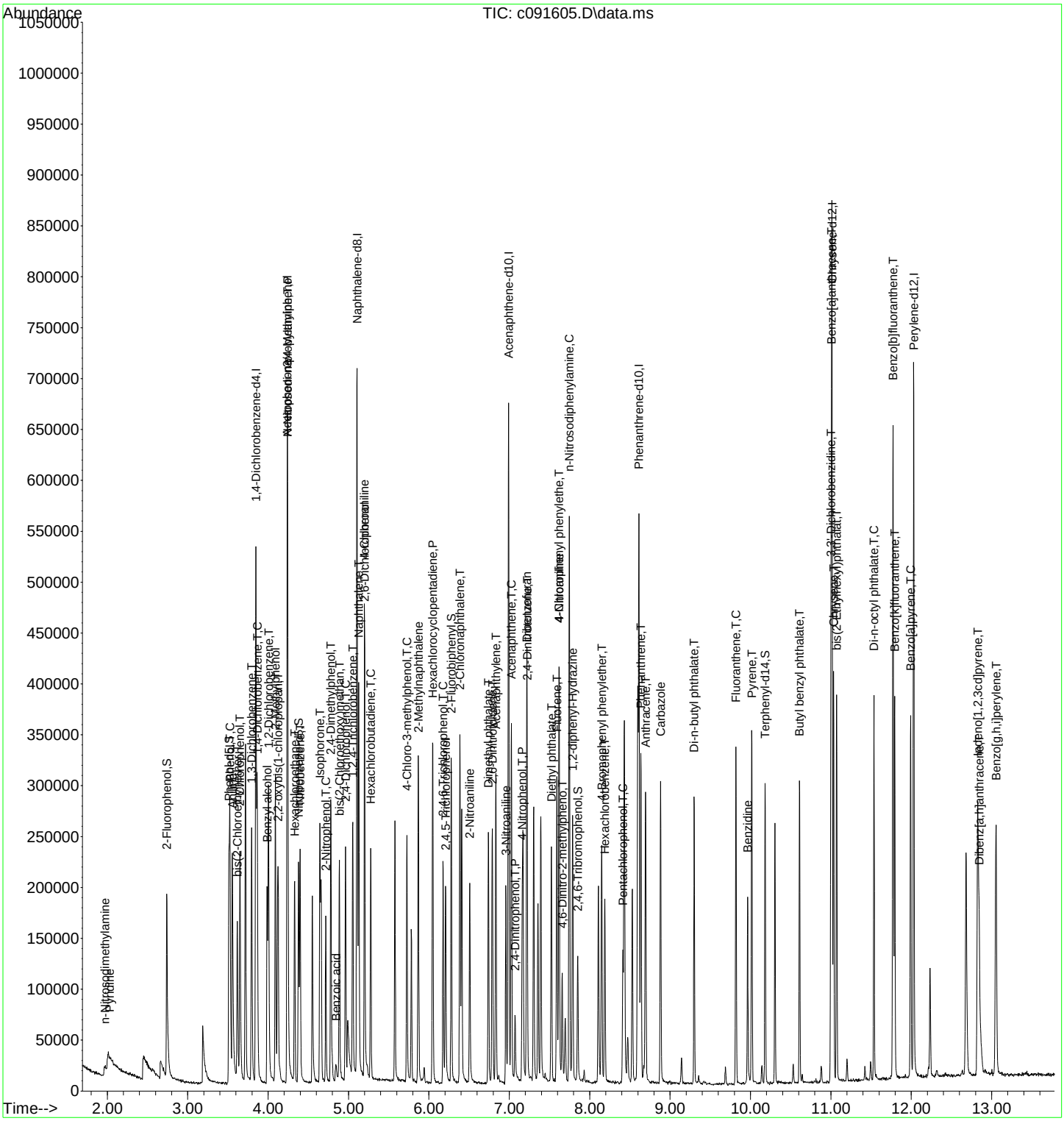
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091605.D
Acq On : 16 Sep 2008 4:12 pm
Sample : ,ical,svoa ical 20ug/ml,1,ab86-02
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 16:37:00 2008
Quant Results File: SVOA0916.RES

Vial: 5
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:13:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091606.D Vial: 6
Acq On : 16 Sep 2008 4:31 pm Operator: mills
Sample : ,ical,svoa ical 50ug/ml,1,ab86-03 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:22:41 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:38:14 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	71289	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	290954	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	130603	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.61	188	178086	40.00	ug/ml	0.00
69) Chrysene-d12	11.02	240	181221	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	215408	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.74	112	127447	51.15	ug/ml	0.00
5) Phenol-d5	3.51	99	166591	51.12	ug/ml	0.00
20) Nitrobenzene-d5	4.38	82	153713	56.07	ug/ml	0.00
40) 2-Fluorobiphenyl	6.28	172	220544	54.00	ug/ml	0.00
60) 2,4,6-Tribromophenol	7.85	330	26627	57.47	ug/ml	0.00
72) Terphenyl-d14	10.18	244	173220	44.41	ug/ml	0.00
Target Compounds						Qvalue
2) Pyridine	1.91	79	115369m3	44.94	ug/ml	
3) n-Nitrosodimethylamine	1.89	74	74637m3	46.32	ug/ml	
6) Phenol	3.53	94	168498	47.17	ug/ml	99
7) Aniline	3.55	93	209896	57.49	ug/ml	93
8) bis(2-Chloroethyl)ether	3.62	93	118792	43.57	ug/ml	98
9) 2-Chlorophenol	3.65	128	123533	50.99	ug/ml	92
10) 1,3-Dichlorobenzene	3.80	146	136604	51.42	ug/ml	99
11) 1,4-Dichlorobenzene	3.87	146	140848	51.78	ug/ml	100
12) 1,2-Dichlorobenzene	4.01	146	131919	51.59	ug/ml	94
13) Benzyl alcohol	3.99	108	86420	50.91	ug/ml	99
14) 2,2-oxybis(1-chloropropan	4.12	45	331488	50.64	ug/ml	99
15) 2-Methylphenol	4.09	108	124072	49.97	ug/ml	97
16) Hexachloroethane	4.33	117	52423	52.15	ug/ml	99
17) N-Nitrosodi-n-propylamine	4.25	70	98710	53.51	ug/ml	97
18) 3/4-Methylphenol	4.24	108	123896	49.43	ug/ml	99
21) Nitrobenzene	4.40	77	155312	54.79	ug/ml	99
22) Acetophenone	4.24	105	192235	51.15	ug/ml	94
23) Isophorone	4.64	82	241827	52.05	ug/ml	98
24) 2-Nitrophenol	4.72	139	61845	51.94	ug/ml	98
25) 2,4-Dimethylphenol	4.78	107	125769	52.20	ug/ml	97
26) bis(2-Chloroethoxy)methan	4.89	93	161486	52.98	ug/ml	100
27) 2,4-Dichlorophenol	4.97	162	92977	51.67	ug/ml	98
28) Benzoic acid	4.88	122	46125m2	41.06	ug/ml	
29) 1,2,4-Trichlorobenzene	5.05	180	100208	52.15	ug/ml	95
30) Naphthalene	5.13	128	351474	50.02	ug/ml	97
31) 2,6-Dichlorophenol	5.20	162	91094	51.43	ug/ml	99
32) 4-Chloroaniline	5.20	127	146720	52.65	ug/ml	96
33) Hexachlorobutadiene	5.28	225	56123	55.41	ug/ml	96
34) 4-Chloro-3-methylphenol	5.73	107	107857	51.29	ug/ml	99
35) 2-Methylnaphthalene	5.87	142	210090	47.25	ug/ml	100
37) Hexachlorocyclopentadiene	6.05	237	36735	66.67	ug/ml	90
38) 2,4,5-Trichlorophenol	6.21	196	66052m2	58.82	ug/ml	
39) 2,4,6-Trichlorophenol	6.18	196	63134	57.08	ug/ml	96
41) 2-Chloronaphthalene	6.39	162	211390	53.01	ug/ml	94
42) 2-Nitroaniline	6.51	65	87261	58.89	ug/ml	97
43) Acenaphthylene	6.83	152	291978	50.89	ug/ml	97
44) Dimethyl phthalate	6.74	163	216945	51.43	ug/ml	99
45) 2,6-Dinitrotoluene	6.79	165	51012	54.15	ug/ml	89

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091606.D Vial: 6
Acq On : 16 Sep 2008 4:31 pm Operator: mills
Sample : ,ical,svoa ical 50ug/ml,1,ab86-03 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:22:41 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:38:14 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) 3-Nitroaniline	6.96	138	64832	59.00 ug/ml	99
47) Acenaphthene	7.03	153	198236	50.55 ug/ml	98
48) 2,4-Dinitrophenol	7.08	184	21174	56.63 ug/ml	90
49) Dibenzofuran	7.22	168	244007	47.79 ug/ml	99
50) 4-Nitrophenol	7.17	109	38855	69.81 ug/ml	90
51) 2,4-Dinitrotoluene	7.22	165	64629	51.34 ug/ml	87
52) Fluorene	7.59	166	192757	48.71 ug/ml	99
53) 4-Chlorophenyl phenylethe	7.62	204	95297	52.72 ug/ml	95
54) Diethyl phthalate	7.53	149	204052	48.76 ug/ml	99
55) 4-Nitroaniline	7.63	138	61408	56.67 ug/ml	97
57) 4,6-Dinitro-2-methylpheno	7.66	198	29765	54.79 ug/ml	96
58) n-Nitrosodiphenylamine	7.75	169	290307	56.15 ug/ml	97
59) 1,2-diphenyl-Hydrazine	7.79	77	232239	52.34 ug/ml	99
61) 4-Bromophenyl phenylether	8.15	248	53588	54.69 ug/ml	94
62) Hexachlorobenzene	8.19	284	47849	50.58 ug/ml	99
63) Pentachlorophenol	8.42	266	30674	67.77 ug/ml	93
64) Phenanthrene	8.64	178	257901	48.50 ug/ml	98
65) Anthracene	8.70	178	260475	50.01 ug/ml	95
66) Carbazole	8.88	167	253641	50.65 ug/ml	99
67) Di-n-butyl phthalate	9.30	149	297025	48.16 ug/ml	98
68) Fluoranthene	9.82	202	255331	49.51 ug/ml	97
70) Benzidine	9.97	184	134999	57.50 ug/ml	97
71) Pyrene	10.02	202	274410	44.05 ug/ml	95
73) Butyl benzyl phthalate	10.61	149	133370	41.79 ug/ml	97
74) Benzo[a]anthracene	11.01	228	271038	51.83 ug/ml	99
75) 3,3'-Dichlorobenzidine	11.00	252	101952	54.03 ug/ml	98
76) Chrysene	11.04	228	258894	50.57 ug/ml	97
77) bis(2-Ethylhexyl)phthalat	11.07	149	189299	45.31 ug/ml	98
79) Di-n-octyl phthalate	11.54	149	345136	40.14 ug/ml	99
80) Benzo[b]fluoranthene	11.77	252	288205	50.62 ug/ml	99
81) Benzo[k]fluoranthene	11.79	252	261028	50.07 ug/ml	98
82) Benzo[a]pyrene	11.99	252	268116	52.64 ug/ml	98
83) Indeno[1,2,3cd]pyrene	12.83	276	315668	56.00 ug/ml	98
84) Dibenz[a,h]anthracene	12.84	278	198589	54.30 ug/ml	98
85) Benzo[g,h,i]perylene	13.06	276	278393	54.90 ug/ml	90

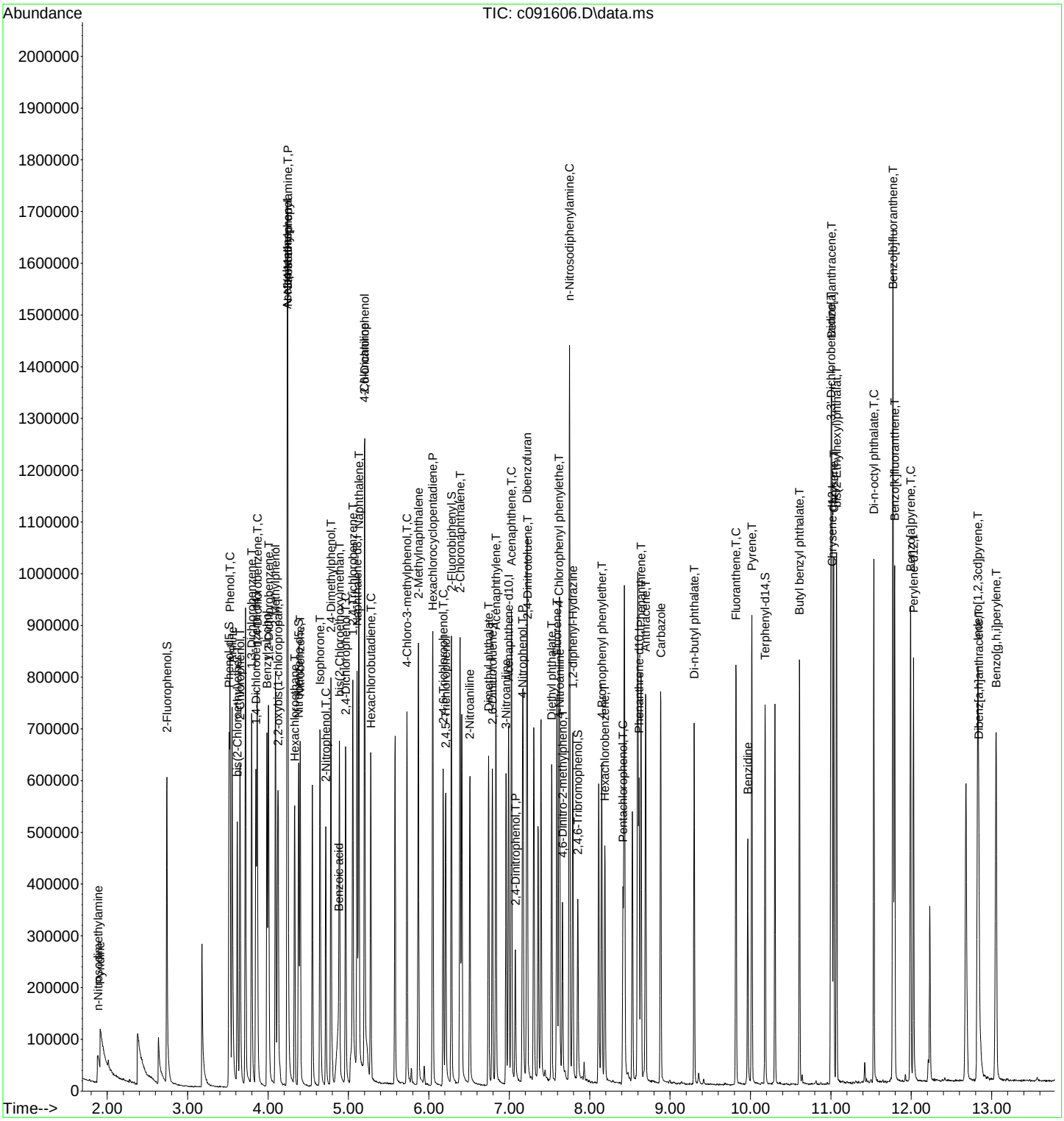
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091606.D
Acq On : 16 Sep 2008 4:31 pm
Sample : ,ical,svoa ical 50ug/ml,1,ab86-03
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 17:22:41 2008
Quant Results File: SVOA0916.RES

Vial: 6
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 16:38:14 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091607.D Vial: 7
Acq On : 16 Sep 2008 4:50 pm Operator: mills
Sample : ,ical,svoa ical 80ug/ml,1,ab86-04 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:24:17 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:23:19 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	62597	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	257948	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	125852	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.61	188	192621	40.00	ug/ml	0.00
69) Chrysene-d12	11.02	240	216175	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	238280	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.74	112	182261	83.14	ug/ml	0.00
5) Phenol-d5	3.52	99	240058	83.91	ug/ml	0.00
20) Nitrobenzene-d5	4.38	82	221887	90.32	ug/ml	0.00
40) 2-Fluorobiphenyl	6.28	172	318661	80.05	ug/ml	0.00
60) 2,4,6-Tribromophenol	7.86	330	42965	83.04	ug/ml	0.00
72) Terphenyl-d14	10.18	244	335568	73.40	ug/ml	0.00
Target Compounds						Qvalue
2) Pyridine	1.91	79	171293m3	79.61	ug/ml	
3) n-Nitrosodimethylamine	1.88	74	99000m3	72.46	ug/ml	
6) Phenol	3.53	94	242085	78.48	ug/ml	96
7) Aniline	3.55	93	291946	89.58	ug/ml	99
8) bis(2-Chloroethyl)ether	3.62	93	189649	81.03	ug/ml	95
9) 2-Chlorophenol	3.65	128	175879	82.65	ug/ml	98
10) 1,3-Dichlorobenzene	3.80	146	191118	81.52	ug/ml	98
11) 1,4-Dichlorobenzene	3.87	146	194537	81.08	ug/ml	96
12) 1,2-Dichlorobenzene	4.01	146	181787	80.81	ug/ml	97
13) Benzyl alcohol	3.99	108	125431	84.23	ug/ml	96
14) 2,2-oxybis(1-chloropropan	4.12	45	467131	81.30	ug/ml	100
15) 2-Methylphenol	4.09	108	176878	81.37	ug/ml	98
16) Hexachloroethane	4.33	117	75099	84.55	ug/ml	99
17) N-Nitrosodi-n-propylamine	4.25	70	135795	83.74	ug/ml	99
18) 3/4-Methylphenol	4.25	108	174551	79.54	ug/ml	100
21) Nitrobenzene	4.40	77	218890	85.60	ug/ml	99
22) Acetophenone	4.24	105	269666	80.55	ug/ml	94
23) Isophorone	4.65	82	349467	84.12	ug/ml	98
24) 2-Nitrophenol	4.72	139	87955	82.72	ug/ml	97
25) 2,4-Dimethylphenol	4.78	107	175209	81.41	ug/ml	97
26) bis(2-Chloroethoxy)methan	4.89	93	230073	84.19	ug/ml	98
27) 2,4-Dichlorophenol	4.97	162	134013	83.46	ug/ml	98
28) Benzoic acid	4.90	122	93218m2	98.53	ug/ml	
29) 1,2,4-Trichlorobenzene	5.05	180	141762	82.43	ug/ml	94
30) Naphthalene	5.13	128	489672	78.57	ug/ml	100
31) 2,6-Dichlorophenol	5.20	162	128932	81.57	ug/ml	97
32) 4-Chloroaniline	5.20	127	205439	82.42	ug/ml	98
33) Hexachlorobutadiene	5.28	225	76156	83.08	ug/ml	97
34) 4-Chloro-3-methylphenol	5.73	107	157533	84.12	ug/ml	98
35) 2-Methylnaphthalene	5.87	142	305382	77.94	ug/ml	98
37) Hexachlorocyclopentadiene	6.05	237	48447	85.26	ug/ml	97
38) 2,4,5-Trichlorophenol	6.21	196	99242	88.75	ug/ml	94
39) 2,4,6-Trichlorophenol	6.18	196	88456	81.32	ug/ml	93
41) 2-Chloronaphthalene	6.39	162	310338	79.96	ug/ml	99
42) 2-Nitroaniline	6.51	65	136167	92.40	ug/ml	95
43) Acenaphthylene	6.84	152	447676	81.18	ug/ml	99
44) Dimethyl phthalate	6.74	163	328129	80.30	ug/ml	99
45) 2,6-Dinitrotoluene	6.79	165	79703	86.48	ug/ml	99

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091607.D Vial: 7
Acq On : 16 Sep 2008 4:50 pm Operator: mills
Sample : ,ical,svoa ical 80ug/ml,1,ab86-04 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:24:17 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:23:19 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

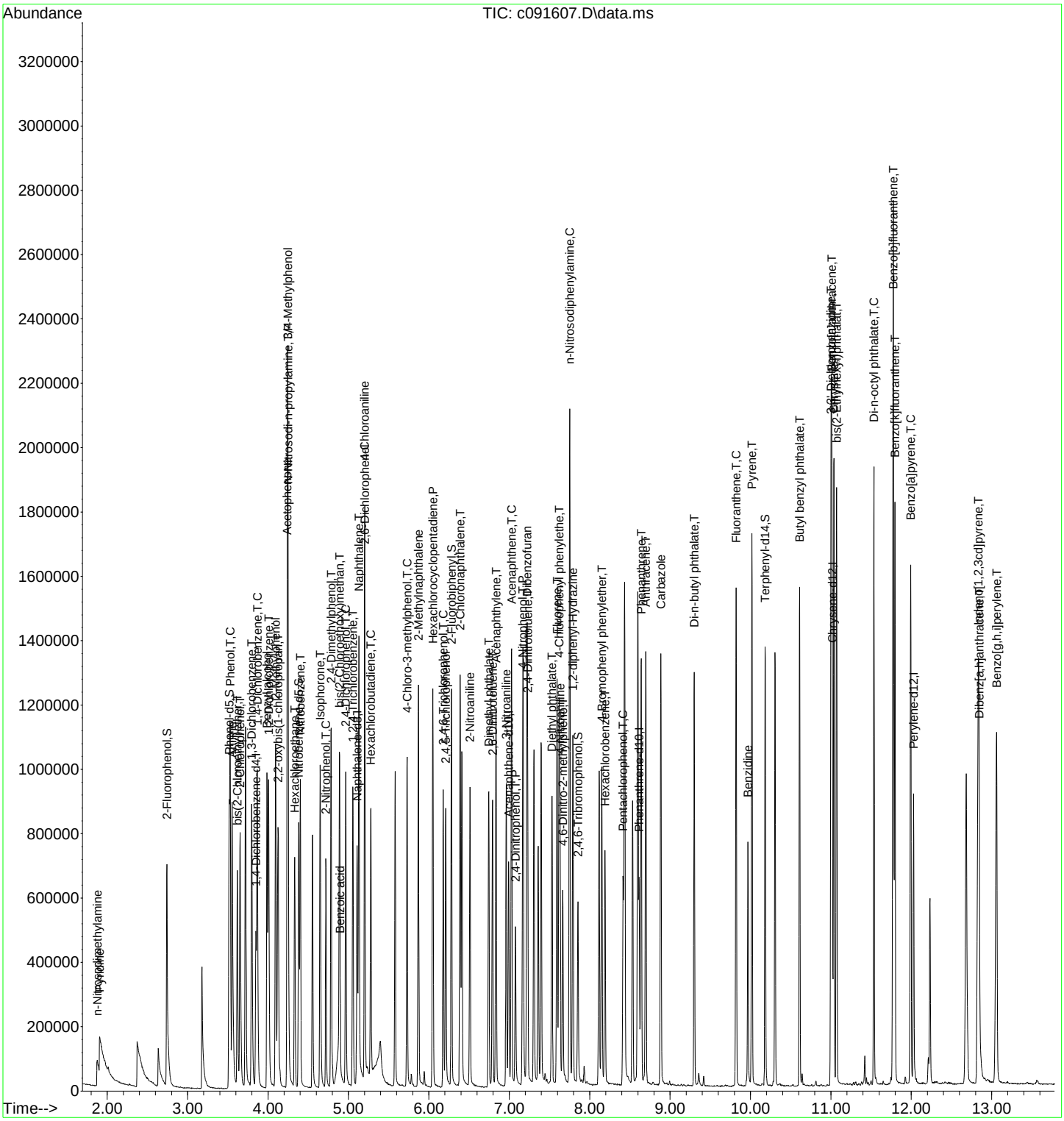
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) 3-Nitroaniline	6.96	138	104308	95.21 ug/ml	98
47) Acenaphthene	7.03	153	298720	79.09 ug/ml	98
48) 2,4-Dinitrophenol	7.08	184	41140	110.46 ug/ml	93
49) Dibenzofuran	7.22	168	372596	76.18 ug/ml	99
50) 4-Nitrophenol	7.17	109	66446	115.13 ug/ml	93
51) 2,4-Dinitrotoluene	7.23	165	103385	84.68 ug/ml	96
52) Fluorene	7.59	166	301168	79.45 ug/ml	96
53) 4-Chlorophenyl phenylethe	7.62	204	143637	81.84 ug/ml	96
54) Diethyl phthalate	7.53	149	327318	81.78 ug/ml	100
55) 4-Nitroaniline	7.63	138	105029	98.57 ug/ml	98
57) 4,6-Dinitro-2-methylpheno	7.67	198	54622	91.58 ug/ml	97
58) n-Nitrosodiphenylamine	7.75	169	451543	79.44 ug/ml	99
59) 1,2-diphenyl-Hydrazine	7.79	77	373971	77.43 ug/ml	99
61) 4-Bromophenyl phenylether	8.15	248	84859	78.78 ug/ml	96
62) Hexachlorobenzene	8.19	284	82725	80.45 ug/ml	95
63) Pentachlorophenol	8.42	266	56859	107.53 ug/ml	98
64) Phenanthrene	8.64	178	448519	78.17 ug/ml	100
65) Anthracene	8.70	178	461579	82.24 ug/ml	99
66) Carbazole	8.88	167	461261	84.96 ug/ml	100
67) Di-n-butyl phthalate	9.30	149	538373	81.87 ug/ml	99
68) Fluoranthene	9.82	202	486371	87.36 ug/ml	100
70) Benzidine	9.97	184	226043	80.22 ug/ml	100
71) Pyrene	10.02	202	533157	72.90 ug/ml	98
73) Butyl benzyl phthalate	10.61	149	260330	70.99 ug/ml	97
74) Benzo[a]anthracene	11.01	228	511590	81.71 ug/ml	99
75) 3,3'-Dichlorobenzidine	11.00	252	186287	82.14 ug/ml	98
76) Chrysene	11.04	228	488305	79.85 ug/ml	97
77) bis(2-Ethylhexyl)phthalat	11.07	149	357692	74.06 ug/ml	97
79) Di-n-octyl phthalate	11.54	149	640905	70.94 ug/ml	99
80) Benzo[b]fluoranthene	11.78	252	506372	80.37 ug/ml	99
81) Benzo[k]fluoranthene	11.80	252	462605	80.39 ug/ml	99
82) Benzo[a]pyrene	11.99	252	478064	85.10 ug/ml	98
83) Indeno[1,2,3cd]pyrene	12.83	276	537329	85.24 ug/ml	95
84) Dibenz[a,h]anthracene	12.85	278	323224	78.37 ug/ml	99
85) Benzo[g,h,i]perylene	13.06	276	476091	84.17 ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091607.D Vial: 7
Acq On : 16 Sep 2008 4:50 pm Operator: mills
Sample : ,ical,svoa ical 80ug/ml,1,ab86-04 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:24:17 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:23:19 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091608.D Vial: 8
Acq On : 16 Sep 2008 5:09 pm Operator: mills
Sample : ,ical,svoa ical 100ug/ml,1,ab86-05 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:25:18 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:25:11 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	110472	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	443932	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	209923	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.62	188	290790	40.00	ug/ml	0.00
69) Chrysene-d12	11.02	240	261124	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	298783	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.75	112	385934	99.24	ug/ml	0.00
5) Phenol-d5	3.52	99	504141	99.59	ug/ml	0.00
20) Nitrobenzene-d5	4.39	82	465102	108.59	ug/ml	0.00
40) 2-Fluorobiphenyl	6.28	172	661193	98.72	ug/ml	0.00
60) 2,4,6-Tribromophenol	7.86	330	85451	107.69	ug/ml	0.00
72) Terphenyl-d14	10.19	244	549144	101.87	ug/ml	0.00
Target Compounds						Qvalue
2) Pyridine	1.88	79	317741	86.46	ug/ml	94
3) n-Nitrosodimethylamine	1.85	74	167889	72.27	ug/ml	95
6) Phenol	3.54	94	499812	92.03	ug/ml	97
7) Aniline	3.56	93	606034	103.25	ug/ml	97
8) bis(2-Chloroethyl)ether	3.62	93	367689	90.11	ug/ml	98
9) 2-Chlorophenol	3.66	128	374680	99.74	ug/ml	99
10) 1,3-Dichlorobenzene	3.80	146	397663	95.46	ug/ml	99
11) 1,4-Dichlorobenzene	3.87	146	403825	95.18	ug/ml	96
12) 1,2-Dichlorobenzene	4.01	146	376696	94.88	ug/ml	96
13) Benzyl alcohol	3.99	108	267230	102.05	ug/ml	98
14) 2,2-oxybis(1-chloropropan	4.13	45	993404	97.99	ug/ml	99
15) 2-Methylphenol	4.10	108	374464	97.87	ug/ml	100
16) Hexachloroethane	4.33	117	161176	101.61	ug/ml	96
17) N-Nitrosodi-n-propylamine	4.26	70	278112	97.46	ug/ml	95
18) 3/4-Methylphenol	4.25	108	351559	91.16	ug/ml	98
21) Nitrobenzene	4.41	77	458448	102.66	ug/ml	97
22) Acetophenone	4.24	105	547568	94.93	ug/ml	89
23) Isophorone	4.66	82	723091	100.57	ug/ml	99
24) 2-Nitrophenol	4.72	139	195483	106.96	ug/ml	99
25) 2,4-Dimethylphenol	4.79	107	373223	100.16	ug/ml	97
26) bis(2-Chloroethoxy)methan	4.89	93	487695	103.07	ug/ml	99
27) 2,4-Dichlorophenol	4.97	162	280263	100.82	ug/ml	100
28) Benzoic acid	4.94	122	217595	136.97	ug/ml	90
29) 1,2,4-Trichlorobenzene	5.06	180	300733	100.48	ug/ml	99
30) Naphthalene	5.13	128	1011253	94.41	ug/ml	99
31) 2,6-Dichlorophenol	5.21	162	259152	94.82	ug/ml	92
32) 4-Chloroaniline	5.21	127	403464	93.34	ug/ml	98
33) Hexachlorobutadiene	5.28	225	161907	100.92	ug/ml	97
34) 4-Chloro-3-methylphenol	5.73	107	323286	100.07	ug/ml	98
35) 2-Methylnaphthalene	5.87	142	628867	94.01	ug/ml	99
37) Hexachlorocyclopentadiene	6.05	237	111027	112.76	ug/ml	95
38) 2,4,5-Trichlorophenol	6.21	196	201854	105.52	ug/ml	94
39) 2,4,6-Trichlorophenol	6.18	196	191200	104.71	ug/ml	96
41) 2-Chloronaphthalene	6.40	162	626349	96.02	ug/ml	100
42) 2-Nitroaniline	6.52	65	278922	110.55	ug/ml	93
43) Acenaphthylene	6.84	152	900059	97.87	ug/ml	99
44) Dimethyl phthalate	6.75	163	673917	98.66	ug/ml	99
45) 2,6-Dinitrotoluene	6.80	165	162443	104.47	ug/ml	95

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091608.D Vial: 8
Acq On : 16 Sep 2008 5:09 pm Operator: mills
Sample : ,ical,svoa ical 100ug/ml,1,ab86-05 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:25:18 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:25:11 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) 3-Nitroaniline	6.97	138	205145	109.06 ug/ml	96
47) Acenaphthene	7.03	153	606409	96.00 ug/ml	98
48) 2,4-Dinitrophenol	7.09	184	88937	136.56 ug/ml	90
49) Dibenzofuran	7.22	168	743083	91.65 ug/ml	99
50) 4-Nitrophenol	7.18	109	116831	112.66 ug/ml	91
51) 2,4-Dinitrotoluene	7.24	165	205047	100.28 ug/ml	89
52) Fluorene	7.60	166	595026	94.16 ug/ml	99
53) 4-Chlorophenyl phenylethe	7.62	204	291455	98.60 ug/ml	99
54) Diethyl phthalate	7.53	149	655764	98.07 ug/ml	99
55) 4-Nitroaniline	7.65	138	195595	107.83 ug/ml	98
57) 4,6-Dinitro-2-methylpheno	7.68	198	110921	121.72 ug/ml	90
58) n-Nitrosodiphenylamine	7.76	169	863011	100.31 ug/ml	99
59) 1,2-diphenyl-Hydrazine	7.80	77	752830	103.39 ug/ml	97
61) 4-Bromophenyl phenylether	8.15	248	169705	103.76 ug/ml	98
62) Hexachlorobenzene	8.19	284	153636	98.36 ug/ml	96
63) Pentachlorophenol	8.42	266	105028	123.27 ug/ml	98
64) Phenanthrene	8.65	178	830969	95.71 ug/ml	100
65) Anthracene	8.70	178	839918	98.96 ug/ml	99
66) Carbazole	8.89	167	802525	97.11 ug/ml	99
67) Di-n-butyl phthalate	9.30	149	1003722	101.72 ug/ml	99
68) Fluoranthene	9.82	202	804378	94.51 ug/ml	97
70) Benzidine	9.97	184	343524	101.84 ug/ml	99
71) Pyrene	10.02	202	859020	99.35 ug/ml	98
73) Butyl benzyl phthalate	10.61	149	433199	102.11 ug/ml	94
74) Benzo[a]anthracene	11.01	228	765872	101.13 ug/ml	98
75) 3,3'-Dichlorobenzidine	11.00	252	284031	103.87 ug/ml	97
76) Chrysene	11.04	228	735914	99.86 ug/ml	98
77) bis(2-Ethylhexyl)phthalat	11.07	149	610781	108.44 ug/ml	98
79) Di-n-octyl phthalate	11.54	149	1071971	99.81 ug/ml	100
80) Benzo[b]fluoranthene	11.78	252	774741	98.19 ug/ml	98
81) Benzo[k]fluoranthene	11.80	252	684229	95.48 ug/ml	100
82) Benzo[a]pyrene	12.00	252	726447	103.25 ug/ml	98
83) Indeno[1,2,3cd]pyrene	12.85	276	840616	105.38 ug/ml	97
84) Dibenz[a,h]anthracene	12.85	278	502647	95.28 ug/ml	99
85) Benzo[g,h,i]perylene	13.07	276	733814	102.59 ug/ml	97

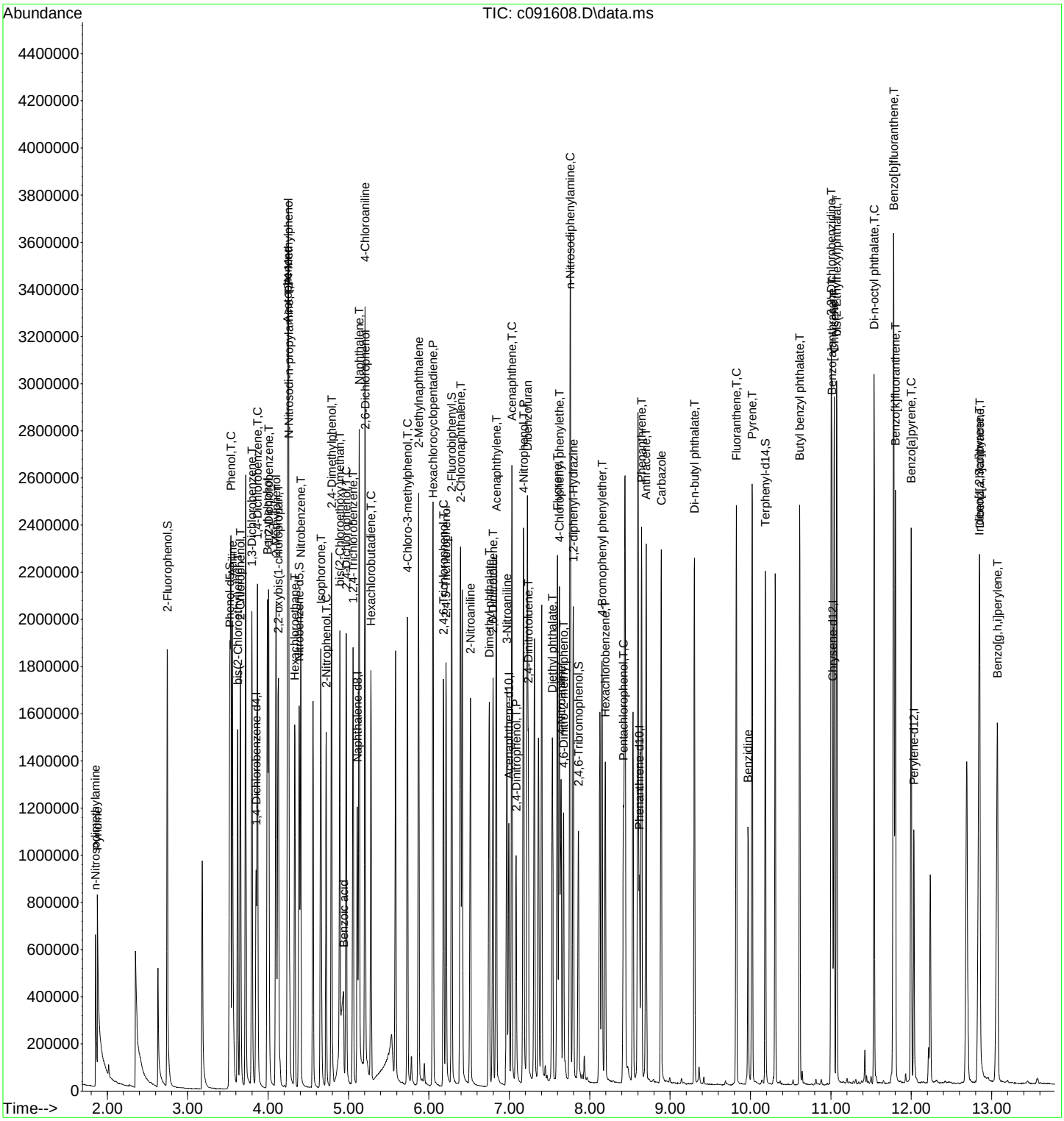
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091608.D
Acq On : 16 Sep 2008 5:09 pm
Sample : ,ical,svoa ical 100ug/ml,1,ab86-05
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 17:25:18 2008
Quant Results File: SVOA0916.RES

Vial: 8
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:25:11 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



c091608.D SVOA0916.M Tue Sep 16 18:02:49 2008 SVOA3 Page: 3

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091609.D Vial: 9
Acq On : 16 Sep 2008 5:29 pm Operator: mills
Sample : ,ical,svoa ical 120ug/ml,1,ab86-06 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:41:11 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:28:12 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	93676	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	373552	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	177236	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.62	188	241970	40.00	ug/ml	0.00
69) Chrysene-d12	11.02	240	228026	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	259648	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.75	112	384430	118.19	ug/ml	0.00
5) Phenol-d5	3.52	99	497026	116.25	ug/ml	0.00
20) Nitrobenzene-d5	4.39	82	461613	126.65	ug/ml	0.00
40) 2-Fluorobiphenyl	6.28	172	661992	112.94	ug/ml	0.00
60) 2,4,6-Tribromophenol	7.86	330	85510	123.76	ug/ml	0.00
72) Terphenyl-d14	10.19	244	552063	122.84	ug/ml	0.00
Target Compounds						Qvalue
2) Pyridine	1.87	79	376830	137.72	ug/ml	97
3) n-Nitrosodimethylamine	1.85	74	199540	123.16	ug/ml	96
6) Phenol	3.54	94	500687	115.84	ug/ml	97
7) Aniline	3.56	93	624115	120.08	ug/ml	100
8) bis(2-Chloroethyl)ether	3.62	93	368712	115.91	ug/ml	98
9) 2-Chlorophenol	3.66	128	373911	117.25	ug/ml	97
10) 1,3-Dichlorobenzene	3.80	146	393723	110.78	ug/ml	99
11) 1,4-Dichlorobenzene	3.87	146	408385	113.37	ug/ml	99
12) 1,2-Dichlorobenzene	4.01	146	379370	111.46	ug/ml	95
13) Benzyl alcohol	3.99	108	265541	123.11	ug/ml	97
14) 2,2-oxybis(1-chloropropan	4.13	45	993338	116.64	ug/ml	100
15) 2-Methylphenol	4.10	108	370004	115.92	ug/ml	97
16) Hexachloroethane	4.33	117	157113	114.73	ug/ml	98
17) N-Nitrosodi-n-propylamine	4.26	70	281327	114.88	ug/ml	98
18) 3/4-Methylphenol	4.25	108	351071	109.98	ug/ml	98
21) Nitrobenzene	4.41	77	456722	117.69	ug/ml	98
22) Acetophenone	4.24	105	554303	114.55	ug/ml	88
23) Isophorone	4.66	82	732740	120.58	ug/ml	99
24) 2-Nitrophenol	4.72	139	194561	126.40	ug/ml	99
25) 2,4-Dimethylphenol	4.79	107	374464	118.67	ug/ml	97
26) bis(2-Chloroethoxy)methan	4.89	93	477919	117.79	ug/ml	100
27) 2,4-Dichlorophenol	4.97	162	276908	117.11	ug/ml	99
28) Benzoic acid	4.94	122	224056	142.93	ug/ml	92
29) 1,2,4-Trichlorobenzene	5.06	180	293186	112.82	ug/ml	95
30) Naphthalene	5.13	128	1019561	112.61	ug/ml	99
31) 2,6-Dichlorophenol	5.21	162	257484	111.04	ug/ml	96
32) 4-Chloroaniline	5.21	127	398092	107.32	ug/ml	100
33) Hexachlorobutadiene	5.28	225	160093	112.70	ug/ml	97
34) 4-Chloro-3-methylphenol	5.73	107	324093	120.29	ug/ml	99
35) 2-Methylnaphthalene	5.87	142	629545	114.88	ug/ml	100
37) Hexachlorocyclopentadiene	6.05	237	110948	115.26	ug/ml	95
38) 2,4,5-Trichlorophenol	6.21	196	199805	117.36	ug/ml	92
39) 2,4,6-Trichlorophenol	6.18	196	193376	120.81	ug/ml	97
41) 2-Chloronaphthalene	6.40	162	630395	111.82	ug/ml	100
42) 2-Nitroaniline	6.52	65	277279	123.34	ug/ml	97
43) Acenaphthylene	6.84	152	901476	116.47	ug/ml	98
44) Dimethyl phthalate	6.75	163	670707	114.93	ug/ml	100
45) 2,6-Dinitrotoluene	6.80	165	164821	123.34	ug/ml	93

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091609.D Vial: 9
Acq On : 16 Sep 2008 5:29 pm Operator: mills
Sample : ,ical,svoa ical 120ug/ml,1,ab86-06 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 17:41:11 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:28:12 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) 3-Nitroaniline	6.97	138	205383	121.47 ug/ml	95
47) Acenaphthene	7.03	153	605111	111.61 ug/ml	99
48) 2,4-Dinitrophenol	7.09	184	92521	152.78 ug/ml	91
49) Dibenzofuran	7.22	168	746378	110.31 ug/ml	99
50) 4-Nitrophenol	7.18	109	119584	120.54 ug/ml	91
51) 2,4-Dinitrotoluene	7.24	165	206488	121.02 ug/ml	85
52) Fluorene	7.60	166	598349	112.98 ug/ml	99
53) 4-Chlorophenyl phenylethe	7.62	204	290944	112.47 ug/ml	96
54) Diethyl phthalate	7.53	149	657843	116.94 ug/ml	99
55) 4-Nitroaniline	7.65	138	198850	127.98 ug/ml	95
57) 4,6-Dinitro-2-methylpheno	7.68	198	111246	146.35 ug/ml	91
58) n-Nitrosodiphenylamine	7.76	169	867067	116.27 ug/ml	100
59) 1,2-diphenyl-Hydrazine	7.80	77	749683	123.86 ug/ml	98
61) 4-Bromophenyl phenylether	8.15	248	168837	120.12 ug/ml	94
62) Hexachlorobenzene	8.19	284	153289	116.42 ug/ml	94
63) Pentachlorophenol	8.42	266	104952	128.54 ug/ml	99
64) Phenanthrene	8.65	178	826929	113.06 ug/ml	99
65) Anthracene	8.70	178	829223	118.21 ug/ml	99
66) Carbazole	8.89	167	809771	117.06 ug/ml	100
67) Di-n-butyl phthalate	9.30	149	981060	120.35 ug/ml	99
68) Fluoranthene	9.82	202	805904	113.23 ug/ml	99
70) Benzidine	9.97	184	345487	108.53 ug/ml	97
71) Pyrene	10.02	202	865679	118.77 ug/ml	97
73) Butyl benzyl phthalate	10.61	149	429381	125.71 ug/ml	97
74) Benzo[a]anthracene	11.01	228	803606	119.12 ug/ml	98
75) 3,3'-Dichlorobenzidine	11.00	252	297736	123.92 ug/ml	98
76) Chrysene	11.04	228	758770	116.19 ug/ml	97
77) bis(2-Ethylhexyl)phthalat	11.07	149	593918	123.88 ug/ml	100
79) Di-n-octyl phthalate	11.54	149	1068571	124.76 ug/ml	99
80) Benzo[b]fluoranthene	11.78	252	800200	115.62 ug/ml	98
81) Benzo[k]fluoranthene	11.80	252	719593	113.99 ug/ml	99
82) Benzo[a]pyrene	12.00	252	757234	123.03 ug/ml	97
83) Indeno[1,2,3cd]pyrene	12.84	276	852852	116.90 ug/ml	96
84) Dibenz[a,h]anthracene	12.85	278	501853	99.79 ug/ml	99
85) Benzo[g,h,i]perylene	13.07	276	748451	113.70 ug/ml	97

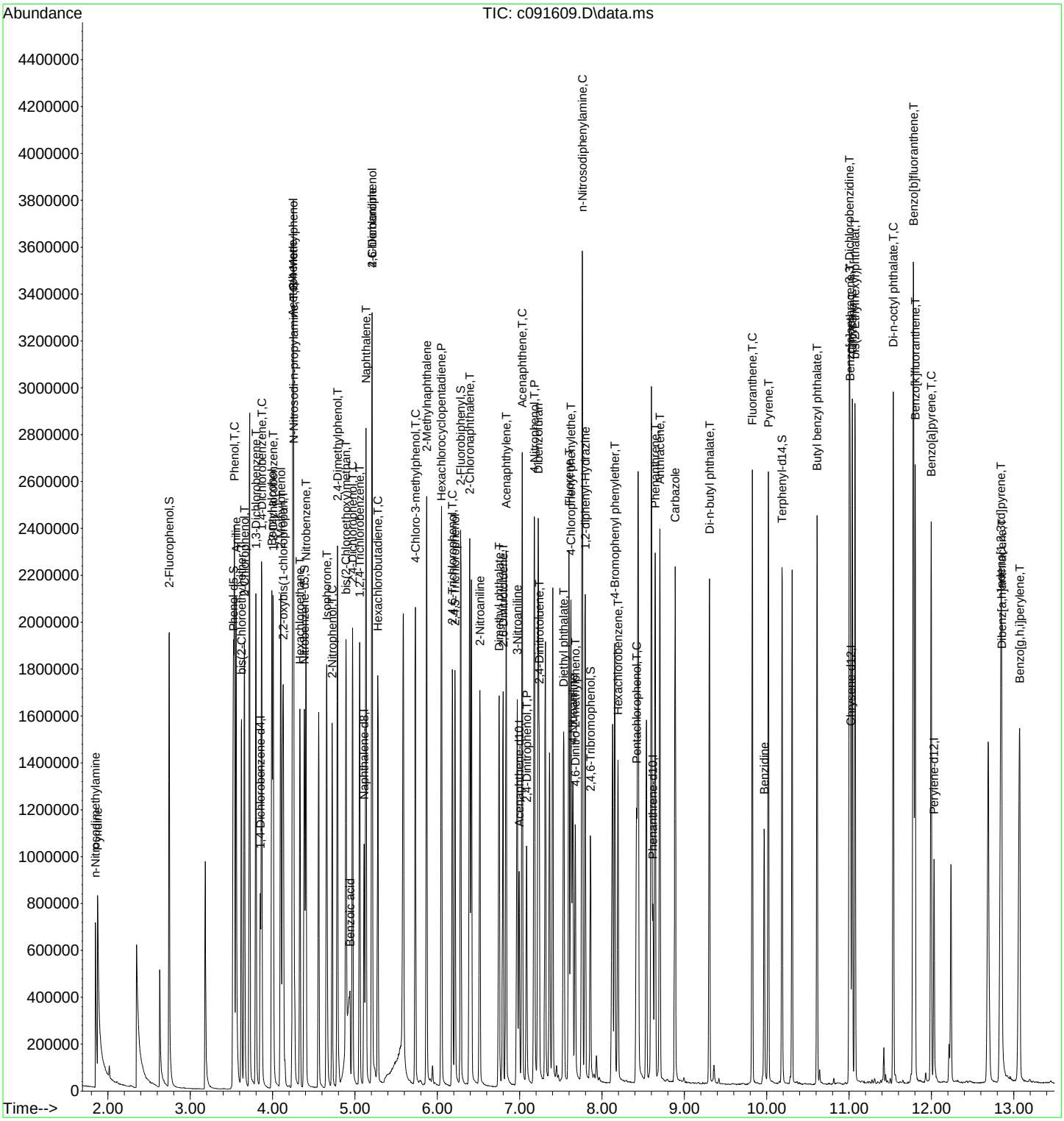
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091609.D
Acq On : 16 Sep 2008 5:29 pm
Sample : ,ical,svoa ical 120ug/ml,1,ab86-06
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 17:41:11 2008
Quant Results File: SVOA0916.RES

Vial: 9
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:28:12 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091610.D Vial: 10
Acq On : 16 Sep 2008 5:48 pm Operator: mills
Sample : ,ical,svoa ical 160ug/ml,1,ab86-07 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 18:00:35 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:42:20 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.85	152	89297	40.00	ug/ml	0.00
19) Naphthalene-d8	5.11	136	377020	40.00	ug/ml	0.00
36) Acenaphthene-d10	6.99	164	176532	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.62	188	238441	40.00	ug/ml	0.00
69) Chrysene-d12	11.02	240	231609	40.00	ug/ml	0.00
78) Perylene-d12	12.03	264	266788	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	2.75	112	502857	162.59	ug/ml	0.00
5) Phenol-d5	3.53	99	670212	165.30	ug/ml	0.00
20) Nitrobenzene-d5	4.39	82	618914	167.09	ug/ml	0.00
40) 2-Fluorobiphenyl	6.29	172	873060	150.65	ug/ml	0.00
60) 2,4,6-Tribromophenol	7.86	330	118092	172.55	ug/ml	0.00
72) Terphenyl-d14	10.19	244	718684	156.98	ug/ml	0.00
Target Compounds						Qvalue
2) Pyridine	1.87	79	516826	193.38	ug/ml	98
3) n-Nitrosodimethylamine	1.85	74	315821	203.60	ug/ml	99
6) Phenol	3.54	94	728092	177.74	ug/ml	97
7) Aniline	3.56	93	815291	164.54	ug/ml	99
8) bis(2-Chloroethyl)ether	3.62	93	487199	161.59	ug/ml	99
9) 2-Chlorophenol	3.66	128	489192	161.54	ug/ml	97
10) 1,3-Dichlorobenzene	3.80	146	509312	152.27	ug/ml	100
11) 1,4-Dichlorobenzene	3.87	146	525393	154.43	ug/ml	99
12) 1,2-Dichlorobenzene	4.01	146	480391	149.84	ug/ml	95
13) Benzyl alcohol	4.00	108	352714	170.81	ug/ml	96
14) 2,2-oxybis(1-chloropropan	4.13	45	1305912	161.62	ug/ml	100
15) 2-Methylphenol	4.10	108	489710	161.86	ug/ml	96
16) Hexachloroethane	4.33	117	206386	159.27	ug/ml	99
17) N-Nitrosodi-n-propylamine	4.26	70	368514	158.99	ug/ml	99
18) 3/4-Methylphenol	4.26	108	455322	151.75	ug/ml	98
21) Nitrobenzene	4.41	77	609800	156.19	ug/ml	98
22) Acetophenone	4.25	105	723584	149.29	ug/ml	86
23) Isophorone	4.66	82	978224	159.37	ug/ml	99
24) 2-Nitrophenol	4.73	139	261700	166.97	ug/ml	99
25) 2,4-Dimethylphenol	4.79	107	495187	155.78	ug/ml	97
26) bis(2-Chloroethoxy)methan	4.89	93	639726	156.70	ug/ml	99
27) 2,4-Dichlorophenol	4.98	162	369029	155.26	ug/ml	98
28) Benzoic acid	4.96	122	332514	200.58	ug/ml	92
29) 1,2,4-Trichlorobenzene	5.06	180	388189	149.50	ug/ml	100
30) Naphthalene	5.14	128	1328478	146.51	ug/ml	100
31) 2,6-Dichlorophenol	5.21	162	338485	146.45	ug/ml	96
32) 4-Chloroaniline	5.21	127	515732	140.22	ug/ml	97
33) Hexachlorobutadiene	5.28	225	210785	148.53	ug/ml	98
34) 4-Chloro-3-methylphenol	5.74	107	428139	157.38	ug/ml	99
35) 2-Methylnaphthalene	5.88	142	829538	151.05	ug/ml	98
37) Hexachlorocyclopentadiene	6.05	237	128303	134.71	ug/ml	99
38) 2,4,5-Trichlorophenol	6.22	196	270891	160.34	ug/ml	95
39) 2,4,6-Trichlorophenol	6.18	196	253112	158.58	ug/ml	95
41) 2-Chloronaphthalene	6.40	162	834006	150.23	ug/ml	99
42) 2-Nitroaniline	6.52	65	379640	168.76	ug/ml	98
43) Acenaphthylene	6.84	152	1181937	153.88	ug/ml	99
44) Dimethyl phthalate	6.75	163	894468	154.97	ug/ml	100
45) 2,6-Dinitrotoluene	6.80	165	220636	165.00	ug/ml	94

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091610.D Vial: 10
Acq On : 16 Sep 2008 5:48 pm Operator: mills
Sample : ,ical,svoa ical 160ug/ml,1,ab86-07 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Sep 16 18:00:35 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:42:20 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) 3-Nitroaniline	6.98	138	280504	166.22 ug/ml	97
47) Acenaphthene	7.03	153	792795	148.11 ug/ml	99
48) 2,4-Dinitrophenol	7.09	184	127423	200.30 ug/ml	92
49) Dibenzofuran	7.23	168	964070	145.00 ug/ml	100
50) 4-Nitrophenol	7.19	109	163790	165.64 ug/ml	97
51) 2,4-Dinitrotoluene	7.24	165	280692	164.93 ug/ml	92
52) Fluorene	7.60	166	769959	147.04 ug/ml	98
53) 4-Chlorophenyl phenylethe	7.62	204	385099	151.04 ug/ml	97
54) Diethyl phthalate	7.54	149	871045	156.12 ug/ml	99
55) 4-Nitroaniline	7.66	138	281320	179.79 ug/ml	95
57) 4,6-Dinitro-2-methylpheno	7.68	198	150176	193.41 ug/ml	93
58) n-Nitrosodiphenylamine	7.76	169	1144663	156.58 ug/ml	100
59) 1,2-diphenyl-Hydrazine	7.80	77	959279	159.98 ug/ml	97
61) 4-Bromophenyl phenylether	8.16	248	222247	160.43 ug/ml	99
62) Hexachlorobenzene	8.20	284	198033	153.39 ug/ml	96
63) Pentachlorophenol	8.42	266	142836	175.45 ug/ml	96
64) Phenanthrene	8.65	178	1071424	149.74 ug/ml	100
65) Anthracene	8.71	178	1084147	157.13 ug/ml	99
66) Carbazole	8.89	167	1080099	159.10 ug/ml	99
67) Di-n-butyl phthalate	9.30	149	1249726	155.50 ug/ml	99
68) Fluoranthene	9.83	202	1058922	152.05 ug/ml	97
70) Benzidine	9.97	184	408701	128.45 ug/ml	99
71) Pyrene	10.02	202	1141113	154.33 ug/ml	98
73) Butyl benzyl phthalate	10.61	149	568584	162.60 ug/ml	94
74) Benzo[a]anthracene	11.01	228	1060215	154.87 ug/ml	99
75) 3,3'-Dichlorobenzidine	11.01	252	401721	163.72 ug/ml	97
76) Chrysene	11.04	228	1022545	154.78 ug/ml	97
77) bis(2-Ethylhexyl)phthalat	11.07	149	770151	157.30 ug/ml	99
79) Di-n-octyl phthalate	11.54	149	1401092	158.16 ug/ml	99
80) Benzo[b]fluoranthene	11.79	252	1158265	163.62 ug/ml	98
81) Benzo[k]fluoranthene	11.81	252	900747	139.74 ug/ml	99
82) Benzo[a]pyrene	12.00	252	1022404	161.16 ug/ml	98
83) Indeno[1,2,3cd]pyrene	12.85	276	1151880	154.16 ug/ml	97
84) Dibenz[a,h]anthracene	12.86	278	673617	133.16 ug/ml	98
85) Benzo[g,h,i]perylene	13.08	276	1007925	150.01 ug/ml	94

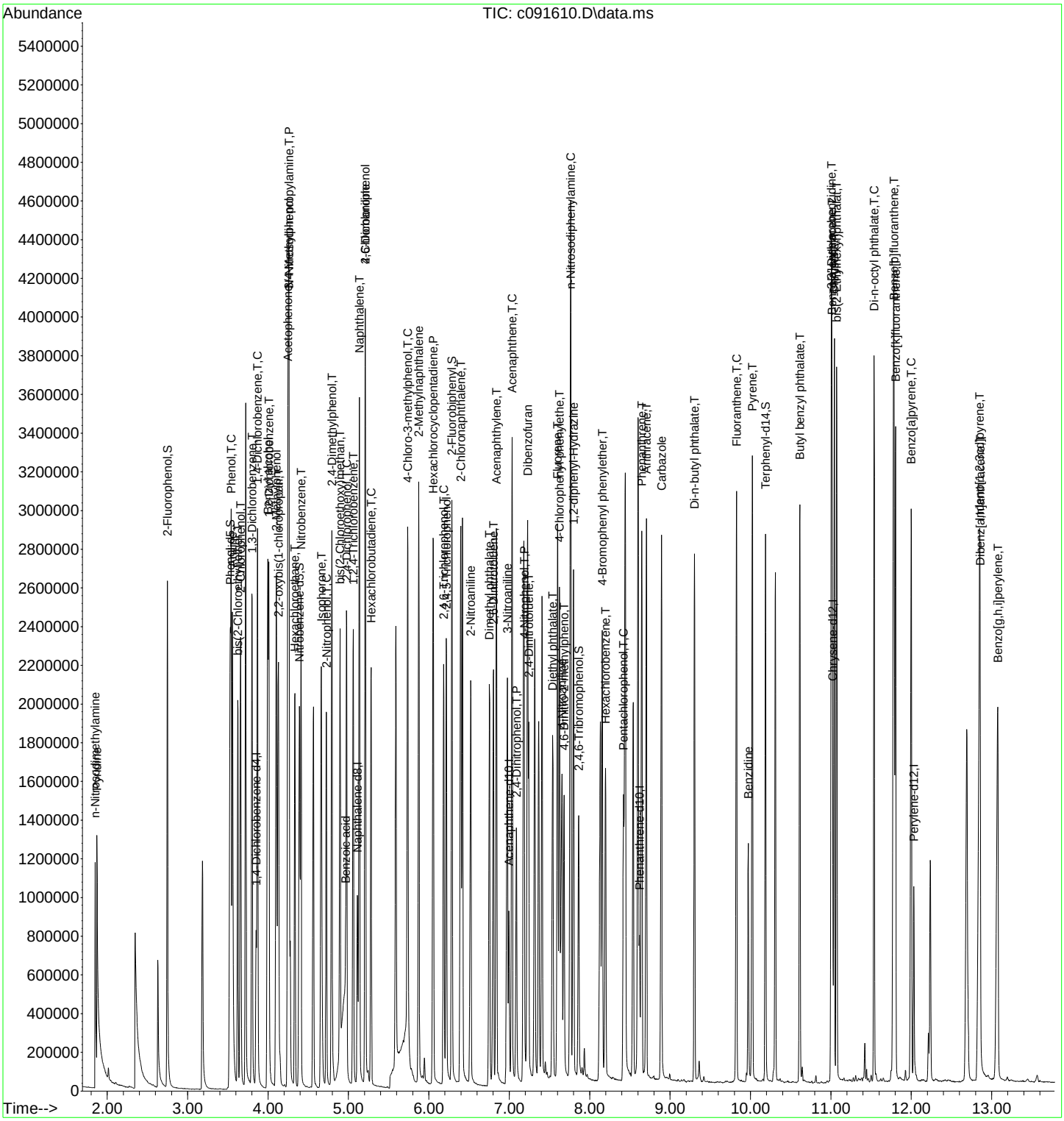
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c091608\c091610.D
Acq On : 16 Sep 2008 5:48 pm
Sample : ,ical,svoa ical 160ug/ml,1,ab86-07
Misc : 8270_w
Integrator: RTE
Quant Time: Sep 16 18:00:35 2008
Quant Results File: SVOA0916.RES

Vial: 10
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Tue Sep 16 17:42:20 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



CONTINUING CALIBRATION RAW DATA

Evaluate Continuing Calibration Report

Data File : D:\Data\c102208\c102202.D Vial: 2
Acq On : 22 Oct 2008 7:16 pm Operator: mills
Sample : ,ccv,svoa ccv 80ug/ml,1,ab86-04 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 22 19:30:22 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Mon Oct 13 18:04:22 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	59	0.00
2		Pyridine	1.233	1.396	-13.2	60	0.00
3		n-Nitrosodimethylamine	0.722	0.853	-18.1	63	0.00
4	S	2-Fluorophenol	1.389	1.355	2.4	55	0.00
5	S	Phenol-d5	1.825	1.842	-0.9	56	0.00
6	T,C	Phenol	1.864	2.005	-7.6	61	0.00
7		Aniline	2.229	2.181	2.2	55	0.00
8	T	bis(2-Chloroethyl)ether	1.352	1.444	-6.8	56	0.00
9	T	2-Chlorophenol	1.358	1.376	-1.3	57	0.00
10	T	1,3-Dichlorobenzene	1.488	1.467	1.4	56	0.00
11	T,C	1,4-Dichlorobenzene	1.516	1.492	1.6	56	0.00
12	T	1,2-Dichlorobenzene	1.423	1.459	-2.5	59	0.00
13		Benzyl alcohol	0.934	0.994	-6.4	58	0.00
14	T	2,2-oxybis(1-chloropropan	3.625	3.779	-4.2	59	0.00
15		2-Methylphenol	1.358	1.418	-4.4	59	0.00
16	T	Hexachloroethane	0.580	0.626	-7.9	61	0.00
17	T,P	N-Nitrosodi-n-propylamine	1.037	1.150	-10.9	62	0.00
18		3/4-Methylphenol	1.334	1.480	-10.9	62	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	63	0.00
20	S	Nitrobenzene-d5	0.395	0.420	-6.3	62	0.00
21	T	Nitrobenzene	0.413	0.412	0.2	61	0.00
22		Acetophenone	0.509	0.500	1.8	60	0.00
23	T	Isophorone	0.651	0.667	-2.5	62	0.00
24	T,C	2-Nitrophenol	0.167	0.167	0.0	62	0.00
25	T	2,4-Dimethylphenol	0.336	0.333	0.9	62	0.00
26	T	bis(2-Chloroethoxy)methan	0.432	0.435	-0.7	61	0.00
27	T,C	2,4-Dichlorophenol	0.251	0.258	-2.8	62	0.00
28		Benzoic acid	0.185	0.142	23.2#	49#	0.00
29	T	1,2,4-Trichlorobenzene	0.273	0.259	5.1	59	0.00
30	T	Naphthalene	0.953	0.957	-0.4	63	0.00
31		2,6-Dichlorophenol	0.242	0.247	-2.1	62	0.00
32		4-Chloroaniline	0.383	0.391	-2.1	62	0.00
33	T,C	Hexachlorobutadiene	0.149	0.147	1.3	63	0.00
34	T,C	4-Chloro-3-methylphenol	0.288	0.323	-12.2	67	0.00
35		2-Methylnaphthalene	0.578	0.626	-8.3	67	0.00
36	I	Acenaphthene-d10	1.000	1.000	0.0	71	0.00
37	P	Hexachlorocyclopentadiene	0.211	0.154	27.0#	57	0.00
38		2,4,5-Trichlorophenol	0.383	0.356	7.0	64	0.00
39	T,C	2,4,6-Trichlorophenol	0.361	0.342	5.3	69	0.00
40	S	2-Fluorobiphenyl	1.305	1.204	7.7	68	0.00
41	T	2-Chloronaphthalene	1.247	1.180	5.4	68	0.00
42		2-Nitroaniline	0.514	0.522	-1.6	69	0.00
43	T	Acenaphthylene	1.733	1.795	-3.6	72	0.00
44	T	Dimethyl phthalate	1.302	1.309	-0.5	72	0.00
45	T	2,6-Dinitrotoluene	0.304	0.306	-0.7	69	0.00
46		3-Nitroaniline	0.385	0.391	-1.6	67	0.00
47	T,C	Acenaphthene	1.203	1.206	-0.2	72	0.00
48	T,P	2,4-Dinitrophenol	0.150	0.136	9.3	59	0.00
49		Dibenzofuran	1.486	1.532	-3.1	74	0.00

Evaluate Continuing Calibration Report

Data File : D:\Data\c102208\c102202.D Vial: 2
Acq On : 22 Oct 2008 7:16 pm Operator: mills
Sample : ,ccv,svoa ccv 80ug/ml,1,ab86-04 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 22 19:30:22 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Mon Oct 13 18:04:22 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T,P	4-Nitrophenol	0.225	0.245	-8.9	66	0.00
51	T	2,4-Dinitrotoluene	0.387	0.434	-12.1	75	0.00
52	T	Fluorene	1.176	1.256	-6.8	75	0.00
53	T	4-Chlorophenyl phenylethe	0.573	0.568	0.9	71	0.00
54	T	Diethyl phthalate	1.260	1.375	-9.1	75	0.00
55		4-Nitroaniline	0.361	0.398	-10.2	68	0.00
56	I	Phenanthrene-d10	1.000	1.000	0.0	76	0.00
57	T	4,6-Dinitro-2-methylpheno	0.134	0.131	2.2	70	0.00
58	C	n-Nitrosodiphenylamine	1.223	1.098	10.2	71	0.00
59		1,2-diphenyl-Hydrazine	1.006	0.975	3.1	76	0.00
60	S	2,4,6-Tribromophenol	0.116	0.098	15.5	66	0.00
61	T	4-Bromophenyl phenylether	0.232	0.203	12.5	70	0.00
62	T	Hexachlorobenzene	0.215	0.198	7.9	70	0.00
63	T,C	Pentachlorophenol	0.138	0.122	11.6	62	0.00
64	T	Phenanthrene	1.192	1.140	4.4	74	0.00
65	T	Anthracene	1.155	1.186	-2.7	75	0.00
66		Carbazole	1.138	1.148	-0.9	72	0.00
67	T	Di-n-butyl phthalate	1.343	1.421	-5.8	77	0.00
68	T,C	Fluoranthene	1.162	1.214	-4.5	73	0.00
69	I	Chrysene-d12	1.000	1.000	0.0	66	0.00
70		Benzidine	0.534	0.373	30.1#	47#	0.00
71	T	Pyrene	1.272	1.340	-5.3	71	0.00
72	S	Terphenyl-d14	0.789	0.853	-8.1	72	0.00
73	T	Butyl benzyl phthalate	0.605	0.684	-13.1	74	0.00
74	T	Benzo[a]anthracene	1.178	1.210	-2.7	67	0.00
75	T	3,3'-Dichlorobenzidine	0.425	0.402	5.4	61	0.00
76	T	Chrysene	1.137	1.145	-0.7	67	0.00
77	T	bis(2-Ethylhexyl)phthalat	0.844	0.935	-10.8	74	0.00
78	I	Perylene-d12	1.000	1.000	0.0	56	0.00
79	T,C	Di-n-octyl phthalate	1.326	1.792	-35.1#	74	0.00
80	T	Benzo[b]fluoranthene	1.064	1.223	-14.9	64	0.00
81	T	Benzo[k]fluoranthene	0.953	0.983	-3.1	57	0.00
82	T,C	Benzo[a]pyrene	0.952	1.012	-6.3	56	0.00
83	T	Indeno[1,2,3cd]pyrene	1.116	0.997	10.7	49#	0.00
84	T	Dibenz[a,h]anthracene	0.744	0.551	25.9#	45#	0.00
85	T	Benzo[g,h,i]perylene	1.000	0.869	13.1	49#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : D:\Data\c102208\c102202.D Vial: 2
Acq On : 22 Oct 2008 7:16 pm Operator: mills
Sample : ,ccv,svoa ccv 80ug/ml,1,ab86-04 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 22 19:30:22 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Mon Oct 13 18:04:22 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	36693	40.00	ug/ml	-0.02
19) Naphthalene-d8	5.30	136	162526	40.00	ug/ml	-0.02
36) Acenaphthene-d10	7.19	164	89638	40.00	ug/ml	-0.02
56) Phenanthrene-d10	8.82	188	145529	40.00	ug/ml	-0.03
69) Chrysene-d12	11.19	240	141804	40.00	ug/ml	-0.02
78) Perylene-d12	12.24	264	133050	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	99423	78.05	ug/ml	-0.03
5) Phenol-d5	3.76	99	135174	80.75	ug/ml	-0.02
20) Nitrobenzene-d5	4.58	82	136547	85.10	ug/ml	-0.02
40) 2-Fluorobiphenyl	6.47	172	215828	73.82	ug/ml	-0.02
60) 2,4,6-Tribromophenol	8.06	330	28480	67.42	ug/ml	-0.02
72) Terphenyl-d14	10.35	244	241864	86.47	ug/ml	-0.02
Target Compounds						Qvalue
2) Pyridine	2.16	79	102440	90.58	ug/ml	97
3) n-Nitrosodimethylamine	2.13	74	62629	94.57	ug/ml	92
6) Phenol	3.77	94	147144m3	86.06	ug/ml	
7) Aniline	3.76	93	160028	78.28	ug/ml	93
8) bis(2-Chloroethyl)ether	3.81	93	105944	85.39	ug/ml	98
9) 2-Chlorophenol	3.88	128	100992	81.05	ug/ml	99
10) 1,3-Dichlorobenzene	4.00	146	107685	78.90	ug/ml	99
11) 1,4-Dichlorobenzene	4.06	146	109465	78.69	ug/ml	99
12) 1,2-Dichlorobenzene	4.20	146	107071	82.02	ug/ml	94
13) Benzyl alcohol	4.19	108	72969	85.18	ug/ml	96
14) 2,2-oxybis(1-chloropropan	4.31	45	277356	83.42	ug/ml	100
15) 2-Methylphenol	4.32	108	104070	83.57	ug/ml	99
16) Hexachloroethane	4.53	117	45919	86.29	ug/ml	95
17) N-Nitrosodi-n-propylamine	4.44	70	84419	88.72	ug/ml	96
18) 3/4-Methylphenol	4.47	108	108583	88.72	ug/ml	100
21) Nitrobenzene	4.60	77	133913	79.84	ug/ml	99
22) Acetophenone	4.43	105	162552	78.55	ug/ml	85
23) Isophorone	4.84	82	216726	81.95	ug/ml	100
24) 2-Nitrophenol	4.91	139	54289	79.85	ug/ml	95
25) 2,4-Dimethylphenol	5.00	107	108237	79.28	ug/ml	99
26) bis(2-Chloroethoxy)methan	5.07	93	141334	80.55	ug/ml	99
27) 2,4-Dichlorophenol	5.19	162	83722	82.06	ug/ml	96
28) Benzoic acid	5.16	122	46130m2	61.44	ug/ml	
29) 1,2,4-Trichlorobenzene	5.24	180	84323	76.04	ug/ml	95
30) Naphthalene	5.32	128	310929	80.30	ug/ml	99
31) 2,6-Dichlorophenol	5.41	162	80395	81.68	ug/ml	92
32) 4-Chloroaniline	5.40	127	127039	81.57	ug/ml	100
33) Hexachlorobutadiene	5.47	225	47710	78.79	ug/ml	96
34) 4-Chloro-3-methylphenol	5.96	107	104987	89.73	ug/ml	95
35) 2-Methylnaphthalene	6.06	142	203495	86.65	ug/ml	97
37) Hexachlorocyclopentadiene	6.24	237	27612	58.41	ug/ml	98
38) 2,4,5-Trichlorophenol	6.45	196	63743	74.28	ug/ml	92
39) 2,4,6-Trichlorophenol	6.39	196	61326	75.76	ug/ml	98
41) 2-Chloronaphthalene	6.58	162	211570	75.71	ug/ml	99
42) 2-Nitroaniline	6.72	65	93544	81.26	ug/ml	93
43) Acenaphthylene	7.03	152	321855	82.88	ug/ml	98
44) Dimethyl phthalate	6.94	163	234630	80.42	ug/ml	99
45) 2,6-Dinitrotoluene	6.99	165	54937	80.55	ug/ml	99

Quantitation Report (QT Reviewed)

Data File : D:\Data\c102208\c102202.D Vial: 2
Acq On : 22 Oct 2008 7:16 pm Operator: mills
Sample : ,ccv,svoa ccv 80ug/ml,1,ab86-04 Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 22 19:30:22 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Mon Oct 13 18:04:22 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) 3-Nitroaniline	7.18	138	70112	81.37 ug/ml	93
47) Acenaphthene	7.22	153	216269	80.23 ug/ml	97
48) 2,4-Dinitrophenol	7.29	184	24398	72.49 ug/ml	94
49) Dibenzofuran	7.42	168	274588	82.44 ug/ml	97
50) 4-Nitrophenol	7.45	109	43875	86.94 ug/ml	93
51) 2,4-Dinitrotoluene	7.43	165	77802	89.64 ug/ml	85
52) Fluorene	7.79	166	225126	85.44 ug/ml	98
53) 4-Chlorophenyl phenylethe	7.81	204	101790	79.26 ug/ml	96
54) Diethyl phthalate	7.71	149	246480	87.30 ug/ml	99
55) 4-Nitroaniline	7.86	138	71347	88.24 ug/ml	92
57) 4,6-Dinitro-2-methylpheno	7.87	198	38021	77.91 ug/ml	99
58) n-Nitrosodiphenylamine	7.95	169	319636	71.86 ug/ml	99
59) 1,2-diphenyl-Hydrazine	7.99	77	283779	77.54 ug/ml	97
61) 4-Bromophenyl phenylether	8.35	248	59185	69.97 ug/ml	92
62) Hexachlorobenzene	8.40	284	57567	73.49 ug/ml	94
63) Pentachlorophenol	8.64	266	35393	70.26 ug/ml	97
64) Phenanthrene	8.84	178	331913	76.55 ug/ml	100
65) Anthracene	8.90	178	345094	82.11 ug/ml	99
66) Carbazole	9.09	167	334012	80.68 ug/ml	100
67) Di-n-butyl phthalate	9.47	149	413505	84.64 ug/ml	99
68) Fluoranthene	10.00	202	353208	83.56 ug/ml	97
70) Benzidine	10.14	184	105804	55.89 ug/ml	97
71) Pyrene	10.20	202	379973	84.27 ug/ml	94
73) Butyl benzyl phthalate	10.77	149	193932	90.37 ug/ml	98
74) Benzo[a]anthracene	11.18	228	343205	82.18 ug/ml	98
75) 3,3'-Dichlorobenzidine	11.17	252	113919	75.58 ug/ml	99
76) Chrysene	11.21	228	324792	80.59 ug/ml	98
77) bis(2-Ethylhexyl)phthalat	11.22	149	265162	88.67 ug/ml	99
79) Di-n-octyl phthalate	11.68	149	476729	108.08 ug/ml	100
80) Benzo[b]fluoranthene	11.96	252	325464	91.96 ug/ml	98
81) Benzo[k]fluoranthene	11.98	252	261581	82.54 ug/ml	99
82) Benzo[a]pyrene	12.20	252	269305	85.05 ug/ml	99
83) Indeno[1,2,3cd]pyrene	13.12	276	265268	71.48 ug/ml	97
84) Dibenz[a,h]anthracene	13.12	278	146574	59.20 ug/ml	100
85) Benzo[g,h,i]perylene	13.36	276	231335	69.52 ug/ml	96

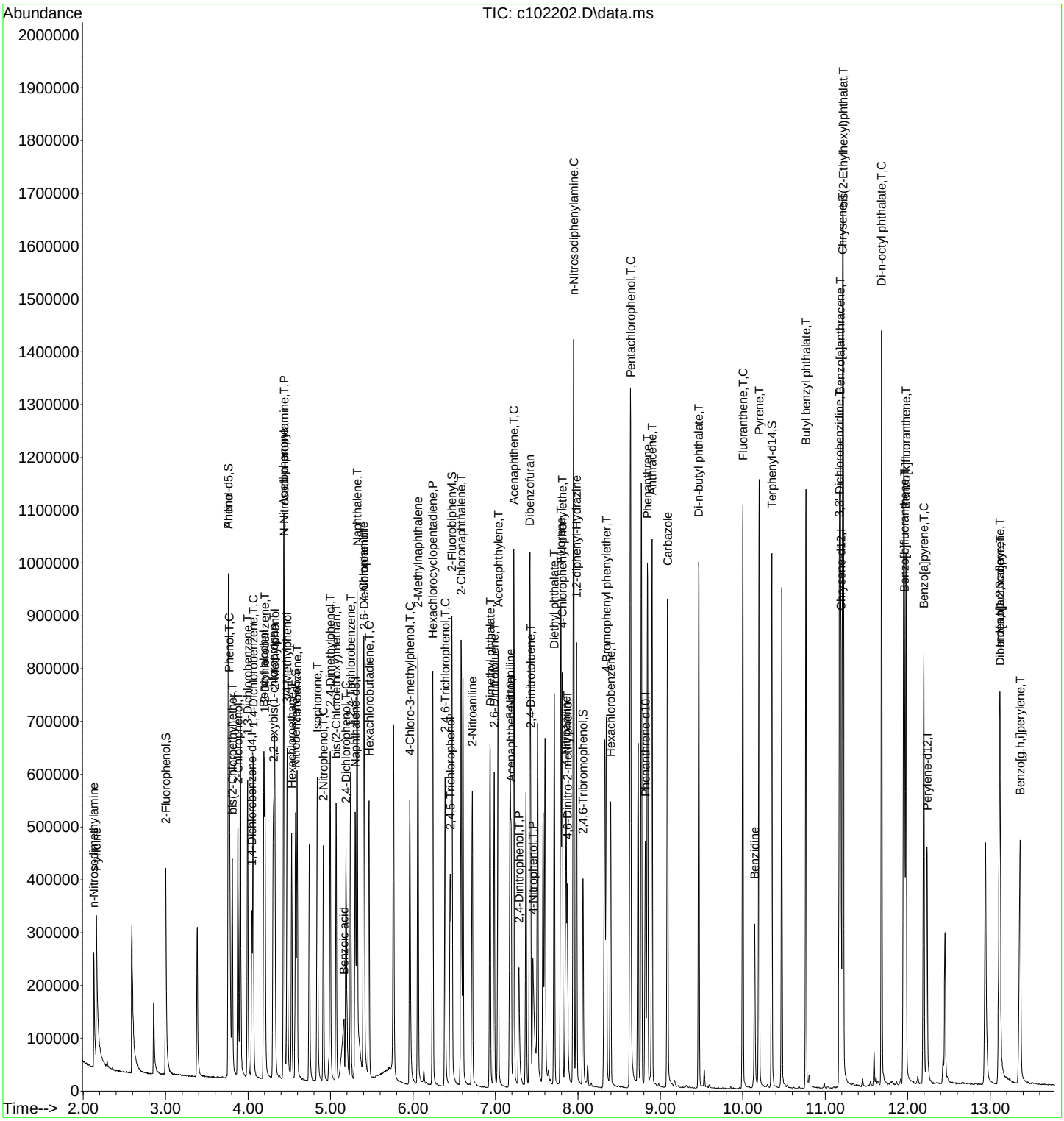
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : D:\Data\c102208\c102202.D
Acq On : 22 Oct 2008 7:16 pm
Sample : ,ccv,svoa ccv 80ug/ml,1,ab86-04
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 22 19:30:22 2008
Quant Results File: SVOA0916.RES

Vial: 2
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Mon Oct 13 18:04:22 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



SAMPLE RAW DATA

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102227.D Vial: 49
Acq On : 23 Oct 2008 3:12 am Operator: mills
Sample : ,samp,me0810733-01a,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:40:17 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	21369	40.00	ug/ml	0.00
19) Naphthalene-d8	5.30	136	93914	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.19	164	48233	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.81	188	78975	40.00	ug/ml	0.00
69) Chrysene-d12	11.18	240	72959	40.00	ug/ml	0.00
78) Perylene-d12	12.23	264	66618	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	39209	52.86	ug/ml	0.00
5) Phenol-d5	3.77	99	35584	36.50	ug/ml	0.00
20) Nitrobenzene-d5	4.57	82	61538	66.37	ug/ml	0.00
40) 2-Fluorobiphenyl	6.47	172	96966	61.64	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.06	330	18165	79.24	ug/ml	0.00
72) Terphenyl-d14	10.35	244	97843	67.99	ug/ml	0.00
Target Compounds						Qvalue
67) Di-n-butyl phthalate	9.43	149	12360	4.66	ug/ml#	59

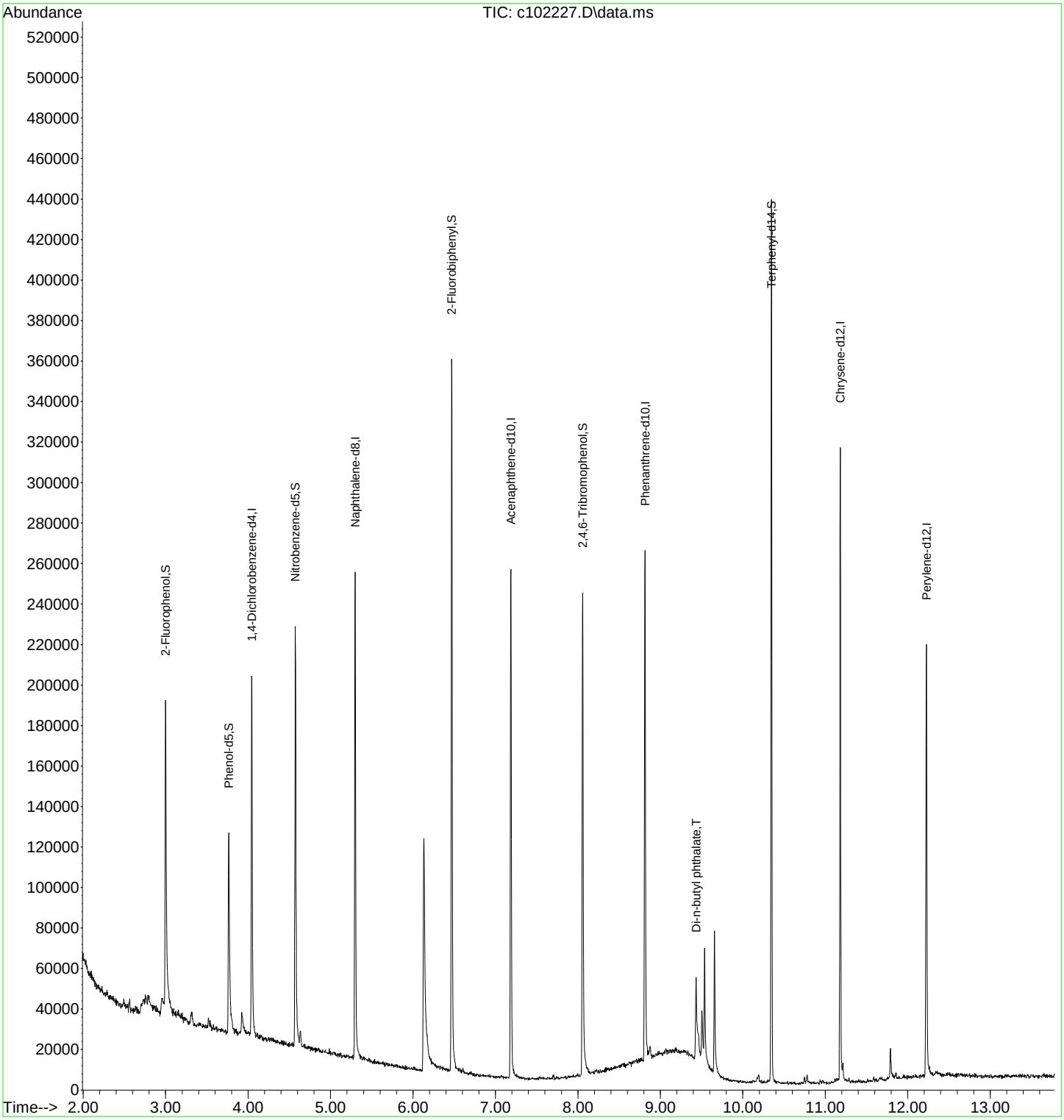
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102227.D
Acq On : 23 Oct 2008 3:12 am
Sample : ,samp,me0810733-01a,1,
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 23 14:40:17 2008
Quant Results File: SVOA0916.RES

Vial: 49
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



LSC Area Percent Report

Data Path : D:\Data\c102208\
Data File : c102227.D
Acq On : 23 Oct 2008 3:12 am
Operator : mills
Sample : ,samp,me0810733-01a,1,
Misc : 8270_w
ALS Vial : 49 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\SVOA0916.M
Title : BNA Quantitation

Signal : TIC: c102227.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.998	351	356	372	rBV	149561	148506	47.03%	5.077%
2	3.766	620	626	645	rBV	98693	112854	35.74%	3.858%
3	3.922	678	681	691	rBV3	9936	12915	4.09%	0.442%
4	4.044	719	724	738	rVB	176515	149775	47.43%	5.120%
5	4.573	904	910	927	rBV	206974	194182	61.49%	6.638%
6	5.300	1159	1166	1184	rBV	239857	207759	65.79%	7.103%
7	6.132	1452	1459	1484	rBV	114989	189997	60.17%	6.495%
8	6.468	1570	1577	1594	rBV	351382	304084	96.30%	10.396%
9	7.187	1823	1830	1841	rBV2	250698	219955	69.66%	7.520%
10	8.059	2130	2137	2149	rBV	237970	225474	71.40%	7.708%
11	8.815	2396	2403	2414	rBV2	252561	228788	72.45%	7.822%
12	9.434	2614	2621	2636	rBV3	40301	57913	18.34%	1.980%
13	9.502	2641	2645	2652	rVV	24073	24091	7.63%	0.824%
14	9.537	2652	2657	2667	rVB	55185	43970	13.92%	1.503%
15	9.656	2694	2699	2713	rVB	69923	57885	18.33%	1.979%
16	10.346	2935	2942	2954	rVB2	435710	315773	100.00%	10.795%
17	11.182	3230	3236	3244	rBV	312276	221555	70.16%	7.574%
18	11.216	3244	3248	3251	rVB2	7671	5598	1.77%	0.191%
19	11.790	3442	3450	3455	rBV6	14926	13145	4.16%	0.449%
20	12.227	3596	3604	3612	rBV	213436	190875	60.45%	6.525%

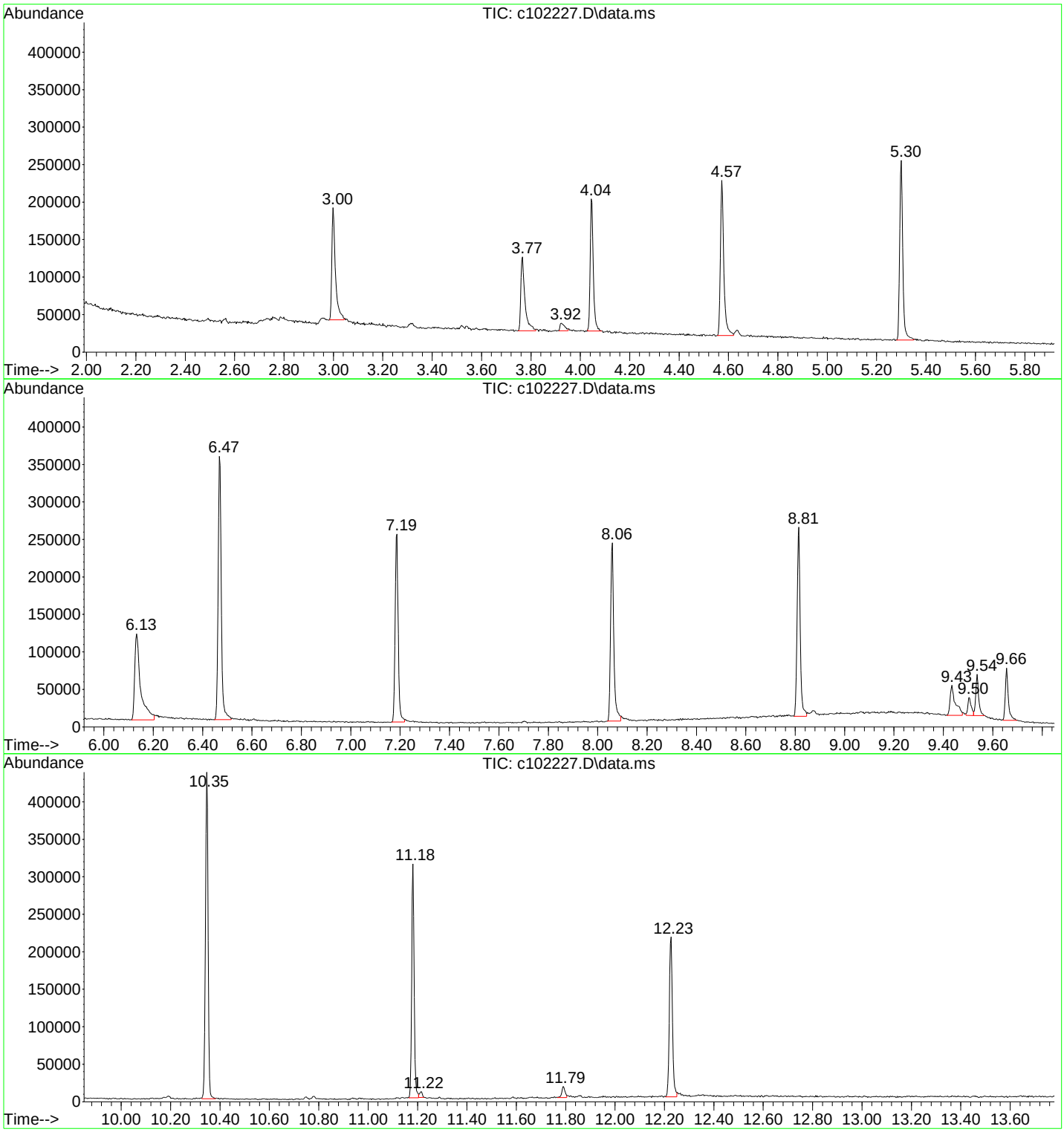
Sum of corrected areas: 2925094

LSC Report - Integrated Chromatogram

Data Path : D:\Data\c102208\
Data File : c102227.D
Acq On : 23 Oct 2008 3:12 am
Operator : mills
Sample : ,samp,me0810733-01a,1,
Misc : 8270_w
ALS Vial : 49 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

```
Data Path : D:\Data\c102208\
Data File : c102227.D
Acq On    : 23 Oct 2008   3:12 am
Operator  : mills
Sample    : ,samp,me0810733-01a,1,
Misc      : 8270_w
ALS Vial  : 49   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

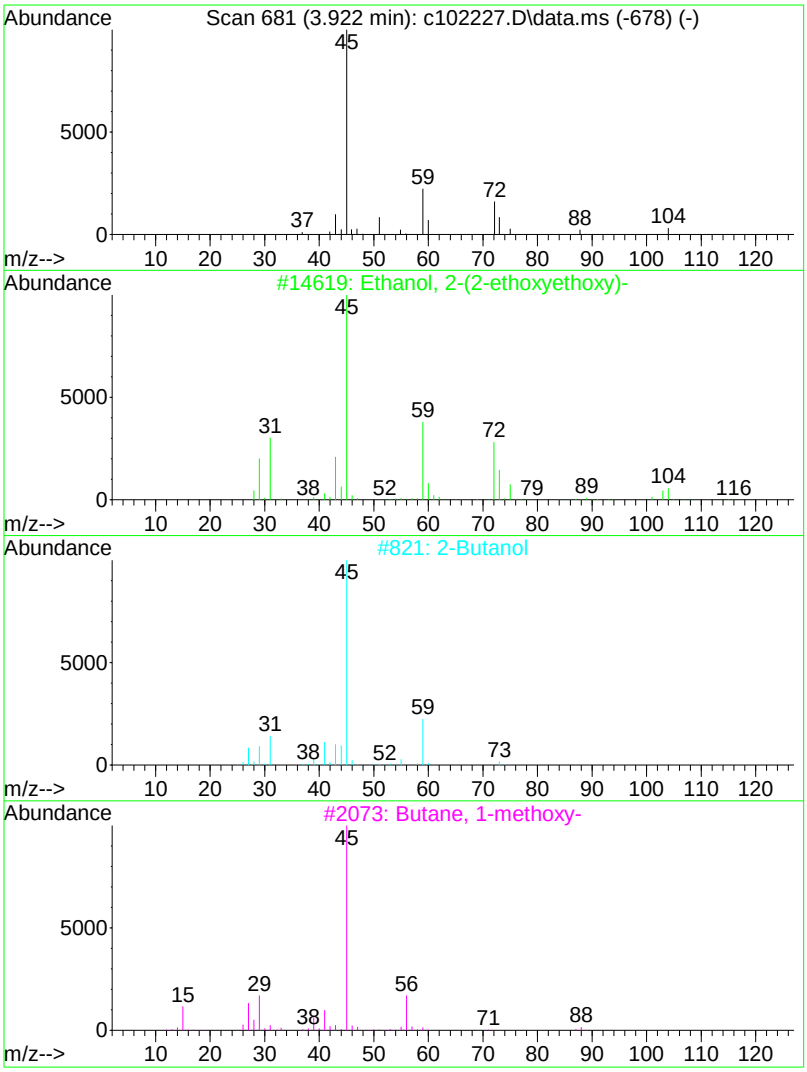
TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
```

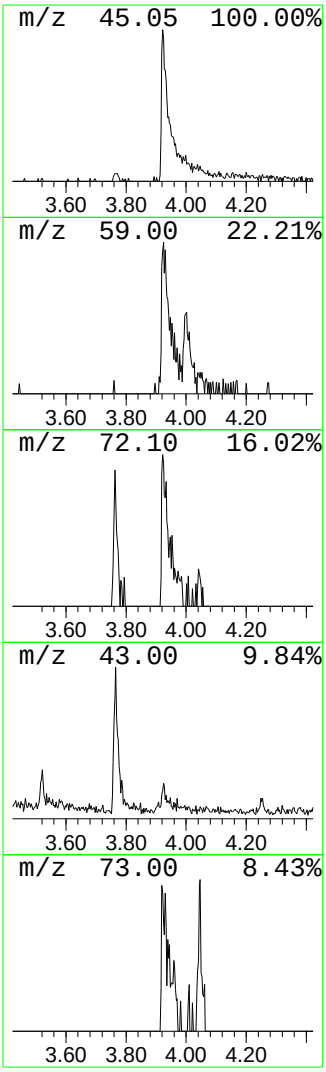
****

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.92	3.45 ug/ml	12915	1,4-Dichlorobenzene-d4	4.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	47
2	2-Butanol	74	C4H10O	000078-92-2	45
3	Butane, 1-methoxy-	88	C5H12O	000628-28-4	40
4	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	38
5	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	38





Library Search Compound Report

Data Path : D:\Data\c102208\
Data File : c102227.D
Acq On : 23 Oct 2008 3:12 am
Operator : mills
Sample : ,samp,me0810733-01a,1,
Misc : 8270_w
ALS Vial : 49 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

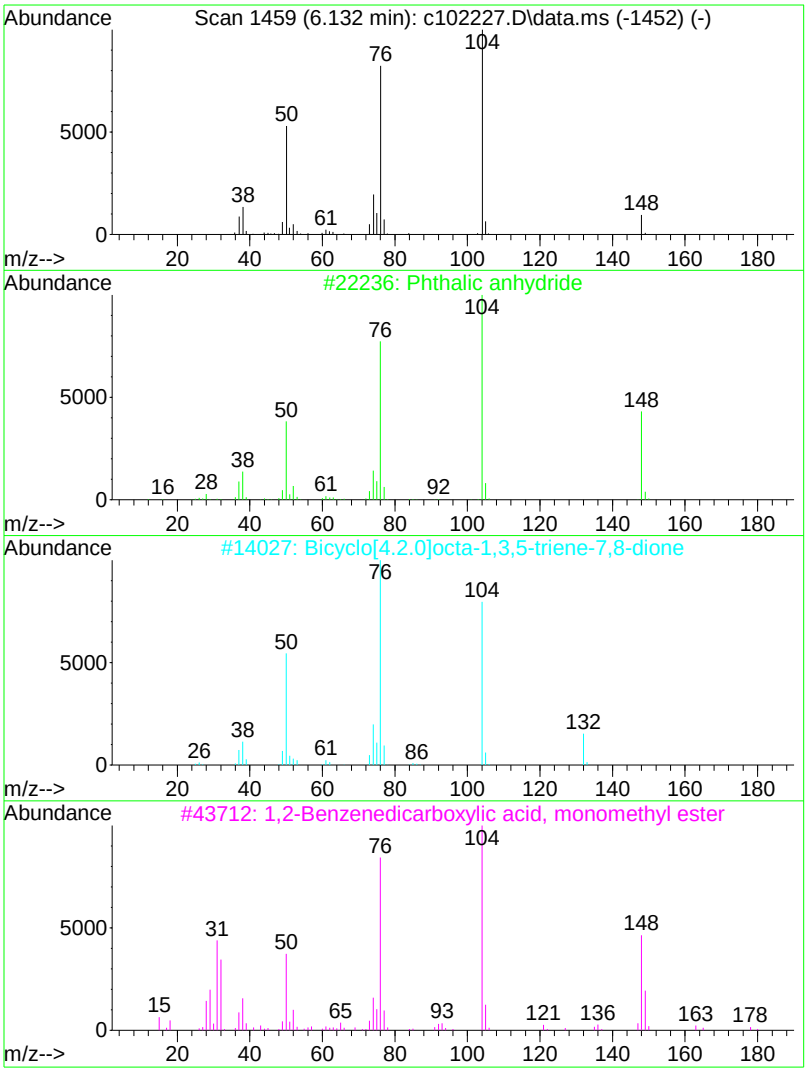
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

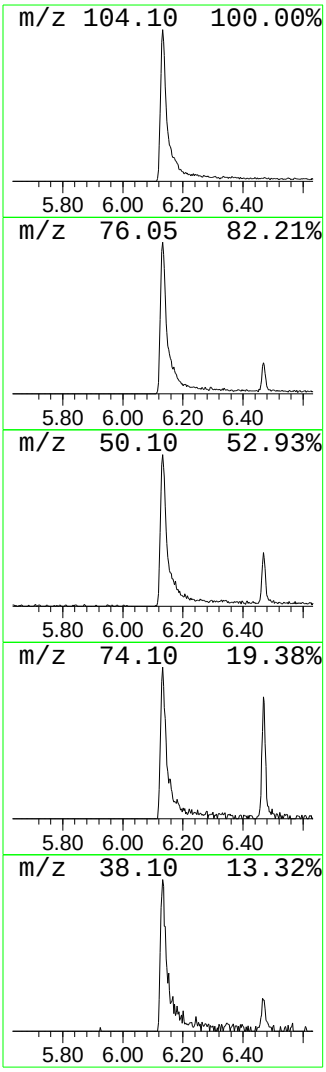
****

Peak Number 2 Phthalic anhydride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.13	36.58 ug/ml	189997	Naphthalene-d8	5.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic anhydride	148	C8H4O3	000085-44-9	94
2	Bicyclo[4.2.0]octa-1,3,5-triene-...	132	C8H4O2	006383-11-5	86
3	1,2-Benzenedicarboxylic acid, mo...	180	C9H8O4	004376-18-5	74
4	1,2-Benzenedicarboxylic acid	166	C8H6O4	000088-99-3	74
5	1,2-Benzenedicarboxylic acid, mo...	180	C9H8O4	004376-18-5	74





Library Search Compound Report

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Operator  : mills
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Misc      : 8270_w
ALS Vial  : 49   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
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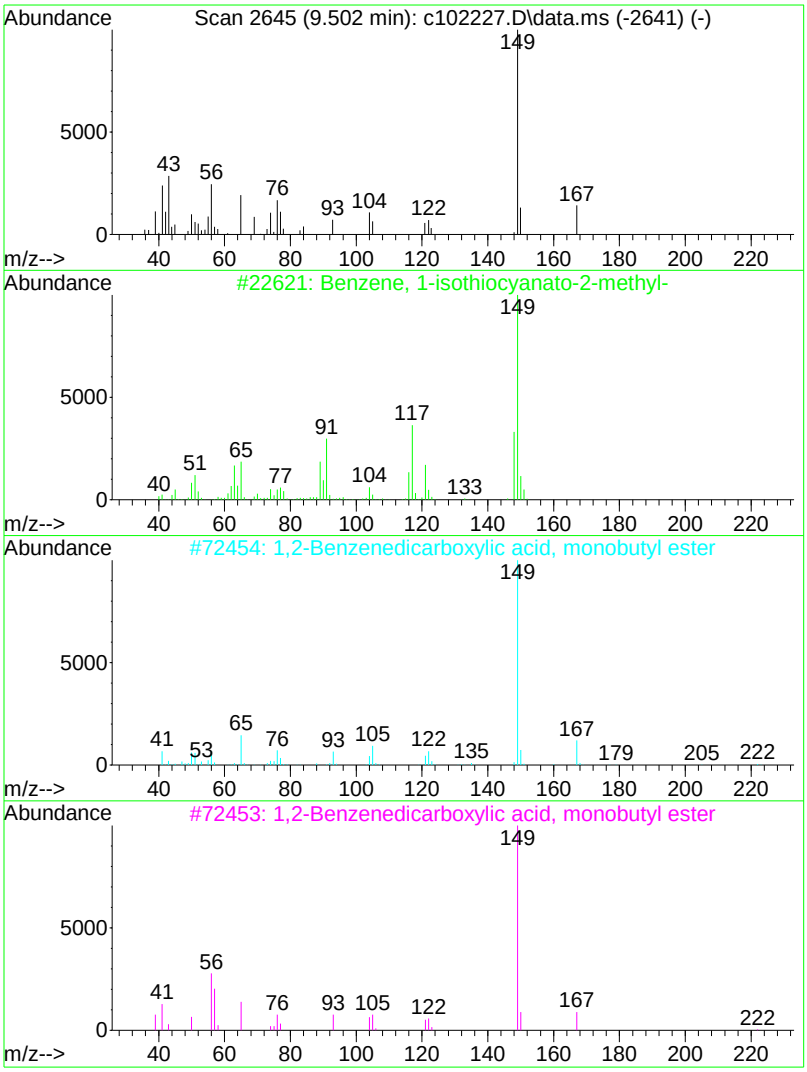
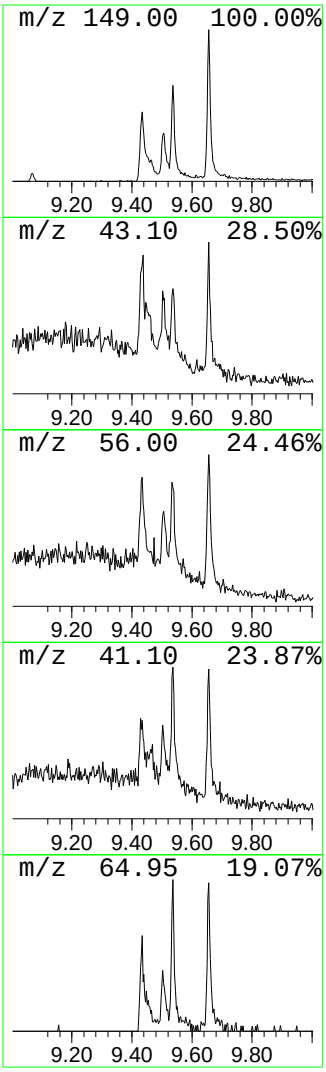
****

Peak Number 3 Benzene, 1-isothiocyanato-2... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.50	4.21 ug/ml	24091	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-isothiocyanato-2-methyl-	149	C8H7NS	000614-69-7	59
2	1,2-Benzenedicarboxylic acid, mo...	222	C12H14O4	000131-70-4	50
3	1,2-Benzenedicarboxylic acid, mo...	222	C12H14O4	000131-70-4	50
4	Phthalic acid, 2-hexyl ester	250	C14H18O4	079107-80-5	45
5	2-Acetylbenzoic acid	164	C9H8O3	000577-56-0	45





Data Path : D:\Data\c102208\
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Acq On : 23 Oct 2008 3:12 am
Operator : mills
Sample : ,samp,me0810733-01a,1,
Misc : 8270_w
ALS Vial : 49 Sample Multiplier: 1

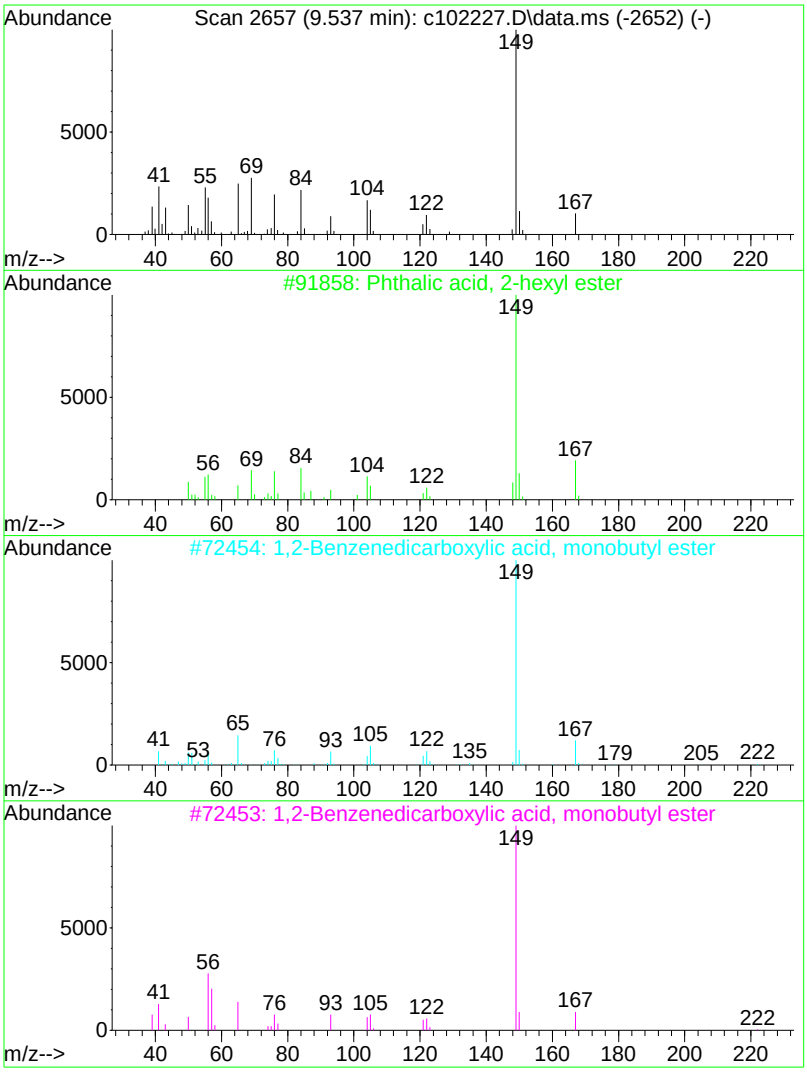
Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

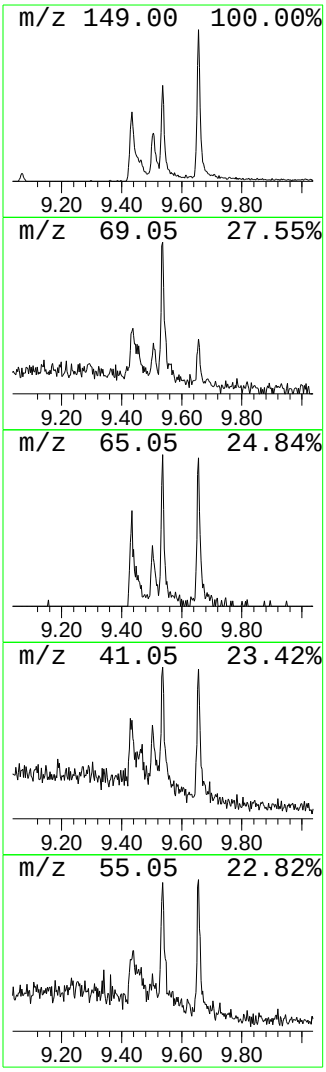
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Phthalic acid, 2-hexyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	7.69 ug/ml	43970	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic acid, 2-hexyl ester	250	C14H18O4	079107-80-5	64
2	1,2-Benzenedicarboxylic acid, mo...	222	C12H14O4	000131-70-4	59
3	1,2-Benzenedicarboxylic acid, mo...	222	C12H14O4	000131-70-4	45
4	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000085-69-8	45
5	1,2-Benzenedicarboxylic acid, mo...	222	C12H14O4	000131-70-4	45





Library Search Compound Report

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Operator  : mills
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Misc      : 8270_w
ALS Vial  : 49   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
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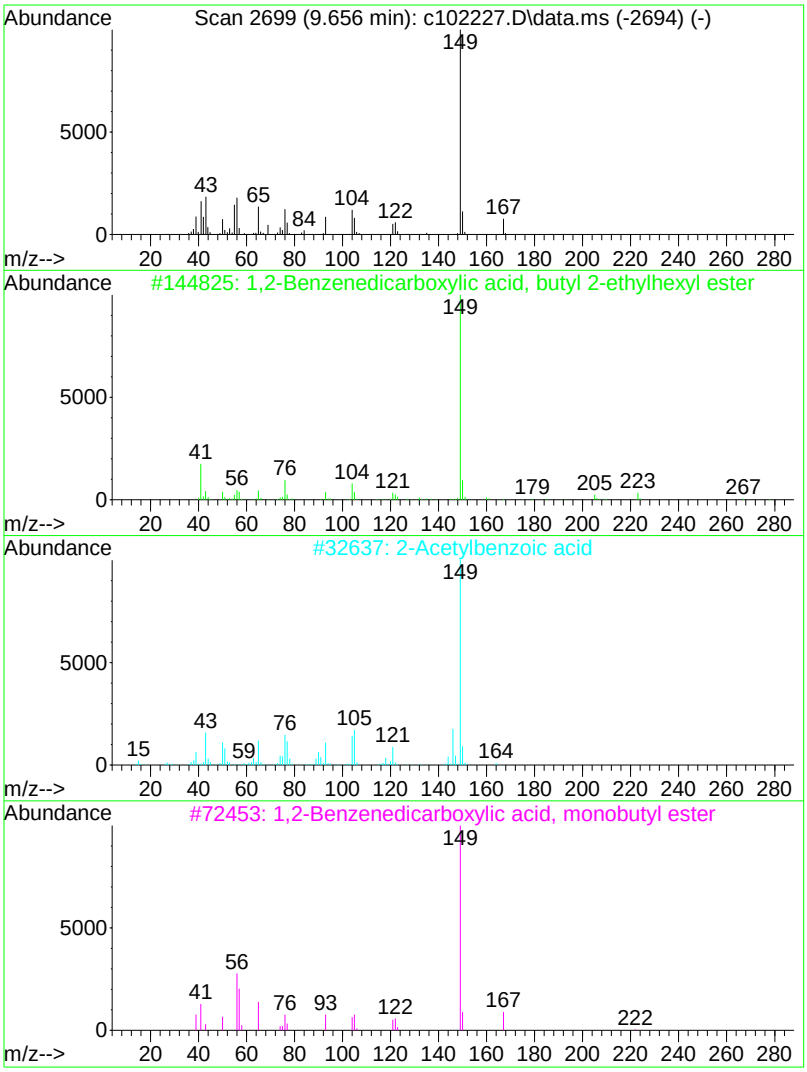
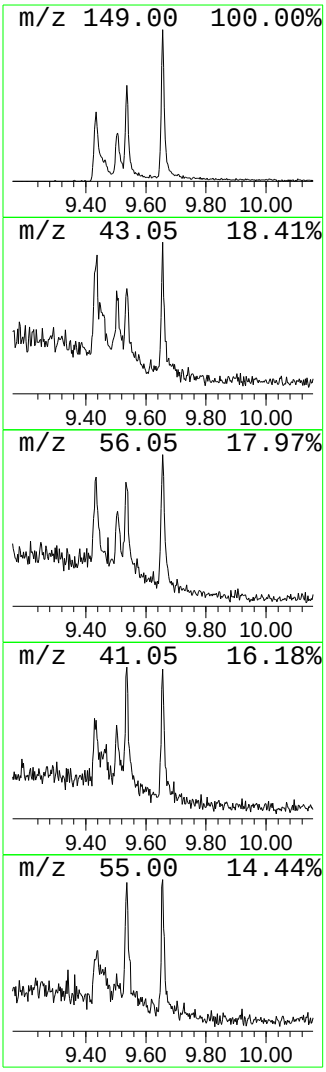
Peak Number 5 1,2-Benzenedicarboxylic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.66	10.12 ug/ml	57885	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000085-69-8	72
2	2-Acetylbenzoic acid	164	C9H8O3	000577-56-0	56
3	1,2-Benzenedicarboxylic acid, mo...	222	C12H14O4	000131-70-4	50
4	1,2-Benzenedicarboxylic acid, mo...	278	C16H22O4	004376-20-9	50
5	1,2-Benzenedicarboxylic acid, mo...	222	C12H14O4	000131-70-4	47





Data Path : D:\Data\c102208\
Data File : c102227.D
Acq On : 23 Oct 2008 3:12 am
Operator : mills
Sample : ,samp,me0810733-01a,1,
Misc : 8270_w
ALS Vial : 49 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

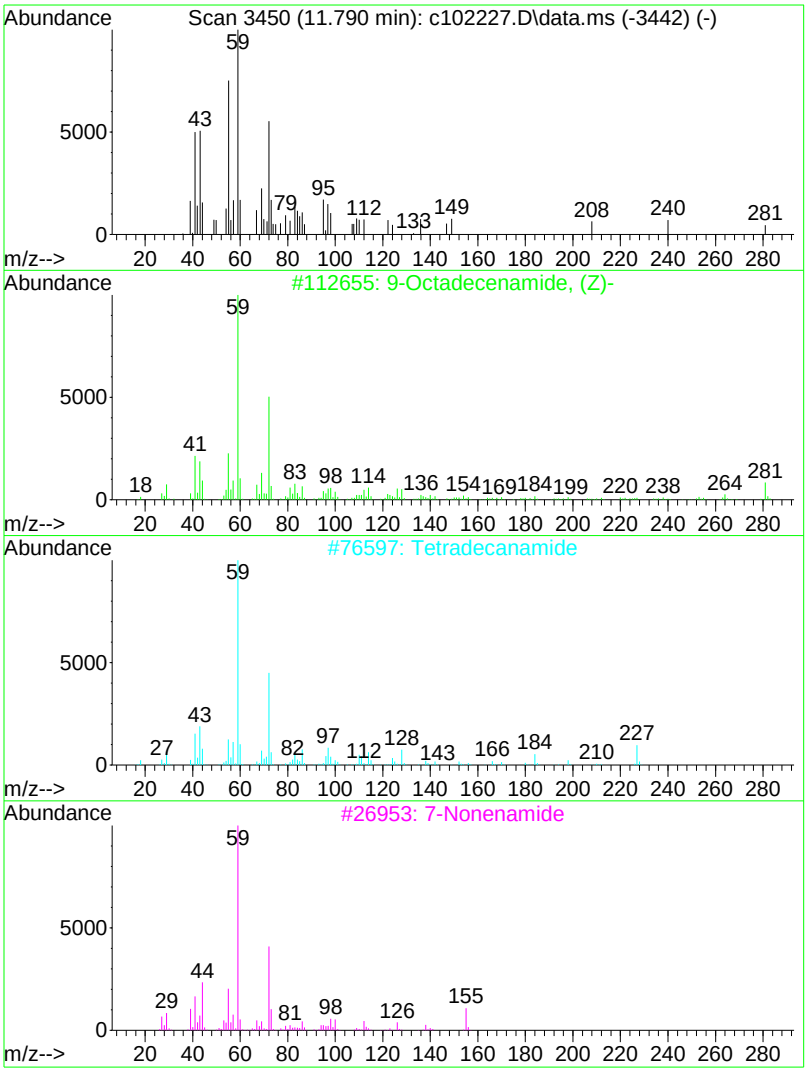
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

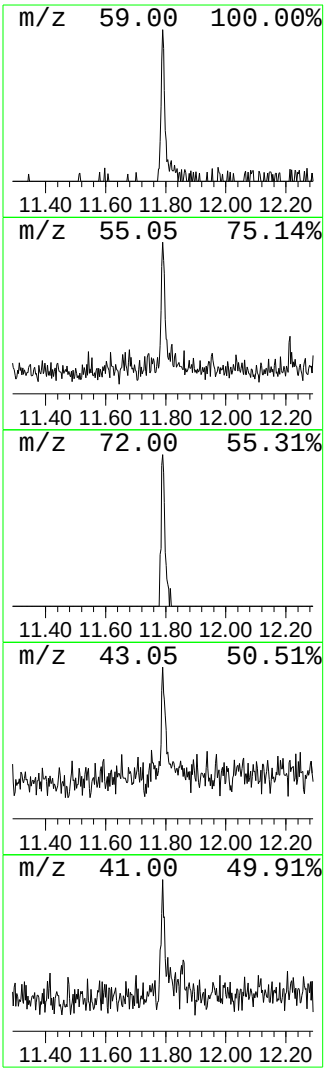
****

Peak Number 6 9-Octadecenamide, (Z)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	2.75 ug/ml	13145	Perylene-d12	12.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64
2	Tetradecanamide	227	C14H29NO	000638-58-4	45
3	7-Nonenamide	155	C9H17NO	090949-53-4	45
4	Dodecanamide	199	C12H25NO	001120-16-7	42
5	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	38





Tentatively Identified Compound (LSC) summary

Data Path : D:\Data\c102208\
Data File : c102227.D
Acq On : 23 Oct 2008 3:12 am
Operator : mills
Sample : ,samp,me0810733-01a,1,
Misc : 8270_w
ALS Vial : 49 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethanol, 2-(2-e...	3.92	3.4	ug/ml	12915	1	4.05	149775	40.0
Phthalic anhydride	6.13	36.6	ug/ml	189997	2	5.30	207759	40.0
Benzene, 1-isot...	9.50	4.2	ug/ml	24091	4	8.81	228788	40.0
Phthalic acid, ...	9.54	7.7	ug/ml	43970	4	8.81	228788	40.0
1,2-Benzenedica...	9.66	10.1	ug/ml	57885	4	8.81	228788	40.0
9-Octadecenamid...	11.79	2.8	ug/ml	13145	6	12.23	190875	40.0

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102228.D Vial: 50
Acq On : 23 Oct 2008 3:31 am Operator: mills
Sample : ,samp,me0810733-02a,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:40:21 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	33559	40.00	ug/ml	0.00
19) Naphthalene-d8	5.30	136	141574	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.18	164	69488	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.81	188	95686	40.00	ug/ml	0.00
69) Chrysene-d12	11.18	240	77772	40.00	ug/ml	0.00
78) Perylene-d12	12.23	264	71437	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	56785	48.74	ug/ml	0.00
5) Phenol-d5	3.76	99	52354	34.20	ug/ml	0.00
20) Nitrobenzene-d5	4.57	82	89256	63.86	ug/ml	0.00
40) 2-Fluorobiphenyl	6.47	172	132482	58.46	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.06	330	23930	86.16	ug/ml	0.00
72) Terphenyl-d14	10.35	244	101211	65.98	ug/ml	0.00

Target Compounds Qvalue

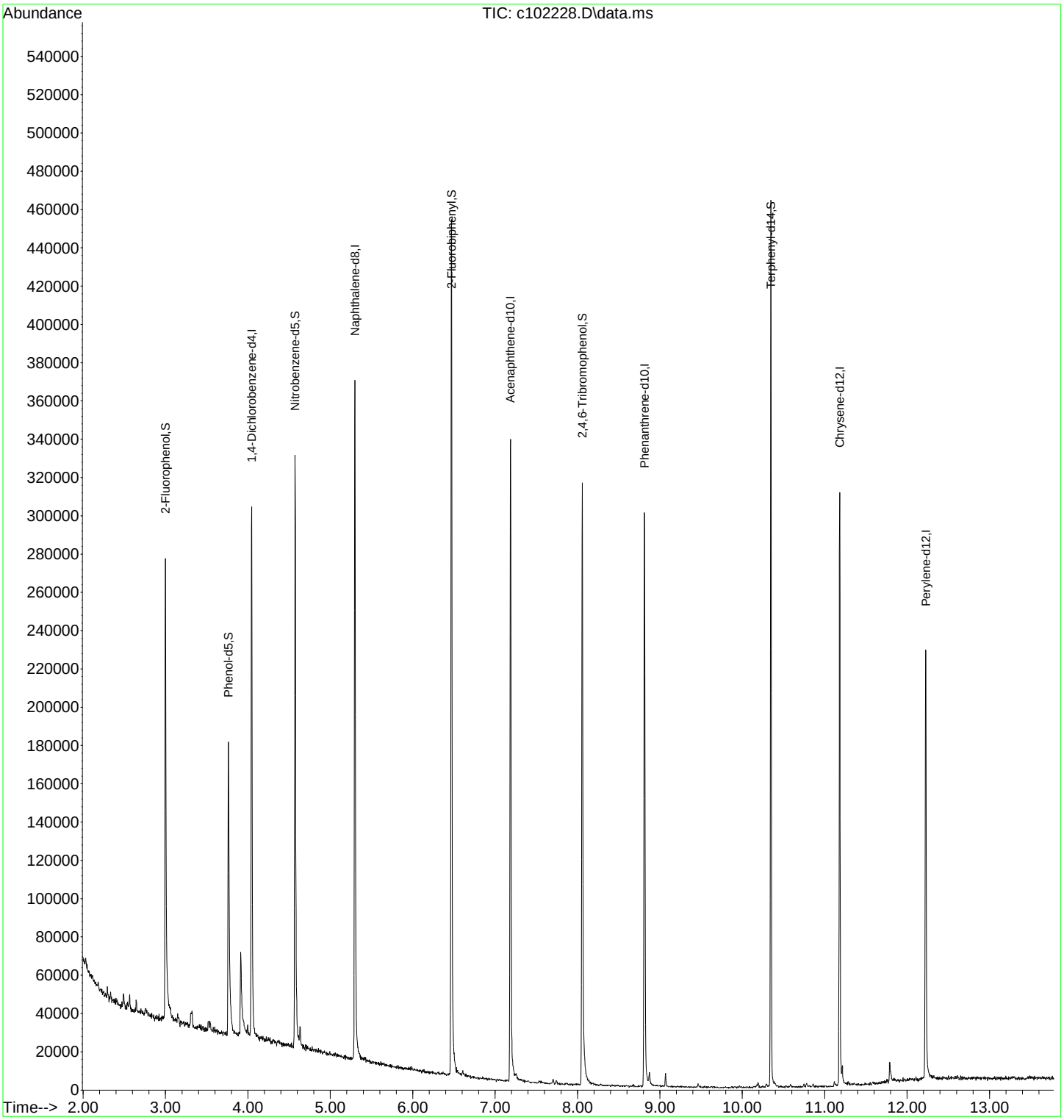
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102228.D
Acq On : 23 Oct 2008 3:31 am
Sample : ,samp,me0810733-02a,1,
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 23 14:40:21 2008
Quant Results File: SVOA0916.RES

Vial: 50
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



LSC Area Percent Report

Data Path : D:\Data\c102208\
Data File : c102228.D
Acq On : 23 Oct 2008 3:31 am
Operator : mills
Sample : ,samp,me0810733-02a,1,
Misc : 8270_w
ALS Vial : 50 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\SVOA0916.M
Title : BNA Quantitation

Signal : TIC: c102228.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.999	351	356	370	rBV	238564	209561	50.25%	6.204%
2	3.763	620	625	643	rBV	153366	168084	40.30%	4.976%
3	3.913	674	678	696	rBV	42648	56746	13.61%	1.680%
4	4.047	719	725	735	rBV	274727	231734	55.56%	6.860%
5	4.573	904	910	924	rBV	308372	274917	65.92%	8.138%
6	4.632	929	931	938	rVB6	10015	7201	1.73%	0.213%
7	5.300	1159	1166	1180	rBV	353486	310383	74.42%	9.188%
8	6.471	1570	1578	1598	rBV	446535	417073	100.00%	12.347%
9	7.187	1822	1830	1847	rBV	335512	318792	76.44%	9.437%
10	8.059	2129	2137	2164	rBV2	314646	313758	75.23%	9.288%
11	8.812	2394	2402	2416	rBV2	299778	274200	65.74%	8.117%
12	8.875	2419	2424	2429	rVB4	6070	5432	1.30%	0.161%
13	9.068	2487	2492	2499	rVB2	6907	4941	1.18%	0.146%
14	10.347	2935	2942	2954	rBV	462701	324223	77.74%	9.598%
15	11.182	3226	3236	3244	rBV2	310124	239606	57.45%	7.093%
16	11.216	3244	3248	3252	rVB3	8259	5931	1.42%	0.176%
17	11.790	3446	3450	3452	rBV3	10019	7221	1.73%	0.214%
18	12.225	3595	3603	3617	rBV	223803	208180	49.91%	6.163%

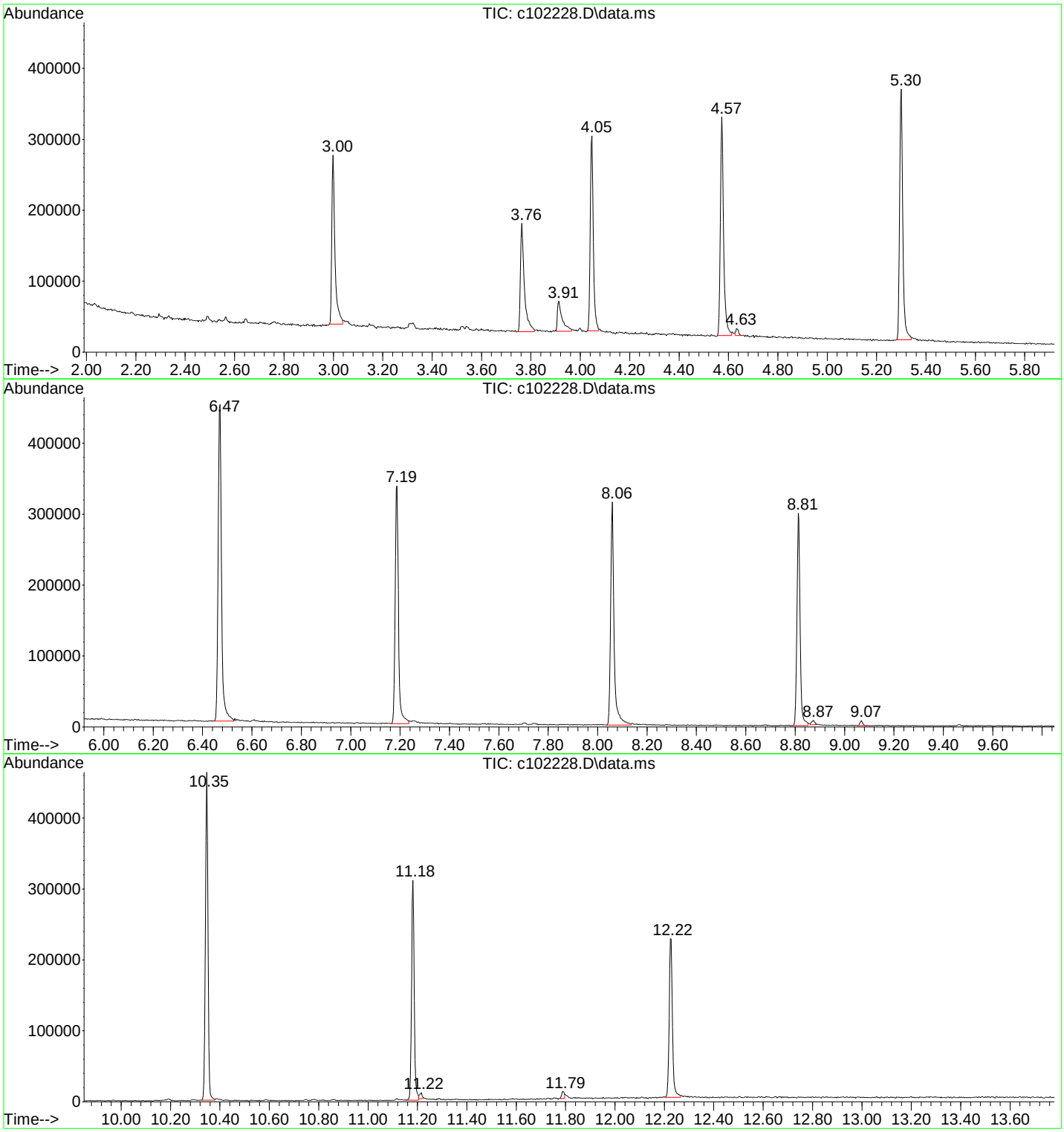
Sum of corrected areas: 3377983

LSC Report - Integrated Chromatogram

Data Path : D:\Data\c102208\
Data File : c102228.D
Acq On : 23 Oct 2008 3:31 am
Operator : mills
Sample : ,samp,me0810733-02a,1,
Misc : 8270_w
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

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Data File : c102228.D
Acq On    : 23 Oct 2008   3:31 am
Operator  : mills
Sample    : ,samp,me0810733-02a,1,
Misc      : 8270_w
ALS Vial  : 50   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
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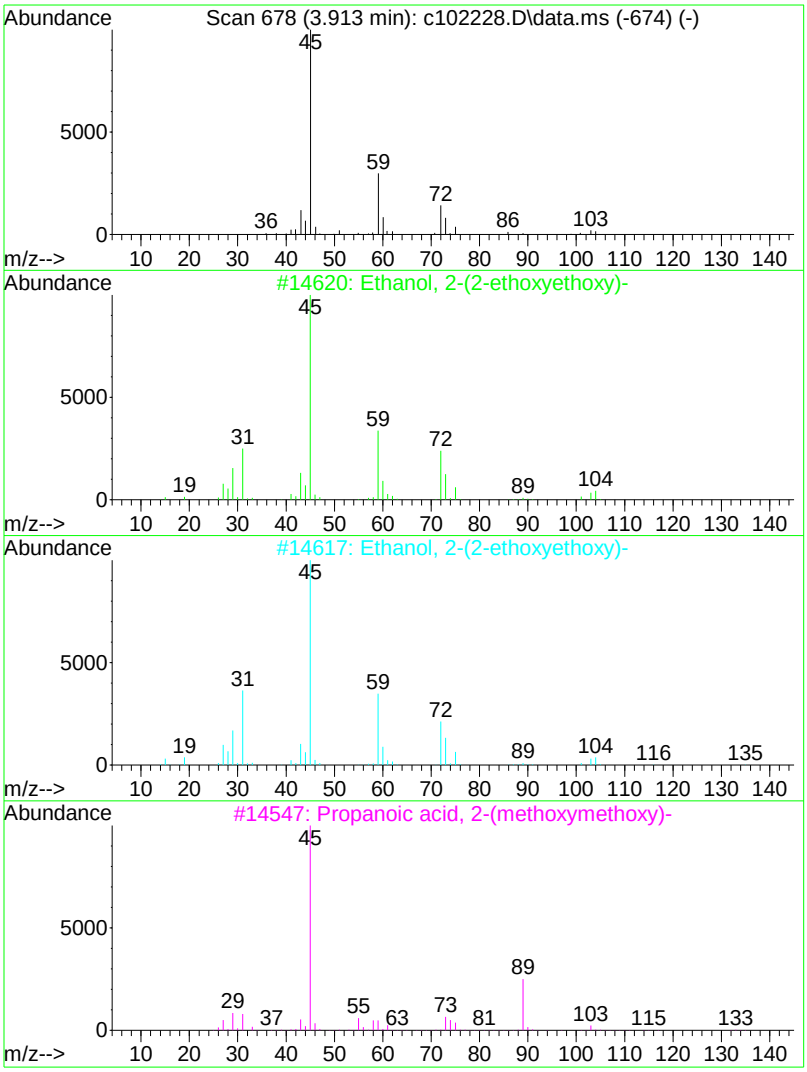
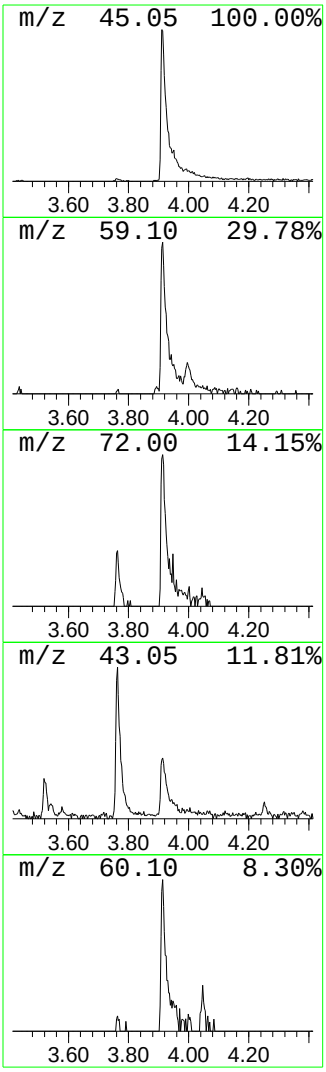
****

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.91	9.80 ug/ml	56746	1,4-Dichlorobenzene-d4	4.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	74
2	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	47
3	Propanoic acid, 2-(methoxymethoxy)-	134	C5H10O4	081327-29-9	38
4	Ethanol, 2-[2-(2-propenyloxy)eth...	146	C7H14O3	015075-50-0	38
5	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	27





Data Path : D:\Data\c102208\
Data File : c102228.D
Acq On : 23 Oct 2008 3:31 am
Operator : mills
Sample : ,samp,me0810733-02a,1,
Misc : 8270_w
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

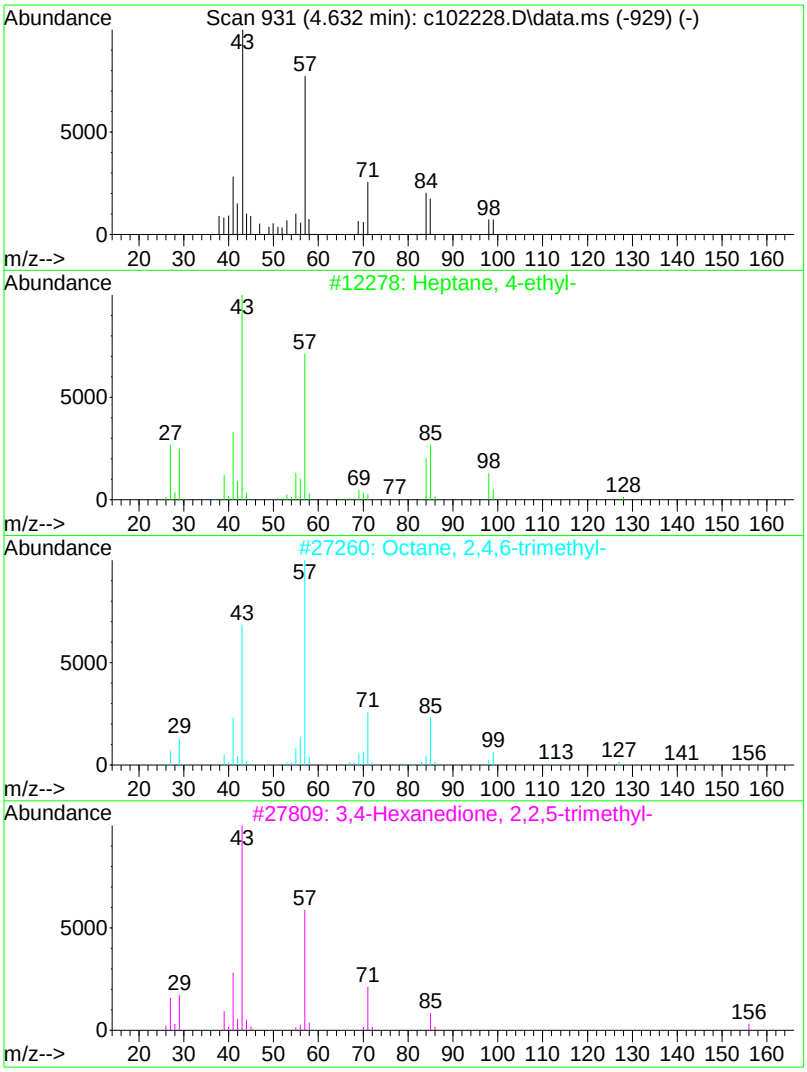
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

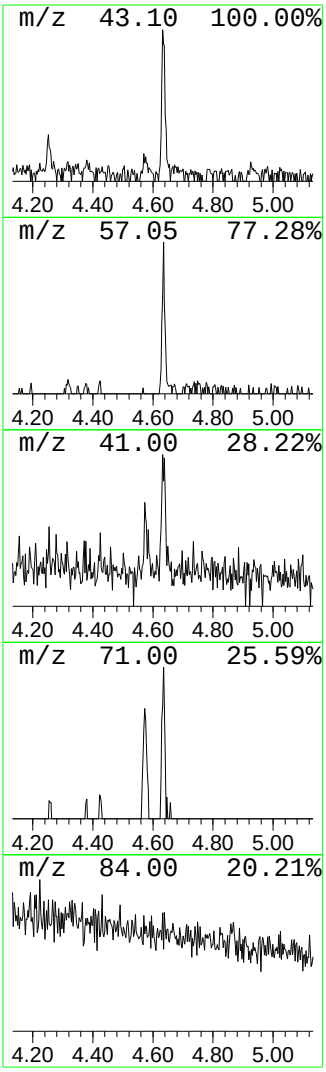
****

Peak Number 2 Heptane, 4-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.63	1.24 ug/ml	7201	1,4-Dichlorobenzene-d4	4.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-ethyl-	128	C9H20	002216-32-2	43
2	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	37
3	3,4-Hexanedione, 2,2,5-trimethyl-	156	C9H16O2	020633-03-8	37
4	Pentane, 3-ethyl-2-methyl-	114	C8H18	000609-26-7	25
5	1,3-Dioxane-2-propanol, 2-methyl-	160	C8H16O3	036651-31-7	25





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Data File : c102228.D
Acq On    : 23 Oct 2008   3:31 am
Operator  : mills
Sample    : ,samp,me0810733-02a,1,
Misc      : 8270_w
ALS Vial  : 50   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
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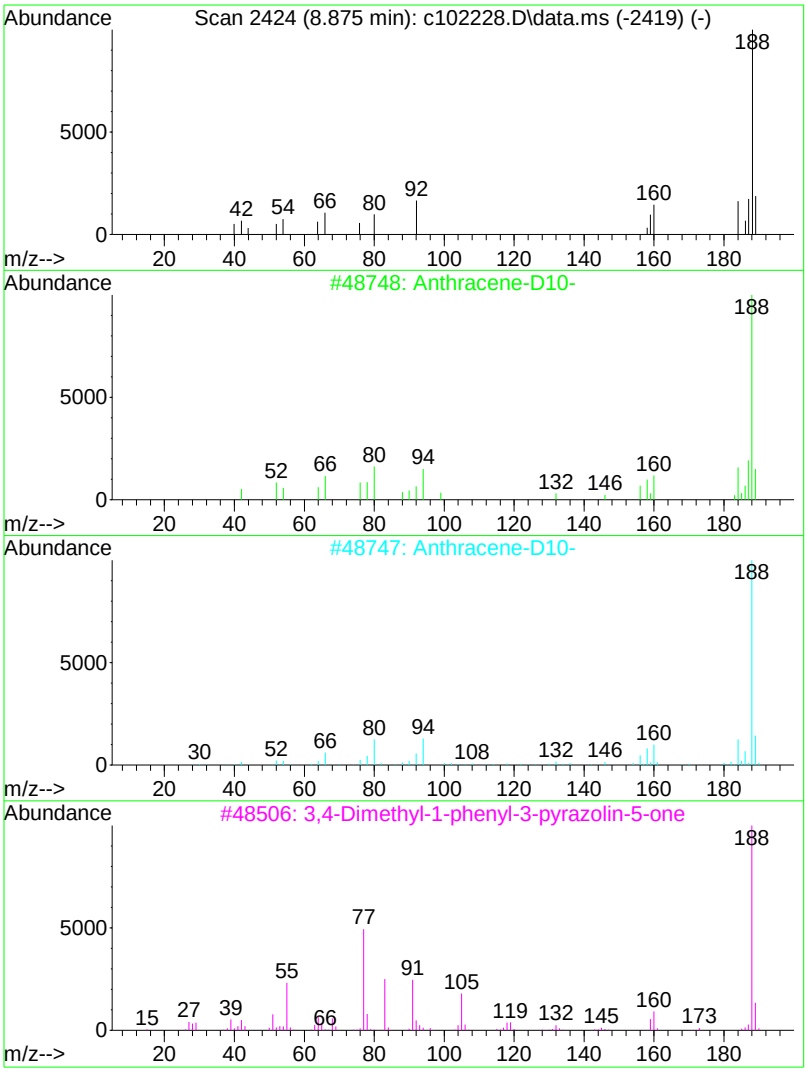
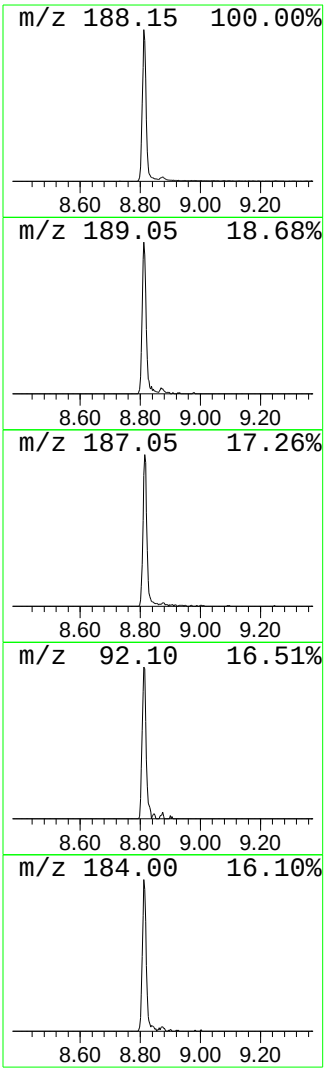
****

Peak Number 3 Anthracene-D10- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.87	0.79 ug/ml	5432	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene-D10-	188	C14D10	001719-06-8	83
2	Anthracene-D10-	188	C14D10	001719-06-8	64
3	3,4-Dimethyl-1-phenyl-3-pyrazoli...	188	C11H12N2O	017900-68-4	53
4	3-Amino-4-methyl-6-methoxyquinoline	188	C11H12N2O	070945-24-3	53
5	Phenanthrene-D10	188	C14D10	001517-22-2	50





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Data Path : D:\Data\c102208\
Data File : c102228.D
Acq On    : 23 Oct 2008   3:31 am
Operator  : mills
Sample    : ,samp,me0810733-02a,1,
Misc      : 8270_w
ALS Vial  : 50   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

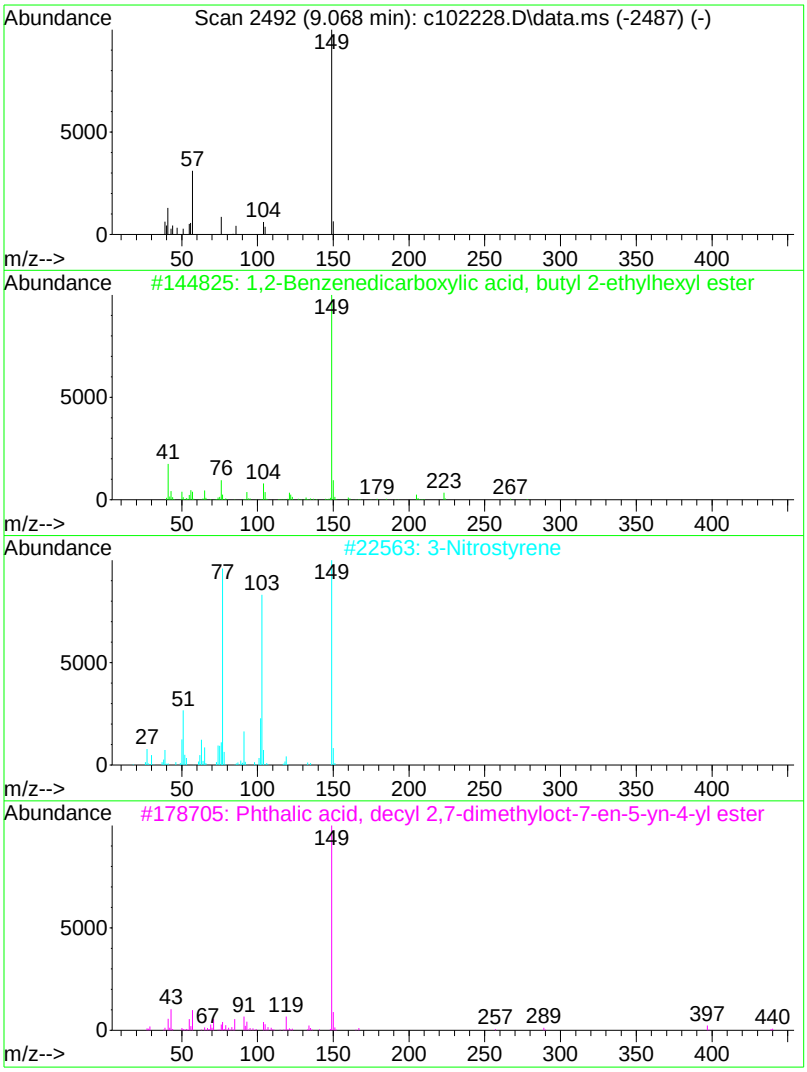
TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
```

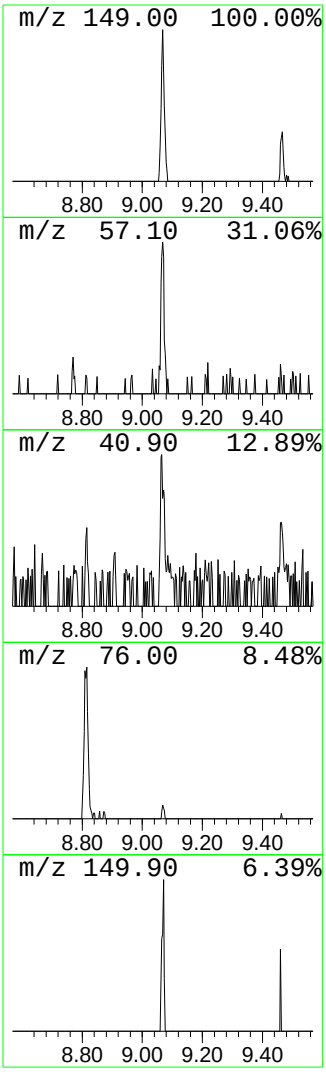
****

Peak Number 4 1,2-Benzenedicarboxylic aci... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.07	0.72 ug/ml	4941	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000085-69-8	56
2	3-Nitrostyrene	149	C8H7NO2	000586-39-0	9
3	Phthalic acid, decyl 2,7-dimethy...	440	C28H40O4	1000315-49-5	9
4	2-Acetylbenzoic acid	164	C9H8O3	000577-56-0	9
5	Benzoic acid, 2-(1-oxopropyl)-	178	C10H10O3	002360-45-4	9





Data Path : D:\Data\c102208\
Data File : c102228.D
Acq On : 23 Oct 2008 3:31 am
Operator : mills
Sample : ,samp,me0810733-02a,1,
Misc : 8270_w
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

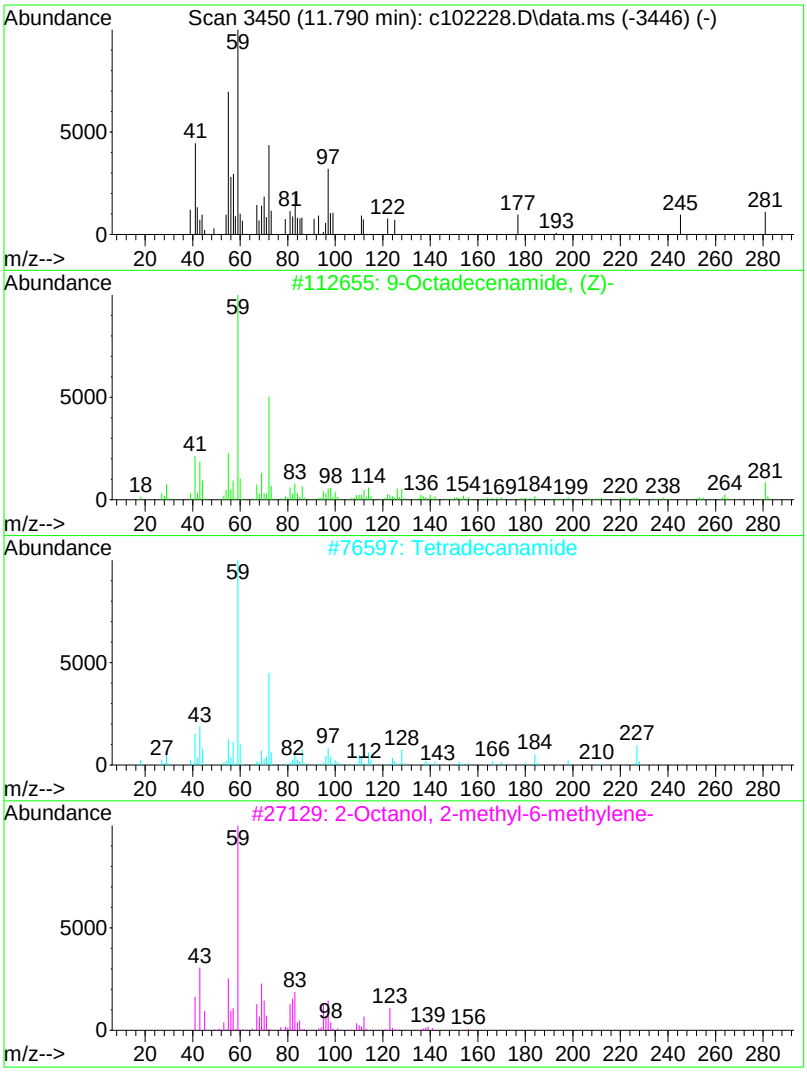
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

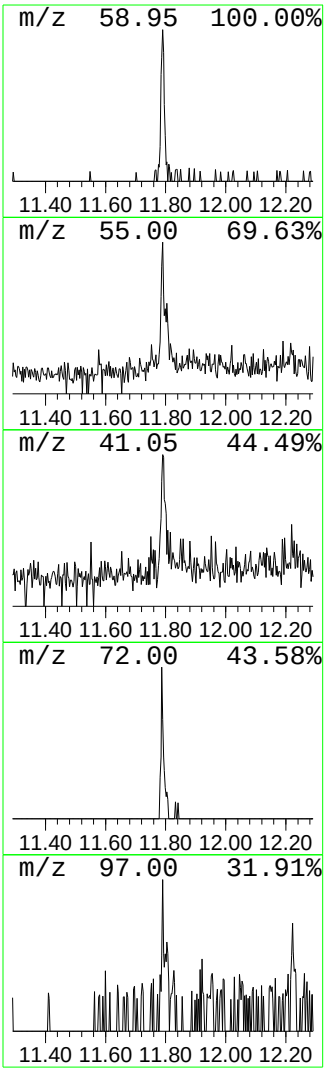
****

Peak Number 5 9-Octadecenamide, (Z)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	1.39 ug/ml	7221	Perylene-d12	12.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	52
2	Tetradecanamide	227	C14H29NO	000638-58-4	47
3	2-Octanol, 2-methyl-6-methylene-	156	C10H20O	018479-59-9	32
4	Silane, octyl-	144	C8H20Si	000871-92-1	27
5	3-Heptadecanol	256	C17H36O	084534-30-5	22





Tentatively Identified Compound (LSC) summary

Data Path : D:\Data\c102208\
Data File : c102228.D
Acq On : 23 Oct 2008 3:31 am
Operator : mills
Sample : ,samp,me0810733-02a,1,
Misc : 8270_w
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethanol, 2-(2-e...	3.91	9.8	ug/ml	56746	1	4.05	231734	40.0
Heptane, 4-ethyl-	4.63	1.2	ug/ml	7201	1	4.05	231734	40.0
Anthracene-D10-	8.87	0.8	ug/ml	5432	4	8.81	274200	40.0
1,2-Benzenedica...	9.07	0.7	ug/ml	4941	4	8.81	274200	40.0
9-Octadecenamid...	11.79	1.4	ug/ml	7221	6	12.23	208180	40.0

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102229.D Vial: 82
Acq On : 23 Oct 2008 3:50 am Operator: mills
Sample : ,samp,me0810733-03a,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:40:25 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	31262	40.00	ug/ml	0.00
19) Naphthalene-d8	5.30	136	130990	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.19	164	63020	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.81	188	81107	40.00	ug/ml	0.00
69) Chrysene-d12	11.18	240	64290	40.00	ug/ml	0.00
78) Perylene-d12	12.23	264	57232	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	55364	51.02	ug/ml	0.00
5) Phenol-d5	3.76	99	54063	37.91	ug/ml	0.00
20) Nitrobenzene-d5	4.57	82	87363	67.55	ug/ml	0.00
40) 2-Fluorobiphenyl	6.47	172	138792	67.53	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.06	330	24981	106.12	ug/ml	0.00
72) Terphenyl-d14	10.35	244	108166	85.29	ug/ml	0.00

Target Compounds Qvalue

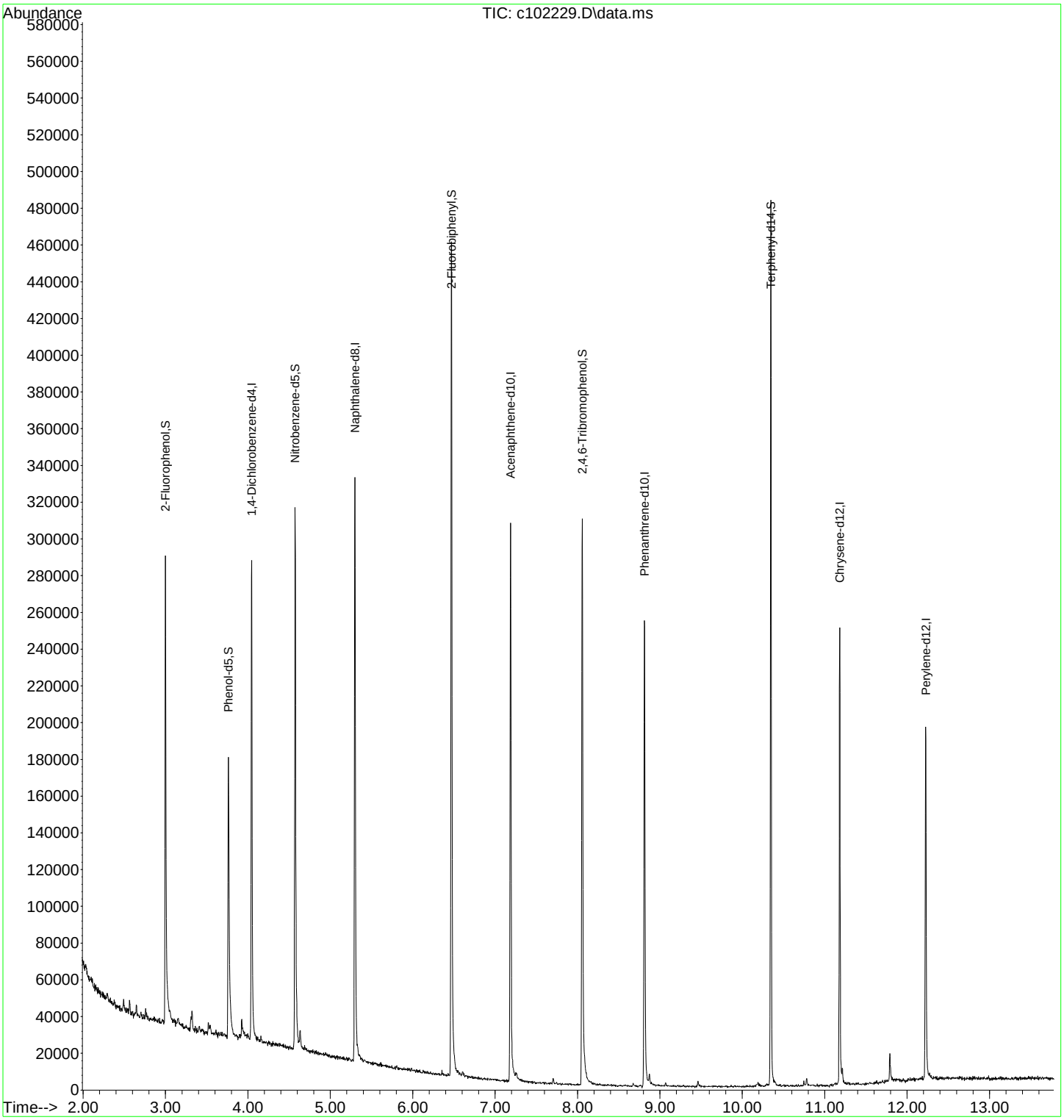
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102229.D
Acq On : 23 Oct 2008 3:50 am
Sample : ,samp,me0810733-03a,1,
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 23 14:40:25 2008
Quant Results File: SVOA0916.RES

Vial: 82
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



LSC Area Percent Report

Data Path : D:\Data\c102208\
Data File : c102229.D
Acq On : 23 Oct 2008 3:50 am
Operator : mills
Sample : ,samp,me0810733-03a,1,
Misc : 8270_w
ALS Vial : 82 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\SVOA0916.M
Title : BNA Quantitation

Signal : TIC: c102229.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.998	351	356	372	rBV	254351	217868	50.51%	6.900%
2	3.763	620	625	646	rBV	152673	169707	39.35%	5.374%
3	3.928	679	683	685	rBV3	9263	6904	1.60%	0.219%
4	4.047	719	725	737	rBV	257774	208736	48.39%	6.611%
5	4.573	904	910	924	rBV	293676	266646	61.82%	8.444%
6	5.300	1159	1166	1175	rBV	317979	286365	66.39%	9.069%
7	6.471	1570	1578	1595	rBV	454075	431323	100.00%	13.660%
8	7.187	1823	1830	1849	rBV	303731	289089	67.02%	9.155%
9	8.059	2129	2137	2153	rBV2	308172	314113	72.83%	9.948%
10	8.812	2392	2402	2416	rBV2	254388	234932	54.47%	7.440%
11	8.872	2419	2423	2429	rVB3	5496	5211	1.21%	0.165%
12	10.346	2934	2942	2955	rBV2	481766	351779	81.56%	11.141%
13	11.182	3228	3236	3245	rBV	247850	192666	44.67%	6.102%
14	11.213	3245	3247	3252	rVB4	7717	5264	1.22%	0.167%
15	11.790	3445	3450	3459	rBV4	14569	12420	2.88%	0.393%
16	12.225	3597	3603	3614	rBV	190771	164611	38.16%	5.213%

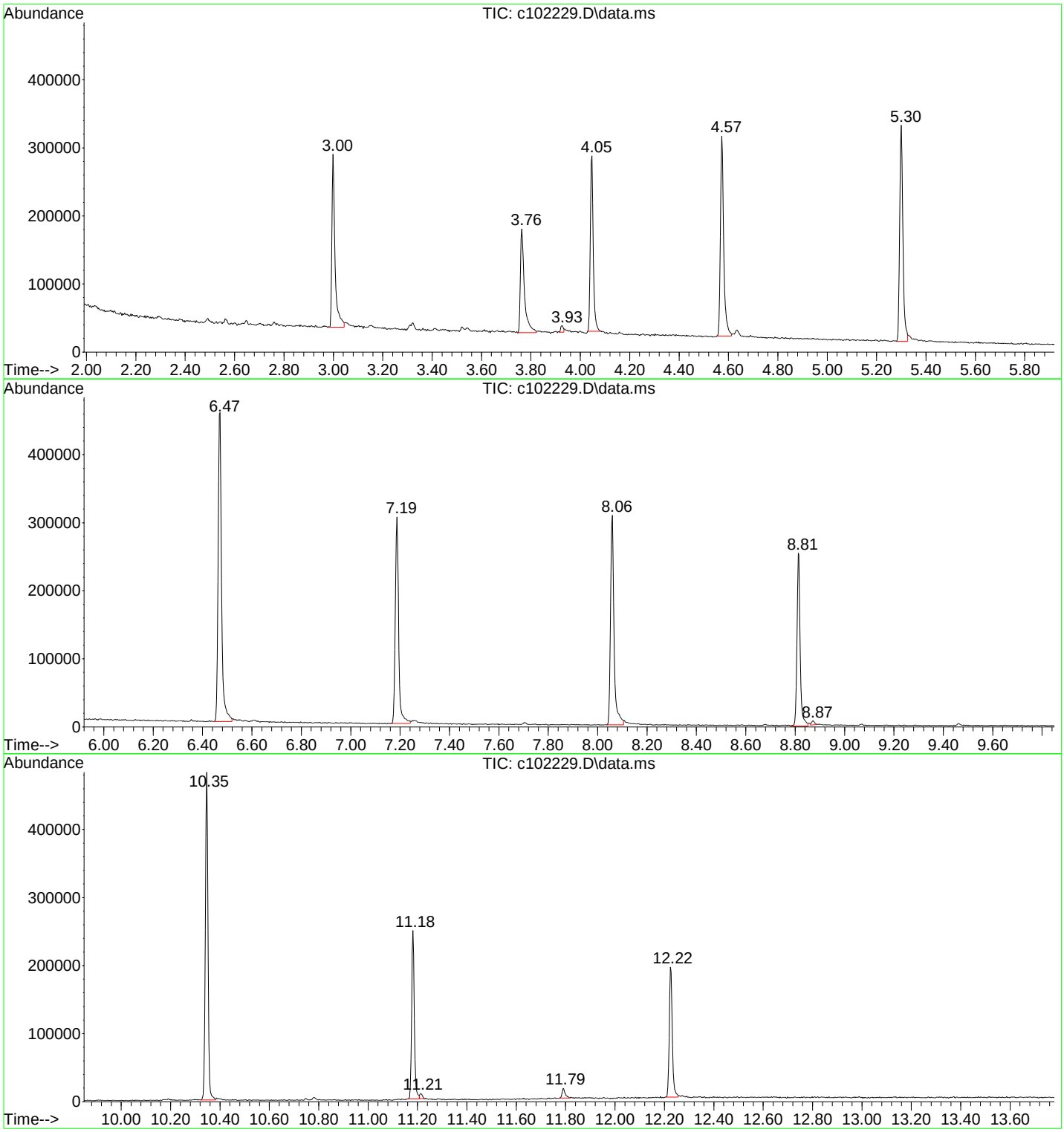
Sum of corrected areas: 3157634

LSC Report - Integrated Chromatogram

Data Path : D:\Data\c102208\
Data File : c102229.D
Acq On : 23 Oct 2008 3:50 am
Operator : mills
Sample : ,samp,me0810733-03a,1,
Misc : 8270_w
ALS Vial : 82 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : D:\Data\c102208\
Data File : c102229.D
Acq On : 23 Oct 2008 3:50 am
Operator : mills
Sample : ,samp,me0810733-03a,1,
Misc : 8270_w
ALS Vial : 82 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

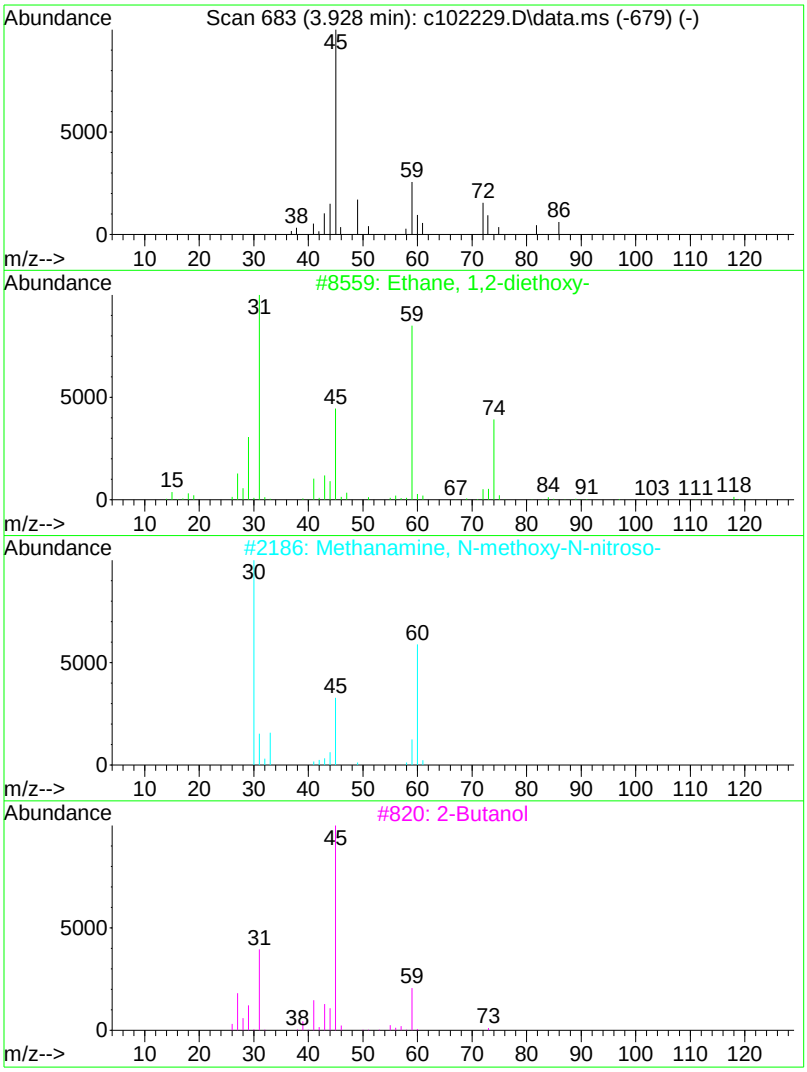
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

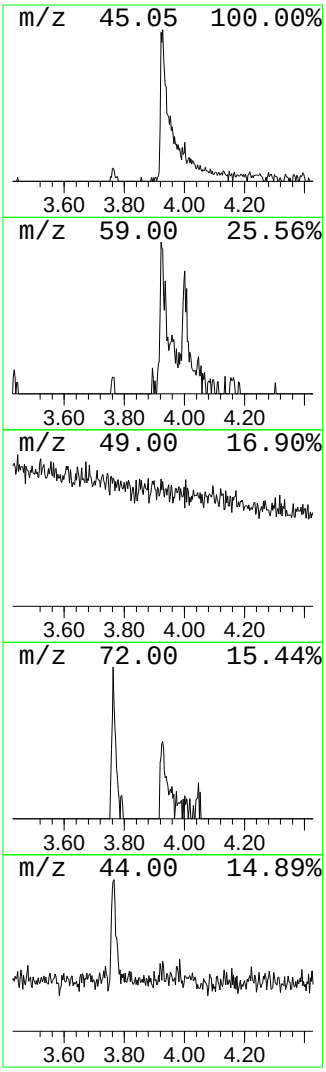
****

Peak Number 1 Ethane, 1,2-diethoxy- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.93	1.32 ug/ml	6904	1,4-Dichlorobenzene-d4	4.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,2-diethoxy-	118	C6H14O2	000629-14-1	38
2	Methanamine, N-methoxy-N-nitroso-	90	C2H6N2O2	016339-12-1	36
3	2-Butanol	74	C4H10O	000078-92-2	36
4	1,3-Dihydroxyacetone dimer	180	C6H12O6	062147-49-3	9
5	2-Butanol, 3-methyl-	88	C5H12O	000598-75-4	9





Data Path : D:\Data\c102208\
Data File : c102229.D
Acq On : 23 Oct 2008 3:50 am
Operator : mills
Sample : ,samp,me0810733-03a,1,
Misc : 8270_w
ALS Vial : 82 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

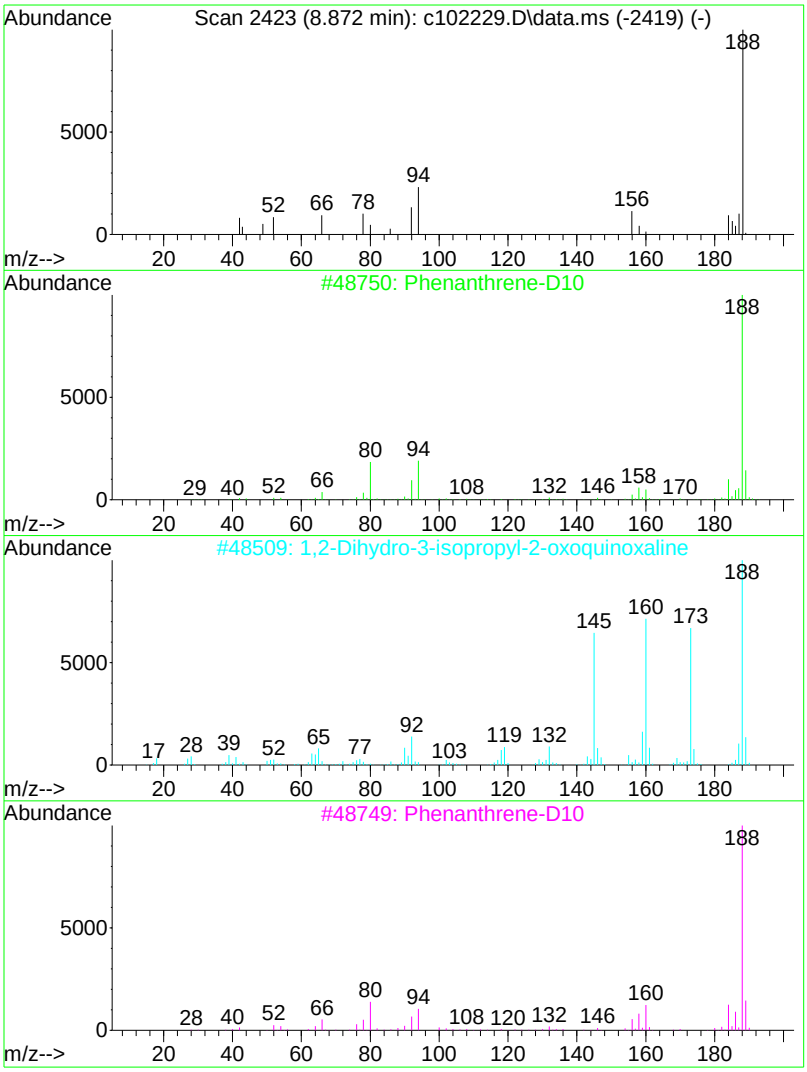
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

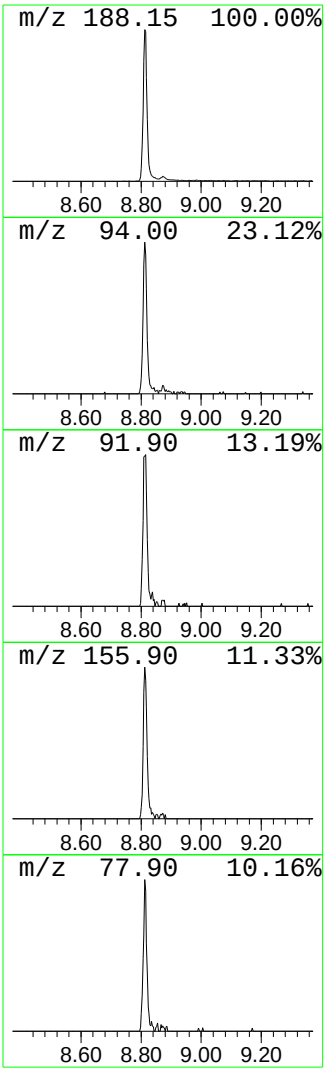
****

Peak Number 2 Phenanthrene-D10 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.87	0.89 ug/ml	5211	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene-D10	188	C14D10	001517-22-2	72
2	1,2-Dihydro-3-isopropyl-2-oxoqui...	188	C11H12N2O	015054-64-5	40
3	Phenanthrene-D10	188	C14D10	001517-22-2	38
4	Anthracene-D10-	188	C14D10	001719-06-8	9
5	6-Hydroxy-2-phenyl-3(2H)-pyridaz...	188	C10H8N2O2	001698-54-0	9





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Data Path : D:\Data\c102208\
Data File : c102229.D
Acq On    : 23 Oct 2008   3:50 am
Operator  : mills
Sample    : ,samp,me0810733-03a,1,
Misc      : 8270_w
ALS Vial  : 82   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

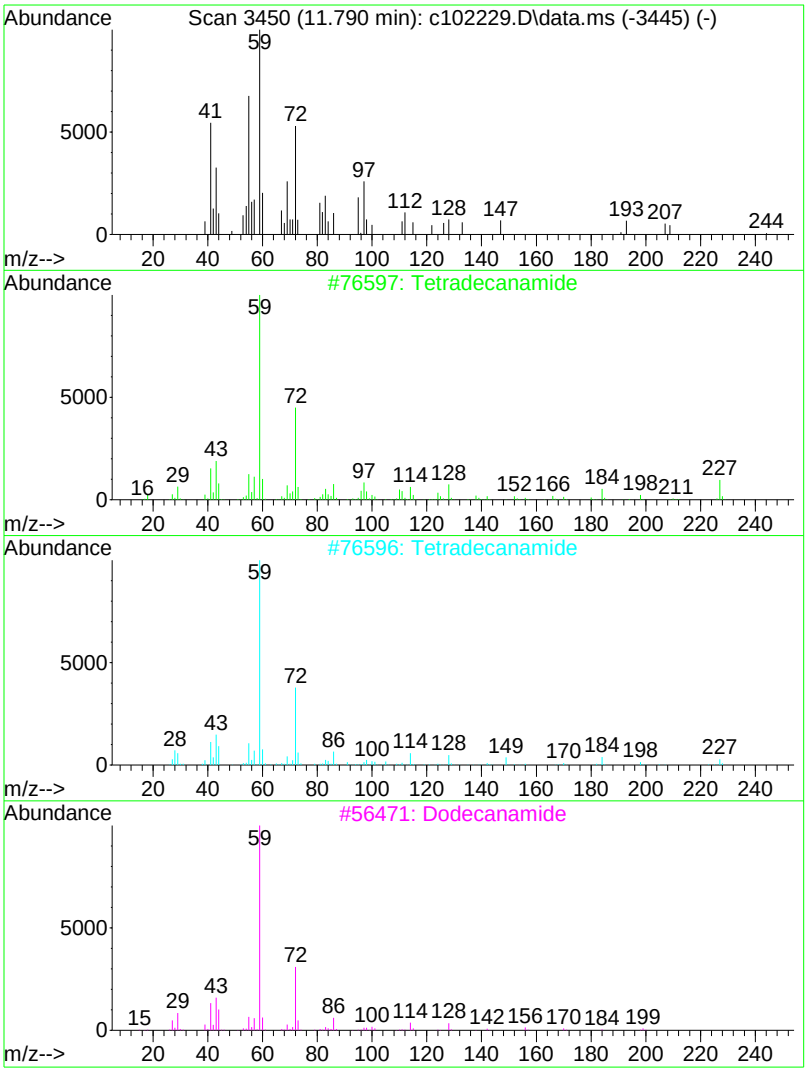
TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
```

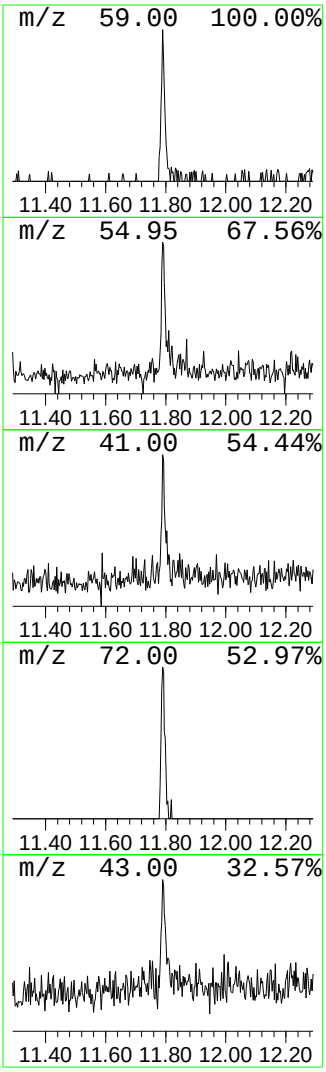
****

Peak Number 3 Tetradecanamide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	3.02 ug/ml	12420	Perylene-d12	12.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanamide	227	C14H29NO	000638-58-4	53
2	Tetradecanamide	227	C14H29NO	000638-58-4	50
3	Dodecanamide	199	C12H25NO	001120-16-7	50
4	Decanamide-	171	C10H21NO	002319-29-1	50
5	Tetradecanamide	227	C14H29NO	000638-58-4	50





Tentatively Identified Compound (LSC) summary

Data Path : D:\Data\c102208\
Data File : c102229.D
Acq On : 23 Oct 2008 3:50 am
Operator : mills
Sample : ,samp,me0810733-03a,1,
Misc : 8270_w
ALS Vial : 82 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,2-die...	3.93	1.3	ug/ml	6904	1	4.05	208736	40.0
Phenanthrene-D10	8.87	0.9	ug/ml	5211	4	8.81	234932	40.0
Tetradecanamide	11.79	3.0	ug/ml	12420	6	12.23	164611	40.0

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102230.D Vial: 83
Acq On : 23 Oct 2008 4:09 am Operator: mills
Sample : ,samp,me0810733-04a,1, Inst : SVOA3
Misc : 8270_w Multiplr: 1.00
Integrator: RTE
Quant Time: Oct 23 14:40:29 2008
Quant Results File: SVOA0916.RES

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.05	152	38932	40.00	ug/ml	0.00
19) Naphthalene-d8	5.30	136	161105	40.00	ug/ml	0.00
36) Acenaphthene-d10	7.19	164	78320	40.00	ug/ml	0.00
56) Phenanthrene-d10	8.81	188	107501	40.00	ug/ml	0.00
69) Chrysene-d12	11.18	240	87026	40.00	ug/ml	0.00
78) Perylene-d12	12.23	264	80353	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.00	112	78022	57.73	ug/ml	0.00
5) Phenol-d5	3.76	99	76168	42.89	ug/ml	0.00
20) Nitrobenzene-d5	4.57	82	120116	75.52	ug/ml	0.00
40) 2-Fluorobiphenyl	6.47	172	186519	73.02	ug/ml	0.00
60) 2,4,6-Tribromophenol	8.06	330	32818	105.18	ug/ml	0.00
72) Terphenyl-d14	10.35	244	142849	83.22	ug/ml	0.00

Target Compounds Qvalue

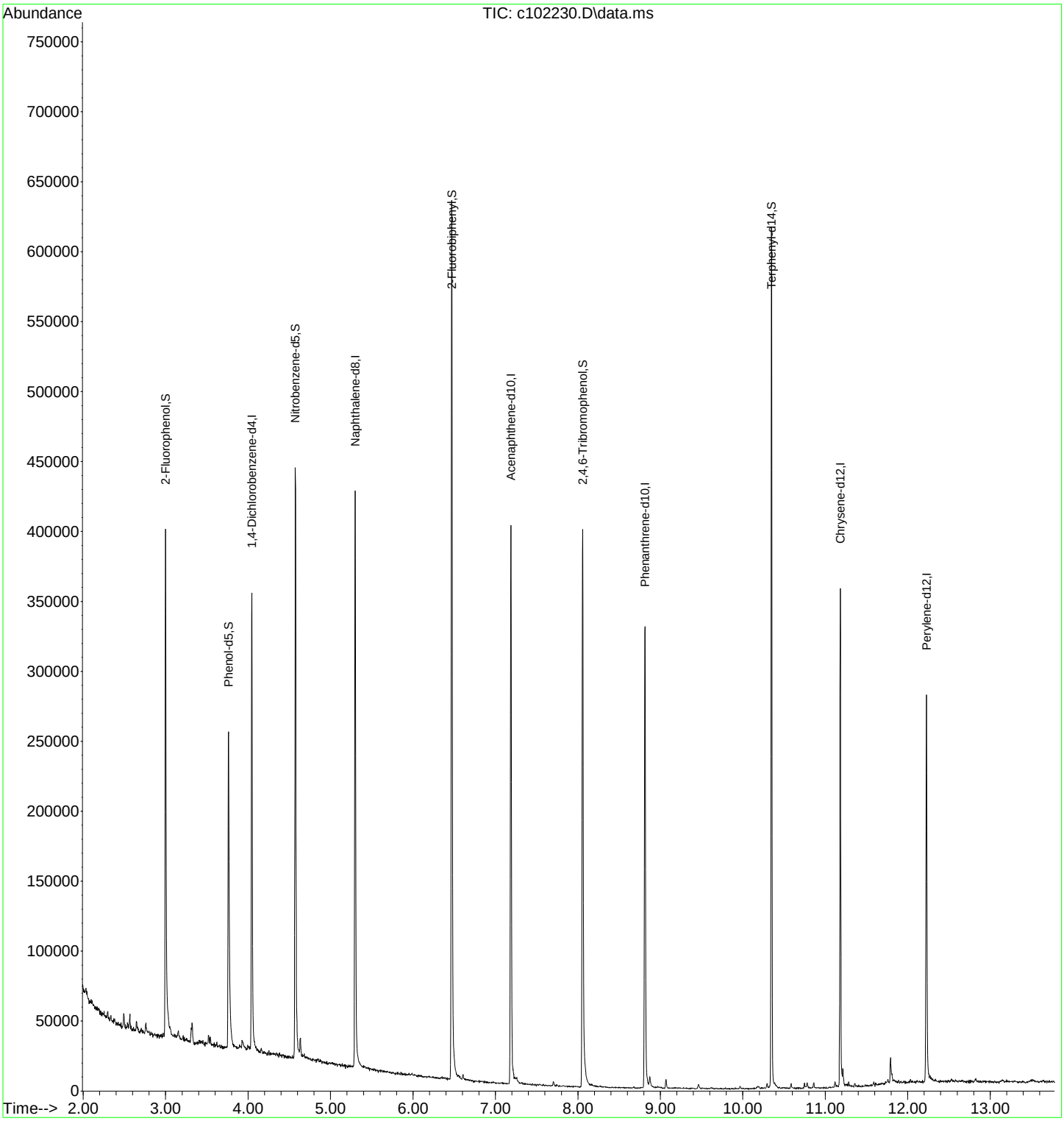
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\Data\c102208\c102230.D
Acq On : 23 Oct 2008 4:09 am
Sample : ,samp,me0810733-04a,1,
Misc : 8270_w
Integrator: RTE
Quant Time: Oct 23 14:40:29 2008
Quant Results File: SVOA0916.RES

Vial: 83
Operator: mills
Inst : SVOA3
Multiplr: 1.00

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation
QLast Update : Wed Oct 22 19:31:34 2008
Response via : Initial Calibration
DataAcq Meth:8270-AQ.M



LSC Area Percent Report

Data Path : D:\Data\c102208\
Data File : c102230.D
Acq On : 23 Oct 2008 4:09 am
Operator : mills
Sample : ,samp,me0810733-04a,1,
Misc : 8270_w
ALS Vial : 83 Sample Multiplier: 1

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\SVOA0916.M
Title : BNA Quantitation

Signal : TIC: c102230.D\data.ms

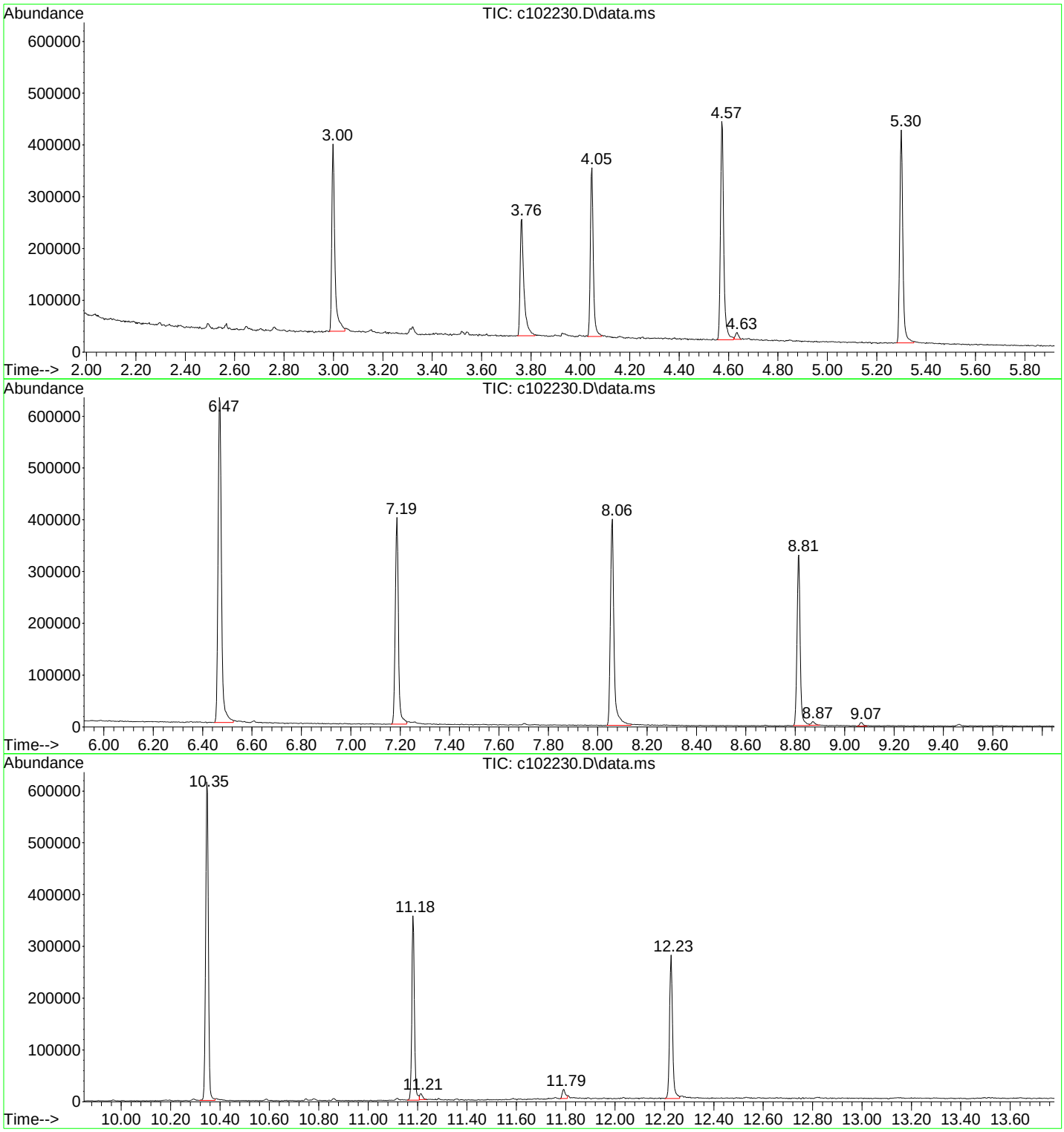
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.998	351	356	373	rBV	361802	306633	52.02%	7.240%
2	3.763	619	625	644	rBV	225590	237399	40.27%	5.605%
3	4.047	719	725	739	rBV	326138	266563	45.22%	6.294%
4	4.572	904	910	927	rBV	421865	378434	64.20%	8.935%
5	4.635	928	932	937	rVB5	13401	11181	1.90%	0.264%
6	5.300	1159	1166	1184	rBV	411326	356171	60.42%	8.410%
7	6.468	1570	1577	1597	rBV	628449	589495	100.00%	13.919%
8	7.187	1822	1830	1844	rBV	399283	358256	60.77%	8.459%
9	8.059	2129	2137	2164	rBV	398697	416346	70.63%	9.831%
10	8.815	2395	2403	2418	rBV2	329549	306963	52.07%	7.248%
11	8.872	2418	2423	2432	rVB3	6915	7439	1.26%	0.176%
12	9.068	2486	2492	2500	rBV2	6838	6663	1.13%	0.157%
13	10.346	2932	2942	2954	rBV	615515	462002	78.37%	10.909%
14	11.182	3228	3236	3245	rBV2	356388	267792	45.43%	6.323%
15	11.213	3245	3247	3254	rVB2	11631	8475	1.44%	0.200%
16	11.793	3446	3451	3456	rBV3	17763	16096	2.73%	0.380%
17	12.227	3595	3604	3616	rBV	277095	239335	40.60%	5.651%

Sum of corrected areas: 4235243

Data Path : D:\Data\c102208\
Data File : c102230.D
Acq On : 23 Oct 2008 4:09 am
Operator : mills
Sample : ,samp,me0810733-04a,1,
Misc : 8270_w
ALS Vial : 83 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P



Data Path : D:\Data\c102208\
Data File : c102230.D
Acq On : 23 Oct 2008 4:09 am
Operator : mills
Sample : ,samp,me0810733-04a,1,
Misc : 8270_w
ALS Vial : 83 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

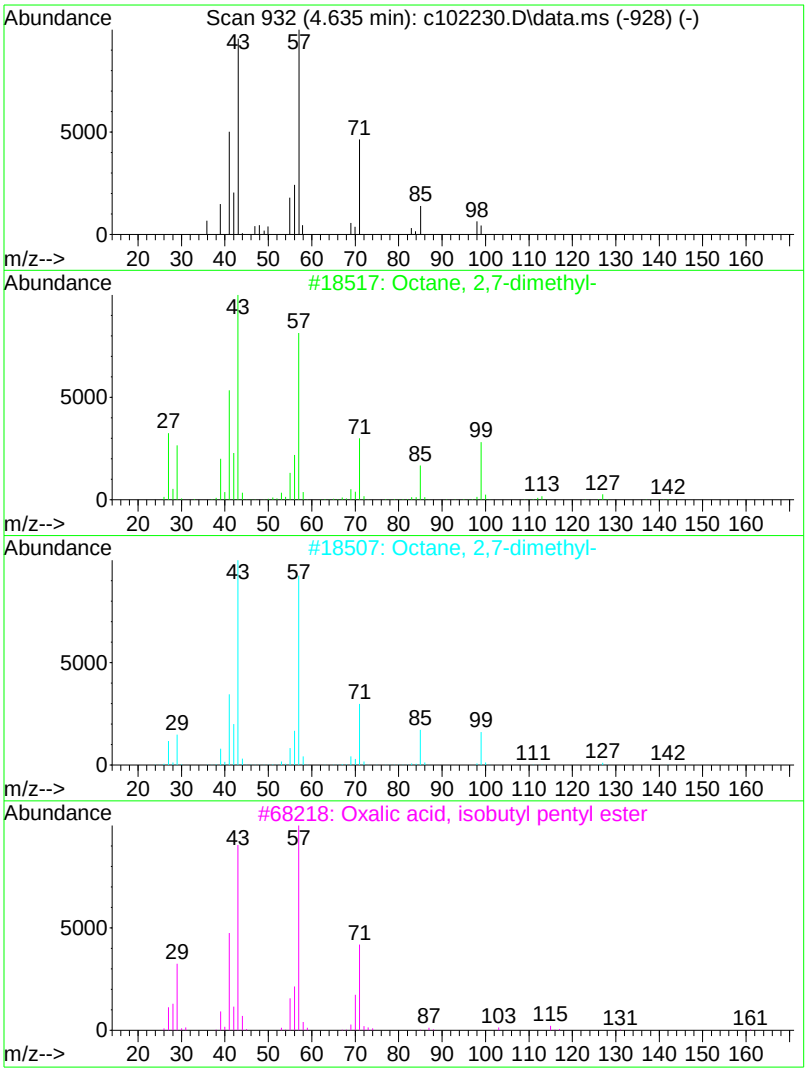
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

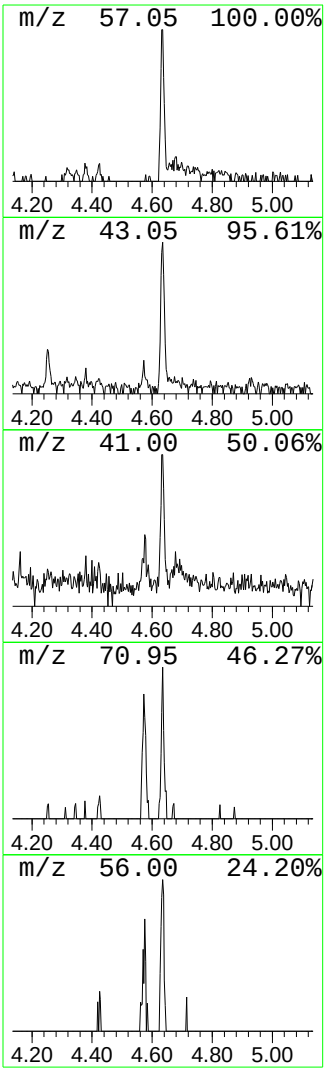
****

Peak Number 1 Octane, 2,7-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.63	1.68 ug/ml	11181	1,4-Dichlorobenzene-d4	4.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,7-dimethyl-	142	C10H22	001072-16-8	64
2	Octane, 2,7-dimethyl-	142	C10H22	001072-16-8	50
3	Oxalic acid, isobutyl pentyl ester	216	C11H20O4	1000309-37-0	50
4	Decane, 2,5,6-trimethyl-	184	C13H28	062108-23-0	38
5	Oxirane, pentyl-	114	C7H14O	005063-65-0	38





Data Path : D:\Data\c102208\
Data File : c102230.D
Acq On : 23 Oct 2008 4:09 am
Operator : mills
Sample : ,samp,me0810733-04a,1,
Misc : 8270_w
ALS Vial : 83 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

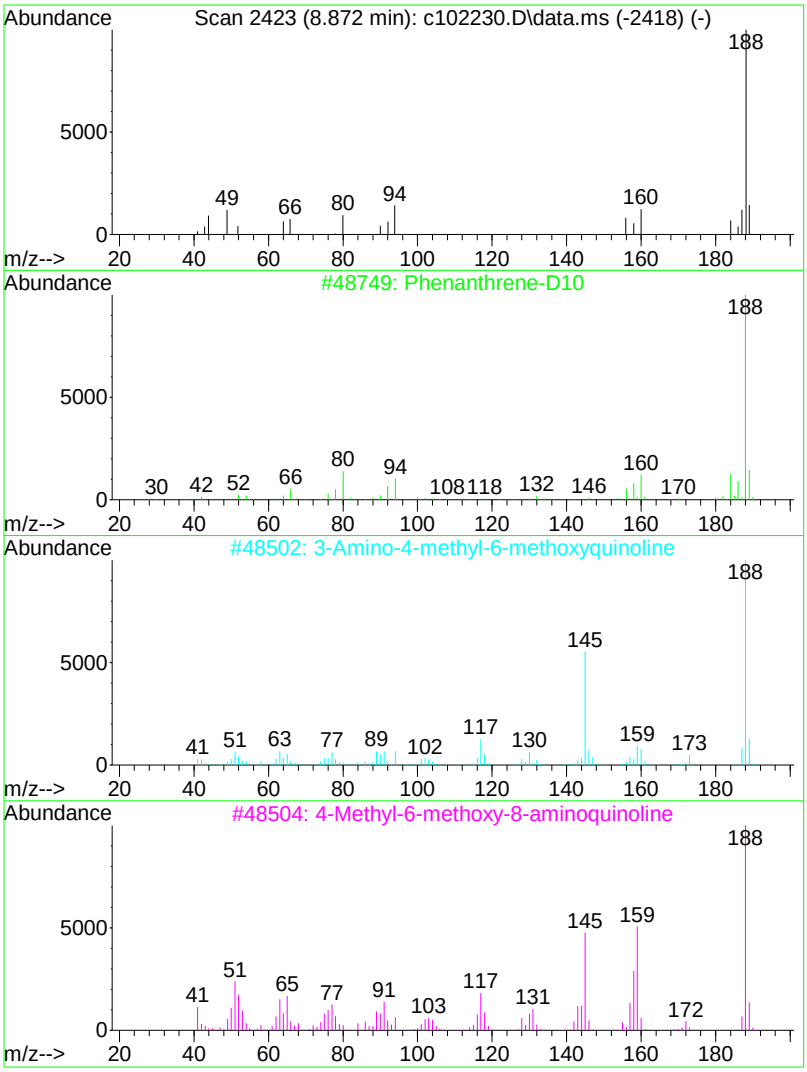
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

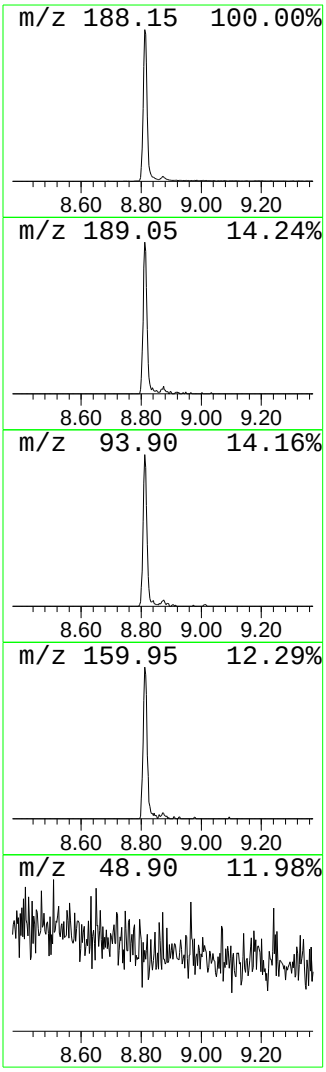
****

Peak Number 2 Phenanthrene-D10 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.87	0.97 ug/ml	7439	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene-D10	188	C14D10	001517-22-2	64
2	3-Amino-4-methyl-6-methoxyquinoline	188	C11H12N2O	070945-24-3	59
3	4-Methyl-6-methoxy-8-aminoquinoline	188	C11H12N2O	057514-21-3	59
4	Anthracene-D10-	188	C14D10	001719-06-8	50
5	3-Ethyl-1,2-dihydro-1-methyl-2-o...	188	C11H12N2O	013494-42-3	50





Library Search Compound Report

Data Path : D:\Data\c102208\
Data File : c102230.D
Acq On : 23 Oct 2008 4:09 am
Operator : mills
Sample : ,samp,me0810733-04a,1,
Misc : 8270_w
ALS Vial : 83 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

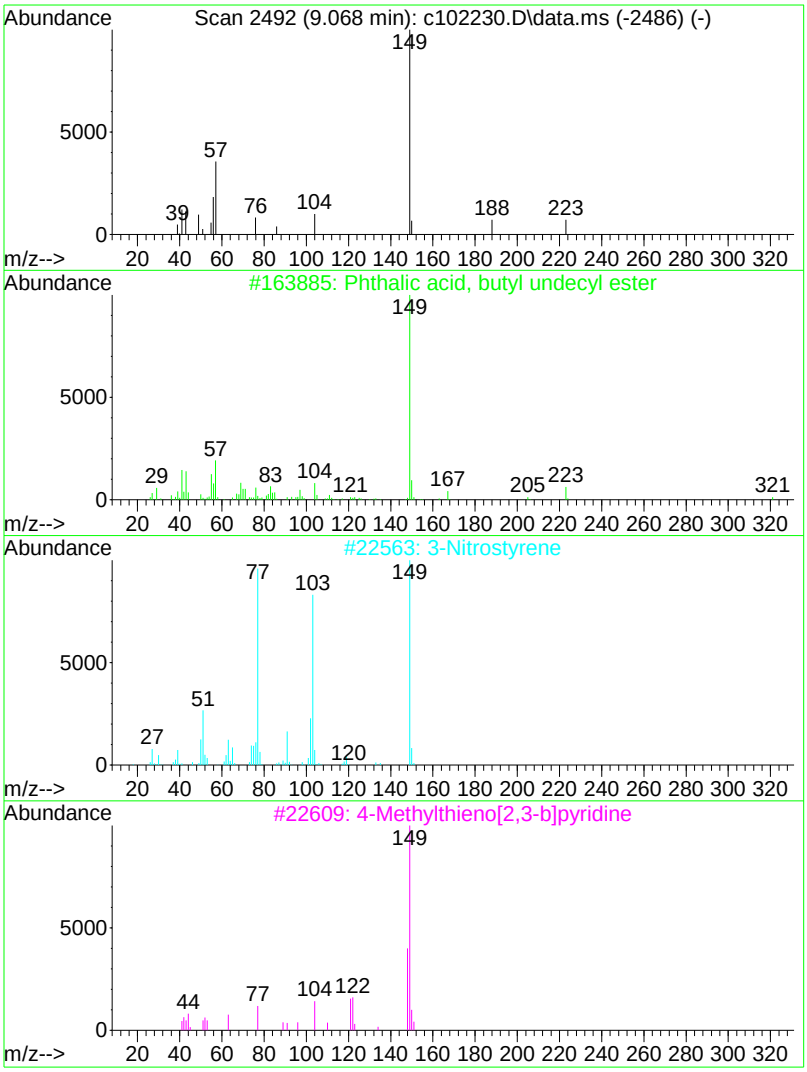
TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

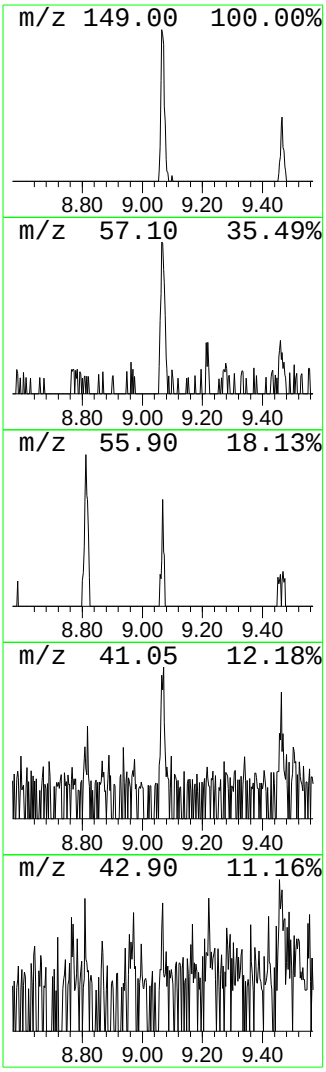
****

Peak Number 3 Phthalic acid, butyl undecy... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.07	0.87 ug/ml	6663	Phenanthrene-d10	8.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic acid, butyl undecyl ester	376	C23H36O4	1000308-91-2	38
2	3-Nitrostyrene	149	C8H7NO2	000586-39-0	9
3	4-Methylthieno[2,3-b]pyridine	149	C8H7NS	013362-81-7	9
4	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000085-69-8	9
5	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	9





```
Data Path : D:\Data\c102208\
Data File : c102230.D
Acq On    : 23 Oct 2008   4:09 am
Operator  : mills
Sample    : ,samp,me0810733-04a,1,
Misc      : 8270_w
ALS Vial  : 83   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title  : BNA Quantitation

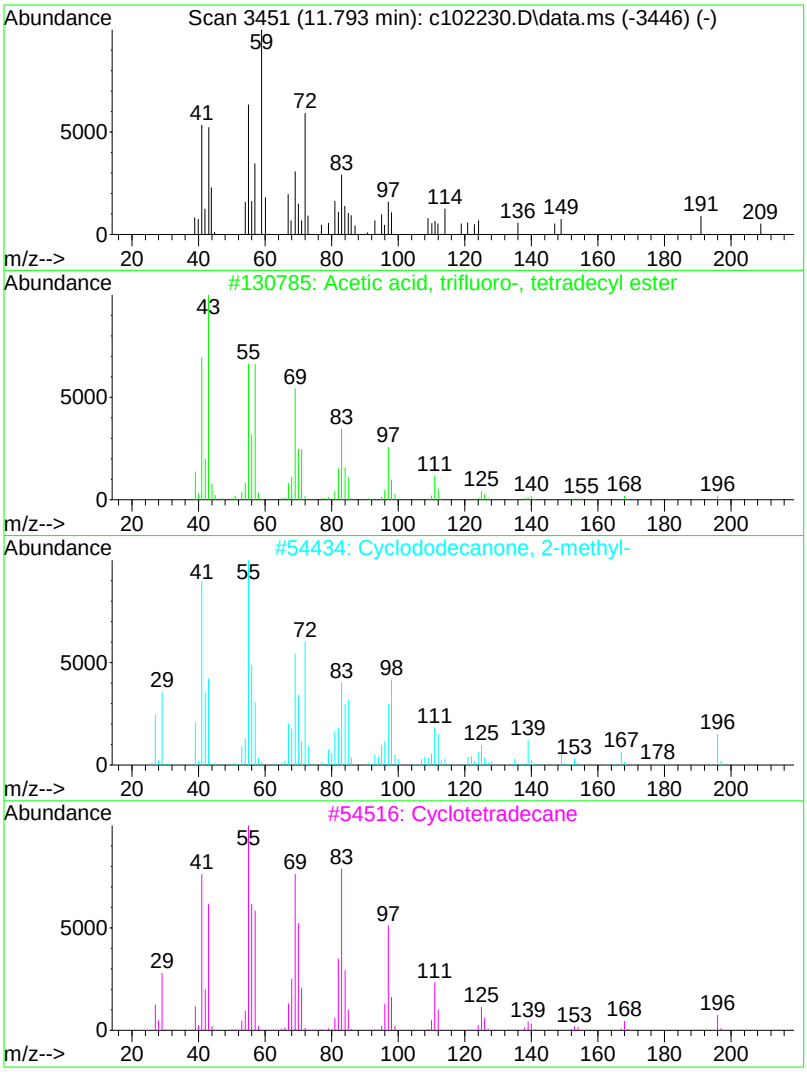
TIC Library    : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P
```

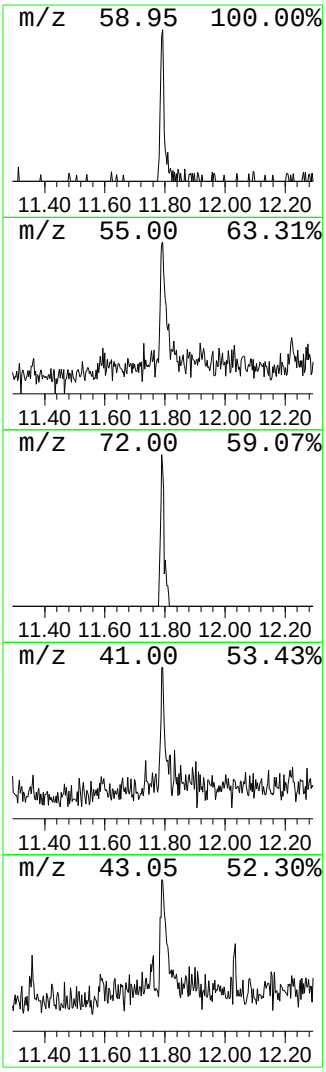
****

Peak Number 4 Acetic acid, trifluoro-, te... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	2.69 ug/ml	16096	Perylene-d12	12.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, trifluoro-, tetrade...	310	C16H29F3O2	006222-02-2	15
2	Cyclododecanone, 2-methyl-	196	C13H24O	016837-94-8	14
3	Cyclotetradecane	196	C14H28	000295-17-0	11
4	Trifluoroacetic acid,n-tridecyl ...	296	C15H27F3O2	053800-02-5	11
5	Dichloroacetic acid, tridecyl ester	310	C15H28Cl2O2	1000280-48-3	11





Tentatively Identified Compound (LSC) summary

Data Path : D:\Data\c102208\
Data File : c102230.D
Acq On : 23 Oct 2008 4:09 am
Operator : mills
Sample : ,samp,me0810733-04a,1,
Misc : 8270_w
ALS Vial : 83 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\SVOA0916.M
Quant Title : BNA Quantitation

TIC Library : C:\Database\NIST05a.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Octane, 2,7-dim...	4.63	1.7	ug/ml	11181	1	4.05	266563	40.0
Phenanthrene-D10	8.87	1.0	ug/ml	7439	4	8.81	306963	40.0
Phthalic acid, ...	9.07	0.9	ug/ml	6663	4	8.81	306963	40.0
Acetic acid, tr...	11.79	2.7	ug/ml	16096	6	12.23	239335	40.0

EXTRACTION LOG(S)

Microbac Laboratories, Inc.

PREP BATCH REPORT

Prep Batch **66524** Prep Code: **3510_B** Technician: **James Manley**

Prep Start Date: **10/21/2008 6:23:00 A**
Prep End Date: **10/21/2008 12:23:00 P**

Sample ID	Matrix	pH	wt (g)	Ini vol (mL)	Sol Added	Sol Recov	Fin Vol (mL)	factor	PrepStart	PrepEnd
BK-1-102108				1000	0	0	1	0.001	10/21/2008	10/21/2008
LCS-1A-102108				1000	0	0	1	0.001	10/21/2008	10/21/2008
LCS-1B-102108				1000	0	0	1	0.001	10/21/2008	10/21/2008
ME0810733-01A	Aqueous			1000	0	0	1	0.001	10/21/2008	10/21/2008
ME0810733-02A	Aqueous			1010	0	0	1	0.0009901	10/21/2008	10/21/2008
ME0810733-03A	Aqueous			940	0	0	1	0.0010638	10/21/2008	10/21/2008
ME0810733-04A	Aqueous			980	0	0	1	0.0010204	10/21/2008	10/21/2008
ME0810764-05B	Aqueous			610	0	0	1	0.0016393	10/21/2008	10/21/2008

Spk ID	Spike Name	SampType	AmtAdd
1MLSPAB94-04			0
1mlspab98-03			0
1MLSRAB96-18			0

Injection Log SVOA3

Data Directory: D:\Data\c102208\

SampleName	MiscInfo	Vial	Multiplier	Injection Time
1) c102201.D ,tune,dftpp tune,1,	dftpp	1	1.0	22 Oct 2008 7:06 pm
2) c102202.D ,ccv,svoa ccv 80ug/ml,1,ab86-04	8270_w	2	1.0	22 Oct 2008 7:16 pm
3) c102203.D rinse		100	1.0	22 Oct 2008 7:39 pm
4) c102204.D ,mblk,blk1017fl1,1,	1311_b	26	1.0	22 Oct 2008 7:54 pm
5) c102205.D ,mblk,blk1017fl2,1,	1311_b	27	1.0	22 Oct 2008 8:13 pm
6) c102206.D ,mblk,blk1020fl1,1,	1311_b	28	1.0	22 Oct 2008 8:33 pm
7) c102207.D ,mblk,blk1020fl2,1,	1311_b	29	1.0	22 Oct 2008 8:52 pm
8) c102208.D ,mblk,bk-2-102208,1,	8270_s_pah	30	1.0	22 Oct 2008 9:11 pm
9) c102209.D ,mblk,bk-8-102008,1,	8270_s_pah	31	1.0	22 Oct 2008 9:31 pm
10) c102210.D ,mblk,bk-1-102108,1,	8270_w	32	1.0	22 Oct 2008 9:50 pm
11) c102211.D ,lcs,lcs-1a-102108,1,	8270_w	33	1.0	22 Oct 2008 10:09 pm
12) c102212.D ,lcs,lcs-1b-102108,1,	8270_w	34	1.0	22 Oct 2008 10:28 pm
13) c102213.D ,lcs,lcs-8-102008,1,	8270_s_pah	35	1.0	22 Oct 2008 10:47 pm
14) c102214.D ,lcs,lcs-2-102208,1,	8270_s_pah	36	1.0	22 Oct 2008 11:07 pm
15) c102215.D ,lcs,lcs-1-102208,1,	1311_b	37	1.0	22 Oct 2008 11:26 pm
16) c102216.D ,lcs,lcs-3-102008,1,	1311_b	38	1.0	22 Oct 2008 11:45 pm
17) c102217.D ,samp,me0810702-01a,1,	1311_b+	39	1.0	23 Oct 2008 12:04 am
18) c102218.D ,samp,me0810703-01a,1,	1311_b+	40	1.0	23 Oct 2008 12:23 am
19) c102219.D ,ms,me0810703-01ams,1,	1311_b	41	1.0	23 Oct 2008 12:42 am
20) c102220.D ,msd,me0810703-01amsd,1,	1311_b	42	1.0	23 Oct 2008 1:01 am
21) c102221.D				

```
,samp,me0810753-01a,1,              1311_b                43    1.0     23 Oct 2008   1:19 am
  ---------------------------------------------------------------------------------------------
22) c102222.D
,samp,me0810706-04a,1,              8270_s                44    1.0     23 Oct 2008   1:38 am
  ---------------------------------------------------------------------------------------------
23) c102223.D
,samp,me0810706-05a,1,              8270_s                45    1.0     23 Oct 2008   1:57 am
  ---------------------------------------------------------------------------------------------
24) c102224.D
,ms,me0810706-05ams,1,              8270_s                46    1.0     23 Oct 2008   2:16 am
  ---------------------------------------------------------------------------------------------
25) c102225.D
,msd,me0810706-05amsd,1,            8270_s                47    1.0     23 Oct 2008   2:35 am
  ---------------------------------------------------------------------------------------------
26) c102226.D
,samp,me0810710-01a,1,              8270_s                48    1.0     23 Oct 2008   2:54 am
  ---------------------------------------------------------------------------------------------
27) c102227.D
,samp,me0810733-01a,1,              8270_w                49    1.0     23 Oct 2008   3:12 am
  ---------------------------------------------------------------------------------------------
28) c102228.D
,samp,me0810733-02a,1,              8270_w                50    1.0     23 Oct 2008   3:31 am
  ---------------------------------------------------------------------------------------------
29) c102229.D
,samp,me0810733-03a,1,              8270_w                82    1.0     23 Oct 2008   3:50 am
  ---------------------------------------------------------------------------------------------
30) c102230.D
,samp,me0810733-04a,1,              8270_w                83    1.0     23 Oct 2008   4:09 am
  ---------------------------------------------------------------------------------------------
31) c102231.D
,samp,me0810764-03b,200,naph        625+_w                84    1.0     23 Oct 2008   4:27 am
  ---------------------------------------------------------------------------------------------
32) c102232.D
,samp,me0810764-05b,200,pyridi      8270+_w               85    1.0     23 Oct 2008   4:46 am
  ---------------------------------------------------------------------------------------------
33) c102233.D
,samp,me0810876-01a,1,black         8270_s_pah            86    1.0     23 Oct 2008   5:05 am
  ---------------------------------------------------------------------------------------------
34) c102234.D
,samp,me0810876-02a,20,black        8270_s_pah            87    1.0     23 Oct 2008   5:24 am
  ---------------------------------------------------------------------------------------------
35) c102235.D
,samp,me0810879-01a,1,black         8270_s_pah            88    1.0     23 Oct 2008   5:42 am
  ---------------------------------------------------------------------------------------------
36) c102236.D
,samp,me0810879-02a,20,black        8270_s_pah            89    1.0     23 Oct 2008   6:01 am
  ---------------------------------------------------------------------------------------------
37) c102237.D
,samp,me0810706-03a,1,black         8270_s                90    1.0     23 Oct 2008   6:20 am
  ---------------------------------------------------------------------------------------------
38) c102238.D
,samp,me0810706-06a,1,black         8270_s                91    1.0     23 Oct 2008   6:38 am
  ---------------------------------------------------------------------------------------------
39) c102239.D
rinse                               8270_s               100    1.0     23 Oct 2008   6:55 am
  ---------------------------------------------------------------------------------------------
40) c102240.D
rinse                               8270_s               100    1.0     23 Oct 2008   7:06 am
  ---------------------------------------------------------------------------------------------
41) c102241.D
rinse                               8270_s               100    1.0     23 Oct 2008   7:17 am
  ---------------------------------------------------------------------------------------------
```

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-01
Collection Date: 10/17/08 08:50
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
4-Bromophenyl phenyl ether	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Bis(2-ethylhexyl)phthalate	A	ND	1.1	10		µg/L	1	10/23/08 03:12
Acenaphthene	A	ND	0.8	10		µg/L	1	10/23/08 03:12
Acenaphthylene	A	ND	0.7	10		µg/L	1	10/23/08 03:12
Anthracene	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Benzo[a]anthracene	A	ND	0.8	10		µg/L	1	10/23/08 03:12
Benzo[a]pyrene	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Benzo[b]fluoranthene	A	ND	1.6	10		µg/L	1	10/23/08 03:12
Benzo[g,h,i]perylene	A	ND	1	10		µg/L	1	10/23/08 03:12
Benzo[k]fluoranthene	A	ND	2.2	10		µg/L	1	10/23/08 03:12
Bis(2-chloroethoxy)methane	A	ND	1	10		µg/L	1	10/23/08 03:12
Bis(2-chloroethyl)ether	A	ND	0.9	10		µg/L	1	10/23/08 03:12
2,2´-oxybis(1-chloropropane)	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Butyl benzyl phthalate	A	ND	1	10		µg/L	1	10/23/08 03:12
Carbazole	A	ND	1.2	10		µg/L	1	10/23/08 03:12
4-Chloro-3-methylphenol	A	ND	1.2	20		µg/L	1	10/23/08 03:12
4-Chloroaniline	A	ND	1	20		µg/L	1	10/23/08 03:12
2-Chloronaphthalene	A	ND	0.9	10		µg/L	1	10/23/08 03:12
2-Chlorophenol	A	ND	0.7	10		µg/L	1	10/23/08 03:12
4-Chlorophenyl phenyl ether	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Chrysene	A	ND	1	10		µg/L	1	10/23/08 03:12
Dibenz[a,h]anthracene	A	ND	0.9	10	UJ	µg/L	1	10/23/08 03:12
Dibenzofuran	A	ND	0.8	10		µg/L	1	10/23/08 03:12
3,3´-Dichlorobenzidine	A	ND	0.7	50		µg/L	1	10/23/08 03:12
2,4-Dichlorophenol	A	ND	0.7	10		µg/L	1	10/23/08 03:12
Diethyl phthalate	A	ND	1.1	10		µg/L	1	10/23/08 03:12
Dimethyl phthalate	A	ND	0.9	10		µg/L	1	10/23/08 03:12
2,4-Dimethylphenol	A	ND	0.8	10		µg/L	1	10/23/08 03:12
Di-n-butyl phthalate	A	4.7	1.2	10	J	µg/L	1	10/23/08 03:12
Di-n-octyl phthalate	A	ND	1.1	10	UJ	µg/L	1	10/23/08 03:12
4,6-Dinitro-2-methylphenol	A	ND	1.1	50		µg/L	1	10/23/08 03:12
2,4-Dinitrophenol	A	ND	9.4	50		µg/L	1	10/23/08 03:12
2,4-Dinitrotoluene	A	ND	0.8	10		µg/L	1	10/23/08 03:12
2,6-Dinitrotoluene	A	ND	1.1	10		µg/L	1	10/23/08 03:12
Fluoranthene	A	ND	1	10		µg/L	1	10/23/08 03:12
Fluorene	A	ND	1	10		µg/L	1	10/23/08 03:12
Hexachlorobenzene	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Hexachlorobutadiene	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Hexachlorocyclopentadiene	A	ND	0.6	10	UJ	µg/L	1	10/23/08 03:12

250 West 84th Drive, Merrillville, IN 46410 TEL.800.536.8379 TEL.219.769.8378 FAX.219.769.1664

11/12/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWB-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-01
Collection Date: 10/17/08 08:50
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Hexachloroethane	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Indeno[1,2,3cd]pyrene	A	ND	1	10		µg/L	1	10/23/08 03:12
Isophorone	A	ND	1	10		µg/L	1	10/23/08 03:12
2-Methylnaphthalene	A	ND	0.9	10		µg/L	1	10/23/08 03:12
2-Methylphenol	A	ND	0.7	10		µg/L	1	10/23/08 03:12
3/4-Methylphenol	A	ND	0.8	10		µg/L	1	10/23/08 03:12
2-Nitroaniline	A	ND	1	50		µg/L	1	10/23/08 03:12
3-Nitroaniline	A	ND	1.3	50		µg/L	1	10/23/08 03:12
4-Nitroaniline	A	ND	1.7	50		µg/L	1	10/23/08 03:12
2-Nitrophenol	A	ND	1	10		µg/L	1	10/23/08 03:12
4-Nitrophenol	A	ND	4.3	50		µg/L	1	10/23/08 03:12
N-Nitrosodi-n-propylamine	A	ND	1	10		µg/L	1	10/23/08 03:12
N-Nitrosodiphenylamine	A	ND	0.7	10		µg/L	1	10/23/08 03:12
Naphthalene	A	ND	0.7	10		µg/L	1	10/23/08 03:12
Nitrobenzene	A	ND	1	10		µg/L	1	10/23/08 03:12
Pentachlorophenol	A	ND	1.3	50		µg/L	1	10/23/08 03:12
Phenanthrene	A	ND	0.8	10		µg/L	1	10/23/08 03:12
Phenol	A	ND	0.4	10		µg/L	1	10/23/08 03:12
Pyrene	A	ND	0.9	10		µg/L	1	10/23/08 03:12
2,4,5-Trichlorophenol	A	ND	1.5	10		µg/L	1	10/23/08 03:12
2,4,6-Trichlorophenol	A	ND	0.9	10		µg/L	1	10/23/08 03:12
Surr: Nitrobenzene-d5	S	66.4	0	10-121		%REC	1	10/23/08 03:12
Surr: 2-Fluorobiphenyl	S	61.6	0	10-109		%REC	1	10/23/08 03:12
Surr: Terphenyl-d14	S	68.0	0	10-130		%REC	1	10/23/08 03:12
Surr: Phenol-d5	S	24.3	0	10-100		%REC	1	10/23/08 03:12
Surr: 2-Fluorophenol	S	35.2	0	10-84.7		%REC	1	10/23/08 03:12
Surr: 2,4,6-Tribromophenol	S	52.8	0	10-120		%REC	1	10/23/08 03:12

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11/17/08

Form 1 TIC
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GW-PWB-32RE

Lab Name: Microbac Laboratories, Inc. Contract:

Lab Code: ME Case No: ACS - GW SemiAnnual SDG No.: ME08010733

Matrix: (soil/water) water Lab Sample ID: ME08010733-01A

Sample wt/vol: (g/mL) Lab File ID: D:\Datc102208\c102227.D

Level: LOW Date Received: 10/17/2008

% Moisture: not dec. Date Analyzed: 10/23/2008

GC Column: Dilution Factor: 1.00

Extract Volume: 1000 ul

Number TICs found: 6 CONCENTRATION UNITS: ug/L

CAS Number	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown Alcohol	3.92	3.5	
	Unknown	6.13	36.58	
	Unknown	9.5	4.21	
	Unknown Acid	9.54	7.69	
	Unknown Acid	9.66	10.12	
	Unknown	11.79	2.75	

FORM I TIC

11/12/08

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-02
Collection Date: 10/17/08 09:40
Date Received: 10/17/08 14:30

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
TOTAL METALS	Method: **SW6010B**				Prep Date/Time: **10/17/08 19:00**		Analyst: **AVC**	
Thallium	A	*5.9* UB	4.3	50	J	µg/L	1	10/21/08 17:31
SEMIVOLATILE ORGANICS	Method: **SW8270C**				Prep Date/Time: **10/21/08 06:23**		Analyst: **MLT**	
4-Bromophenyl phenyl ether	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
Bis(2-ethylhexyl)phthalate	A	*ND*	1.1	9.9		µg/L	1	10/23/08 03:31
Acenaphthene	A	*ND*	0.79	9.9		µg/L	1	10/23/08 03:31
Acenaphthylene	A	*ND*	0.69	9.9		µg/L	1	10/23/08 03:31
Anthracene	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
Benzo[a]anthracene	A	*ND*	0.79	9.9		µg/L	1	10/23/08 03:31
Benzo[a]pyrene	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
Benzo[b]fluoranthene	A	*ND*	1.6	9.9		µg/L	1	10/23/08 03:31
Benzo[g,h,i]perylene	A	*ND*	0.99	9.9		µg/L	1	10/23/08 03:31
Benzo[k]fluoranthene	A	*ND*	2.2	9.9		µg/L	1	10/23/08 03:31
Bis(2-chloroethoxy)methane	A	*ND*	0.99	9.9		µg/L	1	10/23/08 03:31
Bis(2-chloroethyl)ether	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
2,2´-oxybis(1-chloropropane)	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
Butyl benzyl phthalate	A	*ND*	0.99	9.9		µg/L	1	10/23/08 03:31
Carbazole	A	*ND*	1.2	9.9		µg/L	1	10/23/08 03:31
4-Chloro-3-methylphenol	A	*ND*	1.2	20		µg/L	1	10/23/08 03:31
4-Chloroaniline	A	*ND*	0.99	20		µg/L	1	10/23/08 03:31
2-Chloronaphthalene	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
2-Chlorophenol	A	*ND*	0.69	9.9		µg/L	1	10/23/08 03:31
4-Chlorophenyl phenyl ether	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
Chrysene	A	*ND*	0.99	9.9		µg/L	1	10/23/08 03:31
Dibenz[a,h]anthracene	A	*ND*	0.89	9.9	UJ	µg/L	1	10/23/08 03:31
Dibenzofuran	A	*ND*	0.79	9.9		µg/L	1	10/23/08 03:31
3,3´-Dichlorobenzidine	A	*ND*	0.69	50		µg/L	1	10/23/08 03:31
2,4-Dichlorophenol	A	*ND*	0.69	9.9		µg/L	1	10/23/08 03:31
Diethyl phthalate	A	*ND*	1.1	9.9		µg/L	1	10/23/08 03:31
Dimethyl phthalate	A	*ND*	0.89	9.9		µg/L	1	10/23/08 03:31
2,4-Dimethylphenol	A	*ND*	0.79	9.9		µg/L	1	10/23/08 03:31
Di-n-butyl phthalate	A	*ND*	1.2	9.9		µg/L	1	10/23/08 03:31
Di-n-octyl phthalate	A	*ND*	1.1	9.9	UJ	µg/L	1	10/23/08 03:31
4,6-Dinitro-2-methylphenol	A	*ND*	1.1	50		µg/L	1	10/23/08 03:31
2,4-Dinitrophenol	A	*ND*	9.3	50		µg/L	1	10/23/08 03:31
2,4-Dinitrotoluene	A	*ND*	0.79	9.9		µg/L	1	10/23/08 03:31
2,6-Dinitrotoluene	A	*ND*	1.1	9.9		µg/L	1	10/23/08 03:31
Fluoranthene	A	*ND*	0.99	9.9		µg/L	1	10/23/08 03:31

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWC-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-02
Collection Date: 10/17/08 09:40
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Fluorene	A	ND	0.99	9.9		µg/L	1	10/23/08 03:31
Hexachlorobenzene	A	ND	0.89	9.9		µg/L	1	10/23/08 03:31
Hexachlorobutadiene	A	ND	0.89	9.9		µg/L	1	10/23/08 03:31
Hexachlorocyclopentadiene	A	ND	0.59	9.9	UJ	µg/L	1	10/23/08 03:31
Hexachloroethane	A	ND	0.89	9.9		µg/L	1	10/23/08 03:31
Indeno[1,2,3cd]pyrene	A	ND	0.99	9.9		µg/L	1	10/23/08 03:31
Isophorone	A	ND	0.99	9.9		µg/L	1	10/23/08 03:31
2-Methylnaphthalene	A	ND	0.89	9.9		µg/L	1	10/23/08 03:31
2-Methylphenol	A	ND	0.69	9.9		µg/L	1	10/23/08 03:31
3/4-Methylphenol	A	ND	0.79	9.9		µg/L	1	10/23/08 03:31
2-Nitroaniline	A	ND	0.99	50		µg/L	1	10/23/08 03:31
3-Nitroaniline	A	ND	1.3	50		µg/L	1	10/23/08 03:31
4-Nitroaniline	A	ND	1.7	50		µg/L	1	10/23/08 03:31
2-Nitrophenol	A	ND	0.99	9.9		µg/L	1	10/23/08 03:31
4-Nitrophenol	A	ND	4.3	50		µg/L	1	10/23/08 03:31
N-Nitrosodi-n-propylamine	A	ND	0.99	9.9		µg/L	1	10/23/08 03:31
N-Nitrosodiphenylamine	A	ND	0.69	9.9		µg/L	1	10/23/08 03:31
Naphthalene	A	ND	0.69	9.9		µg/L	1	10/23/08 03:31
Nitrobenzene	A	ND	0.99	9.9		µg/L	1	10/23/08 03:31
Pentachlorophenol	A	ND	1.3	50		µg/L	1	10/23/08 03:31
Phenanthrene	A	ND	0.79	9.9		µg/L	1	10/23/08 03:31
Phenol	A	ND	0.4	9.9		µg/L	1	10/23/08 03:31
Pyrene	A	ND	0.89	9.9		µg/L	1	10/23/08 03:31
2,4,5-Trichlorophenol	A	ND	1.5	9.9		µg/L	1	10/23/08 03:31
2,4,6-Trichlorophenol	A	ND	0.89	9.9		µg/L	1	10/23/08 03:31
Surr: Nitrobenzene-d5	S	63.9	0	10-121		%REC	1	10/23/08 03:31
Surr: 2-Fluorobiphenyl	S	58.5	0	10-109		%REC	1	10/23/08 03:31
Surr: Terphenyl-d14	S	66.0	0	10-130		%REC	1	10/23/08 03:31
Surr: Phenol-d5	S	22.8	0	10-100		%REC	1	10/23/08 03:31
Surr: 2-Fluorophenol	S	32.5	0	10-84.7		%REC	1	10/23/08 03:31
Surr: 2,4,6-Tribromophenol	S	57.4	0	10-120		%REC	1	10/23/08 03:31

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-03
Collection Date: 10/17/08 10:35
Date Received: 10/17/08 14:30

TOTAL METALS Method: **SW6010B** Prep Date/Time: **10/17/08 19:00** Analyst: **AVC**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Thallium	A	ND	4.3	50		µg/L	1	10/21/08 17:36

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
4-Bromophenyl phenyl ether	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Bis(2-ethylhexyl)phthalate	A	ND	1.2	11	UJ	µg/L	1	10/23/08 03:50
Acenaphthene	A	ND	0.85	11		µg/L	1	10/23/08 03:50
Acenaphthylene	A	ND	0.74	11		µg/L	1	10/23/08 03:50
Anthracene	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Benzo[a]anthracene	A	ND	0.85	11	UJ	µg/L	1	10/23/08 03:50
Benzo[a]pyrene	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Benzo[b]fluoranthene	A	ND	1.7	11		µg/L	1	10/23/08 03:50
Benzo[g,h,i]perylene	A	ND	1.1	11		µg/L	1	10/23/08 03:50
Benzo[k]fluoranthene	A	ND	2.3	11		µg/L	1	10/23/08 03:50
Bis(2-chloroethoxy)methane	A	ND	1.1	11		µg/L	1	10/23/08 03:50
Bis(2-chloroethyl)ether	A	ND	0.96	11		µg/L	1	10/23/08 03:50
2,2´-oxybis(1-chloropropane)	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Butyl benzyl phthalate	A	ND	1.1	11	UJ	µg/L	1	10/23/08 03:50
Carbazole	A	ND	1.3	11		µg/L	1	10/23/08 03:50
4-Chloro-3-methylphenol	A	ND	1.3	21		µg/L	1	10/23/08 03:50
4-Chloroaniline	A	ND	1.1	21		µg/L	1	10/23/08 03:50
2-Chloronaphthalene	A	ND	0.96	11		µg/L	1	10/23/08 03:50
2-Chlorophenol	A	ND	0.74	11		µg/L	1	10/23/08 03:50
4-Chlorophenyl phenyl ether	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Chrysene	A	ND	1.1	11	UJ	µg/L	1	10/23/08 03:50
Dibenz[a,h]anthracene	A	ND	0.96	11	UJ	µg/L	1	10/23/08 03:50
Dibenzofuran	A	ND	0.85	11		µg/L	1	10/23/08 03:50
3,3´-Dichlorobenzidine	A	ND	0.74	53	UJ	µg/L	1	10/23/08 03:50
2,4-Dichlorophenol	A	ND	0.74	11		µg/L	1	10/23/08 03:50
Diethyl phthalate	A	ND	1.2	11		µg/L	1	10/23/08 03:50
Dimethyl phthalate	A	ND	0.96	11		µg/L	1	10/23/08 03:50
2,4-Dimethylphenol	A	ND	0.85	11		µg/L	1	10/23/08 03:50
Di-n-butyl phthalate	A	ND	1.3	11		µg/L	1	10/23/08 03:50
Di-n-octyl phthalate	A	ND	1.2	11	UJ	µg/L	1	10/23/08 03:50
4,6-Dinitro-2-methylphenol	A	ND	1.2	53		µg/L	1	10/23/08 03:50
2,4-Dinitrophenol	A	ND	10	53		µg/L	1	10/23/08 03:50
2,4-Dinitrotoluene	A	ND	0.85	11		µg/L	1	10/23/08 03:50
2,6-Dinitrotoluene	A	ND	1.2	11		µg/L	1	10/23/08 03:50
Fluoranthene	A	ND	1.1	11		µg/L	1	10/23/08 03:50

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-PWD-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-03
Collection Date: 10/17/08 10:35
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Fluorene	A	ND	1.1	11		µg/L	1	10/23/08 03:50
Hexachlorobenzene	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Hexachlorobutadiene	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Hexachlorocyclopentadiene	A	ND	0.64	11	UJ	µg/L	1	10/23/08 03:50
Hexachloroethane	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Indeno[1,2,3cd]pyrene	A	ND	1.1	11	UJ	µg/L	1	10/23/08 03:50
Isophorone	A	ND	1.1	11		µg/L	1	10/23/08 03:50
2-Methylnaphthalene	A	ND	0.96	11		µg/L	1	10/23/08 03:50
2-Methylphenol	A	ND	0.74	11		µg/L	1	10/23/08 03:50
3/4-Methylphenol	A	ND	0.85	11		µg/L	1	10/23/08 03:50
2-Nitroaniline	A	ND	1.1	53		µg/L	1	10/23/08 03:50
3-Nitroaniline	A	ND	1.4	53		µg/L	1	10/23/08 03:50
4-Nitroaniline	A	ND	1.8	53		µg/L	1	10/23/08 03:50
2-Nitrophenol	A	ND	1.1	11		µg/L	1	10/23/08 03:50
4-Nitrophenol	A	ND	4.6	53		µg/L	1	10/23/08 03:50
N-Nitrosodi-n-propylamine	A	ND	1.1	11		µg/L	1	10/23/08 03:50
N-Nitrosodiphenylamine	A	ND	0.74	11		µg/L	1	10/23/08 03:50
Naphthalene	A	ND	0.74	11		µg/L	1	10/23/08 03:50
Nitrobenzene	A	ND	1.1	11		µg/L	1	10/23/08 03:50
Pentachlorophenol	A	ND	1.4	53		µg/L	1	10/23/08 03:50
Phenanthrene	A	ND	0.85	11		µg/L	1	10/23/08 03:50
Phenol	A	ND	0.43	11		µg/L	1	10/23/08 03:50
Pyrene	A	ND	0.96	11	UJ	µg/L	1	10/23/08 03:50
2,4,5-Trichlorophenol	A	ND	1.6	11		µg/L	1	10/23/08 03:50
2,4,6-Trichlorophenol	A	ND	0.96	11		µg/L	1	10/23/08 03:50
Surr: Nitrobenzene-d5	S	67.6	0	10-121		%REC	1	10/23/08 03:50
Surr: 2-Fluorobiphenyl	S	67.5	0	10-109		%REC	1	10/23/08 03:50
Surr: Terphenyl-d14	S	85.3	0	10-130		%REC	1	10/23/08 03:50
Surr: Phenol-d5	S	25.3	0	10-100		%REC	1	10/23/08 03:50
Surr: 2-Fluorophenol	S	34.0	0	10-84.7		%REC	1	10/23/08 03:50
Surr: 2,4,6-Tribromophenol	S	70.7	0	10-120		%REC	1	10/23/08 03:50

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ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-04
Collection Date: 10/17/08 12:00
Date Received: 10/17/08 14:30

TOTAL METALS Method: **SW6010B** Prep Date/Time: **10/17/08 19:00** Analyst: **AVC**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Thallium	A	ND	4.3	50		µg/L	1	10/21/08 17:42

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
4-Bromophenyl phenyl ether	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Bis(2-ethylhexyl)phthalate	A	ND	1.1	10		µg/L	1	10/23/08 04:09
Acenaphthene	A	ND	0.82	10		µg/L	1	10/23/08 04:09
Acenaphthylene	A	ND	0.71	10		µg/L	1	10/23/08 04:09
Anthracene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Benzo[a]anthracene	A	ND	0.82	10		µg/L	1	10/23/08 04:09
Benzo[a]pyrene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Benzo[b]fluoranthene	A	ND	1.6	10		µg/L	1	10/23/08 04:09
Benzo[g,h,i]perylene	A	ND	1	10		µg/L	1	10/23/08 04:09
Benzo[k]fluoranthene	A	ND	2.2	10		µg/L	1	10/23/08 04:09
Bis(2-chloroethoxy)methane	A	ND	1	10		µg/L	1	10/23/08 04:09
Bis(2-chloroethyl)ether	A	ND	0.92	10		µg/L	1	10/23/08 04:09
2,2´-oxybis(1-chloropropane)	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Butyl benzyl phthalate	A	ND	1	10		µg/L	1	10/23/08 04:09
Carbazole	A	ND	1.2	10		µg/L	1	10/23/08 04:09
4-Chloro-3-methylphenol	A	ND	1.2	20		µg/L	1	10/23/08 04:09
4-Chloroaniline	A	ND	1	20		µg/L	1	10/23/08 04:09
2-Chloronaphthalene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
2-Chlorophenol	A	ND	0.71	10		µg/L	1	10/23/08 04:09
4-Chlorophenyl phenyl ether	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Chrysene	A	ND	1	10		µg/L	1	10/23/08 04:09
Dibenz[a,h]anthracene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Dibenzofuran	A	ND	0.82	10		µg/L	1	10/23/08 04:09
3,3´-Dichlorobenzidine	A	ND	0.71	51		µg/L	1	10/23/08 04:09
2,4-Dichlorophenol	A	ND	0.71	10		µg/L	1	10/23/08 04:09
Diethyl phthalate	A	ND	1.1	10		µg/L	1	10/23/08 04:09
Dimethyl phthalate	A	ND	0.92	10		µg/L	1	10/23/08 04:09
2,4-Dimethylphenol	A	ND	0.82	10		µg/L	1	10/23/08 04:09
Di-n-butyl phthalate	A	ND	1.2	10		µg/L	1	10/23/08 04:09
Di-n-octyl phthalate	A	ND	1.1	10		µg/L	1	10/23/08 04:09
4,6-Dinitro-2-methylphenol	A	ND	1.1	51		µg/L	1	10/23/08 04:09
2,4-Dinitrophenol	A	ND	9.6	51		µg/L	1	10/23/08 04:09
2,4-Dinitrotoluene	A	ND	0.82	10		µg/L	1	10/23/08 04:09
2,6-Dinitrotoluene	A	ND	1.1	10		µg/L	1	10/23/08 04:09
Fluoranthene	A	ND	1	10		µg/L	1	10/23/08 04:09

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11/12/08

Microbac®

ANALYTICAL RESULTS

Date: *Monday, October 27, 2008*

Client: MWH, Inc.
Client Project: GW - SemiAnnual / ACS
Client Sample ID: ACS-GW-RESDUP01-32RE
Sample Description:
Sample Matrix: Aqueous

Work Order / ID: ME0810733-04
Collection Date: 10/17/08 12:00
Date Received: 10/17/08 14:30

SEMIVOLATILE ORGANICS Method: **SW8270C** Prep Date/Time: **10/21/08 06:23** Analyst: **MLT**

Analyses	ST	Result	MDL	RL	Qual	Units	DF	Analyzed
Fluorene	A	ND	1	10		µg/L	1	10/23/08 04:09
Hexachlorobenzene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Hexachlorobutadiene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Hexachlorocyclopentadiene	A	ND	0.61	10		µg/L	1	10/23/08 04:09
Hexachloroethane	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Indeno[1,2,3cd]pyrene	A	ND	1	10		µg/L	1	10/23/08 04:09
Isophorone	A	ND	1	10		µg/L	1	10/23/08 04:09
2-Methylnaphthalene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
2-Methylphenol	A	ND	0.71	10		µg/L	1	10/23/08 04:09
3/4-Methylphenol	A	ND	0.82	10		µg/L	1	10/23/08 04:09
2-Nitroaniline	A	ND	1	51		µg/L	1	10/23/08 04:09
3-Nitroaniline	A	ND	1.3	51		µg/L	1	10/23/08 04:09
4-Nitroaniline	A	ND	1.7	51		µg/L	1	10/23/08 04:09
2-Nitrophenol	A	ND	1	10		µg/L	1	10/23/08 04:09
4-Nitrophenol	A	ND	4.4	51		µg/L	1	10/23/08 04:09
N-Nitrosodi-n-propylamine	A	ND	1	10		µg/L	1	10/23/08 04:09
N-Nitrosodiphenylamine	A	ND	0.71	10		µg/L	1	10/23/08 04:09
Naphthalene	A	ND	0.71	10		µg/L	1	10/23/08 04:09
Nitrobenzene	A	ND	1	10		µg/L	1	10/23/08 04:09
Pentachlorophenol	A	ND	1.3	51		µg/L	1	10/23/08 04:09
Phenanthrene	A	ND	0.82	10		µg/L	1	10/23/08 04:09
Phenol	A	ND	0.41	10		µg/L	1	10/23/08 04:09
Pyrene	A	ND	0.92	10		µg/L	1	10/23/08 04:09
2,4,5-Trichlorophenol	A	ND	1.5	10		µg/L	1	10/23/08 04:09
2,4,6-Trichlorophenol	A	ND	0.92	10		µg/L	1	10/23/08 04:09
Surr: Nitrobenzene-d5	S	75.5	0	10-121		%REC	1	10/23/08 04:09
Surr: 2-Fluorobiphenyl	S	73.0	0	10-109		%REC	1	10/23/08 04:09
Surr: Terphenyl-d14	S	83.2	0	10-130		%REC	1	10/23/08 04:09
Surr: Phenol-d5	S	28.6	0	10-100		%REC	1	10/23/08 04:09
Surr: 2-Fluorophenol	S	38.5	0	10-84.7		%REC	1	10/23/08 04:09
Surr: 2,4,6-Tribromophenol	S	70.1	0	10-120		%REC	1	10/23/08 04:09

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11/12/08

ACS Residential
Data Validation Reports
LDC# 19750

ME0810733

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Residential

Collection Date: October 17, 2008

LDC Report Date: November 11, 2008

Matrix: Water

Parameters: Semivolatiles

Validation Level: EPA Level III

Laboratory: Microbac

Sample Delivery Group (SDG): ME0810733

Sample Identification

ACS-GW-PWB-32RE
ACS-GW-PWC-32RE
ACS-GW-PWD-32RE
ACS-GW-RESDUP-01-32RE

Introduction

This data review covers 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

The review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all semivolatile target compounds and system performance check compounds (SPCCs) were greater than or equal to 0.05 as required.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
10/22/08	Hexachlorocyclopentadiene Di-n-octylphthalate Dibenz(a,h)anthracene	27 35.1 25.9	All samples in SDG ME0810733	J (all detects) UJ (all non-detects)	P

All of the continuing calibration RRF values were greater than or equal to 0.05.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
ACS-GW-PWD-32RE	Chrysene-d12 Perylene-d12	64290 (70902-283608) 57232 (66525-266100)	Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	P

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples ACS-GW-PWC-32RE and ACS-GW-RESDUP-01-32RE were identified as field duplicates. No semivolatiles were detected in any of the samples.

ACS Residential
Semivolatiles - Data Qualification Summary - SDG ME0810733

SDG	Sample	Compound	Flag	A or P	Reason
ME0810733	ACS-GW-PWB-32RE ACS-GW-PWC-32RE ACS-GW-PWD-32RE ACS-GW-RESDUP-01-32RE	Hexachlorocyclopentadiene Di-n-octylphthalate Dibenz(a,h)anthracene	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D)
ME0810733	ACS-GW-PWD-32RE	Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	P	Internal standards (area)

ACS Residential
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG ME0810733

No Sample Data Qualified in this SDG

ACS Residential
Semivolatiles - Field Blank Data Qualification Summary - SDG ME0810733

No Sample Data Qualified in this SDG

LDC #: 19750A2
SDG #: ME0810733
Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET
Level III

Date: 11/10/08
Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/17/08
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	
IV.	Continuing calibration/ICV	SW	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	Client spec
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	SW	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 2, 4
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

Water

1	ACS-GW-PWB-32RE	11	BK-1-102108	21		31	
2	ACS-GW-PWC-32RE D	12		22		32	
3	ACS-GW-PWD-32RE	13		23		33	
4	ACS-GW-RESDUP-01-32RE D	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

Notes: * = System performance check compound (SPCC) for RRF; ** = Calibration check compound (CCC) for %RSD.

COMPNDL

LDC #: 14750A2
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: JVC
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: <25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	10/22/08	C102202	X	27		All + Blk	J/UJ/P
			** FFF	35.1			
			kkk	25.9			

** - CCC

CONCAL.2S

LDC #: 19750A2
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: JVG
2nd Reviewer: Q

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all internal standard area counts within -50 to +100 of the associated calibration standard?
(Y) N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	Area (Limits)	RT (Limits)	Qualifications
		3	CRY	64290 (70902 - 283608)		J/UJ/P
			PRY	57232 (66525 - 266100)		↓

* QC limits are advisory
IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

Semi-Volatile Internal Standards

1,4-Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10
Phenol Bis(2-chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2'-Oxybis(1-chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane	Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis-(2-chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene	Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene 3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenylphenyl ether Fluorene 4-Nitroaniline
Phenanthrene-d10	**Chrysene-d12**	**Perylene-d12**
4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine 4-Bromophenyl-phenylether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Carbazole Di-n-butylphthalate Fluoranthene	Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)anthracene Chrysene Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene

Semi-Volatile Surrogates

Acid	Base
Phenol-d5 2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 1,2-Dichlorobenzene-d4

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: ACS Residential

Collection Date: October 17, 2008

LDC Report Date: November 11, 2008

Matrix: Water

Parameters: Thallium

Validation Level: EPA Level III

Laboratory: Microbac

Sample Delivery Group (SDG): ME0810733

Sample Identification

ACS-GW-PWC-32RE
ACS-GW-PWD-32RE
ACS-GW-RESDUP-01-32RE

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Thallium.

This review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No thallium was found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Thallium	11.8 ug/L	All samples in SDG ME0810733

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
ACS-GW-PWC-32RE	Thallium	5.9 ug/L	5.9UB ug/L

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

Introduction

This data review covers 3 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Thallium.

This review follows the Remedial Design/Remedial Action PRP - Lead Project Quality Assurance Project Plan (November 2001, Rev. 0) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

B Compound or analyte was positively detected in a sample and in an associated blank.

UB Compound or analyte is not detected at or above the indicated concentration due to blank contamination.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

V. Matrix Spike Analysis

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VI. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples ACS-GW-PWC-32RE and ACS-GW-RESDUP-01-32RE were identified as field duplicates. No thallium was detected in any of the samples with the following exceptions:

Analyte	Concentration (ug/L)		RPD
	ACS-GW-PWC-32RE	ACS-GW-RESDUP-01-32RE	
Thallium	5.9	50U	200

ACS Residential
Thallium - Data Qualification Summary - SDG ME0810733

No Sample Data Qualified in this SDG

ACS Residential
Thallium - Laboratory Blank Data Qualification Summary - SDG ME0810733

SDG	Sample	Analyte	Modified Final Concentration	A or P
ME0810733	ACS-GW-PWC-32RE	Thallium	5.9UB ug/L	A

ACS Residential
Thallium - Field Blank Data Qualification Summary - SDG ME0810733

No Sample Data Qualified in this SDG

LDC #: 19750A4

SDG #: ME0810733

Laboratory: Microbac

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 11-10-08

Page: 1 of 1

Reviewer: MG

2nd Reviewer: [illegible]

METHOD: Thallium (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10-17-08
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	N	Client specified
VI.	Duplicate Sample Analysis	N	" "
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	D = 1+3
XIV.	Field Blanks	N	

Note:
A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

all water

	1	ACS-GW-PWC-32RE	11		21		31	
	2	ACS-GW-PWD-32RE	12		22		32	
MG	3	ACS-GW-RESDUP-01-32RE	13		23		33	
	4	PBW	14		24		34	
	5		15		25		35	
	6		16		26		36	
	7		17		27		37	
	8		18		28		38	
	9		19		29		39	
	10		20		30		40	

Notes:

LDC #: 19750A4
SDG #: ME0810733

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: all

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	Sample Identification									
					1									
Al														
Sb														
As														
Ba														
Be														
Cd														
Ca														
Cr														
Co														
Cu														
Fe														
Pb														
Mg														
Mn														
Hg														
Mo														
Ni														
K														
Se														
Ag														
Na														
Tl			11.8	59.00	5.9 UB									
V														
Zn														
Sn														
B														

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4SW

LDC#: 19750A4
SDG#: ME0810733

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Metals (EPA Method 6010B/7000)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/L)		RPD	
	1	3		
Thallium	5.9	50U	200	

V:\FIELD DUPLICATES\FD_inorganic\19750A4.WPD

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Project #19750
November 14, 2008

MWH Americas, Inc.
175 West Jackson Blvd, Suite 1900
Chicago, IL 60604-2814
ATTN: Mr. Justin Finger

SUBJECT: ACS Residential, Data Validation

Dear Mr. Finger,

SUBJECT: Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS Residential Project

Dear Mr Finger,

Enclosed is the Precision, Accuracy, Representativeness, Comparability, Completeness (PARCC) Summary Report for the ACS Residential Project.

We appreciate this opportunity to support MWH Americas, Inc. in the performance of this project. Please feel free to call me at (760) 634-0437 if you have any questions.

Sincerely,

ERauto

Erlinda T. Rauto
Operations Manager/Senior Chemist

V:\LOGIN\MWH\ACS\19750COVP.wpd

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS SUMMARY REPORT

American Chemical Service

11/14/08

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Glossary

CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
DQO	Data Quality Objectives
IDL	Instrument Detection Limit
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
mg/Kg	Milligrams per Kilogram
MS/MSD	Matrix Spike / Matrix Spike Duplicate
PARCC	Precision,Accuracy,Representativeness,Comparability, Completeness
PCBs	Polychlorinated Biphenyls
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
RRF	Relative Response Factor
RL	Reporting Limit
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
ug/Kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS SUMMARY REPORT
American Chemical Service

1.0 INTRODUCTION

Remedial design/ remedial action was conducted at the American Chemical Service, Inc. NPL Site in Griffith, Indiana. This part of the site investigation included the collection and analyses of 4 residential wells and quality control (QC) samples. The analyses were performed by the following methods:

Volatile Organics by EPA SW 846 Method 8260B
Semivolatile Organics by EPA SW 846 Method 8270C
Chlorinated Pesticides and PCBs by EPA SW 846 Method 8081A and 8082
Metals by EPA SW 846 Method 6010B, 6020A and 7000
Cyanide by EPA SW 846 Method 9012B

Analytical services were provided by Microbac who performed analyses on the residential well samples. The samples were grouped into sample delivery groups (SDGs) of up to 20 field samples received by the laboratory. The environmental samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I in Appendix A is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, and matrix. All shaded samples in Table I in Appendix A were reviewed under EPA Level 4 guidelines.

Approximately ten percent of the analytical data were validated according to EPA Level 4 data validation procedures and ninety percent of the analytical data were validated according to EPA Level 3 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *The Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan,* November 2001, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, October 1999, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste.*

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, and comparability (PARCC) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCC summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCC criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 8 presents a summary of the PARCC criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCC criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and

laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors in sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: trip blanks, equipment rinsate blanks, field duplicates, method blanks, laboratory control samples (LCSs), surrogate spikes, matrix spike/matrix spike duplicates (MS/MSDs), and laboratory duplicates.

Before conducting the PARCC evaluation, the analytical data were validated according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project Plan*, November 2001, and the Functional Guidelines for Organic Data Review (USEPA 1999) and Inorganic Data Review (USEPA, 1994) and EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste. Samples not meeting the project procedures manual and the Functional Guideline acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

J — Estimated The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.

R — Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte.

UB — Analyte was not detected at or above the indicated concentration due to blank contamination. The "UB" flag is used to qualify any result detected in an environmental sample at a concentration less than 10 times the value of the concentration in any associated blank for common laboratory contaminants and less than 5 times the concentration in any associated blank for all other contaminants

B — Analyte was positively detected in a sample and in an associated blank. The "B" flag is used to to qualify any result detected in an environmental sample at a concentration greater than 10 times the value of the concentration in any associated blank for common laboratory contaminants and greater than 5 times the concentration in any associated blank for all other contaminants

UJ — Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, internal standard, or other spike recovery.

Once the data are reviewed and qualified according to the *Remedial Design/ Remedial Action PRP-Lead Project at the American Chemical Service, Inc. NPL Site, Griffith, Indiana Quality Assurance Project*

Plan, November 2001 and the functional guidelines, the data set is then evaluated using PARCC criteria. PARCC criteria provide an evaluation of overall data usability. The following is a discussion of PARCC criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

Where D1 and D2 are the reported concentrations for sample and duplicate analyses. Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. Non-aqueous LCSs are prepared using solid media approved by the American Society for Testing and Materials (ASTM) for their homogeneity. The LCS measures laboratory efficiency in recovering target analytes from either a solid or aqueous matrix in the absence of matrix interferences.

For inorganics analysis, one primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate, then calculates RPDs, which are used to assess laboratory precision.

Laboratory and field sampling precision are further evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the reporting limit or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system.

Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and samples containing surrogate spikes. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Surrogate spikes are either isotopically labeled compounds or compounds that are not typically detected in the samples. Surrogate spikes are added to every blank, environmental sample, MS/MSD, and standard, for volatile organic (VOC), semivolatile (SVOC), chlorinated pesticides and polychlorinated biphenyl (PCBs) analyses. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:
A = measured concentration in the spiked sample
B = measured concentration of the spike compound in the unspiked sample
C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples, LCS, and surrogate compounds added to environmental samples is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blank samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, equipment rinsate blanks, and trip blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Trip blanks are used to identify possible volatile organic contamination introduced into the sample during transport. A trip blank is a sample bottle filled in the laboratory with reagent-grade water and preserved to a pH less than 2 with hydrochloric acid. It is transported to the site, stored with the sample containers, and returned unopened to the laboratory for analysis. Additionally, for inorganic analyses, initial and continuing calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Contaminants found in both the environmental sample and a blank sample are assumed to be laboratory artifacts if the concentration in the environmental sample is less than 10 times the

blank value for common laboratory contaminants; methylene chloride, acetone, 2-butanone, and phthalate esters or 5 times the blank value for other laboratory contaminants.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedances can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation.

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCC criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 95 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:
%C = percent completeness
T = total number of sample results
R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the FSP or QAPP, with the number determined above.

The following sections present a review of QC data for each analytical method.

2.0 VOLATILE ORGANIC COMPOUNDS

A total of six water samples were analyzed for volatile organic compounds (VOC) by EPA SW 846 Method 8260B. All 228 volatile results were assessed to be valid with the exception of one chloromethane and one vinyl chloride which were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Relative response factor (RRF), percent relative standard deviation (%RSD), and percent difference (%D) are the three major parameters used to measure the effectiveness of instrument calibration. RRF is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The relative response factors for acetone and 2-butanone were above the criteria for acceptance of 0.05 in the initial calibration and/or the continuing calibration standards. Six acetone results and six 2-butanone results were qualified detected estimated (J) and non-detected estimated (UJ).

Six volatile results were qualified detected estimated (J) and non-detected estimated (UJ). The percent difference between the initial calibration mean relative response factors and the continuing calibration relative response factors for hexanone were outside the acceptance criteria of 25 percent. The affected samples are identified in the data validation reports.

2.1.2 Surrogates

No data were qualified based on surrogate non-conformances.

2.1.3 MS/MSD Samples

Two volatile non-detected results were qualified rejected (R) based on MS/MSD nonconformances. One chloromethane and one vinyl chloride were outside the acceptance criteria. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

2.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

2.1.5 Internal Standards

No data were qualified based on internal standard nonconformances. The recoveries and retention times were evaluated against the acceptance criteria.

2.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

2.1.7 Compound Quantitation and Target Identification

All compound quantitation and target identification was found to be acceptable.

2.2 Representativeness

2.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

2.2.2 Blanks

Method blanks and trip blanks were collected and analyzed to evaluate representativeness. The concentration for an individual target compounds in any of the three types of QA/QC blanks were used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results for organic compounds based on the following criteria. The validation qualifier codes used in the blank summary tables are described below.

> Results Below the RL If a sample result for the blank contaminant was less than the RL and less than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the sample result was amended as a non-detected at the RL for the target compound and qualified with UB
>
> Results Above the RL If a sample result for the blank contaminant was greater than the sample RL and less than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the sample result for the blank contaminant was amended as a non-detect at the concentration reported in the sample results and qualified with UB.
>
> If a sample result for the blank contaminant was greater than 10 times the blank value for common contaminants or 5 times the blank value for other contaminants, the result was not amended and qualified with B.

2.2.2.1 Method Blanks

As a result of method blank contamination, one methylene chloride results was qualified as non-detected (UB). The details regarding the qualification of results are provided in the data validation reports.

2.2.2.2 Trip Blanks

As a result of trip blank contamination, three acetone results were qualified as non-detected (UB). The details regarding the qualification of results are provided in the data validation reports.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target compounds detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

2.4 Completeness

The completeness level attained for volatile organic field samples was 99 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.0 SEMIVOLATILE ORGANIC COMPOUNDS

A total of nine water samples were analyzed for semivolatile organic compounds (SVOC) by EPA SW 848 Method 8270C. All 522 semivolatile results were assessed to be valid since none of the 522 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

As previously discussed in Section 2.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

The relative response factors met the acceptance criteria of 0.05 in the initial and continuing calibration standards.

Twelve semivolatile results were qualified as detected estimated (J) and non-detected estimated (UJ). The relative standard deviation in the initial calibrations and/or percent difference between the initial calibration mean relative response factors and the continuing calibration relative response factors for hexachlorocyclopentadiene, di-n-octylphthalate and dibenz(a,h)anthracene were outside the acceptance criteria of 30 and 25 percent, respectively. The affected samples are identified in the data validation reports.

3.1.2 Surrogates

No data were qualified based on surrogate nonconformances.

3.1.3 MS/MSD Samples

No data were qualified based on MS/MSD nonconformances. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

3.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

3.1.5 Internal Standards

Thirteen semivolatile results were qualified as detected estimated (J) and non-detected estimated (UJ). The internal standard area counts for chrysene-d12 and Perylene-d12 were outside the acceptance criteria. The affected samples are identified in the data validation reports.

3.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

3.1.8 Compound Quantitation and Target Identification

All compound quantitation and target compound identifications were found to be acceptable.

3.2 Representativeness

3.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

3.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks, equipment rinsate blanks, and field blanks were analyzed to evaluate representativeness.

3.2.2.1 Method Blanks

No QC issues were associated with the method blanks for this analysis.

3.2.2.2 Equipment Rinsate and Field Blanks

No equipment rinsate and field blanks were associated with this group of samples for this analysis.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target compounds detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

3.4 Completeness

The completeness level attained for semivolatile organic field samples was 87 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.0 Chlorinated Pesticides / PCBs

A total of five water samples were analyzed for chlorinated pesticides / PCBs by EPA SW 846 Method 8081A and 8082. All chlorinated pesticides / PCB data were assessed to be valid since none of the 140 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

4.1 Precision and Accuracy

4.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Percent relative standard deviation (%RSD) and percent difference (%D) are the two major parameters used to measure the effectiveness of instrument calibration. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The relative standard deviations in the initial calibrations and/or percent differences between the initial calibration and the continuing calibration concentrations were within the acceptance criteria of 20 and 15 percent respectively.

4.1.2 Surrogates

No data were qualified based on surrogate recovery nonconformances.

4.1.3 MS/MSD Samples

No data were qualified based on MS/MSD nonconformances. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

4.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

4.1.6 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the compounds. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

4.1.8 Compound Quantitation and Target Identification

All target compounds identifications were found to be acceptable

4.2 Representativeness

4.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

4.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks were analyzed to evaluate representativeness.

4.2.2.1 Method Blanks

As a result of method blank contamination, five delta-BHC results and three endrin aldehyde results were qualified as non-detected (UB). The details regarding the qualification of results are provided in the data validation reports.

4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target compounds detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

4.4 Completeness

The completeness level attained for chlorinated pesticides / PCBs field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

5.0 METALS

A total of eight water samples were analyzed for metals by EPA SW 846 Method 6010B, 6020A and 7000. All metals data were assessed to be valid since none of the 118 total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

5.1 Precision and Accuracy

5.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the on going calibration acceptability of the analytical system. The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations and/or percent recoveries in the continuing calibration verifications were within the acceptance criteria of $\geq$ 0.995 and 90-110 percent, respectively.

5.1.2 MS Samples

No data were qualified based on MS/MSD nonconformances. For those SDGs with MS/MSD results, the recoveries were evaluated against the acceptance criteria.

5.1.3 Duplicate (DUP) Samples

No data were qualified based on duplicate nonconformances. For those SDGs with DUP results, the relative percent differences/differences were evaluated against the acceptance criteria. In cases where RPDs or differences exceeded criteria, the QC exceedance was judged to have no impact on the data quality and no qualifications were made.

5.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

5.1.5 ICP Serial Dilution

No data were qualified based on ICP serial dilution nonconformances. All recoveries were evaluated against the acceptance criteria.

5.1.6 ICP Interference Check Sample

Five manganese results were qualified as detected estimated (J). The ICP interference check sample was outside the acceptance criteria. The affected samples are identified in the data validation reports.

5.1.7 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

5.1.9 Sample Result Verification

All sample results were found to be acceptable.

5.2 Representativeness

5.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

5.2.2 Blanks

Method blanks and field blanks were collected and analyzed to evaluate representativeness. The concentration for an individual target compounds in any of the three types of QA/QC blanks were used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results for inorganic analytes based on the following criteria. The validation qualifier codes are described below.

> Results Above and Below the RL If a sample result for the blank contaminant was less than or greater than the RL and less than 5 times the blank value, the sample result was amended as a non-detected for the target compound and qualified with UB
>
> If a sample result for the blank contaminant was greater than 5 times the blank value, the result was not amended and qualified with B.

5.2.2.1 Method Blanks

As a result of method blank contamination, forty seven analytes were qualified as non-detected estimated (UB) and detected estimated (B). The details regarding the qualification of results are provided in the data validation reports.

5.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target analytes detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

5.4 Completeness

The completeness level attained for metal field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

6.0 Cyanide

A total of five water samples were analyzed for cyanide by EPA SW 846 Method 9012B. All cyanide data were assessed to be valid since none of the five total results were rejected based on QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

6.1 Precision and Accuracy

6.1.1 Instrument Calibration

As previously discussed in Section 5.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

The correlation coefficients in the initial calibrations and/or percent recoveries in the continuing calibration verifications were within the acceptance criteria of $\geq$ 0.995 and 85-115 percent, respectively.

6.1.2 MS Samples

No data were qualified based on MS nonconformances. For those SDGs with MS results, the recoveries were evaluated against the acceptance criteria.

6.1.3 Duplicate (DUP) Samples

No data were qualified based on duplicate nonconformances. For those SDGs with duplicate results, the recoveries were evaluated against the acceptance criteria.

6.1.4 LCS Samples

No data were qualified based on LCS nonconformances. For those SDGs with LCS results, the recoveries were evaluated against the acceptance criteria.

6.1.7 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs for the analytes. The associated data validation narratives provided details regarding criteria exceeded. Sample data were not qualified on the basis of field duplicate precision.

6.1.9 Sample Result Verification

All sample results were found to be acceptable.

6.2 Representativeness

6.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All holding times were met.

6.2.2 Blanks

As previously discussed in Section 5.2.2, method blanks were analyzed to evaluate representativeness.

6.2.2.1 Method Blanks

No QC issues were associated with the method blanks for this analysis.

6.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the method detection limits attained were at or below the reporting limit. Target analytes detected below the reporting limits flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

6.4 Completeness

The completeness level attained for cyanide field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

7.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted according to the laboratory SOW.

8.0 SUMMARY OF PARCC CRITERIA

The validation reports present the PARCC results for all SDGs. Each PARCC criterion is discussed in detail in the following sections.

8.1 Precision and Accuracy

Precision and accuracy were evaluated usi`ng data quality indicators such as MS/MSD, LCS, and surrogates. The precision and accuracy of the data set were considered acceptable after integration of qualification of estimated results as specifically noted in the data validation reports.

8.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after qualification for blank contamination.

8.3 Comparability

Sampling frequency requirements were met in obtaining duplicates and necessary field blanks. The laboratory used standard analytical methods for their analyses. The analytical results were reported in correct standard units. Holding times, sample preservation, and sample integrity were within QC criteria. The overall comparability is considered acceptable.

8.4 Completeness

Of the 1013 total analytes reported, two of the sample results were rejected. The completeness for all SDGs is as follows:

Parameter/Method	Total Analytes	No. of Rejects	%Completeness
Volatiles	228	2	99
Semivolatiles	522	0	100
Chlorinated Pesticides & PCBs	140	0	100
Metals	118	0	100
Cyanide	5	0	100
Total	**1013**	**2**	**99**

The completeness percentage based on rejected data met the 95 percent DQO goal. A less quantifiable loss of data occurred in the application of blank qualifications.

Appendix D

Pumping Data from Lower Aquifer Monitoring Wells

Pumping Data for Lower Aquifer Monitoring Well MW10C

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	0.5	1,580	---	---
12/03/02	0.5	1,580	18	0
12/21/02	0.5	1,580	18	0
12/27/02	0.5	1,580	6	0
01/03/03	0.5	1,580	7	0
01/10/03	0.5	1,580	7	0
01/16/03	0.5	1,580	6	0
01/24/03	0.5	1,580	8	0
01/31/03	0.5	1,580	7	0
02/14/03	0.5	2,210	14	45
02/20/03	0.5	2,210	6	0
02/27/03	0.5	2,210	7	0
03/07/03	1	5,840	8	454
03/13/03	1	9,350	6	585
03/21/03	1	22,470	8	1,640
03/28/03	1	32,930	7	1,494
04/04/03	1	40,800	7	1,124
04/11/03	1	40,810	7	1
04/17/03	1	42,750	6	323
04/25/03	1	63,370	8	2,578
05/02/03	1	81,750	7	2,626
05/29/03	1	156,790	27	2,779
06/13/03	1	180,950	15	1,611
06/20/03	1	192,880	7	1,704
07/03/03	1	242,300	13	3,802
07/11/03	1	272,930	8	3,829
07/25/03	2	285,410	14	891

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	2	313,850	7	4,063
08/08/03	2	335,510	7	3,094
08/15/03	2	364,550	7	4,149
10/03/03	2	387,450	49	467
10/31/03	2	388,270	28	29
11/07/03	2	414,050	7	3,683
11/21/03	2	454,920	14	2,919
12/05/03	2	496,910	14	2,999
12/12/03	2	519,610	7	3,243
12/26/03	2	571,330	14	3,694
01/02/04	2	597,570	7	3,749
01/09/04	2	622,910	7	3,620
01/16/04	2	649,150	7	3,749
01/22/04	2	671,460	6	3,718
02/12/04	2	695,330	21	1,137
02/20/04	2	725,160	8	3,729
02/27/04	2	751,020	7	3,694
03/19/04	2	832,820	21	3,895
04/02/04	2	864,160	14	2,239
04/16/04	2	916,440	14	3,734
04/23/04	2	942,880	7	3,777
04/30/04	2	969,850	7	3,853
05/14/04	2	1,018,210	14	3,454
06/04/04	2	1,032,860	21	698
06/18/04	2	1,086,740	14	3,849
07/02/04	2	1,140,680	14	3,853
07/09/04	2	1,155,710	7	2,147

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/16/04	2	1,176,790	7	3,011
07/30/04	2	1,177,420	14	45
09/17/04	0	1,343,810	49	3,396
10/01/04	0	1,343,810	14	0
10/15/04	0	1,343,810	14	0
11/05/04	2	1,357,770	21	665
11/18/04	2	1,374,910	13	1,318
12/03/04	0	1,383,070	15	544
12/10/04	2	1,383,070	7	0
12/31/04	2	1,387,670	21	219
01/21/05	0	1,390,950	21	156
02/25/05	2	1,406,420	35	442
03/04/05	2	1,422,220	7	2,257
03/11/05	2	1,438,120	7	2,271
03/18/05	2	1,453,770	7	2,236
03/25/05	2	1,463,610	7	1,406
04/01/05	2	1,463,620	7	1
04/08/05	2	1,471,410	7	1,113
04/15/05	2	1,482,000	7	1,513
04/22/05	2	1,495,950	7	1,993
04/29/05	2	1,508,600	7	1,807
05/13/05	2	1,528,470	14	1,419
05/20/05	2	1,540,490	7	1,717
05/27/05	2	1,553,460	7	1,853
06/03/05	2	1,567,280	7	1,974
06/17/05	2	1,575,070	14	556
06/24/05	2	1,579,860	7	684

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/01/05	0	1,579,860	7	0
07/15/05	<1	1,581,440	14	113
07/29/05	0	1,581,440	14	0
08/05/05	0	1,581,440	7	0
08/19/05	0	1,581,440	14	0
08/26/05	0	1,581,440	7	0
09/09/05	0	1,581,440	14	0
09/15/05	0	1,581,440	6	0
09/23/05	0	1,581,440	8	0
10/14/05	0	1,581,440	21	0
10/21/05	0	1,581,440	7	0
10/28/05	0	1,581,440	7	0
11/04/05	0	1,581,440	7	0
11/18/05	0	1,581,440	14	0
12/09/05	0	1,581,440	21	0
12/23/05	0	1,581,440	14	0
01/06/06	0	1,581,440	14	0
01/19/06	0	1,581,440	13	0
02/17/06	0	1,581,440	29	0
03/03/06	0	1,581,440	14	0
03/17/06	0	1,581,440	14	0
03/31/06	0	1,581,440	14	0
04/21/06	0	1,581,440	21	0
05/05/06	0	1,581,440	14	0
05/19/06	0	1,581,440	14	0
06/02/06	0	1,581,440	14	0
06/30/06	0	1,581,440	28	0

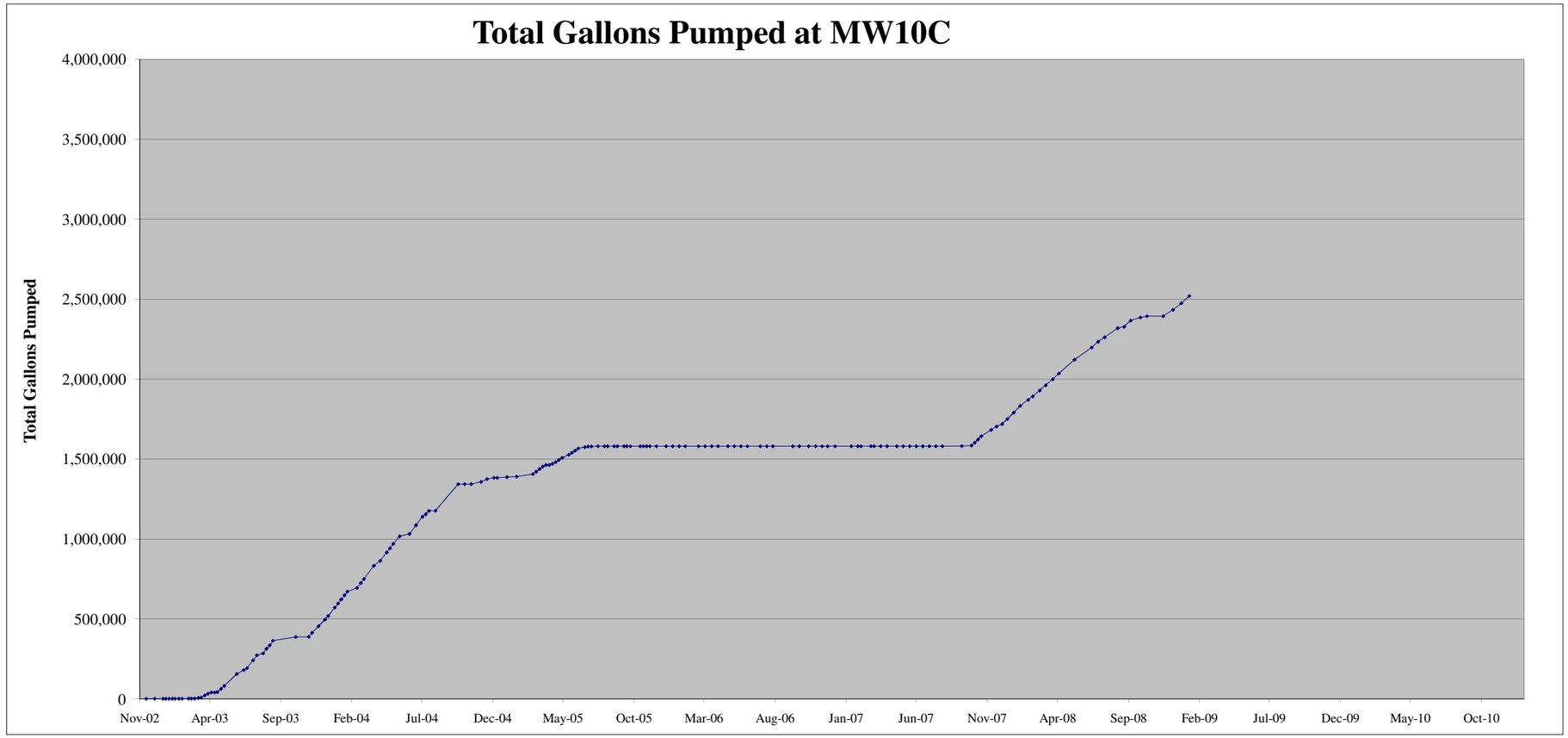
MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/14/06	0	1,581,440	14	0
07/27/06	0	1,581,440	13	0
09/08/06	0	1,581,440	43	0
09/22/06	0	1,581,440	14	0
10/12/06	0	1,581,440	20	0
10/27/06	0	1,581,440	15	0
11/10/06	0	1,581,440	14	0
11/22/06	0	1,581,440	12	0
12/08/06	0	1,581,440	16	0
01/12/07	0	1,581,440	35	0
01/26/07	0	1,581,440	14	0
02/02/07	0	1,581,440	7	0
02/23/07	0	1,581,440	21	0
03/02/07	0	1,581,440	7	0
03/16/07	0	1,581,440	14	0
03/30/07	0	1,581,440	14	0
04/20/07	0	1,581,440	21	0
05/04/07	0	1,581,440	14	0
05/18/07	0	1,581,440	14	0
06/01/07	0	1,581,440	14	0
06/15/07	0	1,581,440	14	0
06/29/07	0	1,581,440	14	0
07/13/07	0	1,581,440	14	0
07/27/07	0	1,581,440	14	0
09/07/07	<2	1,581,807	42	9
09/28/07	<2	1,585,550	21	178
10/05/07	2	1,603,180	7	2,519

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
10/12/07	2	1,623,290	7	2,873
10/19/07	2	1,643,400	7	2,873
11/09/07	2	1,682,440	21	1,859
11/21/07	2	1,704,390	12	1,829
12/03/07	2	1,719,420	12	1,253
12/14/07	2	1,751,210	11	2,890
12/28/07	2	1,790,930	14	2,837
01/11/08	2	1,834,390	14	3,104
01/28/08	2	1,871,320	17	2,172
02/07/08	2	1,892,750	10	2,143
02/22/08	2	1,929,780	15	2,469
03/06/08	2	1,962,570	13	2,522
03/21/08	2	1,999,850	15	2,485
04/03/08	2	2,035,300	13	2,727
05/07/08	2	2,122,610	34	2,568
06/13/08	2	2,198,190	37	2,043
06/27/08	2	2,234,860	14	2,619
07/11/08	2	2,262,680	14	1,987
08/08/08	2	2,319,670	28	2,035
08/22/08	2	2,328,640	14	641
09/05/08	2	2,367,010	14	2,741
09/26/08	2	2,386,790	21	942
10/10/08	0	2,394,260	14	534
11/14/08	2	2,394,280	35	1
12/05/08	2	2,434,330	21	1,907
12/23/08	2	2,474,900	18	2,254
01/09/09	2	2,520,820	17	2,701

MW10C				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

* Lower aquifer extraction system in MW10C was re-started in September 2007 but was not pumping for the entire time between previous measurement



Pumping Data for Lower Aquifer Monitoring Well MW56

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	1	10,620	---	---
12/03/02	1	31,620	18	1,167
12/21/02	1.5	50,130	18	1,028
12/27/02	1.5	54,870	6	790
01/03/03	1.5	63,460	7	1,227
01/10/03	1.5	70,130	7	953
01/16/03	1.5	77,380	6	1,208
01/24/03	1.5	84,840	8	933
01/31/03	2	105,400	7	2,937
02/14/03	2	147,310	14	2,994
02/20/03	2	166,550	6	3,207
02/27/03	2	190,130	7	3,369
03/07/03	2	215,980	8	3,231
03/13/03	2	236,440	6	3,410
03/21/03	2	261,380	8	3,118
03/28/03	2	279,930	7	2,650
04/04/03	2	299,360	7	2,776
04/11/03	2	327,490	7	4,019
04/17/03	2	348,540	6	3,508
04/25/03	2	373,590	8	3,131
05/02/03	2	395,770	7	3,169
05/29/03	2	486,640	27	3,366
06/13/03	2	514,120	15	1,832
06/20/03	2	526,930	7	1,830
07/03/03	2	565,650	13	2,978
07/11/03	2	589,150	8	2,938
07/25/03	2	598,780	14	688

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	2	620,210	7	3,061
08/08/03	2	636,400	7	2,313
08/15/03	2	657,820	7	3,060
10/03/03	2	657,850	49	1
10/31/03	2	690,420	28	1,163
11/07/03	2	709,130	7	2,673
11/21/03	2	738,920	14	2,128
12/05/03	2	770,530	14	2,258
12/12/03	2	787,800	7	2,467
12/26/03	2	827,060	14	2,804
01/02/04	2	846,960	7	2,843
01/09/04	2	866,310	7	2,764
01/16/04	2	886,330	7	2,860
01/22/04	2	903,320	6	2,832
02/12/04	2	921,350	21	859
02/20/04	2	943,660	8	2,789
02/27/04	2	962,930	7	2,753
03/19/04	2	1,024,620	21	2,938
04/02/04	2	1,049,020	14	1,743
04/16/04	2	1,090,960	14	2,996
04/23/04	2	1,113,640	7	3,240
04/30/04	2	1,135,930	7	3,184
05/14/04	2	1,175,970	14	2,860
06/04/04	2	1,247,530	21	3,408
06/18/04	2	1,291,550	14	3,144
07/02/04	2	1,335,500	14	3,139
07/09/04	2	1,358,500	7	3,286

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/16/04	2	1,376,990	7	2,641
07/30/04	2	1,419,610	14	3,044
09/17/04	0	1,519,670	49	2,042
10/01/04	0	1,519,670	14	0
10/15/04	2	1,527,850	14	584
11/05/04	2	1,566,020	21	1,818
11/18/04	2	1,596,200	13	2,322
12/03/04	2	1,631,330	15	2,342
12/10/04	2	1,639,050	7	1,103
12/31/04	2	1,646,830	21	370
01/21/05	2	1,646,880	21	2
02/25/05	2	1,663,450	35	473
03/04/05	2	1,680,530	7	2,440
03/11/05	2	1,697,570	7	2,434
03/18/05	2	1,714,240	7	2,381
03/25/05	2	1,731,870	7	2,519
04/01/05	2	1,739,870	7	1,143
04/08/05	2	1,751,960	7	1,727
04/15/05	2	1,769,170	7	2,459
04/22/05	2	1,784,480	7	2,187
04/29/05	2	1,799,460	7	2,140
05/13/05	2	1,826,680	14	1,944
05/20/05	2	1,841,400	7	2,103
05/27/05	2	1,857,330	7	2,276
06/03/05	2	1,871,780	7	2,064
06/17/05	2	1,900,740	14	2,069
06/24/05	2	1,916,160	7	2,203

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/01/05	2	1,931,420	7	2,180
07/15/05	2	1,960,260	14	2,060
07/29/05	2	1,987,950	14	1,978
08/05/05	2	2,001,660	7	1,959
08/19/05	2	2,028,380	14	1,909
08/26/05	2	2,042,200	7	1,974
09/09/05	2	2,069,090	14	1,921
09/15/05	2	2,081,920	6	2,138
09/23/05	2	2,094,760	8	1,605
10/14/05	2	2,132,300	21	1,788
10/21/05	2	2,144,310	7	1,716
10/28/05	2	2,155,830	7	1,646
11/04/05	2	2,168,050	7	1,746
11/18/05	2	2,190,910	14	1,633
12/09/05	2	2,231,120	21	1,915
12/23/05	2	2,286,340	14	3,944
01/06/06	2	2,347,510	14	4,369
01/19/06	2	2,402,140	13	4,202
02/17/06	2	2,467,430	29	2,251
03/03/06	2	2,501,260	14	2,416
03/17/06	2	2,533,240	14	2,284
03/31/06	2	2,566,870	14	2,402
04/21/06	2	2,575,140	21	394
05/05/06	2	2,628,830	14	3,835
05/19/06	2	2,685,230	14	4,029
06/02/06	2	2,738,660	14	3,816
06/30/06	2	2,824,520	28	3,066

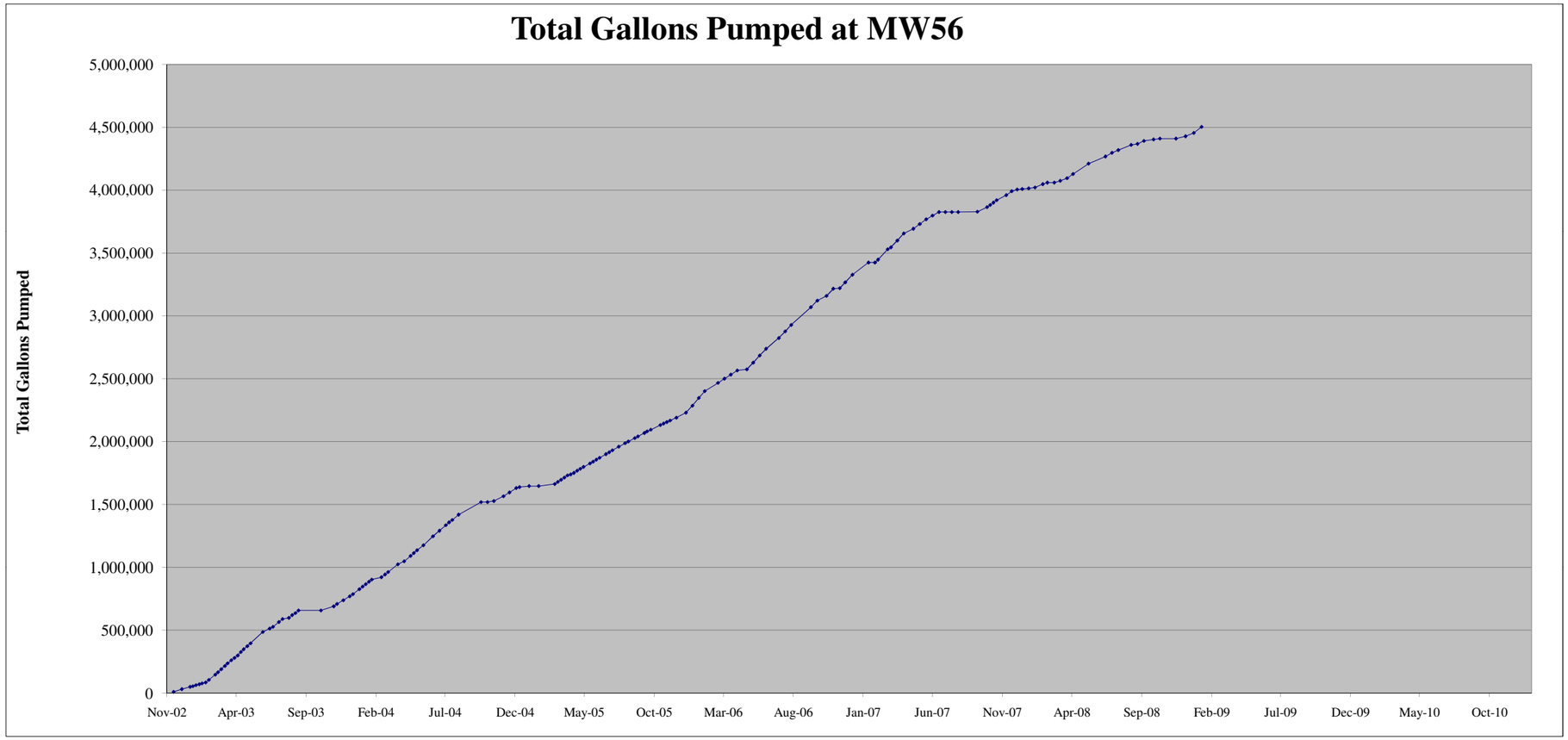
MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/14/06	2	2,877,020	14	3,750
07/27/06	2	2,928,510	13	3,961
09/08/06	2	3,069,650	43	3,282
09/22/06	2	3,122,020	14	3,741
10/12/06	2	3,159,420	20	1,870
10/27/06	2	3,216,640	15	3,815
11/10/06	2	3,220,980	14	310
11/22/06	2	3,266,940	12	3,830
12/08/06	2	3,328,080	16	3,821
01/12/07	2	3,424,900	35	2,766
01/26/07	2	3,424,900	14	0
02/02/07	2	3,447,920	7	3,289
02/23/07	2	3,530,690	21	3,941
03/02/07	2	3,546,020	7	2,190
03/16/07	2	3,599,810	14	3,842
03/30/07	2	3,655,880	14	4,005
04/20/07	2	3,693,760	21	1,804
05/04/07	2	3,731,250	14	2,678
05/18/07	2	3,768,820	14	2,684
06/01/07	2	3,798,270	14	2,104
06/15/07	0	3,826,840	14	2,041
06/29/07	0	3,826,840	14	0
07/13/07	0	3,826,840	14	0
07/27/07	0	3,826,840	14	0
09/07/07	<2	3,828,850	42	48
09/28/07	2	3,865,270	21	1,734
10/05/07	2	3,882,760	7	2,499

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
10/12/07	2	3,901,380	7	2,660
10/19/07	2	3,920,520	7	2,734
11/09/07	2	3,960,430	21	1,900
11/21/07	2	3,992,210	12	2,648
12/03/07	2	4,005,510	12	1,108
12/14/07	2	4,009,810	11	391
12/28/07	2	4,014,870	14	361
01/11/08	2	4,022,150	14	520
01/28/08	2	4,048,470	17	1,548
02/07/08	2	4,060,580	10	1,211
02/22/08	0	4,060,580	15	0
03/06/08	2	4,074,680	13	1,085
03/21/08	2	4,095,600	15	1,395
04/03/08	2	4,128,690	13	2,545
05/07/08	2	4,211,650	34	2,440
06/13/08	2	4,268,310	37	1,531
06/27/08	2	4,297,740	14	2,102
07/11/08	2	4,319,550	14	1,558
08/08/08	2	4,360,510	28	1,463
08/22/08	2	4,368,670	14	583
09/05/08	2	4,392,540	14	1,705
09/26/08	2	4,403,750	21	534
10/10/08	0	4,410,520	14	484
11/14/08	2	4,410,530	35	0
12/05/08	2	4,429,180	21	888
12/23/08	2	4,455,590	18	1,467
01/09/09	2	4,503,950	17	2,845

MW56				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

* Lower aquifer extraction system in MW56 was re-started in September 2007 but was not pumping for the entire time between previous measurement



Pumping Data for Lower Aquifer Monitoring Well MW30

MW30				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
09/07/07	2	1,060	---	---
09/28/07	2	37,990	21	1,759
10/05/07	2	56,600	7	2,659
10/12/07	2	77,710	7	3,016
10/19/07	2	98,930	7	3,031
11/09/07	2	144,050	21	2,149
11/21/07	2	164,660	12	1,718
12/03/07	2	178,990	12	1,194
12/14/07	2	208,960	11	2,725
12/28/07	2	248,450	14	2,821
01/11/08	2	293,240	14	3,199
01/28/08	2	332,980	17	2,338
02/07/08	2	351,980	10	1,900
02/22/08	2	383,530	15	2,103
03/06/08	2	412,790	13	2,251
03/21/08	2	455,330	15	2,836
04/03/08	2	491,970	13	2,818
05/07/08	2	550,200	34	1,713
06/13/08	2	635,670	37	2,310
06/27/08	2	673,190	14	2,680
07/11/08	2	702,740	14	2,111
08/08/08	2	759,190	28	2,016
08/22/08	2	774,100	14	1,065
09/05/08	2	817,860	14	3,126
09/26/08	2	841,750	21	1,138
10/10/08	0	848,850	14	507
11/14/08	2	848,860	35	0

MW30				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
12/05/08	2	883,850	21	1,666
12/23/08	2	903,760	18	1,106
01/09/09	2	961,660	17	3,406

MW30				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

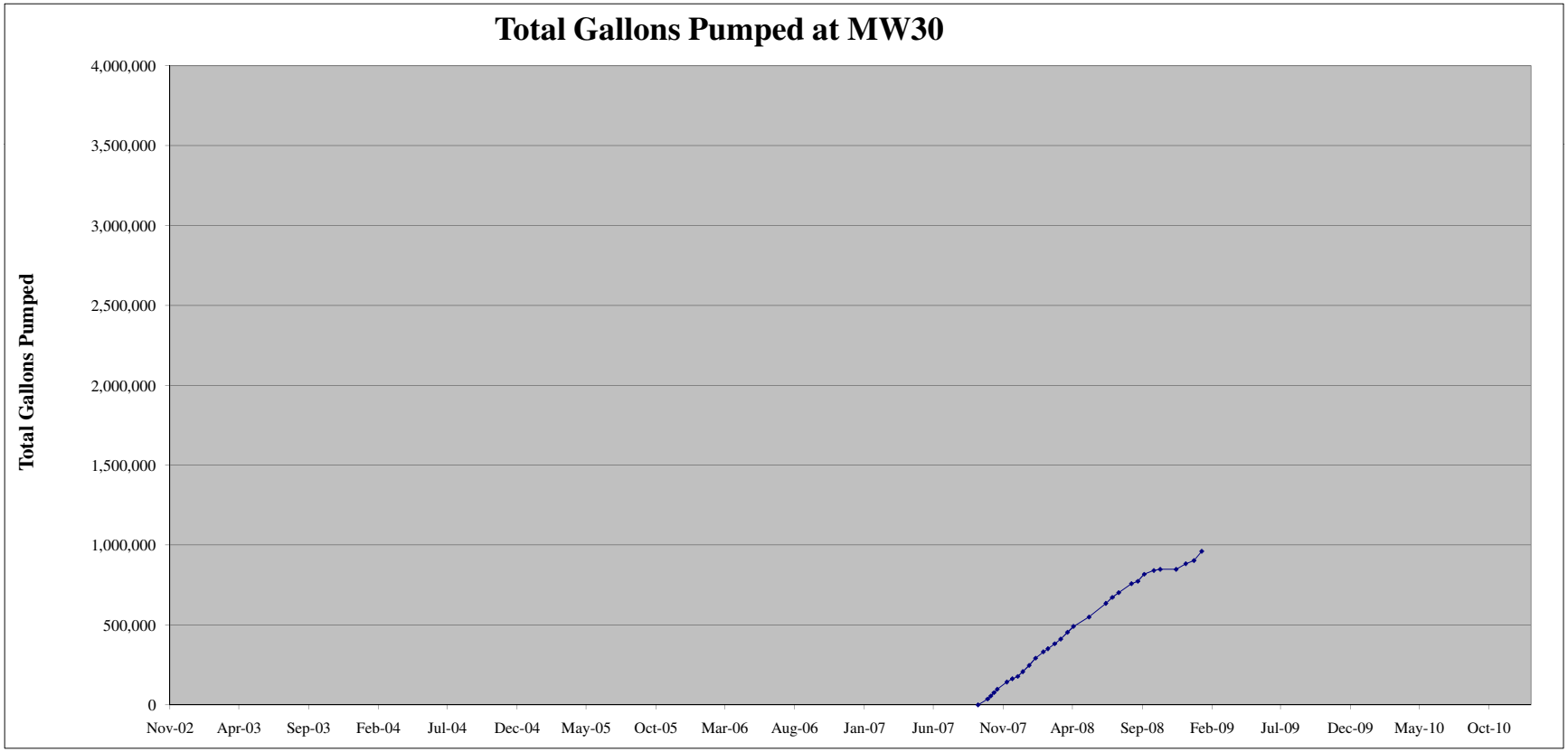
MW30				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

MW30				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

MW30				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

Lower aquifer extraction system in MW30 was started in September 2007.



Pumping Data for Lower Aquifer Monitoring Well MW53

MW53				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
09/07/07	5	1,000	---	---
09/28/07	5	102,310	21	4,824
10/05/07	5	148,680	7	6,624
10/12/07	5	200,950	7	7,467
10/19/07	5	253,560	7	7,516
11/09/07	5	350,480	21	4,615
11/21/07	5	389,000	12	3,210
12/03/07	5	428,570	12	3,298
12/14/07	5	510,910	11	7,485
12/28/07	2	569,240	14	4,166
01/11/08	2	612,550	14	3,094
01/28/08	5	650,950	17	2,259
02/07/08	5	708,230	10	5,728
02/22/08	5	802,350	15	6,275
03/06/08	5	891,030	13	6,822
03/21/08	5	991,190	15	6,677
04/03/08	5	1,084,170	13	7,152
05/07/08	5	1,311,500	34	6,686
06/13/08	5	1,541,060	37	6,204
06/27/08	5	1,640,340	14	7,091
07/11/08	5	1,703,040	14	4,479
08/08/08	5	1,858,880	28	5,566
08/22/08	5	1,882,880	14	1,714
09/05/08	5	1,985,080	14	7,300
09/26/08	5	2,036,620	21	2,454
10/10/08	0	2,051,550	14	1,066
11/14/08	5	2,051,560	35	0

MW53				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
12/05/08	5	2,105,570	21	2,562
12/23/08	5	2,236,980	18	7,312
01/09/09	5	2,356,190	17	7,012

MW53				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

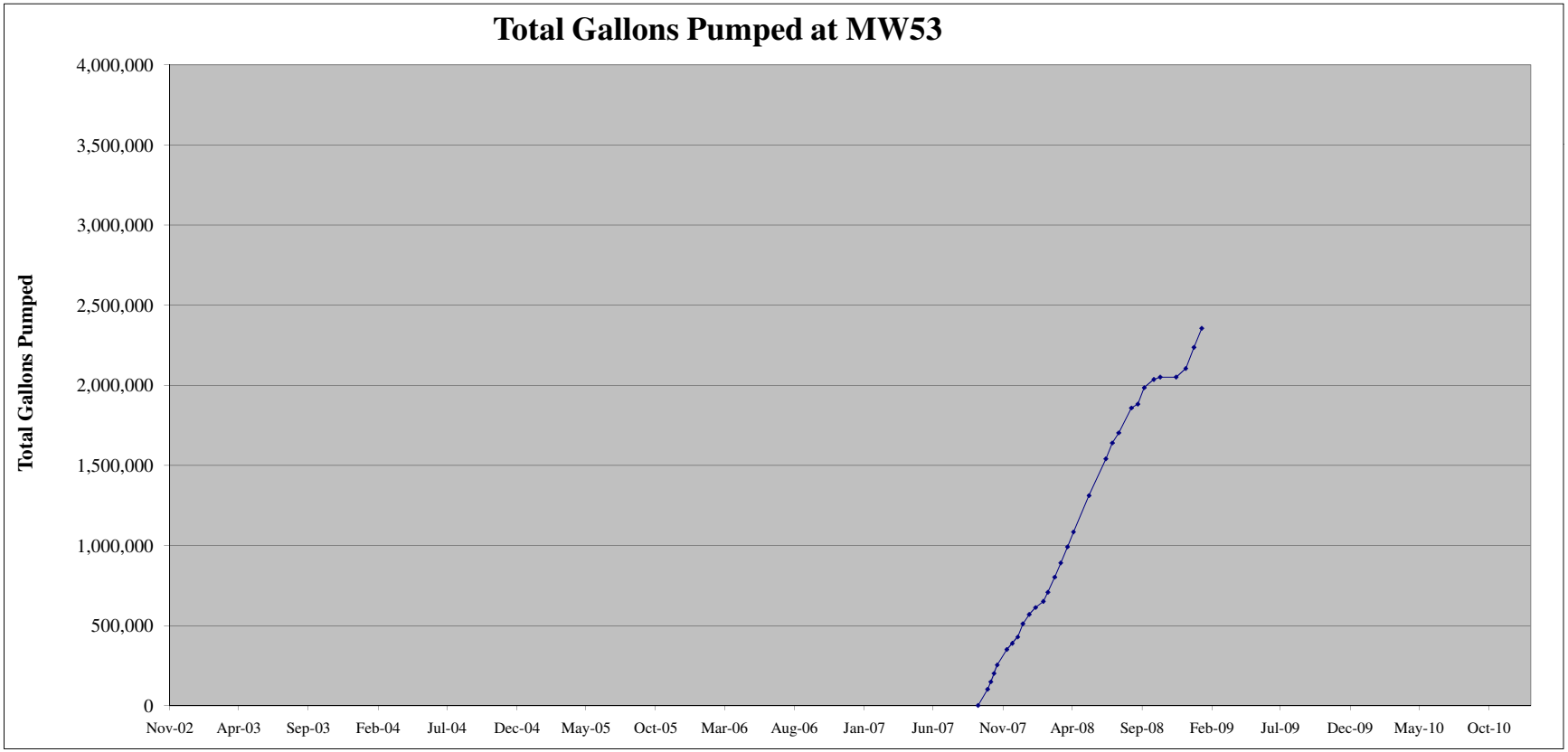
MW53				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

MW53				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

MW53				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

Lower aquifer extraction system in MW30 was started in September 2007.



Pumping Data for Lower Aquifer Monitoring Well LA12

LA12				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
09/07/07	0	740	---	---
09/28/07	0	740	21	0
10/05/07	0	740	7	0
10/12/07	0	740	7	0
10/19/07	0	740	7	0
11/09/07	0	740	21	0
11/21/07	0	740	12	0
12/03/07	0	740	12	0
12/14/07	0	740	11	0
12/28/07	0	740	14	0
01/11/08	0	740	14	0
01/28/08	0	740	17	0
02/07/08	0	740	10	0
02/22/08	0	740	15	0
03/06/08	0	740	13	0
03/21/08	0	740	15	0
04/03/08	0	740	13	0
05/07/08	0	740	34	0
06/13/08	0	740	37	0
06/27/08	0	740	14	0
07/11/08	0	740	14	0
08/08/08	0	740	28	0
08/22/08	0	740	14	0
09/05/08	0	740	14	0
09/26/08	0	740	21	0
10/10/08	0	740	14	0
11/14/08	0	740	35	0

LA12				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
12/05/08	0	740	21	0
12/23/08	0	740	18	0
01/09/09	0	740	17	0

LA12				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

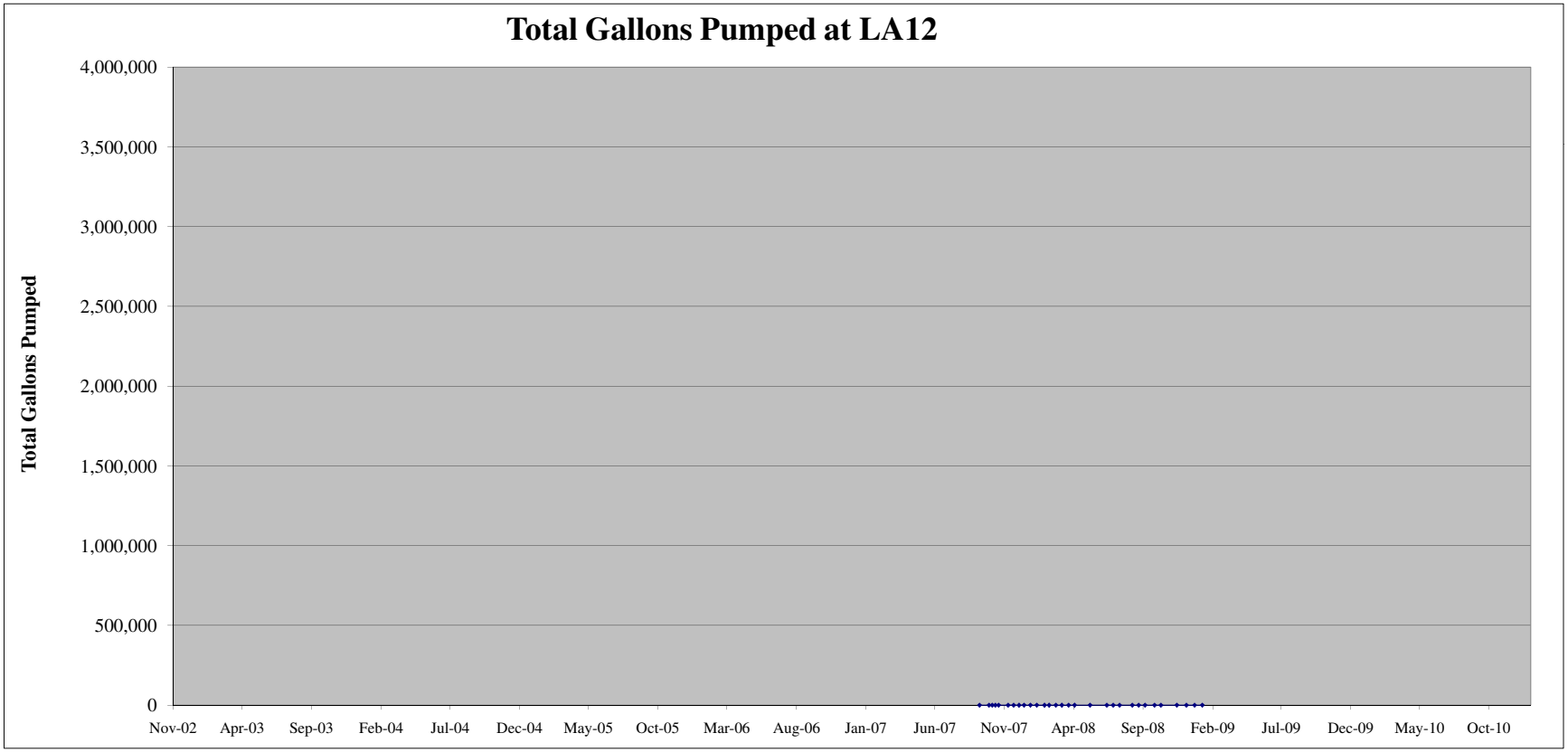
LA12				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA12				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA12				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

Lower aquifer extraction system in MW30 was started in September 2007.



Pumping Data for Lower Aquifer Monitoring Well LA13

LA13				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
09/07/07	0	0	---	---
09/28/07	0	0	21	0
10/05/07	0	0	7	0
10/12/07	0	0	7	0
10/19/07	0	0	7	0
11/09/07	0	0	21	0
11/21/07	0	0	12	0
12/03/07	0	0	12	0
12/14/07	0	0	11	0
12/28/07	0	0	14	0
01/11/08	0	0	14	0
01/28/08	0	0	17	0
02/07/08	0	0	10	0
02/22/08	0	0	15	0
03/06/08	0	0	13	0
03/21/08	0	0	15	0
04/03/08	0	0	13	0
05/07/08	0	0	34	0
06/13/08	0	0	37	0
06/27/08	0	0	14	0
07/11/08	0	0	14	0
08/08/08	0	0	28	0
08/22/08	0	0	14	0
09/05/08	0	0	14	0
09/26/08	0	0	21	0
10/10/08	0	0	14	0
11/14/08	0	0	35	0

LA13				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
12/05/08	0	0	21	0
12/23/08	0	0	18	0
01/09/09	0	0	17	0

LA13				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

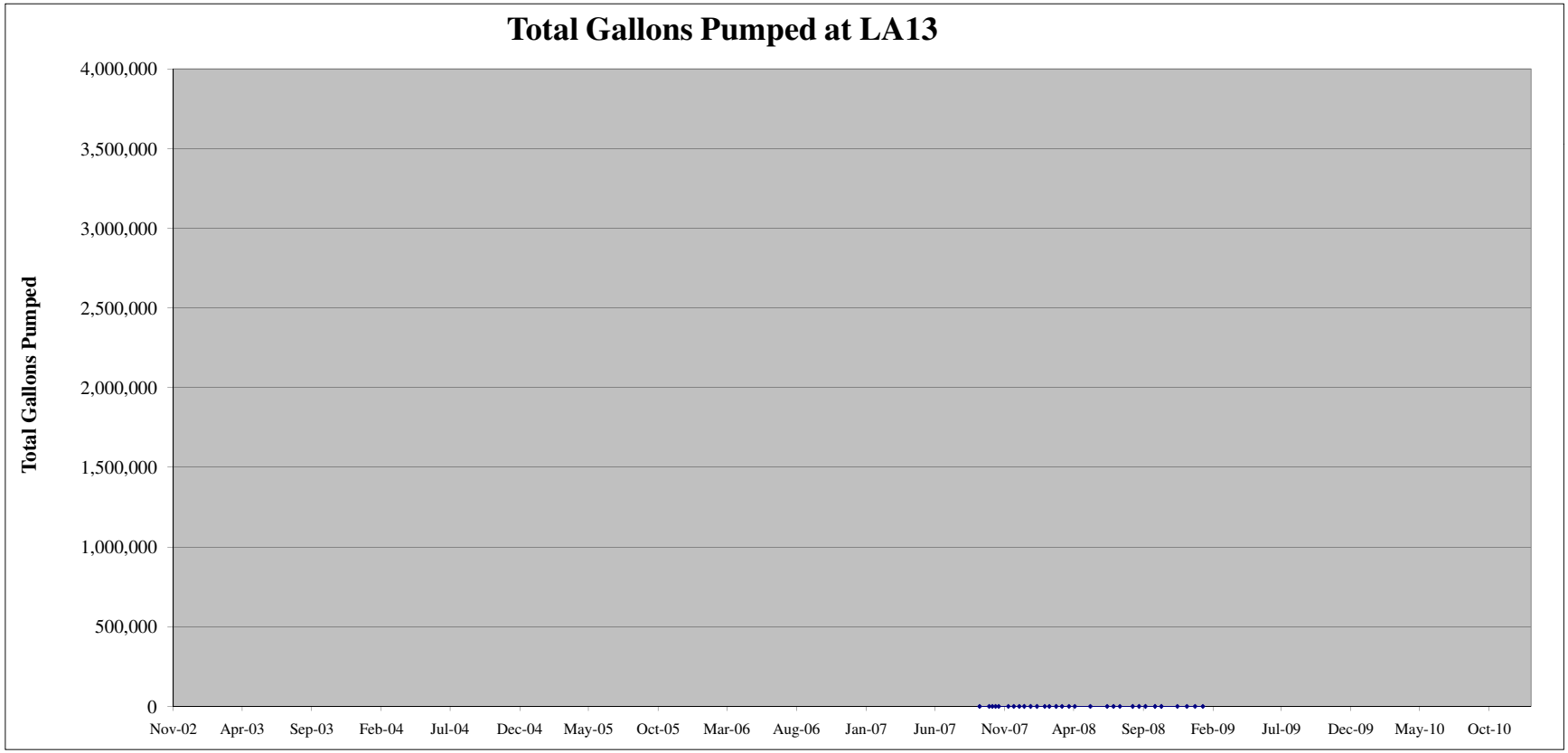
LA13				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA13				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA13				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

Lower aquifer extraction system in MW30 was started in September 2007.



Pumping Data for Lower Aquifer Monitoring Well LA14

LA14				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
09/07/07	5	1,280	---	---
09/28/07	5	78,730	21	3,688
10/05/07	5	117,780	7	5,579
10/12/07	5	165,640	7	6,837
10/19/07	5	212,980	7	6,763
11/09/07	5	303,580	21	4,314
11/21/07	5	342,410	12	3,236
12/03/07	5	378,330	12	2,993
12/14/07	5	452,820	11	6,772
12/28/07	2	502,280	14	3,533
01/11/08	2	545,460	14	3,084
01/28/08	5	580,650	17	2,070
02/07/08	5	634,540	10	5,389
02/22/08	5	722,140	15	5,840
03/06/08	5	804,610	13	6,344
03/21/08	5	901,700	15	6,473
04/03/08	5	1,002,550	13	7,758
05/07/08	5	1,252,830	34	7,361
06/13/08	5	1,479,680	37	6,131
06/27/08	5	1,576,230	14	6,896
07/11/08	5	1,638,160	14	4,424
08/08/08	5	1,791,670	28	5,483
08/22/08	5	1,816,620	14	1,782
09/05/08	5	1,922,110	14	7,535
09/26/08	5	1,974,770	21	2,508
10/10/08	0	1,989,830	14	1,076
11/14/08	5	1,989,830	35	0

LA14				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
12/05/08	5	2,070,820	21	3,857
12/23/08	5	2,130,370	18	3,308
01/09/09	5	2,288,370	17	9,294

LA14				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

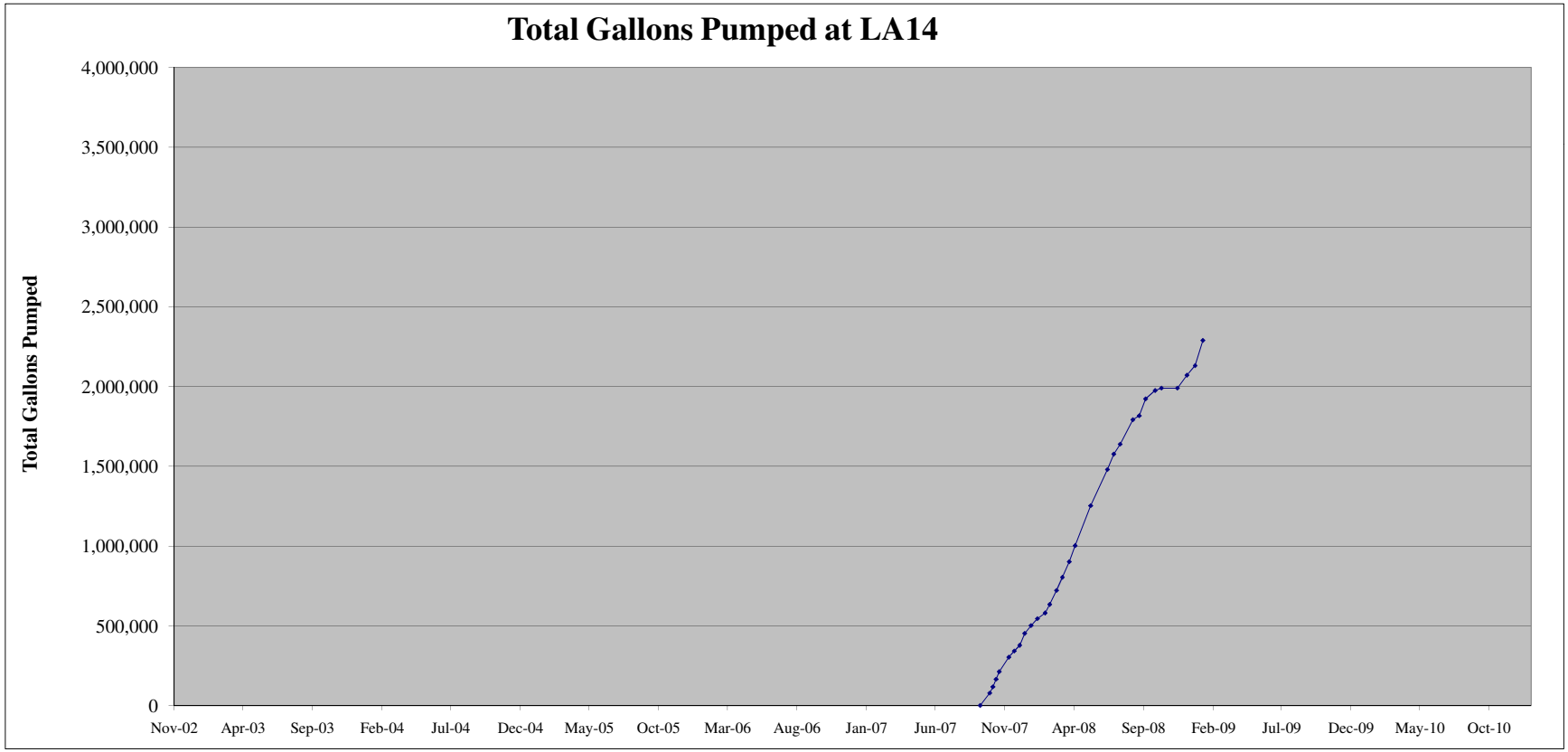
LA14				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA14				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA14				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

Lower aquifer extraction system in MW30 was started in September 2007.



Pumping Data for Lower Aquifer Monitoring Well LA15

LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
09/07/07	0	0	---	---
09/28/07	0	0	21	0
10/05/07	0	0	7	0
10/12/07	0	0	7	0
10/19/07	0	0	7	0
11/09/07	0	0	21	0
11/21/07	0	0	12	0
12/03/07	0	0	12	0
12/14/07	0	0	11	0
12/28/07	0	0	14	0
01/11/08	0	0	14	0
01/28/08	0	0	17	0
02/07/08	0	0	10	0
02/22/08	0	0	15	0
03/06/08	0	0	13	0
03/21/08	0	0	15	0
04/03/08	0	0	13	0
05/07/08	0	0	34	0
06/13/08	0	0	37	0
06/27/08	0	0	14	0
07/11/08	0	0	14	0
08/08/08	0	0	28	0
08/22/08	0	0	14	0
09/05/08	0	0	14	0
09/26/08	0	0	21	0
10/10/08	0	0	14	0
11/14/08	0	0	35	0

LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
12/05/08	0	0	21	0
12/23/08	0	0	18	0
01/09/09	0	0	17	0

LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

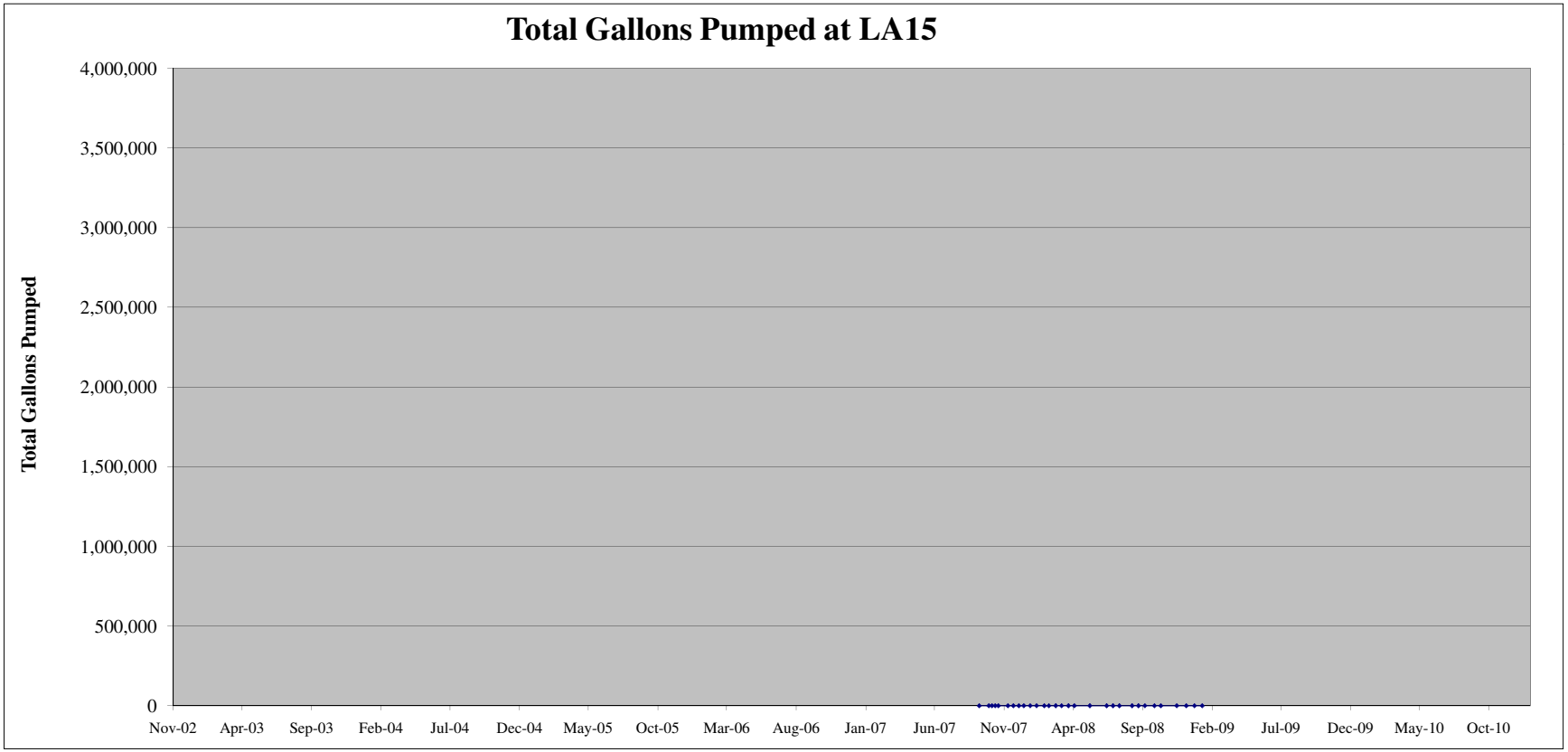
LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day

GPM - Gallons per minute

Lower aquifer extraction system in MW30 was started in September 2007.



Combined Pumping Data for Lower Aquifer Monitoring Wells MW10C, MW56, MW30, MW53, LA12, LA13, LA14, and LA15

MW56, MW10C, MW30, MW53, LA12, LA13, LA14, and LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
11/15/02	1.5	12,200	---	---
12/03/02	1.5	33,200	18	1,167
12/21/02	2	51,710	18	1,028
12/27/02	2	56,450	6	790
01/03/03	2	65,040	7	1,227
01/10/03	2	71,710	7	953
01/16/03	2	78,960	6	1,208
01/24/03	2	86,420	8	933
01/31/03	2.5	106,980	7	2,937
02/14/03	2.5	149,520	14	3,039
02/20/03	2.5	168,760	6	3,207
02/27/03	2.5	192,340	7	3,369
03/07/03	3	221,820	8	3,685
03/13/03	3	245,790	6	3,995
03/21/03	3	283,850	8	4,758
03/28/03	3	312,860	7	4,144
04/04/03	3	340,160	7	3,900
04/11/03	3	368,300	7	4,020
04/17/03	3	391,290	6	3,832
04/25/03	3	436,960	8	5,709
05/02/03	3	477,520	7	5,794
05/29/03	3	643,430	27	6,145
06/13/03	3	695,070	15	3,443
06/20/03	3	719,810	7	3,534
07/03/03	3	807,950	13	6,780
07/11/03	3	862,080	8	6,766
07/25/03	4	884,190	14	1,579

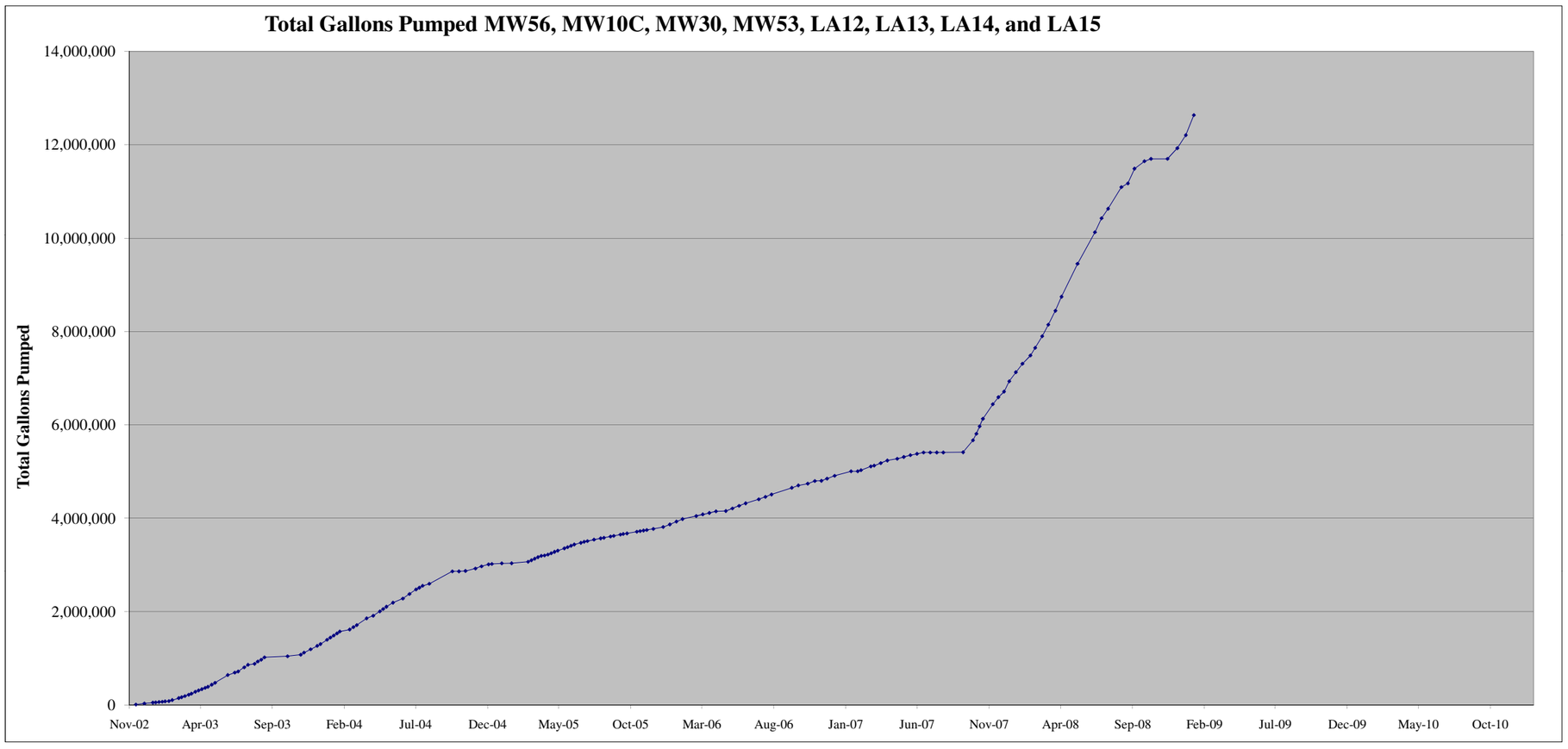
GPM - Gallons per minute

MW56, MW10C, MW30, MW53, LA12, LA13, LA14, and LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
08/01/03	4	934,060	7	4,607
08/08/03	4	971,910	7	5,407
08/15/03	4	1,022,370	7	7,209
10/03/03	4	1,045,300	49	468
10/31/03	4	1,078,690	28	1,193
11/07/03	4	1,123,180	7	6,356
11/21/03	4	1,193,840	14	5,047
12/05/03	4	1,267,440	14	5,257
12/12/03	4	1,307,410	7	5,710
12/26/03	4	1,398,390	14	6,499
01/02/04	4	1,444,530	7	6,591
01/09/04	4	1,489,220	7	6,384
01/16/04	4	1,535,480	7	6,609
01/22/04	4	1,574,780	6	6,550
02/12/04	4	1,616,680	21	1,995
02/20/04	4	1,668,820	8	6,518
02/27/04	4	1,713,950	7	6,447
03/19/04	4	1,857,440	21	6,833
04/02/04	4	1,913,180	14	3,981
04/16/04	4	2,007,400	14	6,730
04/23/04	4	2,056,520	7	7,017
04/30/04	4	2,105,780	7	7,037
05/14/04	4	2,194,180	14	6,314
06/04/04	4	2,280,390	21	4,105
06/18/04	4	2,378,290	14	6,993
07/02/04	4	2,476,180	14	6,992
07/09/04	4	2,514,210	7	5,433

MW56, MW10C, MW30, MW53, LA12, LA13, LA14, and LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/16/04	4	2,553,780	7	5,653
07/30/04	4	2,597,030	14	3,089
09/17/04	0	2,863,480	49	5,438
10/01/04	0	2,863,480	14	0
10/15/04	0	2,871,660	14	584
11/05/04	2	2,923,790	21	2,482
11/18/04	2	2,971,110	13	3,640
12/03/04	0	3,014,400	15	2,886
12/10/04	2	3,022,120	7	1,103
12/31/04	4	3,034,500	21	590
01/21/05	2	3,037,830	21	159
02/25/05	4	3,069,870	35	915
03/04/05	4	3,102,750	7	4,697
03/11/05	4	3,135,690	7	4,706
03/18/05	4	3,168,010	7	4,617
03/25/05	4	3,195,480	7	3,924
04/01/05	4	3,203,490	7	1,144
04/08/05	4	3,223,370	7	2,840
04/15/05	4	3,251,170	7	3,971
04/22/05	4	3,280,430	7	4,180
04/29/05	4	3,308,060	7	3,947
05/13/05	4	3,355,150	14	3,364
05/20/05	4	3,381,890	7	3,820
05/27/05	4	3,410,790	7	4,129
06/03/05	4	3,439,060	7	4,039
06/17/05	4	3,475,810	14	2,625
06/24/05	4	3,496,020	7	2,887

MW56, MW10C, MW30, MW53, LA12, LA13, LA14, and LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/01/05	2	3,511,280	7	2,180
07/15/05	2	3,541,700	14	2,173
07/29/05	2	3,569,390	14	1,978
08/05/05	2	3,583,100	7	1,959
08/19/05	2	3,609,820	14	1,909
08/26/05	2	3,623,640	7	1,974
09/09/05	2	3,650,530	14	1,921
09/15/05	2	3,663,360	6	2,138
09/23/05	2	3,676,200	8	1,605
10/14/05	2	3,713,740	21	1,788
10/21/05	2	3,725,750	7	1,716
10/28/05	2	3,737,270	7	1,646
11/04/05	2	3,749,490	7	1,746
11/18/05	2	3,772,350	14	1,633
12/09/05	2	3,812,560	21	1,915
12/23/05	2	3,867,780	14	3,944
01/06/06	2	3,928,950	14	4,369
01/19/06	2	3,983,580	13	4,202
02/17/06	2	4,048,870	29	2,251
03/03/06	2	4,082,700	14	2,416
03/17/06	2	4,114,680	14	2,284
03/31/06	2	4,148,310	14	2,402
04/21/06	2	4,156,580	21	394
05/05/06	2	4,210,270	14	3,835
05/19/06	2	4,266,670	14	4,029
06/02/06	2	4,320,100	14	3,816
06/30/06	2	4,405,960	28	3,066

MW56, MW10C, MW30, MW53, LA12, LA13, LA14, and LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
07/14/06	2	4,458,460	14	3,750
07/27/06	2	4,509,950	13	3,961
09/08/06	2	4,651,090	43	3,282
09/22/06	2	4,703,460	14	3,741
10/12/06	2	4,740,860	20	1,870
10/27/06	2	4,798,080	15	3,815
11/10/06	2	4,802,420	14	310
11/22/06	2	4,848,380	12	3,830
12/08/06	2	4,909,520	16	3,821
01/12/07	2	5,006,340	35	2,766
01/26/07	2	5,006,340	14	0
02/02/07	2	5,029,360	7	3,289
02/23/07	2	5,112,130	21	3,941
03/02/07	2	5,127,460	7	2,190
03/16/07	2	5,181,250	14	3,842
03/30/07	2	5,237,320	14	4,005
04/20/07	2	5,275,200	21	1,804
05/04/07	2	5,312,690	14	2,678
05/18/07	2	5,350,260	14	2,684
06/01/07	2	5,379,710	14	2,104
06/15/07	0	5,408,280	14	2,041
06/29/07	0	5,408,280	14	0
07/13/07	0	5,408,280	14	0
07/27/07	0	5,408,280	14	0
09/07/07	16	5,414,737	42	154
09/28/07	16	5,670,590	21	12,183
10/05/07	16	5,809,740	7	19,879

MW56, MW10C, MW30, MW53, LA12, LA13, LA14, and LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day
10/12/07	16	5,969,710	7	22,853
10/19/07	16	6,130,130	7	22,917
11/09/07	16	6,441,720	21	14,838
11/21/07	16	6,593,410	12	12,641
12/03/07	16	6,711,560	12	9,846
12/14/07	16	6,934,450	11	20,263
12/28/07	10	7,126,510	14	13,719
01/11/08	10	7,308,530	14	13,001
01/28/08	16	7,485,110	17	10,387
02/07/08	16	7,648,820	10	16,371
02/22/08	14	7,899,120	15	16,687
03/06/08	16	8,146,420	13	19,023
03/21/08	16	8,444,410	15	19,866
04/03/08	16	8,743,420	13	23,001
05/07/08	16	9,449,530	34	20,768
06/13/08	16	10,123,650	37	18,219
06/27/08	16	10,423,100	14	21,389
07/11/08	16	10,626,910	14	14,558
08/08/08	16	11,090,660	28	16,563
08/22/08	16	11,171,650	14	5,785
09/05/08	16	11,485,340	14	22,406
09/26/08	16	11,644,420	21	7,575
10/10/08	0	11,695,750	14	3,666
11/14/08	16	11,695,800	35	1
12/05/08	16	11,924,290	21	10,880
12/23/08	16	12,202,340	18	15,447
01/09/09	16	12,631,730	17	25,258

MW56, MW10C, MW30, MW53, LA12, LA13, LA14, and LA15				
Measurement Date	Flow Rate (GPM)	Total Gallons Pumped	Days Between Measurements	Gallons per Day